DENR USE ONLY ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #: 6220

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Waste Management

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: G. Van Ness Burbach, Ph.D., P.G. Phone: (336) 323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Piedmont Landfill and Recycling Center	9900 Freeman Road Kernersville, NC	34-06	.1600	September 10-11, 2008

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☒ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards or explosive methane gas limits were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Alexander Lacsamana, PE — Project Manager, Closed Sites — (770) 805-3366

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — Date: 10/27/08

Affix NC Licensed/ Professional Geologist Seal

Revised 10/2006

WASTE MANAGEMENT

October 27, 2008

Received
OCT
Waste Management

WASTE MANAGEMENT
1000 Parkwood Circle
Suite 700
Atlanta, GA 30339

Received
OCT 2008
Waste Management

NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646
Attn: Ms. Jaclynne Drummond

Re: **Second 2008 Semiannual Detection and Assessment Groundwater Monitoring Event**
Piedmont Landfill and Recycling Center, Kernersville, North Carolina
Permit Number 34-06 (JEI Project No. 392.00, Task 72)

Dear Ms. Drummond:

Please find enclosed one original copy of the report documenting the Second Semiannual Detection and Assessment Groundwater Monitoring Event of 2008 for the above-referenced facility. Included with the report are an Environmental Monitoring Reporting Form and a CD with the laboratory data in electronic format. Samples were collected by Professional Technical Support Services (ProTech) on September 10-11, 2008. The samples were transported to the Test America, Inc. laboratory in Denver, Colorado for analysis.

The Piedmont Landfill and Recycling Center is a closed municipal solid waste that last received waste in 2004 and entered into post closure care in accordance with Rule .1627(d) of the North Carolina Solid Waste Management Regulations (NCSWMR) as of October 29, 2004. All points at the facility are currently being monitored under a Detection Monitoring Program under Rule .1633 of the NCSWMR, except for MW-9R, which is under an Assessment Monitoring Program in accordance with Rule .1634 of the NCSWMR.

This letter also serves as notification that we have a confirmed statistically significant increase in monitoring well MW-02 of vinyl chloride. This is consistent with previous results. An Alternate Source Demonstration (ASD) for the volatile organic constituents detected in MW-02 was submitted in March 2008 and accepted by the Department of Environmental and Natural Resources (DENR) in a letter dated May 7, 2008. To address impacts to the groundwater near MW-02 we are looking into additional improvement and medication options to the landfill gas extraction system in the vicinity of MW-02. Possible improvement may include the installation of additional gas extraction well, construction of a gas extraction trench, or installation of a sub-liner header line gas extraction near MW-02. A copy of this letter will be placed into the site's operating record in accordance with Rule .1633(c)(1) of the NCSWMR.

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

Printed on 100% post-consumer recycled paper.

The next sampling event for Piedmont Landfill and Recycling Center is scheduled for the first quarter of 2009. If you have any questions or concerns regarding this report, please call me at (770) 805-3366.

Sincerely,

Waste Management of Carolinas, Inc.

Alexander Lacsamana, P.E.
Project Manager, Closed Sites

Enclosure:
cc: March Smith, WMCI (w/o enclosure)
Van Burbach, Ph.D., P.G. – JEI

Prepared For:

Piedmont Landfill & Recycling Center
9900 Freeman Road
Kernersville, North Carolina 27284
Permit No. 34-06

WASTE MANAGEMENT

SECOND SEMIANNUAL DETECTION AND ASSESSMENT GROUNDWATER MONITORING EVENT FOR 2008

PIEDMONT LANDFILL & RECYCLING CENTER

PERMIT # 34-06

OCTOBER 2008

Prepared By:

JOYCE ENGINEERING, INC.

2211 West Meadowview Road, Suite 101
Greensboro, North Carolina 27407
Phone: (336) 323-0092
Fax: (336) 323-0093

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

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E-mail: vburbach@joyceengineering.com

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☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

Notification attached?

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Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Alexander Lacsamana, PE	Project Manager, Closed Sites	(770) 805-3366
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature: Alexander Lacsamana Date: 10/27/08

Affix NC Licensed/ Professional Geologist Seal

Revised 10/2006

SECOND SEMIANNUAL DETECTION AND ASSESSMENT GROUNDWATER MONITORING EVENT FOR 2008

PIEDMONT LANDFILL & RECYCLING CENTER

PERMIT # 34-06

OCTOBER 2008

Prepared by:

JOYCE ENGINEERING, INC.

2211 West Meadowview Road, Suite 101
Greensboro, North Carolina 27407

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

Prepared by: _____
G. Van Ness Burbach, Ph.D., P.G.
NC License # 1349

Reviewed by: _____
Michelle M. Brown

ENGINEERING, INC.

Waste Industry Experts

Joyce Engineering, Inc
2211 W. Meadowview Road
Suite 101
Greensboro, NC 27407

tel: **336/323-0092**
fax: **336/323-0093**

www.JoyceEngineering.com

October 27, 2008

Mr. Alexander Lacsamana, P.E.
Project Manager, Closed Sites
Waste Management
2859 Paces Ferry Road, Suite 1600
Atlanta, Georgia 30339

RE: Second Semiannual Groundwater Monitoring Report of 2008
Piedmont Landfill & Recycling Center
Permit Number 34-06
JEI Project No. 392.00, Task 72

Dear Mr. Lacsamana,

The purpose of this report is to provide you with a complete submittal to satisfy the groundwater monitoring compliance requirements for the closed Piedmont Landfill and Recycling Center's second semiannual groundwater monitoring event of 2008. This report may also serve to fulfill the notification requirements of Rule .1634 (g) of the North Carolina Solid Waste Management Regulations (NCSWMR).

Sampling for the event was performed on September 10-11, 2008 by Pro-Tech. During this semiannual event, the site compliance wells and surface water monitoring points were sampled and analyzed for the NC Appendix I list of constituents, except for MW-9R, which was sampled for NC Appendix II list of constituents. The site leachate was also sampled during this event for the required list of parameters. The laboratory analytical reports, field data sheets, and chains of custody are provided as *Appendix A* of this letter report.

MONITORING PROGRAM HISTORY

The site entered into an Assessment Monitoring Program for background wells MW-1 and MW-6 and downgradient well MW-9 after volatile organic constituents were detected in MW-9 during the second semiannual event of 1996. Two organic compounds (chloroethane and 1,1-dichloroethane) were historically detected in monitoring well MW-9. Chloroethane exhibited a declining trend to the point where cholorethane was reported at less than the laboratory reporting limit during the January 1998 sampling event. The concentration of 1,1-dichloroethane in MW-9 also decreased below the laboratory reporting limit during the July 1998 sampling event. Per

receipt of approval from the North Carolina Department of Environment and Natural Resources (NC DENR), all wells at the site reverted to the Detection Monitoring Program as of the second semiannual event in 1999, as allowed by 15A NCAC 13B.1634 (b).

Monitoring well MW-9 was replaced by well MW-9R in November 1999. No chloroethane concentration above the laboratory reporting limit or SWSL has been detected in MW-9R since the well was installed; however, 1,1-dichloroethane was detected in MW-9R at a concentration of 23 μg/L during the initial sampling event conducted in January 2000. The concentration of 1,1-dichlorothane has remained relatively consistent during recent events, ranging in concentration from 7 μg/L to 28 μg/L. The constituent cis-1,2-dichloroethene was detected in MW-9R above the laboratory reporting limit for the first time during the July 2002 event at a concentration of 6.5 μg/L, and has been detected at concentrations ranging from 5-28 μg/L since that time.

Due to the detection of 1,1-dichloroethane in MW-9R during the first semiannual event in 2000, the site performed Assessment Monitoring on wells MW-1, MW-6, and MW-9R through the second semiannual event of 2001. Following NC DENR approval of an August 20, 2001 request by Waste Management, MW-1 and MW-6 again reverted to Detection Monitoring. Monitoring well MW-9R will continue to be sampled for the NC Appendix I list of constituents plus detected Appendix II constituents during the first semiannual event each year and NC Appendix II list of constituents during the second semiannual event each year as long as statistically significant increases continue to be present.

The presence of organic constituents in MW-9 and MW-9R is attributed to landfill gas (LFG). The landfill gas network was expanded in this area in January 2003, and the concentrations of organic constituents in this well are expected to decrease over time as a result.

In the September 2006 sampling event, benzene and vinyl chloride were detected in MW-02 at concentrations in exceedance of NC-2L groundwater standards. A resampling event confirmed the vinyl chloride, but not the benzene exceedance. An *Alternate Source Demonstration* (ASD) was submitted to DENR on March 14, 2008. The ASD demonstrated that the organic constituents detected in MW-02 are related to LFG impacts. In January 2008, improvements to the active LFG recovery system at the site were instigated to help mitigate these impacts. The ASD was accepted by DENR in a letter dated May 7, 2008 with the condition that if vinyl chloride and benzene concentrations in MW-02 are not sufficiently reduced by Spring 2009, MW-02 will enter Assessment Monitoring.

STATISTICAL ANALYSIS SUMMARY

The results of the statistical analysis of the September 2008 groundwater monitoring event are summarized below and in *Table 1*. The detailed statistical analysis for this event is provided as *Appendix B*. The data for each inorganic parameter were statistically compared to

indicate that improvements to the LFG system have not yet effectively mitigated the LFG impacts to groundwater near MW-02.

Assessment Monitoring Event

MW -9R:

During the second semiannual event of 2008, MW-9R was sampled for the NC Appendix II list of constituents. There were no exclusively Appendix II constituents reported for the September 2008 event. The analytical results for the September 2008 event are provided in *Appendix A* to this letter report and the detected constituents are summarized in *Table 1*.

Inorganic Constituents

There were no Appendix I or II inorganic constituents with quantified detections reported in MW-9R.

Organic Constituents

The only Appendix I organic constituent with a quantified detection in MW-9R for the September 2008 sampling event was 1,1-dichloroethane. This detection was not above the NC-2L standard. This is consistent with historical results, as discussed above. Well MW-9R will continue to be monitored in accordance with the Assessment Monitoring Program in future events.

SUBMITTAL OF LEACHATE ANALYTICAL DATA

Appendix A to this report contains the leachate monitoring results for September 2008 as requested in the Solid Waste Section memo dated November 13, 1996. The leachate was analyzed for NC Appendix I constituents, alkalinity, carbonate alkalinity, bicarbonate alkalinity, TDS, TOC, chloride, ammonia, sulfate, nitrate, phosphate, BOD, COD, TSS, mercury, indicator metals (calcium, iron, magnesium, manganese, sodium, and potassium), and the required field parameters.

SUBMITTAL OF GROUNDWATER MAP AND FLOW CALCULATIONS

Appendix C to this report contains the groundwater surface contour map and groundwater flow rates for this event. In summary, the September 2008 sampling results and groundwater flow assessment indicate that the site monitoring network is effective in monitoring for the release of solid waste constituents to the environment.

CLOSURE

Waste Management is considering additional improvements to the landfill gas extraction system to address the continuing landfill gas impacts to the groundwater near MW-02. Possible improvements may include installation of additional gas vents or gas extraction wells in the vicinity of MW-02. The site will continue to be monitored in accordance with the site's modified Assessment Monitoring Program. The next monitoring event for the closed Piedmont Landfill and Recycling Center is scheduled for the first quarter of 2008. If you have any questions, feel free to contact me or Michelle Brown at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING, INC.

G. Van Ness Burbach, PhD, P.G.
Technical Consultant

Attachments: Table 1 – Summary of Detected Constituents
Appendix A – Laboratory Analytical Reports
Appendix B – Groundwater Statistical Analyses
Appendix C – Groundwater Flow Regime Report

C: Steve Clarke, Waste Management
JEI File

TABLE 1:
Detected Constituents
September 10-11, 2008 Sampling Event

WELL ID	PARAMETER	RESULT	UNITS	SWSL	NC 2L
3406-MW01	Zinc	18	µg/L	10	1050
3406-MW02	Zinc	10	µg/L	10	1050
3406-MW02	Vinyl Chloride	3.2	µg/L	1	0.015
3406-MW03	Chromium	12	µg/L	10	50
3406-MW04D	Zinc	85	µg/L	10	1050
3406-MW04D	Chromium	15	µg/L	10	50
3406-MW09R	1,1-Dichloroethane	6.1	µg/L	5	70
3406-MW11	Zinc	12	µg/L	10	1050
3406-MW12	Zinc	63	µg/L	10	1050

SWSL = NC DENR Solid Waste Section Limits
NC 2L = 15A-NCAC-2L Groundwater Standards
This table includes all NC Appendix I or II constituent detections that were quantified above the SWSL.
Estimated and blank-qualified detections are excluded.

APPENDIX A

LABORATORY ANALYTICAL RESULTS

APPENDIX A – PART 1

LABORATORY ANALYTICAL RESULTS

Monitoring Wells

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project No. Site 134

Piedmont Landfill

Lot #: D8I120350

Groundwater

Al Lacsamana

Waste Management Inc.
Southern Area
1000 Parkwood Circle
Suite 700
Atlanta, GA 30339

Cc: Van Burbach

TestAmerica Denver
North Carolina Certification # 358

Betsy Sara
Project Manager

September 25, 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.*	157

- **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**

Lot #: D8I120350

Laboratory Control Samples (LCS)

The Laboratory Control Samples were within established control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

All MS/MSD samples were within established control limits.

Sample Duplicate

The RPDs for Total Antimony, Arsenic, Cadmium, Thallium and Selenium Method 6020 performed on sample 3406-MW12 were outside control limits. Because all other QC and calibration criteria were met no corrective action was needed.

Metals

The bracketing Continuing Calibration Verification Samples (CCV) were above control limits for Dissolved Arsenic and Selenium during Method 6020 analysis. Because the data are considered to be biased high and the target analytes Arsenic and Selenium were not detected in the associated sample 3406-MW12, corrective action was deemed unnecessary.

EXECUTIVE SUMMARY - Detection Highlights

D8I120350

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
3406-MW02 09/11/08 07:53 002				
Field Conductivity	109	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	2.3	0.5	mg/L	MCAWW 360.1
Field Turbidity	3.0		NTU	MCAWW 180.1
3406-MW03 09/11/08 10:17 003				
Zinc	3.4 B	10	ug/L	SW846 6020
Barium	17 B,J	100	ug/L	SW846 6010B
Vanadium	9.0 B	25	ug/L	SW846 6010B
Silver	1.1 B	10	ug/L	SW846 6010B
Chromium	12	10	ug/L	SW846 6010B
Depth to Water	27.03		ft	NONE Depth to Wat
Groundwater Elevation	743.05		ft/msl	NONE GW Elevation
Well Elevation	770.08		ft/msl	NONE Well Elevati
Field eH (Redox)	235		mV	NONE Field eH (Re
Field Temperature	16.7	--	deg C	MCAWW 170.1
Field pH	5.92	0.1	No Units	MCAWW 150.1
Field Conductivity	126	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	4.9	0.5	mg/L	MCAWW 360.1
Field Turbidity	2.2		NTU	MCAWW 180.1
3406-MW04 09/11/08 13:03 004				
Arsenic	0.38 B	10	ug/L	SW846 6020
Zinc	7.8 B	10	ug/L	SW846 6020
Barium	47 B,J	100	ug/L	SW846 6010B
Cobalt	1.4 B	10	ug/L	SW846 6010B
Depth to Water	14.89		ft	NONE Depth to Wat
Groundwater Elevation	742.03		ft/msl	NONE GW Elevation
Well Elevation	756.92		ft/msl	NONE Well Elevati
Field eH (Redox)	140.0		mV	NONE Field eH (Re
Field Temperature	14.7	--	deg C	MCAWW 170.1
Field pH	5.22	0.1	No Units	MCAWW 150.1
Field Conductivity	76	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	0.6	0.5	mg/L	MCAWW 360.1
Field Turbidity	1.4		NTU	MCAWW 180.1

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D8I120350

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
3406-MW05 09/11/08 14:15 006				
Field Turbidity	4.7		NTU	MCAWW 180.1
3406-MW06 09/11/08 11:39 007				
Zinc	8.8 B	10	ug/L	SW846 6020
Barium	34 B,J	100	ug/L	SW846 6010B
Chromium	1.2 B	10	ug/L	SW846 6010B
Depth to Water	24.89		ft	NONE Depth to Wat
Groundwater Elevation	775.98		ft/msl	NONE GW Elevation
Well Elevation	800.87		ft/msl	NONE Well Elevati
Field eH (Redox)	171.2		mV	NONE Field eH (Re
Field Temperature	16.5	--	deg C	MCAWW 170.1
Field pH	4.77	0.1	No Units	MCAWW 150.1
Field Conductivity	31	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	5.4	0.5	mg/L	MCAWW 360.1
Field Turbidity	1.8		NTU	MCAWW 180.1
3406-MW07 09/11/08 09:19 008				
Arsenic	0.24 B	10	ug/L	SW846 6020
Copper	1.0 B	10	ug/L	SW846 6020
Zinc	4.4 B	10	ug/L	SW846 6020
Barium	3.0 B,J	100	ug/L	SW846 6010B
Vanadium	5.7 B	25	ug/L	SW846 6010B
1,1,1-Trichloroethane	0.19 J	1.0	ug/L	SW846 8260B
Depth to Water	27.64		ft	NONE Depth to Wat
Groundwater Elevation	743.93		ft/msl	NONE GW Elevation
Well Elevation	771.57		ft/msl	NONE Well Elevati
Field eH (Redox)	142.2		mV	NONE Field eH (Re
Field Temperature	16.7	--	deg C	MCAWW 170.1
Field pH	5.53	0.1	No Units	MCAWW 150.1
Field Conductivity	147	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	5.1	0.5	mg/L	MCAWW 360.1
Field Turbidity	3.0		NTU	MCAWW 180.1

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D8I120350

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
3406-MW11 09/11/08 07:45 011				
Zinc	12	10	ug/L	SW846 6020
Barium	62 B,J	100	ug/L	SW846 6010B
Vanadium	1.8 B	25	ug/L	SW846 6010B
Cobalt	3.9 B	10	ug/L	SW846 6010B
1,1-Dichloroethane	0.52 J	5.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.14 J	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.22 J	5.0	ug/L	SW846 8260B
Depth to Water	30.25		ft	NONE Depth to Wat
Groundwater Elevation	746.55		ft/msl	NONE GW Elevation
Well Elevation	776.80		ft/msl	NONE Well Elevati
Field eH (Redox)	191.4		mV	NONE Field eH (Re
Field Temperature	16.3	--	deg C	MCAWW 170.1
Field pH	5.44	0.1	No Units	MCAWW 150.1
Field Conductivity	162	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	1.4	0.5	mg/L	MCAWW 360.1
Field Turbidity	6.2		NTU	MCAWW 180.1
3406-MW11D 09/11/08 08:40 012				
Copper	9.4 B	10	ug/L	SW846 6020
Zinc	9.9 B	10	ug/L	SW846 6020
Barium	30 B,J	100	ug/L	SW846 6010B
Vanadium	14 B	25	ug/L	SW846 6010B
Chromium	7.4 B	10	ug/L	SW846 6010B
Nickel	1.4 B	50	ug/L	SW846 6010B
Depth to Water	30.22		ft	NONE Depth to Wat
Groundwater Elevation	746.14		ft/msl	NONE GW Elevation
Well Elevation	776.36		ft/msl	NONE Well Elevati
Field eH (Redox)	186		mV	NONE Field eH (Re
Field Temperature	16.5	--	deg C	MCAWW 170.1
Field pH	6.11	0.1	No Units	MCAWW 150.1
Field Conductivity	72	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	5.6	0.5	mg/L	MCAWW 360.1
Field Turbidity	8.4		NTU	MCAWW 180.1

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D8I120350

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
3406-MW12D 09/11/08 12:29 014				
Field Turbidity	6.3		NTU	MCAWW 180.1
3406-01FB 09/11/08 14:30 015				
Arsenic	0.24 B	10	ug/L	SW846 6020
Chloroform	0.21 J	5.0	ug/L	SW846 8260B
Field eH (Redox)	84.0		mV	NONE Field eH (Re
Field Temperature	19.9	--	deg C	MCAWW 170.1
Field pH	7.41	0.1	No Units	MCAWW 150.1
Field Conductivity	5	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	2.2	0.5	mg/L	MCAWW 360.1
Field Turbidity	0.1		NTU	MCAWW 180.1
TRIP 09/11/08 016				
Methylene chloride	0.41 J	1.0	ug/L	SW846 8260B
Acetone	7.4 J	100	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

D8I120350

PARAMETER	ANALYTICAL METHOD
	NONE Depth to Water
	NONE Field eH (Redox)
	NONE GW Elevation
	NONE Well Elevation
Field pH	MCAWW 150.1
Field Conductivity	MCAWW 120.1
Field Dissolved Oxygen	MCAWW 360.1
Field Temperature	MCAWW 170.1
Field Turbidity	MCAWW 180.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
ICP-MS (6020)	SW846 6020
Volatile Organics by GC/MS	SW846 8260B

References:

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

NONE

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D8I120350

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KWTLV	001	3406-MW01	09/11/08	11:42
KWTL0	002	3406-MW02	09/11/08	07:53
KWTL2	003	3406-MW03	09/11/08	10:17
KWTL3	004	3406-MW04	09/11/08	13:03
KWTL4	005	3406-MW04D	09/11/08	13:08
KWTL6	006	3406-MW05	09/11/08	14:15
KWTL9	007	3406-MW06	09/11/08	11:39
KWTMA	008	3406-MW07	09/11/08	09:19
KWTMD	009	3406-MW08	09/11/08	13:37
KWTME	010	3406-MW10	09/11/08	08:34
KWTMF	011	3406-MW11	09/11/08	07:45
KWTMH	012	3406-MW11D	09/11/08	08:40
KWTMJ	013	3406-MW12	09/11/08	12:20
KWTMN	014	3406-MW12D	09/11/08	12:29
KWTMQ	015	3406-01FB	09/11/08	14:30
KWTMT	016	TRIP	09/11/08	

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: 3406-MW01

GC/MS Volatiles

Lot-Sample #...: D8I120350-001 **Work Order #...:** KWTLV1AU **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(79 - 119)
1,2-Dichloroethane-d4	101	(65 - 126)
4-Bromofluorobenzene	92	(75 - 115)
Toluene-d8	101	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW02

GC/MS Volatiles

Lot-Sample #...: D8I120350-002 Work Order #...: KWTL01AU Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	**3.2**	**1.0**	**ug/L**	**0.40**
Xylenes (total)	**1.1 J**	**5.0**	**ug/L**	**0.19**
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(79 - 119)
1,2-Dichloroethane-d4	99	(65 - 126)
4-Bromofluorobenzene	93	(75 - 115)
Toluene-d8	100	(78 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW03

GC/MS Volatiles

Lot-Sample #...: D8I120350-003 **Work Order #...:** KWTL21AU **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(79 - 119)
1,2-Dichloroethane-d4	101	(65 - 126)
4-Bromofluorobenzene	94	(75 - 115)
Toluene-d8	101	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW04

GC/MS Volatiles

Lot-Sample #...: D8I120350-004 Work Order #...: KWTL31AU Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(79 - 119)
1,2-Dichloroethane-d4	100	(65 - 126)
4-Bromofluorobenzene	91	(75 - 115)
Toluene-d8	101	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW04D

GC/MS Volatiles

Lot-Sample #...: D8I120350-005 **Work Order #...:** KWTL41AU **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(79 - 119)
1,2-Dichloroethane-d4	104	(65 - 126)
4-Bromofluorobenzene	95	(75 - 115)
Toluene-d8	102	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW05

GC/MS Volatiles

Lot-Sample #...: D8I120350-006 Work Order #...: KWTL61AU Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(79 - 119)
1,2-Dichloroethane-d4	103	(65 - 126)
4-Bromofluorobenzene	93	(75 - 115)
Toluene-d8	99	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW06

GC/MS Volatiles

Lot-Sample #...: D8I120350-007 **Work Order #...:** KWTL91AU **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(79 - 119)
1,2-Dichloroethane-d4	104	(65 - 126)
4-Bromofluorobenzene	93	(75 - 115)
Toluene-d8	98	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW07

GC/MS Volatiles

Lot-Sample #...: D8I120350-008 Work Order #...: KWTMA1AU Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(79 - 119)
1,2-Dichloroethane-d4	105	(65 - 126)
4-Bromofluorobenzene	92	(75 - 115)
Toluene-d8	100	(78 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW08

GC/MS Volatiles

Lot-Sample #...: D8I120350-009 Work Order #...: KWTMD1AU Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(79 - 119)
1,2-Dichloroethane-d4	103	(65 - 126)
4-Bromofluorobenzene	92	(75 - 115)
Toluene-d8	99	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW10

GC/MS Volatiles

Lot-Sample #...: D8I120350-010 **Work Order #...:** KWTME1AU **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(79 - 119)
1,2-Dichloroethane-d4	104	(65 - 126)
4-Bromofluorobenzene	97	(75 - 115)
Toluene-d8	100	(78 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW11

GC/MS Volatiles

Lot-Sample #...: D8I120350-011 Work Order #...: KWTMF1AU Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(79 - 119)
1,2-Dichloroethane-d4	103	(65 - 126)
4-Bromofluorobenzene	96	(75 - 115)
Toluene-d8	99	(78 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW11D

GC/MS Volatiles

Lot-Sample #...: D8I120350-012 Work Order #...: KWTMH1AU Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(79 - 119)
1,2-Dichloroethane-d4	102	(65 - 126)
4-Bromofluorobenzene	92	(75 - 115)
Toluene-d8	98	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW12

GC/MS Volatiles

Lot-Sample #...: D8I120350-013 Work Order #...: KWTMJ1CC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(79 - 119)
1,2-Dichloroethane-d4	103	(65 - 126)
4-Bromofluorobenzene	95	(75 - 115)
Toluene-d8	99	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-MW12D

GC/MS Volatiles

Lot-Sample #...: D8I120350-014 **Work Order #...:** KWTMN1AU **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(79 - 119)
1,2-Dichloroethane-d4	103	(65 - 126)
4-Bromofluorobenzene	95	(75 - 115)
Toluene-d8	98	(78 - 118)

Waste Management, Inc.

Client Sample ID: 3406-01FB

GC/MS Volatiles

Lot-Sample #...: D8I120350-015 Work Order #...: KWTMQ1AU Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	ND	100	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(79 - 119)
1,2-Dichloroethane-d4	104	(65 - 126)
4-Bromofluorobenzene	93	(75 - 115)
Toluene-d8	97	(78 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: TRIP

GC/MS Volatiles

Lot-Sample #...: D8I120350-016 Work Order #...: KWTMT1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	1.0	ug/L	0.32
Trichloroethene	ND	1.0	ug/L	0.16
1,2,3-Trichloropropane	ND	1.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	ND	1.0	ug/L	0.40
Xylenes (total)	ND	5.0	ug/L	0.19
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
2-Butanone (MEK)	ND	100	ug/L	1.8
Acetone	**7.4 J**	**100**	**ug/L**	**1.9**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(79 - 119)
1,2-Dichloroethane-d4	106	(65 - 126)
4-Bromofluorobenzene	97	(75 - 115)
Toluene-d8	99	(78 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW01

TOTAL Metals

Lot-Sample #...: D8I120350-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTLV1AK
		Dilution Factor: 1		Analysis Time..: 19:06	MDL.....: 0.70	
Zinc	**18**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTLV1AL**
		Dilution Factor: 1		Analysis Time..: 19:06	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW02

TOTAL Metals

Lot-Sample #...: D8I120350-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTL01AK
		Dilution Factor: 1		Analysis Time..: 19:10	MDL.....: 0.70	
Zinc	**10**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTL01AL**
		Dilution Factor: 1		Analysis Time..: 19:10	MDL.....: 2.0	

NOTE(S):

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

B Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW03

TOTAL Metals

Lot-Sample #...: D8I120350-003 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTL21AK
		Dilution Factor: 1		Analysis Time..: 19:36	MDL.....: 0.70	
Zinc	**3.4 B**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTL21AL**
		Dilution Factor: 1		Analysis Time..: 19:36	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW04

TOTAL Metals

Lot-Sample #...: D8I120350-004 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTL31AK
		Dilution Factor: 1		Analysis Time..: 19:40	MDL.....: 0.70	
Zinc	**7.8 B**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTL31AL**
		Dilution Factor: 1		Analysis Time..: 19:40	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW04D

TOTAL Metals

Lot-Sample #...: D8I120350-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTL41AK
		Dilution Factor: 1		Analysis Time..: 19:44	MDL.....: 0.70	
Zinc	**85**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTL41AL**
		Dilution Factor: 1		Analysis Time..: 19:44	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW05

TOTAL Metals

Lot-Sample #...: D8I120350-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTL61AK
		Dilution Factor: 1		Analysis Time..: 19:48	MDL.....: 0.70	
Zinc	**5.2 B**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTL61AL**
		Dilution Factor: 1		Analysis Time..: 19:48	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW06

TOTAL Metals

Lot-Sample #...: D8I120350-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTL91AK
		Dilution Factor: 1		Analysis Time..: 19:52	MDL.....: 0.70	
Zinc	**8.8 B**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTL91AL**
		Dilution Factor: 1		Analysis Time..: 19:52	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW07

TOTAL Metals

Lot-Sample #...: D8I120350-008 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTMA1AK
		Dilution Factor: 1		Analysis Time..: 19:55	MDL.....: 0.70	
Zinc	**4.4 B**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTMA1AL**
		Dilution Factor: 1		Analysis Time..: 19:55	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW08

TOTAL Metals

Lot-Sample #...: D8I120350-009 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTMD1AK
		Dilution Factor: 1		Analysis Time..: 19:59	MDL.....: 0.70	
Zinc	**7.1 B**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTMD1AL**
		Dilution Factor: 1		Analysis Time..: 19:59	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW10

TOTAL Metals

Lot-Sample #...: D8I120350-010 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTME1AK
		Dilution Factor: 1		Analysis Time..: 20:03	MDL.....: 0.70	
Zinc	**9.2 B**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTME1AL**
		Dilution Factor: 1		Analysis Time..: 20:03	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW11

TOTAL Metals

Lot-Sample #...: D8I120350-011 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTMF1AK
		Dilution Factor: 1		Analysis Time..: 20:14	MDL.....: 0.70	
Zinc	**12**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTMF1AL**
		Dilution Factor: 1		Analysis Time..: 20:14	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW11D

TOTAL Metals

Lot-Sample #...: D8I120350-012 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTMH1AK
		Dilution Factor: 1		Analysis Time..: 20:18	MDL.....: 0.70	
Zinc	**9.9 B**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTMH1AL**
		Dilution Factor: 1		Analysis Time..: 20:18	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW12

TOTAL Metals

Lot-Sample #...: D8I120350-013 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTMJ1AK
		Dilution Factor: 1		Analysis Time..: 20:29	MDL.....: 0.70	
Zinc	**63**	**10**	**ug/L**	**SW846 6020**	**09/16/08**	**KWTMJ1AL**
		Dilution Factor: 1		Analysis Time..: 20:29	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW12

DISSOLVED Metals

Lot-Sample #...: D8I120350-013 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/17-09/19/08	KWTMJ1A9
		Dilution Factor: 1		Analysis Time..: 08:32	MDL.....: 0.70	
Zinc	**3.3 B**	**10**	**ug/L**	**SW846 6020**	**09/17-09/19/08**	**KWTMJ1CA**
		Dilution Factor: 1		Analysis Time..: 08:32	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-MW12D

TOTAL Metals

Lot-Sample #...: D8I120350-014 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTMN1AK
		Dilution Factor: 1		Analysis Time..: 20:33	MDL.....: 0.70	
Zinc	8.5 B	10	ug/L	SW846 6020	09/16/08	KWTMN1AL
		Dilution Factor: 1		Analysis Time..: 20:33	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: 3406-01FB

TOTAL Metals

Lot-Sample #...: D8I120350-015 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWTMQ1AK
		Dilution Factor: 1		Analysis Time..: 20:37	MDL.....: 0.70	
Zinc	ND	10	ug/L	SW846 6020	09/16/08	KWTMQ1AL
		Dilution Factor: 1		Analysis Time..: 20:37	MDL.....: 2.0	

NOTE(S):

B Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW02

General Chemistry

Lot-Sample #...: D8I120350-002 Work Order #...: KWTL0 Matrix.....: WATER
Date Sampled...: 09/11/08 07:53 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Depth to Water	30.51		ft	NONE Depth to Wat	09/11/08	8259361
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....:	
Field eH (Redox)	165		mV	NONE Field eH (Re	09/11/08	8259359
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....:	
Field pH	5.06	0.1	No Units	MCAWW 150.1	09/11/08	8259359
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....:	
Field Conductivity	109	1	umhos/cm	MCAWW 120.1	09/11/08	8259359
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....:	
Field Dissolved Oxygen	2.3	0.5	mg/L	MCAWW 360.1	09/11/08	8259359
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....: 0.01	
Field Temperature	16.1	--	deg C	MCAWW 170.1	09/11/08	8259359
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....:	
Field Turbidity	3.0		NTU	MCAWW 180.1	09/11/08	8259359
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....:	
Groundwater Elevation	747.53		ft/msl	NONE GW Elevation	09/11/08	8259359
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....:	
Well Elevation	778.04		ft/msl	NONE Well Elevati	09/11/08	8259359
		Dilution Factor: 1		Analysis Time..: 07:53	MDL.....:	

Waste Management, Inc.

Client Sample ID: 3406-MW04

General Chemistry

Lot-Sample #...: D8I120350-004 Work Order #...: KWTL3 Matrix.....: WATER
Date Sampled...: 09/11/08 13:03 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Depth to Water	14.89		ft	NONE Depth to Wat	09/11/08	8259361
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....:	
Field eH (Redox)	140.0		mV	NONE Field eH (Re	09/11/08	8259362
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....:	
Field pH	5.22	0.1	No Units	MCAWW 150.1	09/11/08	8259362
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....:	
Field Conductivity	76	1	umhos/cm	MCAWW 120.1	09/11/08	8259362
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....:	
Field Dissolved Oxygen	0.6	0.5	mg/L	MCAWW 360.1	09/11/08	8259362
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....: 0.01	
Field Temperature	14.7	--	deg C	MCAWW 170.1	09/11/08	8259362
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....:	
Field Turbidity	1.4		NTU	MCAWW 180.1	09/11/08	8259362
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....:	
Groundwater Elevation	742.03		ft/msl	NONE GW Elevation	09/11/08	8259362
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....:	
Well Elevation	756.92		ft/msl	NONE Well Elevati	09/11/08	8259362
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....:	

Waste Management, Inc.

Client Sample ID: 3406-MW05

General Chemistry

Lot-Sample #...: D8I120350-006 Work Order #...: KWTL6 Matrix.....: WATER
Date Sampled...: 09/11/08 14:15 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Depth to Water	6.25		ft	NONE Depth to Wat	09/11/08	8259361
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....:	
Field eH (Redox)	273		mV	NONE Field eH (Re	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....:	
Field pH	5.61	0.1	No Units	MCAWW 150.1	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....:	
Field Conductivity	252	1	umhos/cm	MCAWW 120.1	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....:	
Field Dissolved Oxygen	0.7	0.5	mg/L	MCAWW 360.1	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....: 0.01	
Field Temperature	15.8	--	deg C	MCAWW 170.1	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....:	
Field Turbidity	4.7		NTU	MCAWW 180.1	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....:	
Groundwater Elevation	740.92		ft/msl	NONE GW Elevation	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....:	
Well Elevation	747.17		ft/msl	NONE Well Elevati	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....:	

Waste Management, Inc.

Client Sample ID: 3406-MW07

General Chemistry

Lot-Sample #...: D8I120350-008 Work Order #...: KWTMA Matrix.....: WATER
Date Sampled...: 09/11/08 09:19 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Depth to Water	27.64		ft	NONE Depth to Wat	09/11/08	8259361
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....:	
Field eH (Redox)	142.2		mV	NONE Field eH (Re	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....:	
Field pH	5.53	0.1	No Units	MCAWW 150.1	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....:	
Field Conductivity	147	1	umhos/cm	MCAWW 120.1	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....:	
Field Dissolved Oxygen	5.1	0.5	mg/L	MCAWW 360.1	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....: 0.01	
Field Temperature	16.7	--	deg C	MCAWW 170.1	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....:	
Field Turbidity	3.0		NTU	MCAWW 180.1	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....:	
Groundwater Elevation	743.93		ft/msl	NONE GW Elevation	09/11/08	8259364
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....:	
Well Elevation	771.57		ft/msl	NONE Well Elevati	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 09:19	MDL.....:	

Waste Management, Inc.

Client Sample ID: 3406-MW10

General Chemistry

Lot-Sample #...: D8I120350-010 Work Order #...: KWTME Matrix.....: WATER
Date Sampled...: 09/11/08 08:34 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Depth to Water	33.65		ft	NONE Depth to Wat	09/11/08	8259361
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....:	
Field eH (Redox)	129.4		mV	NONE Field eH (Re	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....:	
Field pH	5.56	0.1	No Units	MCAWW 150.1	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....:	
Field Conductivity	132	1	umhos/cm	MCAWW 120.1	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....:	
Field Dissolved Oxygen	4.1	0.5	mg/L	MCAWW 360.1	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....: 0.01	
Field Temperature	17.0	--	deg C	MCAWW 170.1	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....:	
Field Turbidity	3.8		NTU	MCAWW 180.1	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....:	
Groundwater Elevation	743.55		ft/msl	NONE GW Elevation	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....:	
Well Elevation	777.20		ft/msl	NONE Well Elevati	09/11/08	8259365
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....:	

Waste Management, Inc.

Client Sample ID: 3406-MW11D

General Chemistry

Lot-Sample #...: D8I120350-012 Work Order #...: KWTMH Matrix.....: WATER
Date Sampled...: 09/11/08 08:40 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Depth to Water	30.22		ft	NONE Depth to Wat	09/11/08	8259361
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....:	
Field eH (Redox)	186		mV	NONE Field eH (Re	09/11/08	8259366
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....:	
Field pH	6.11	0.1	No Units	MCAWW 150.1	09/11/08	8259366
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....:	
Field Conductivity	72	1	umhos/cm	MCAWW 120.1	09/11/08	8259366
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....:	
Field Dissolved Oxygen	5.6	0.5	mg/L	MCAWW 360.1	09/11/08	8259366
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....: 0.01	
Field Temperature	16.5	--	deg C	MCAWW 170.1	09/11/08	8259366
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....:	
Field Turbidity	8.4		NTU	MCAWW 180.1	09/11/08	8259366
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....:	
Groundwater Elevation	746.14		ft/msl	NONE GW Elevation	09/11/08	8259366
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....:	
Well Elevation	776.36		ft/msl	NONE Well Elevati	09/11/08	8259366
		Dilution Factor: 1		Analysis Time..: 08:40	MDL.....:	

Waste Management, Inc.

Client Sample ID: 3406-MW12D

General Chemistry

Lot-Sample #...: D8I120350-014 Work Order #...: KWTMN Matrix.....: WATER
Date Sampled...: 09/11/08 12:29 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Depth to Water	6.88		ft	NONE Depth to Wat	09/11/08	8259361
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....:	
Field eH (Redox)	61.2		mV	NONE Field eH (Re	09/11/08	8259367
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....:	
Field pH	6.91	0.1	No Units	MCAWW 150.1	09/11/08	8259367
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....:	
Field Conductivity	239	1	umhos/cm	MCAWW 120.1	09/11/08	8259367
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....:	
Field Dissolved Oxygen	2.5	0.5	mg/L	MCAWW 360.1	09/11/08	8259367
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....: 0.01	
Field Temperature	18.6	--	deg C	MCAWW 170.1	09/11/08	8259367
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....:	
Field Turbidity	6.3		NTU	MCAWW 180.1	09/11/08	8259367
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....:	
Groundwater Elevation	744.60		ft/msl	NONE GW Elevation	09/11/08	8259367
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....:	
Well Elevation	751.48		ft/msl	NONE Well Elevati	09/11/08	8259367
		Dilution Factor: 1		Analysis Time..: 12:29	MDL.....:	

QC DATA ASSOCIATION SUMMARY

D8I120350

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	NONE Depth to Wat		8259361	
	WATER	NONE GW Elevation		8259359	
	WATER	NONE Well Elevati		8259359	
	WATER	NONE Field eH (Re		8259359	
	WATER	MCAWW 170.1		8259359	
	WATER	MCAWW 150.1		8259359	
	WATER	MCAWW 120.1		8259359	
	WATER	MCAWW 360.1		8259359	
	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259359	
002	WATER	NONE Depth to Wat		8259361	
	WATER	NONE GW Elevation		8259359	
	WATER	NONE Well Elevati		8259359	
	WATER	NONE Field eH (Re		8259359	
	WATER	MCAWW 170.1		8259359	
	WATER	MCAWW 150.1		8259359	
	WATER	MCAWW 120.1		8259359	
	WATER	MCAWW 360.1		8259359	
	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259359	
003	WATER	NONE Depth to Wat		8259361	
	WATER	NONE GW Elevation		8259359	
	WATER	NONE Well Elevati		8259362	
	WATER	NONE Field eH (Re		8259362	
	WATER	MCAWW 170.1		8259359	
	WATER	MCAWW 150.1		8259359	
	WATER	MCAWW 120.1		8259359	
	WATER	MCAWW 360.1		8259362	
	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259362	
004	WATER	NONE Depth to Wat		8259361	
	WATER	NONE GW Elevation		8259362	
	WATER	NONE Well Elevati		8259362	
	WATER	NONE Field eH (Re		8259362	

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QC DATA ASSOCIATION SUMMARY

D8I120350

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
007	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259364	
008	WATER	NONE Depth to Wat		8259361	
	WATER	NONE GW Elevation		8259364	
	WATER	NONE Well Elevati		8259365	
	WATER	NONE Field eH (Re		8259365	
	WATER	MCAWW 170.1		8259364	
	WATER	MCAWW 150.1		8259364	
	WATER	MCAWW 120.1		8259364	
	WATER	MCAWW 360.1		8259365	
	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259365	
009	WATER	NONE Depth to Wat		8259361	
	WATER	NONE GW Elevation		8259365	
	WATER	NONE Well Elevati		8259365	
	WATER	NONE Field eH (Re		8259365	
	WATER	MCAWW 170.1		8259365	
	WATER	MCAWW 150.1		8259365	
	WATER	MCAWW 120.1		8259365	
	WATER	MCAWW 360.1		8259365	
	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259365	
010	WATER	NONE Depth to Wat		8259361	
	WATER	NONE GW Elevation		8259365	
	WATER	NONE Well Elevati		8259365	
	WATER	NONE Field eH (Re		8259365	
	WATER	MCAWW 170.1		8259365	
	WATER	MCAWW 150.1		8259365	
	WATER	MCAWW 120.1		8259365	
	WATER	MCAWW 360.1		8259365	
	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259365	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

D8I120350

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
014	WATER	NONE Depth to Wat		8259361	
	WATER	NONE GW Elevation		8259367	
	WATER	NONE Well Elevati		8259367	
	WATER	NONE Field eH (Re		8259367	
	WATER	MCAWW 170.1		8259367	
	WATER	MCAWW 150.1		8259367	
	WATER	MCAWW 120.1		8259367	
	WATER	MCAWW 360.1		8259367	
	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259367	
015	WATER	NONE Field eH (Re		8259367	
	WATER	MCAWW 170.1		8259367	
	WATER	MCAWW 150.1		8259367	
	WATER	MCAWW 120.1		8259367	
	WATER	MCAWW 360.1		8259367	
	WATER	SW846 6020		8259279	8259188
	WATER	SW846 8260B		8263088	8263170
	WATER	SW846 6010B		8259278	8259186
	WATER	MCAWW 180.1		8259367	
016	WATER	SW846 8260B		8263088	8263170

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8I120350 Work Order #...: KW75W1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	50	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	5.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	100	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(79 - 119)
1,2-Dichloroethane-d4	103	(65 - 126)
4-Bromofluorobenzene	93	(75 - 115)
Toluene-d8	101	(78 - 118)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120350 Work Order #...: KW75W1AC Matrix.....: WATER
LCS Lot-Sample#: D8I190000-088
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263088 Analysis Time..: 06:54
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	5.00	5.08	ug/L	102	SW846 8260B
Benzene	5.00	4.86	ug/L	97	SW846 8260B
Chlorobenzene	5.00	4.72	ug/L	94	SW846 8260B
Toluene	5.00	4.98	ug/L	100	SW846 8260B
Trichloroethene	5.00	5.21	ug/L	104	SW846 8260B
Chloroform	5.00	4.99	ug/L	100	SW846 8260B
1,1-Dichloroethane	5.00	5.07	ug/L	101	SW846 8260B
1,2-Dichloropropane	5.00	4.78	ug/L	96	SW846 8260B
Ethylbenzene	5.00	4.56	ug/L	91	SW846 8260B
Methylene chloride	5.00	5.11	ug/L	102	SW846 8260B
Tetrachloroethene	5.00	4.78	ug/L	96	SW846 8260B
1,1,1-Trichloroethane	5.00	4.87	ug/L	97	SW846 8260B
Carbon tetrachloride	5.00	4.74	ug/L	95	SW846 8260B
trans-1,2-Dichloroethene	5.00	5.27	ug/L	105	SW846 8260B
Bromodichloromethane	5.00	4.55	ug/L	91	SW846 8260B
1,3-Dichlorobenzene	5.00	4.78	ug/L	96	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(79 - 119)
1,2-Dichloroethane-d4	101	(65 - 126)
4-Bromofluorobenzene	97	(75 - 115)
Toluene-d8	101	(78 - 118)

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 Volatiles

Client Lot #...: D8I120350 **Work Order #...:** KWTLV1CP-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I120350-001 KWTLV1CQ-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	96	(75 - 115)
	96	(75 - 115)
Toluene-d8	100	(78 - 118)
	100	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120350 **Work Order #...:** KWTLV1CP-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I120350-001 KWTLV1CQ-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	96	(75 - 115)
	96	(75 - 115)
Toluene-d8	100	(78 - 118)
	100	(78 - 118)

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 Volatiles

Client Lot #...: D8I120350 **Work Order #...:** KWTMD1A6-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I120350-009 KWTMD1A7-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	97	(75 - 115)
	97	(75 - 115)
Toluene-d8	98	(78 - 118)
	98	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120350 **Work Order #...:** KWTMD1A6-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I120350-009 KWTMD1A7-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	97	(75 - 115)
	97	(75 - 115)
Toluene-d8	98	(78 - 118)
	98	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8I120350 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	ND	6.0	ug/L	SW846 6020	09/16/08	KWWVK1AD
		Dilution Factor: 1				
		Analysis Time..: 18:59				
Thallium	ND	5.5	ug/L	SW846 6020	09/16/08	KWWVK1AE
		Dilution Factor: 1				
		Analysis Time..: 18:59				
Copper	ND	10	ug/L	SW846 6020	09/16/08	KWWVK1AF
		Dilution Factor: 1				
		Analysis Time..: 18:59				
Selenium	ND	10	ug/L	SW846 6020	09/16/08	KWWVK1AG
		Dilution Factor: 1				
		Analysis Time..: 18:59				
Zinc	ND	10	ug/L	SW846 6020	09/16/08	KWWVK1AH
		Dilution Factor: 1				
		Analysis Time..: 18:59				

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: D8I120350 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	ND	1.0	ug/L	SW846 6020	09/17-09/19/08	KWX191AD
		Dilution Factor: 1				
		Analysis Time..: 07:58				
Thallium	ND	5.5	ug/L	SW846 6020	09/17-09/19/08	KWX191AE
		Dilution Factor: 1				
		Analysis Time..: 07:58				
Copper	ND	10	ug/L	SW846 6020	09/17-09/19/08	KWX191AF
		Dilution Factor: 1				
		Analysis Time..: 07:58				
Selenium	ND	10	ug/L	SW846 6020	09/17-09/19/08	KWX191AG
		Dilution Factor: 1				
		Analysis Time..: 07:58				
Zinc	ND	10	ug/L	SW846 6020	09/17-09/19/08	KWX191AH
		Dilution Factor: 1				
		Analysis Time..: 07:58				

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

TOTAL Metals

Client Lot #...: D8I120350 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	99	(77 - 122)	SW846 6020	09/16/08	KWWVK1AP
		Dilution Factor: 1	Analysis Time..: 19:03		
Zinc	106	(83 - 122)	SW846 6020	09/16/08	KWWVK1AQ
		Dilution Factor: 1	Analysis Time..: 19:03		

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120350 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	40.0	39.8	ug/L	99	SW846 6020	09/16/08	KWWVK1AP
			Dilution Factor: 1		Analysis Time..: 19:03		
Zinc	40.0	42.5	ug/L	106	SW846 6020	09/16/08	KWWVK1AQ
			Dilution Factor: 1		Analysis Time..: 19:03		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D8I120350 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	111	(77 - 122)	SW846 6020	09/17-09/19/08	KWX191AP
		Dilution Factor: 1	Analysis Time..: 08:03		
Zinc	101	(83 - 122)	SW846 6020	09/17-09/19/08	KWX191AQ
		Dilution Factor: 1	Analysis Time..: 08:03		

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D8I120350 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	40.0	44.3	ug/L	111	SW846 6020	09/17-09/19/08	KWX191AP
			Dilution Factor: 1		Analysis Time..: 08:03		
Zinc	40.0	40.6	ug/L	101	SW846 6020	09/17-09/19/08	KWX191AQ
			Dilution Factor: 1		Analysis Time..: 08:03		

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120350 **Matrix.....:** WATER
Date Sampled...: 09/11/08 11:42 **Date Received..:** 09/12/08

MS Lot-Sample #: D8I120350-001 **Prep Batch #...:** 8259278

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium									
	65	2000	2080	ug/L	101		SW846 6010B	09/16/08	KWTLV1AV
	65	2000	2020	ug/L	98	3.2	SW846 6010B	09/16/08	KWTLV1AW
			Dilution Factor: 1						
			Analysis Time..: 22:21						
Vanadium									
	1.8	500	511	ug/L	102		SW846 6010B	09/16/08	KWTLV1AX
	1.8	500	500	ug/L	100	2.1	SW846 6010B	09/16/08	KWTLV1A0
			Dilution Factor: 1						
			Analysis Time..: 22:21						
Beryllium									
	ND	50.0	51.7	ug/L	103		SW846 6010B	09/16/08	KWTLV1A1
	ND	50.0	50.1	ug/L	100	3.1	SW846 6010B	09/16/08	KWTLV1A2
			Dilution Factor: 1						
			Analysis Time..: 22:21						
Silver									
	2.0	50.0	50.3	ug/L	96		SW846 6010B	09/16/08	KWTLV1A3
	2.0	50.0	49.4	ug/L	95	1.8	SW846 6010B	09/16/08	KWTLV1A4
			Dilution Factor: 1						
			Analysis Time..: 22:21						
Cobalt									
	ND	500	491	ug/L	98		SW846 6010B	09/16/08	KWTLV1A5
	ND	500	480	ug/L	96	2.3	SW846 6010B	09/16/08	KWTLV1A6
			Dilution Factor: 1						
			Analysis Time..: 22:21						
Chromium									
	2.7	200	205	ug/L	101		SW846 6010B	09/16/08	KWTLV1A7
	2.7	200	200	ug/L	98	2.5	SW846 6010B	09/16/08	KWTLV1A8
			Dilution Factor: 1						
			Analysis Time..: 22:21						
Lead									
	2.7	500	503	ug/L	100		SW846 6010B	09/16/08	KWTLV1A9
	2.7	500	492	ug/L	98	2.2	SW846 6010B	09/16/08	KWTLV1CA
			Dilution Factor: 1						
			Analysis Time..: 22:21						

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8I120350 **Matrix.....:** WATER
Date Sampled...: 09/11/08 07:45 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120350-011 **Prep Batch #...:** 8259278							
Barium	100	(85 - 120)			SW846 6010B	09/16/08	KWTMF1AV
	101	(85 - 120)	0.41	(0-25)	SW846 6010B	09/16/08	KWTMF1AW
		Dilution Factor: 1					
		Analysis Time..: 23:24					
Vanadium	100	(85 - 120)			SW846 6010B	09/16/08	KWTMF1AX
	101	(85 - 120)	1.3	(0-25)	SW846 6010B	09/16/08	KWTMF1A0
		Dilution Factor: 1					
		Analysis Time..: 23:24					
Beryllium	101	(79 - 121)			SW846 6010B	09/16/08	KWTMF1A1
	102	(79 - 121)	0.54	(0-25)	SW846 6010B	09/16/08	KWTMF1A2
		Dilution Factor: 1					
		Analysis Time..: 23:24					
Silver	97	(75 - 141)			SW846 6010B	09/16/08	KWTMF1A3
	100	(75 - 141)	2.6	(0-25)	SW846 6010B	09/16/08	KWTMF1A4
		Dilution Factor: 1					
		Analysis Time..: 23:24					
Cobalt	97	(82 - 119)			SW846 6010B	09/16/08	KWTMF1A5
	101	(82 - 119)	3.8	(0-25)	SW846 6010B	09/16/08	KWTMF1A6
		Dilution Factor: 1					
		Analysis Time..: 23:24					
Chromium	100	(73 - 135)			SW846 6010B	09/16/08	KWTMF1A7
	104	(73 - 135)	3.8	(0-25)	SW846 6010B	09/16/08	KWTMF1A8
		Dilution Factor: 1					
		Analysis Time..: 23:24					
Lead	99	(89 - 121)			SW846 6010B	09/16/08	KWTMF1A9
	103	(89 - 121)	3.6	(0-25)	SW846 6010B	09/16/08	KWTMF1CA
		Dilution Factor: 1					
		Analysis Time..: 23:24					
Nickel	97	(84 - 120)			SW846 6010B	09/16/08	KWTMF1CC
	101	(84 - 120)	3.9	(0-25)	SW846 6010B	09/16/08	KWTMF1CD
		Dilution Factor: 1					
		Analysis Time..: 23:24					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120350 **Matrix.....:** WATER
Date Sampled...: 09/11/08 07:45 **Date Received..:** 09/12/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	ND	500	486	ug/L	97		SW846 6010B	09/16/08	KWTMF1CC
	ND	500	505	ug/L	101	3.9	SW846 6010B	09/16/08	KWTMF1CD

Dilution Factor: 1
Analysis Time..: 23:24

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120350 **Matrix.....:** WATER
Date Sampled...: 09/11/08 07:53 **Date Received..:** 09/12/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120350-002 **Prep Batch #...:** 8259279									
Arsenic									
	0.35	40.0	42.9	ug/L	106		SW846 6020	09/16/08	KWTL01AV
	0.35	40.0	41.7	ug/L	103	2.9	SW846 6020	09/16/08	KWTL01AW
			Dilution Factor: 1						
			Analysis Time..: 19:21						
Cadmium									
	ND	40.0	43.6	ug/L	109		SW846 6020	09/16/08	KWTL01AX
	ND	40.0	43.5	ug/L	109	0.07	SW846 6020	09/16/08	KWTL01A0
			Dilution Factor: 1						
			Analysis Time..: 19:21						
Antimony									
	ND	40.0	43.2	ug/L	108		SW846 6020	09/16/08	KWTL01A1
	ND	40.0	42.5	ug/L	106	1.7	SW846 6020	09/16/08	KWTL01A2
			Dilution Factor: 1						
			Analysis Time..: 19:21						
Thallium									
	ND	40.0	44.0	ug/L	110		SW846 6020	09/16/08	KWTL01A3
	ND	40.0	43.1	ug/L	108	1.9	SW846 6020	09/16/08	KWTL01A4
			Dilution Factor: 1						
			Analysis Time..: 19:21						
Copper									
	ND	40.0	44.0	ug/L	109		SW846 6020	09/16/08	KWTL01A5
	ND	40.0	41.4	ug/L	103	5.9	SW846 6020	09/16/08	KWTL01A6
			Dilution Factor: 1						
			Analysis Time..: 19:21						
Selenium									
	ND	40.0	41.3	ug/L	102		SW846 6020	09/16/08	KWTL01A7
	ND	40.0	41.4	ug/L	102	0.15	SW846 6020	09/16/08	KWTL01A8
			Dilution Factor: 1						
			Analysis Time..: 19:21						
Zinc									
	10	40.0	53.6	ug/L	108		SW846 6020	09/16/08	KWTL01A9
	10	40.0	51.5	ug/L	103	4.0	SW846 6020	09/16/08	KWTL01CA
			Dilution Factor: 1						
			Analysis Time..: 19:21						

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120350 **Matrix.....:** WATER
Date Sampled...: 09/11/08 08:40 **Date Received..:** 09/12/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120350-012 **Prep Batch #...:** 8259279									
Arsenic									
	ND	40.0	43.0	ug/L	107		SW846 6020	09/16/08	KWTMH1AV
	ND	40.0	40.9	ug/L	102	4.8	SW846 6020	09/16/08	KWTMH1AW
			Dilution Factor: 1						
			Analysis Time..: 20:22						
Cadmium									
	ND	40.0	44.2	ug/L	111		SW846 6020	09/16/08	KWTMH1AX
	ND	40.0	43.3	ug/L	108	2.2	SW846 6020	09/16/08	KWTMH1A0
			Dilution Factor: 1						
			Analysis Time..: 20:22						
Antimony									
	ND	40.0	41.7	ug/L	104		SW846 6020	09/16/08	KWTMH1A1
	ND	40.0	40.5	ug/L	101	2.8	SW846 6020	09/16/08	KWTMH1A2
			Dilution Factor: 1						
			Analysis Time..: 20:22						
Thallium									
	ND	40.0	43.2	ug/L	108		SW846 6020	09/16/08	KWTMH1A3
	ND	40.0	41.9	ug/L	105	3.1	SW846 6020	09/16/08	KWTMH1A4
			Dilution Factor: 1						
			Analysis Time..: 20:22						
Copper									
	9.4	40.0	52.9	ug/L	109		SW846 6020	09/16/08	KWTMH1A5
	9.4	40.0	50.9	ug/L	104	4.0	SW846 6020	09/16/08	KWTMH1A6
			Dilution Factor: 1						
			Analysis Time..: 20:22						
Selenium									
	ND	40.0	40.9	ug/L	102		SW846 6020	09/16/08	KWTMH1A7
	ND	40.0	41.1	ug/L	103	0.59	SW846 6020	09/16/08	KWTMH1A8
			Dilution Factor: 1						
			Analysis Time..: 20:22						
Zinc									
	9.9	40.0	52.7	ug/L	107		SW846 6020	09/16/08	KWTMH1A9
	9.9	40.0	51.6	ug/L	104	2.1	SW846 6020	09/16/08	KWTMH1CA
			Dilution Factor: 1						
			Analysis Time..: 20:22						

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D8I120350 **Matrix.....:** WATER
Date Sampled...: 09/11/08 10:10 **Date Received..:** 09/12/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120221-002 **Prep Batch #...:** 8259212									
Barium									
	75	2000	2080	ug/L	100		SW846 6010B	09/16/08	KWRE81D0
	75	2000	2080	ug/L	100	0.24	SW846 6010B	09/16/08	KWRE81D1
			Dilution Factor: 1						
			Analysis Time..: 21:27						
Chromium									
	18	200	216	ug/L	99		SW846 6010B	09/16/08	KWRE81D4
	18	200	219	ug/L	100	1.3	SW846 6010B	09/16/08	KWRE81D5
			Dilution Factor: 1						
			Analysis Time..: 21:27						
Nickel									
	ND	500	478	ug/L	96		SW846 6010B	09/16/08	KWRE81DM
	ND	500	484	ug/L	97	1.3	SW846 6010B	09/16/08	KWRE81DN
			Dilution Factor: 1						
			Analysis Time..: 21:27						
Lead									
	ND	500	495	ug/L	99		SW846 6010B	09/16/08	KWRE81D6
	ND	500	501	ug/L	100	1.3	SW846 6010B	09/16/08	KWRE81D7
			Dilution Factor: 1						
			Analysis Time..: 21:27						
Vanadium									
	22	500	524	ug/L	100		SW846 6010B	09/16/08	KWRE81DP
	22	500	532	ug/L	102	1.4	SW846 6010B	09/16/08	KWRE81DQ
			Dilution Factor: 1						
			Analysis Time..: 21:27						
Silver									
	ND	50.0	49.4	ug/L	97		SW846 6010B	09/16/08	KWRE81EA
	ND	50.0	49.8	ug/L	98	0.72	SW846 6010B	09/16/08	KWRE81EC
			Dilution Factor: 1						
			Analysis Time..: 21:27						
Cobalt									
	ND	500	480	ug/L	96		SW846 6010B	09/16/08	KWRE81DK
	ND	500	486	ug/L	97	1.4	SW846 6010B	09/16/08	KWRE81DL
			Dilution Factor: 1						
			Analysis Time..: 21:27						

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D8I120350 Matrix.....: WATER
Date Sampled...: 09/11/08 12:20 Date Received..: 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120350-013 **Prep Batch #...:** 8260232							
Antimony	102	(85 - 115)			SW846 6020	09/17-09/19/08	KWTMJ1CN
	103	(85 - 115)	0.85	(0-20)	SW846 6020	09/17-09/19/08	KWTMJ1CP
		Dilution Factor: 1					
		Analysis Time..: 08:57					
Arsenic	105	(85 - 117)			SW846 6020	09/17-09/19/08	KWTMJ1CQ
	107	(85 - 117)	2.0	(0-20)	SW846 6020	09/17-09/19/08	KWTMJ1CR
		Dilution Factor: 1					
		Analysis Time..: 08:57					
Cadmium	101	(85 - 115)			SW846 6020	09/17-09/19/08	KWTMJ1CT
	100	(85 - 115)	0.19	(0-20)	SW846 6020	09/17-09/19/08	KWTMJ1CU
		Dilution Factor: 1					
		Analysis Time..: 08:57					
Thallium	100	(85 - 118)			SW846 6020	09/17-09/19/08	KWTMJ1CV
	100	(85 - 118)	0.32	(0-20)	SW846 6020	09/17-09/19/08	KWTMJ1CW
		Dilution Factor: 1					
		Analysis Time..: 08:57					
Copper	96	(85 - 119)			SW846 6020	09/17-09/19/08	KWTMJ1CX
	97	(85 - 119)	0.55	(0-20)	SW846 6020	09/17-09/19/08	KWTMJ1C0
		Dilution Factor: 1					
		Analysis Time..: 08:57					
Selenium	109	(77 - 122)			SW846 6020	09/17-09/19/08	KWTMJ1C1
	112	(77 - 122)	2.6	(0-20)	SW846 6020	09/17-09/19/08	KWTMJ1C2
		Dilution Factor: 1					
		Analysis Time..: 08:57					
Zinc	100	(83 - 122)			SW846 6020	09/17-09/19/08	KWTMJ1C3
	100	(83 - 122)	0.57	(0-20)	SW846 6020	09/17-09/19/08	KWTMJ1C4
		Dilution Factor: 1					
		Analysis Time..: 08:57					

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

Metals

Client Lot #...: D8I120350 Work Order #...: KWTMJ-SMP KWTMJ-DUP Matrix.....: WATER

Date Sampled...: 09/11/08 12:20 Date Received..: 09/12/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Antimony						SD Lot-Sample #: D8I120350-013		
	ND	0.076 B	ug/L	40	(0-20)	SW846 6020	09/17-09/19/08	8260232
		Dilution Factor: 1				Analysis Time..: 08:32		
Arsenic						SD Lot-Sample #: D8I120350-013		
	ND	ND	ug/L	30	(0-20)	SW846 6020	09/17-09/19/08	8260232
		Dilution Factor: 1				Analysis Time..: 08:32		
Cadmium						SD Lot-Sample #: D8I120350-013		
	ND	ND	ug/L	92	(0-20)	SW846 6020	09/17-09/19/08	8260232
		Dilution Factor: 1				Analysis Time..: 08:32		
Thallium						SD Lot-Sample #: D8I120350-013		
	ND	ND	ug/L	153	(0-20)	SW846 6020	09/17-09/19/08	8260232
		Dilution Factor: 1				Analysis Time..: 08:32		
Copper						SD Lot-Sample #: D8I120350-013		
	0.97 B	1.0 B	ug/L	5.4	(0-20)	SW846 6020	09/17-09/19/08	8260232
		Dilution Factor: 1				Analysis Time..: 08:32		
Selenium						SD Lot-Sample #: D8I120350-013		
	ND	ND	ug/L	200	(0-20)	SW846 6020	09/17-09/19/08	8260232
		Dilution Factor: 1				Analysis Time..: 08:32		
Zinc						SD Lot-Sample #: D8I120350-013		
	3.3 B	3.1 B	ug/L	6.0	(0-20)	SW846 6020	09/17-09/19/08	8260232
		Dilution Factor: 1				Analysis Time..: 08:32		

NOTE(S):

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

B Estimated result. Result is less than RL.

Chain of Custody Record

TAL-4124-280 (1007)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

141

Client	WM
Address	
City	
State	NC
Zip Code	
Project Name and Location (State)	PIEDMONT SITE 134
Contract/Purchase Order/Quote No.	267744-A/C
Project Manager	AL LACOSAMANA
Telephone Number (Area Code)/Fax Number	
Site Contact	
Lab Contact	
Carrier/Waybill Number	
Date	9-11-08
Chain of Custody Number	103835
Lab Number	
Page	2 of 2

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis: Total Metals	VOAs	(*) DISS. METALS	Special Instructions/ Conditions of Receipt
MW12	9-11	1220								2	3				1	3	1	(*) DISS. METALS
MW12D	9-11	1229								1	3				1	3		FOR MW12
OIFB	9-11	1430								1	3				1	3		ONLY.
TRIP	9-11	—									X					X		

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	9-11-08	1800	1. Received By	9/12/08	1000
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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW02 (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: 002

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
091108	0735	0018	08	14	17

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

PURGE/SAMPLE EQUIPMENT

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

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

Sampling Device: C

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 77804 (ft/msl)

Depth to Water (DTW) (from TOC): 30.51 (ft)

Groundwater Elevation (site datum, from TOC): 747.53 (ft/msl)

Total Well Depth (from TOC): 35.50 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

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 gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0745	08 1st	5.09 1st	118 1st	17.3	34	25	167	
0747	08 2nd	5.07 2nd	115 2nd	16.8	32	25	172	
0749	08 3rd	5.06 3rd	110 3rd	16.4	32	24	174	
0751	08 4th	5.06 4th	109 4th	16.1	30	23	165	30.5
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
091108	5.06	109	16.1	30	23	165	

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: CLEAR Odor: NONE Color: NONE Other: NO SHEEN

Weather Conditions (required daily, or as conditions change): Direction/Speed: E/0-5 Outlook: CLOUDY, 65°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 35.50 - 30.51 = 4.99 x 0.163 = 0.81 GAL.
FLOW: 190 x 4 = 760 ÷ 60 = 12.67 MIN/GAL = 0.08 gpm.
VOL.: 18.00 ÷ 12.67 = 1.42 GAL.

SAMPLE TIME: 0753

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
09/11/08	BEN RAMSEAWAN	Ben Ramseawan	PRO-TECH

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

STL-8029WM R: 12/00

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW04 (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: 004

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
091108	1245	18	2.0	13	06

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

Sampling Device: C

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

X-Other:

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

WELL DATA

Well Elevation (at TOC): 75692 (ft/msl)

Depth to Water (DTW) (from TOC): 1489 (ft)

Groundwater Elevation (site datum, from TOC): 74203 (ft/msl)

Total Well Depth (from TOC): 2700 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

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 gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1254	0.07 1st	5.26 1st	76	17.5	28	0.7	1420	
1256	0.07 2nd	5.24 2nd	75	17.4	17	0.6	1337	
1258	0.07 3rd	5.24 3rd	75	17.4	18	0.6	1353	
1310	0.07 4th	5.23 4th	75	17.4	12	0.6	1377	
1312	0.07	5.22	76	14.7	14	0.6	1400	14.9
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 ____
091108	5.22	76	14.7	14	0.6	1400	

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: CLEAR Odor: NONE Color: NONE Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: cloudy 75°F Precipitation: (Y) or N

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

FIELD COMMENTS

CALC: 27.00 - 14.89 = 12.11 X 0.163 = 1.97 gallons

FLOW: 0.07 gpm

ACTUAL: 18 min X 0.07 = 1.26 gallons

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
9/11/08	Dan Armour	[signature]	Pro-Tech
__/__/__			

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

STL-8029WM R: 12/00

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW05 (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: 006

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
091108	1355	0020	23	16	07

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

PURGE/SAMPLE EQUIPMENT

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

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

Sampling Device: C

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 747.17 (ft/msl)

Depth to Water (DTW) (from TOC): 6.25 (ft)

Groundwater Elevation (site datum, from TOC): 740.92 (ft/msl)

Total Well Depth (from TOC): 20.50 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1408	0.8 1st	5.65 1st	249 1st	15.9	5.6	0.9	259	
1410	0.8 2nd	5.63 2nd	249 2nd	15.8	5.3	0.9	263	
1412	0.8 3rd	5.61 3rd	250 3rd	15.8	5.0	0.8	268	
1414	0.8 4th	5.61 4th	252 4th	15.8	4.7	0.7	273	6.8
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
091108	5.61	252 ~~250~~	15.8	4.7	0.7	273	

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: CLEAR Odor: NONE Color: NONE Other: NO SHEEN

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY 70°F Precipitation: Y or N

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

CALC: 20.50 - 6.25 = 14.25 x 0.163 = 2.32 GAL.
FLOW: 190 x 4 = 760 ÷ 60 = 12.67 ML/GAL = 0.08 gpm
VOL: 20.0 ÷ 12.67 = 1.58 GAL.

SAMPLE TIME: 1415

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
09/11/08	BEN RAMGEAWAN	Ben Ramgeawan	PRO-TECH

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

STL-8029WM R. 12/00

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW07 (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: 008

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
091108	0900	:19	06	11	19

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

PURGE/SAMPLE EQUIPMENT

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

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

Sampling Device: C

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 77157 (ft/msl)

Depth to Water (DTW) (from TOC): 2764 (ft)

Groundwater Elevation (site datum, from TOC): 74393 (ft/msl)

Total Well Depth (from TOC): 3130 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

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 gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0912	0.06 1st	5.55 1st	146 1st	16.7	32	5.1	137.8	
0914	0.06 2nd	5.54 2nd	146 2nd	16.7	30	5.1	139.3	
0916	0.06 3rd	5.53 3rd	146 3rd	16.7	31	5.1	140.6	
0918	0.06 4th	5.53 4th	147 4th	16.7	30	5.1	142.2	27.9
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
091108	5.53	147	16.7	30	5.1	142.2	

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: CLEAR Odor: None Color: None Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: cloudy Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 31.30 - 27.64 = 3.66 x 0.163 = 0.60 gallons

FLOW: 0.06 gpm

ACTUAL: 19 min x 0.06 = 1.14 gallons

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
9/11/08	Dan Armour	[signature]	Pro-Tech

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

STL-8029WM R: 12/00

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW10 (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: 010

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
091108	0819	1:15	07	14	19

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

Sampling Device: C

X-Other:

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

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

WELL DATA

Well Elevation (at TOC): 7772.0 (ft/msl)

Depth to Water (DTW) (from TOC): 33.65 (ft)

Groundwater Elevation (site datum, from TOC): 743.55 (ft/msl)

Total Well Depth (from TOC): 38.00 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

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 gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0825	0.09 1st	5.52 1st	132 1st	17.0	4.5	4.2	1239	
0827	0.09 2nd	5.54 2nd	132 2nd	17.0	4.2	4.2	1252	
0829	0.09 3rd	5.55 3rd	132 3rd	17.0	4.1	4.2	1274	
0831	0.09 4th	5.56 4th	132 4th	17.0	3.9	4.1	1287	
0833	0.09	5.56	132	17.0	3.8	4.1	1294	34.6
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
091108	5.56	132	17.0	3.8	4.1	1294	

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: CLEAR Odor: None Color: None Other: No sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: cloudy 70°F Precipitation: Y or N

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

FIELD COMMENTS

CALC: 38.00 - 33.65 = 4.35 x 0.163 = 0.71 gallons

FLOW: 0.09 gpm

ACTUAL: 15 min x 0.09 = 1.35 gallons

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
9/11/08	Dan Armour	[signature]	Pro-Tech

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW11D (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: 012

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
091108	0820	0020	103	13	01

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

Sampling Device: C

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

X-Other:

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

WELL DATA

Well Elevation (at TOC): 7636 (ft/msl)

Depth to Water (DTW) (from TOC): 3022 (ft)

Groundwater Elevation (site datum, from TOC): 7461.4 (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

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 gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0830	0.6 1st	5.72 1st	78	15.5	93	5.5	180	
0832	0.6 2nd	6.01 2nd	73	16.4	90	5.5	180	
0834	0.6 3rd	6.07 3rd	73	16.4	85	5.6	181	
0836	0.6 4th	6.08 4th	72	16.4	84	5.6	185	
0838	0.6	6.11	72	16.5	84	5.6	186	31.7
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 ____
091108	6.11	72	16.5	84	5.6	186	

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: CLEAR Odor: NONE Color: NONE Other: NO SHEEN

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY 65°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 93.50 - 30.22 = 63.28 x 0.163 = 10.31 GAL;
PLAN: 240 x 4 = 960 ÷ 60 = 16.00 MIN/GAL = 0.06 gpm
VOL: 20.00 ÷ 16.00 = 1.25 GAL;

SAMPLE TIME: 0840

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
09/11/08	BEN RAMSEYER	Ben Ramseyer	PRO-TECH

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

MW12 (CON'T)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW12 (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: 013 (continued)

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
091108					

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)
16:38	3.5 L/min 1st	6.02 1st	121 1st	15.6	618	12	150	
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
(*) 1220		605	128	16.2	193	09	917	
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 ____
091108	605	128	162	193	09	917	

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: SLT. CLOUDY (*) Odor: NONE (*) Color: LT. TAN Other: NO SHEEN

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: Cloudy 75°F Precipitation: Y or (N)

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

FIELD COMMENTS

(*) PARAMETERS MEASURED @ SAMPLE TIME ON 9-11-08 @ 1220

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
9/11/08	DAN ARMOUR	[signature]	PRO-TECH

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: 01FB (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: ~~011~~ 015

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
091108	—	—	—	—	—

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

X-Other: Sample Bottles

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

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)
1430	NA 1st	7.41 1st	5 1st	19.9	0.1	2.2	890	
:	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 ____
091108	7.41	5	19.9	0.1	2.2	890	

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: CLEAR Odor: None Color: None Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5 Outlook: Cloud, 75°F Precipitation: Y or N

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

FIELD COMMENTS

FIELD BLANK COMPLETED USING D.I. WATER PROVIDED BY TEST AMERICA LABS.

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
9/11/08	DAN ARMOUR	[signature]	PRO-TECH

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

STL-8029WM_R-12/00

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project No. Site 134

Piedmont Landfill

Lot #: D8I120232

Groundwater

Al Lacsamana

Waste Management Inc.
Southern Area
1000 Parkwood Circle
Suite 700
Atlanta, GA 30339

Cc: Van Burbach

TestAmerica Denver
North Carolina Certification # 358

Betsy Sara
Project Manager

September 24, 2008

RECEIVED SEP 25 2008

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EXECUTIVE SUMMARY - Detection Highlights

D8I120232

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
3406-MW01 09/11/08 11:42 001				
Turbidity	1.8	0.10	NTU	MCAWW 180.1
Chloride	3.3	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	66	10	mg/L	SM18 2540 C
Total Alkalinity	33	5.0	mg/L	SM18 2320 B
Ammonia as N	0.057	0.040	mg/L	MCAWW 350.1
3406-MW02 09/11/08 07:53 002				
Turbidity	0.25	0.10	NTU	MCAWW 180.1
Chloride	4.2	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	110	10	mg/L	SM18 2540 C
Total Alkalinity	59	5.0	mg/L	SM18 2320 B
Ammonia as N	0.038 B	0.040	mg/L	MCAWW 350.1
3406-MW03 09/11/08 10:17 003				
Turbidity	0.84	0.10	NTU	MCAWW 180.1
Chloride	5.5	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	130	10	mg/L	SM18 2540 C
Total Alkalinity	32	5.0	mg/L	SM18 2320 B
Ammonia as N	0.060	0.040	mg/L	MCAWW 350.1
3406-MW04 09/11/08 13:03 004				
Turbidity	0.96	0.10	NTU	MCAWW 180.1
Chloride	3.5	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	87	10	mg/L	SM18 2540 C
Total Alkalinity	56	5.0	mg/L	SM18 2320 B
Ammonia as N	0.038 B	0.040	mg/L	MCAWW 350.1
3406-MW04D 09/11/08 13:08 005				
Turbidity	49 Q	0.40	NTU	MCAWW 180.1
Chloride	2.8	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	100	10	mg/L	SM18 2540 C
Total Alkalinity	36	5.0	mg/L	SM18 2320 B
Ammonia as N	0.12	0.040	mg/L	MCAWW 350.1

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D8I120232

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
3406-MW11 09/11/08 07:45 011				
Turbidity	1.2	0.10	NTU	MCAWW 180.1
Chloride	2.6	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	100	10	mg/L	SM18 2540 C
Total Alkalinity	80	5.0	mg/L	SM18 2320 B
Ammonia as N	0.060	0.040	mg/L	MCAWW 350.1
3406-MW11D 09/11/08 08:40 012				
Turbidity	18	0.10	NTU	MCAWW 180.1
Chloride	1.7	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	83	10	mg/L	SM18 2540 C
Total Alkalinity	39	5.0	mg/L	SM18 2320 B
Ammonia as N	0.050	0.040	mg/L	MCAWW 350.1
3406-MW12 09/11/08 12:20 013				
Turbidity	10	0.10	NTU	MCAWW 180.1
Chloride	3.6	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	110	10	mg/L	SM18 2540 C
Total Alkalinity	48	5.0	mg/L	SM18 2320 B
Ammonia as N	0.041	0.040	mg/L	MCAWW 350.1
3406-MW12D 09/11/08 12:29 014				
Turbidity	13	0.10	NTU	MCAWW 180.1
Chloride	2.3	0.30	mg/L	MCAWW 300.0A
Total Dissolved Solids	150	10	mg/L	SM18 2540 C
Total Alkalinity	83	5.0	mg/L	SM18 2320 B
Ammonia as N	0.045	0.040	mg/L	MCAWW 350.1

ANALYTICAL METHODS SUMMARY

D8I120232

PARAMETER	ANALYTICAL METHOD
Alkalinity, Total	SM18 2320 B
Chloride	MCAWW 300.0A
Nitrogen, Ammonia	MCAWW 350.1
Total Dissolved Solids	SM18 2540 C
Turbidity (Nephelometric)	MCAWW 180.1

References:

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

D8I120232

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KWRH0	001	3406-MW01	09/11/08	11:42
KWRH2	002	3406-MW02	09/11/08	07:53
KWRH3	003	3406-MW03	09/11/08	10:17
KWRH4	004	3406-MW04	09/11/08	13:03
KWRH6	005	3406-MW04D	09/11/08	13:08
KWRH7	006	3406-MW05	09/11/08	14:15
KWRH9	007	3406-MW06	09/11/08	11:39
KWRJC	008	3406-MW07	09/11/08	09:19
KWRJD	009	3406-MW08	09/11/08	13:37
KWRJF	010	3406-MW10	09/11/08	08:34
KWRJG	011	3406-MW11	09/11/08	07:45
KWRJH	012	3406-MW11D	09/11/08	08:40
KWRJL	013	3406-MW12	09/11/08	12:20
KWRJM	014	3406-MW12D	09/11/08	12:29

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: 3406-MW02

General Chemistry

Lot-Sample #...: D8I120232-002 Work Order #...: KWRH2 Matrix.....: WATER
Date Sampled...: 09/11/08 07:53 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.038 B	0.040	mg/L	MCAWW 350.1	09/19/08	8264123
		Dilution Factor: 1		Analysis Time..: 12:45	MDL.....: 0.022	
Chloride	4.2	0.30	mg/L	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1		Analysis Time..: 13:08	MDL.....: 0.25	
Total Alkalinity	59	5.0	mg/L	SM18 2320 B	09/15/08	8260149
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Total Dissolved Solids	110	10	mg/L	SM18 2540 C	09/15/08	8259477
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 4.7	
Turbidity	0.25	0.10	NTU	MCAWW 180.1	09/12/08	8256504
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 0.020	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW04

General Chemistry

Lot-Sample #...: D8I120232-004 Work Order #...: KWRH4 Matrix.....: WATER
Date Sampled...: 09/11/08 13:03 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.038 B	0.040	mg/L	MCAWW 350.1	09/19/08	8264123
		Dilution Factor: 1		Analysis Time..: 12:45	MDL.....: 0.022	
Chloride	3.5	0.30	mg/L	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1		Analysis Time..: 14:15	MDL.....: 0.25	
Total Alkalinity	56	5.0	mg/L	SM18 2320 B	09/15/08	8260149
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Total Dissolved Solids	87	10	mg/L	SM18 2540 C	09/15/08	8259477
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 4.7	
Turbidity	0.96	0.10	NTU	MCAWW 180.1	09/12/08	8256504
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 0.020	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Waste Management, Inc.

Client Sample ID: 3406-MW05

General Chemistry

Lot-Sample #...: D8I120232-006 Work Order #...: KWRH7 Matrix.....: WATER
Date Sampled...: 09/11/08 14:15 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.045	0.040	mg/L	MCAWW 350.1	09/19/08	8264123
		Dilution Factor: 1		Analysis Time..: 12:45	MDL.....: 0.022	
Chloride	6.5	0.30	mg/L	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1		Analysis Time..: 14:48	MDL.....: 0.25	
Total Alkalinity	140	5.0	mg/L	SM18 2320 B	09/15/08	8260149
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Total Dissolved Solids	210	10	mg/L	SM18 2540 C	09/15/08	8259477
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 4.7	
Turbidity	0.40	0.10	NTU	MCAWW 180.1	09/12/08	8256504
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 0.020	

Waste Management, Inc.

Client Sample ID: 3406-MW07

General Chemistry

Lot-Sample #...: D8I120232-008 Work Order #...: KWRJC Matrix.....: WATER
Date Sampled...: 09/11/08 09:19 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.046	0.040	mg/L	MCAWW 350.1	09/19/08	8264123
		Dilution Factor: 1		Analysis Time..: 12:45	MDL.....: 0.022	
Chloride	5.9	0.30	mg/L	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1		Analysis Time..: 15:21	MDL.....: 0.25	
Total Alkalinity	43	5.0	mg/L	SM18 2320 B	09/15/08	8260149
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Total Dissolved Solids	110	10	mg/L	SM18 2540 C	09/15/08	8259477
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 4.7	
Turbidity	2.5	0.10	NTU	MCAWW 180.1	09/12/08	8256504
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 0.020	

Waste Management, Inc.

Client Sample ID: 3406-MW10

General Chemistry

Lot-Sample #...: D8I120232-010 Work Order #...: KWRJF Matrix.....: WATER
Date Sampled...: 09/11/08 08:34 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.041	0.040	mg/L	MCAWW 350.1	09/19/08	8264123
		Dilution Factor: 1		Analysis Time..: 12:45	MDL.....: 0.022	
Chloride	3.2	0.30	mg/L	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1		Analysis Time..: 15:55	MDL.....: 0.25	
Total Alkalinity	63	5.0	mg/L	SM18 2320 B	09/15/08	8260149
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Total Dissolved Solids	93	10	mg/L	SM18 2540 C	09/15/08	8259477
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 4.7	
Turbidity	1.1	0.10	NTU	MCAWW 180.1	09/12/08	8256504
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 0.020	

Waste Management, Inc.

Client Sample ID: 3406-MW11D

General Chemistry

Lot-Sample #...: D8I120232-012 Work Order #...: KWRJH Matrix.....: WATER
Date Sampled...: 09/11/08 08:40 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.050	0.040	mg/L	MCAWW 350.1	09/19/08	8264123
		Dilution Factor: 1		Analysis Time..: 12:45	MDL.....: 0.022	
Chloride	1.7	0.30	mg/L	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1		Analysis Time..: 16:28	MDL.....: 0.25	
Total Alkalinity	39	5.0	mg/L	SM18 2320 B	09/15/08	8260149
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Total Dissolved Solids	83	10	mg/L	SM18 2540 C	09/15/08	8259477
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 4.7	
Turbidity	18	0.10	NTU	MCAWW 180.1	09/12/08	8256504
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 0.020	

Waste Management, Inc.

Client Sample ID: 3406-MW12D

General Chemistry

Lot-Sample #...: D8I120232-014 Work Order #...: KWRJM Matrix.....: WATER
Date Sampled...: 09/11/08 12:29 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.045	0.040	mg/L	MCAWW 350.1	09/22/08	8266545
		Dilution Factor: 1		Analysis Time..: 10:50	MDL.....: 0.022	
Chloride	2.3	0.30	mg/L	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1		Analysis Time..: 17:35	MDL.....: 0.25	
Total Alkalinity	83	5.0	mg/L	SM18 2320 B	09/15/08	8260149
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Total Dissolved Solids	150	10	mg/L	SM18 2540 C	09/15/08	8259477
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 4.7	
Turbidity	13	0.10	NTU	MCAWW 180.1	09/12/08	8256504
		Dilution Factor: 1		Analysis Time..: 17:00	MDL.....: 0.020	

QC DATA ASSOCIATION SUMMARY

D8I120232

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
008	WATER	MCAWW 180.1		8256504	8257018
	WATER	MCAWW 300.0A		8261231	8267264
	WATER	SM18 2540 C		8259477	8262301
	WATER	SM18 2320 B		8260149	8260132
	WATER	MCAWW 350.1		8264123	8264072
009	WATER	MCAWW 180.1		8256504	8257018
	WATER	MCAWW 300.0A		8261231	8267264
	WATER	SM18 2540 C		8259477	8262301
	WATER	SM18 2320 B		8260149	8260132
	WATER	MCAWW 350.1		8264123	8264072
010	WATER	MCAWW 180.1		8256504	8257018
	WATER	MCAWW 300.0A		8261231	8267264
	WATER	SM18 2540 C		8259477	8262301
	WATER	SM18 2320 B		8260149	8260132
	WATER	MCAWW 350.1		8264123	8264072
011	WATER	MCAWW 180.1		8256504	8257018
	WATER	MCAWW 300.0A		8261231	8267264
	WATER	SM18 2540 C		8259477	8262301
	WATER	SM18 2320 B		8260149	8260132
	WATER	MCAWW 350.1		8264123	8264072
012	WATER	MCAWW 180.1		8256504	8257018
	WATER	MCAWW 300.0A		8261231	8267264
	WATER	SM18 2540 C		8259477	8262301
	WATER	SM18 2320 B		8260149	8260132
	WATER	MCAWW 350.1		8264123	8264072
013	WATER	MCAWW 180.1		8256504	8257018
	WATER	MCAWW 300.0A		8261231	8267264
	WATER	SM18 2540 C		8259477	8262301
	WATER	SM18 2320 B		8260149	8260132
	WATER	MCAWW 350.1		8264123	8264072
014	WATER	MCAWW 180.1		8256504	8257018
	WATER	MCAWW 300.0A		8261231	8267264
	WATER	SM18 2540 C		8259477	8262301
	WATER	SM18 2320 B		8260149	8260132
	WATER	MCAWW 350.1		8266545	8266309

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D8I120232 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		WO#:KXAXF1AC-LCS/KXAXF1AD-LCSD				LCS Lot-Sample#: D8I200000-123	
	100	(90 - 110)			MCAWW 350.1	09/19/08	8264123
	98	(90 - 110)	1.7	(0-10)	MCAWW 350.1	09/19/08	8264123
		Dilution Factor: 1			Analysis Time..: 12:45		
Ammonia as N		WO#:KXD2T1AC-LCS/KXD2T1AD-LCSD				LCS Lot-Sample#: D8I220000-545	
	102	(90 - 110)			MCAWW 350.1	09/22/08	8266545
	101	(90 - 110)	0.71	(0-10)	MCAWW 350.1	09/22/08	8266545
		Dilution Factor: 1			Analysis Time..: 10:50		
Chloride		WO#:KXFG11AC-LCS/KXFG11AD-LCSD				LCS Lot-Sample#: D8I170000-231	
	97	(90 - 110)			MCAWW 300.0A	09/16/08	8261231
	97	(90 - 110)	0.07	(0-10)	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1			Analysis Time..: 10:38		
Total Alkalinity		WO#:KWXXC1AC-LCS/KWXXC1AD-LCSD				LCS Lot-Sample#: D8I160000-149	
	96	(90 - 110)			SM18 2320 B	09/15/08	8260149
	96	(90 - 110)	0.51	(0-10)	SM18 2320 B	09/15/08	8260149
		Dilution Factor: 1			Analysis Time..: 14:00		
Total Dissolved Solids		WO#:KW53A1AC-LCS/KW53A1AD-LCSD				LCS Lot-Sample#: D8I150000-477	
	100	(86 - 106)			SM18 2540 C	09/15/08	8259477
	100	(86 - 106)	0.20	(0-20)	SM18 2540 C	09/15/08	8259477
		Dilution Factor: 1			Analysis Time..: 16:00		
Turbidity		WO#:KWT5H1AC-LCS/KWT5H1AD-LCSD				LCS Lot-Sample#: D8I120000-504	
	96	(90 - 110)			MCAWW 180.1	09/12/08	8256504
	96	(90 - 110)	0.0	(0-10)	MCAWW 180.1	09/12/08	8256504
		Dilution Factor: 1			Analysis Time..: 17:00		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120232 **Matrix.....:** WATER
Date Sampled...: 09/04/08 11:15 **Date Received..:** 09/05/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		WO#:	KWD0V1A9-MS/KWD0V1CA-MSD			MS Lot-Sample #:	D8I050351-012
	94	(90 - 110)			MCAWW 350.1	09/22/08	8266545
	96	(90 - 110)	0.95	(0-10)	MCAWW 350.1	09/22/08	8266545
		Dilution Factor: 1					
		Analysis Time..: 10:50					
Ammonia as N		WO#:	KWRJL1AG-MS/KWRJL1AH-MSD			MS Lot-Sample #:	D8I120232-013
	100	(90 - 110)			MCAWW 350.1	09/19/08	8264123
	101	(90 - 110)	0.68	(0-10)	MCAWW 350.1	09/19/08	8264123
		Dilution Factor: 1					
		Analysis Time..: 12:45					
Chloride		WO#:	KWRH01AJ-MS/KWRH01AK-MSD			MS Lot-Sample #:	D8I120232-001
	101	(80 - 120)			MCAWW 300.0A	09/16/08	8261231
	103	(80 - 120)	1.4	(0-20)	MCAWW 300.0A	09/16/08	8261231
		Dilution Factor: 1					
		Analysis Time..: 18:41					

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120232 Work Order #...: KWRH0-SMP Matrix.....: WATER
KWRH0-DUP
Date Sampled...: 09/11/08 11:42 Date Received..: 09/12/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity						SD Lot-Sample #:	D8I120232-001	
	1.8	2.0	NTU	9.9	(0-10)	MCAWW 180.1	09/12/08	8256504
			Dilution Factor: 1			Analysis Time..: 17:00		
Total Alkalinity						SD Lot-Sample #:	D8I120232-001	
	33	32	mg/L	1.8	(0-10)	SM18 2320 B	09/15/08	8260149
			Dilution Factor: 1			Analysis Time..: 14:00		

3.1
AG
IR1
9/1/218

Chain of Custody Record

TAL-4124-280 (1007)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

33

Client: WM	Project Manager: AL LACSAMANA	Date: 9-11-08	Chain of Custody Number: 101446
Address:	Telephone Number (Area Code)/Fax Number:	Lab Number:	Page 1 of 2
City: / State: NC / Zip Code:	Site Contact:	Lab Contact: Betsy Sura	
Project Name and Location (State): Piedmont Site 134	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 26744-B			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): TDS/Cl/Alk.	NH3	Turbidity (optional)									Special Instructions/ Conditions of Receipt
MW01	9-11	1142		X				1	1						1	1	✓									
MW02	9-11	0753		X				1	1						1	1	✓									
MW03	9-11	1017		X				1	1						1	1	✓									
MW04	9-11	1303		X				1	1						1	1	✓									
MW04D	9-11	1308		X				1	1						1	1	✓									
MW05	9-11	1415		X				1	1						1	1	✓									
MW06	9-11	1139		X				1	1						1	1	✓									
MW07	9-11	0919		X				1	1						1	1	✓									
MW08	9-11	1337		X				1	1						1	1	✓									
MW10	9-11	0834		X				1	1						1	1	✓									
MW11	9-11	0745		X				1	1						1	1	✓									
MW11D	9-11	0840		X				1	1						1	1	✓									

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)

1. Relinquished By	Date: 9-11-08	Time: 1800	1. Received By	Date: 9/12/08	Time: 1000
2. Relinquished By	Date:	Time:	2. Received By	Date:	Time:
3. Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments

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

TestAmerica

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project No. Site 134

Piedmont Landfill

Lot #: D8I120214

3406-MW09R

Al Lacsamana

Waste Management Inc.
Southern Area
1000 Parkwood Circle
Suite 700
Atlanta, GA 30339

Cc: Van Burbach

TestAmerica Denver
North Carolina Certification # 358

Betsy Sara
Project Manager

September 26, 2008

RECEIVED SEP 29 2008

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

Table Of Contents

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

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

The percent recoveries and/or the relative percent difference of the MS/MSD performed on a sample from another client were not calculated for Total Magnesium, Calcium, Manganese and Sodium because the sample concentrations were greater than four times the spike amounts.

The Matrix Spike and Matrix Spike Duplicate performed on sample 3406-T01 exhibited recoveries below control limits for Total Mercury Method 7470A. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

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

The Method 335.4 MS/MSD was performed on an unrelated sample which was re-analyzed in a different batch; therefore, the MS/MSD data is not reported in batch 8267563. A duplicate LCS/LCSD was analyzed to demonstrated method precision and accuracy.

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

Organics

The Continuing Calibration Verification (CCV) standard for Methyl Methacrylate and Ethyl Methacrylate by Method 8260B exceeded the percent difference limits. Because all other calibration criteria were met, no corrective action was necessary.

The Initial Calibration Verification (ICV) standard for Acrolein by Method 8260B exceeded the control limits. The lab has been unable to obtain reliable second source standards for Acrolein. This compound is known to easily polymerize, and vendors will not certify their standards. As a result, the Initial Calibration Verification standard demonstrates a percent difference greater than the allowed criteria.

General Comments

The analyses for Method 8270C (partial), Method 8081 and Method 8151A were performed at TestAmerica's Chicago facility.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60466
Tel: 708-534-5200

The analysis for Method 8270C (partial) was performed at Environmental Conservation Laboratories, Inc.
ENCO
102-A Woodwinds Industrial Court
Cary, NC 27511
Tel: 919-467-3090

PREPARATION METHODS SUMMARY

D8I120214

PREPARATION DESCRIPTION	PREPARATION METHOD	ANALYTICAL METHOD
********		MCAWW 180.1
********		MCAWW 360.1
********		NONE Depth to W
********		NONE Field eH (
********		NONE Well Eleva
********		SM18 4500-S2 D
Acid Digestion for Total Recoverable Metals	SW846 3005A	SW846 6010B
Alkalinity	SM18 2320 B	SM18 2320 B
Ammonia preparation	MCAWW 350.1	MCAWW 350.1
Bicarbonate Alkalinity	SM20 2320B	SM18 2320 B
Carbonate Alkalinity	SM20 2320B	SM18 2320 B
Chloride	MCAWW 300.0A	MCAWW 300.0A
Distillation procedure	MCAWW 335.4	MCAWW 335.4
Field pH	MCAWW 150.1	MCAWW 150.1
Field Conductivity	MCAWW 120.1	MCAWW 120.1
Field Temperature	MCAWW 170.1	MCAWW 170.1
Field Test	NONE Field Test	NONE GW Elevati
Mercury Sample Preparation	SW846 7470A	SW846 7470A
Result obtained by calculation	MCAWW 353.2	MCAWW 353.2
Sep Funnel Extraction with Acid Strip	SW846 3510C	SW846 8082
Total Dissoved Solids	SM18 2540 C	SM18 2540 C
Total Organic Carbon	SM18 5310 B	SM18 5310B
Turbidimetric Sulfate	ASTM D516-02	ASTM D516-02
25 mL Purge-and-Trap	SW846 5030B/826	SW846 8260B

References:

ASTM Annual Book Of ASTM Standards.

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

NONE

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

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D8I120214

ANALYTICAL METHOD	ANALYST	ANALYST ID
ASTM D516-02	Dave Elkin	000901
MCAWW 120.1	Outside Lab	OUT
MCAWW 150.1	Outside Lab	OUT
MCAWW 170.1	Outside Lab	OUT
MCAWW 180.1	Outside Lab	OUT
MCAWW 300.0A	Eva Jonska-Muteba	004988
MCAWW 335.4	Eva Jonska-Muteba	004988
MCAWW 350.1	Kevin Bloom	006134
MCAWW 353.2	Kevin Bloom	006134
MCAWW 360.1	Outside Lab	OUT
NONE Depth to Water	Outside Lab	OUT
NONE Field eH (Redox)	Outside Lab	OUT
NONE GW Elevation	Outside Lab	OUT
NONE Well Elevation	Outside Lab	OUT
SM18 2320 B	Dave Elkin	000901
SM18 2540 C	Erica Arteaga	005682
SM18 4500-S2 D	Bryan Gilbert	007254
SM18 5310B	ReAnna Davis	002266
SW846 6010B	David Wells	5099
SW846 7470A	Christopher Grisdale	9582
SW846 8082	Teresa L. Williams	002510
SW846 8260B	Greg Meier	006004

References:

ASTM Annual Book Of ASTM Standards.

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

NONE

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

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

Waste Management, Inc.

Client Sample ID: 3406-MW09R

GC/MS Volatiles

Lot-Sample #...: D8I120214-001 **Work Order #...:** KWREF1AJ **Matrix.....:** WATER
Date Sampled...: 09/11/08 10:35 **Date Received..:** 09/12/08
Prep Date.....: 09/18/08 **Analysis Date..:** 09/18/08
Prep Batch #...: 8263087 **Analysis Time..:** 07:50
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	100	ug/L	1.9
Acetonitrile	ND	55	ug/L	9.6
Acrolein	ND	53	ug/L	2.8
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	1.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
2-Butanone (MEK)	ND	100	ug/L	1.8
Carbon disulfide	ND	100	ug/L	0.45
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Chloroprene	ND	20	ug/L	0.14
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Allyl chloride	ND	10	ug/L	0.17
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	5.0	ug/L	0.13
1,3-Dichlorobenzene	ND	5.0	ug/L	0.16
1,4-Dichlorobenzene	**0.44 J**	**1.0**	**ug/L**	**0.16**
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
Dichlorodifluoromethane	ND	5.0	ug/L	0.31
1,1-Dichloroethane	**6.1**	**5.0**	**ug/L**	**0.16**
1,2-Dichloroethane	ND	1.0	ug/L	0.13
cis-1,2-Dichloroethene	**1.5 J**	**5.0**	**ug/L**	**0.15**
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,1-Dichloroethene	ND	5.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.13
1,3-Dichloropropane	ND	1.0	ug/L	0.15
2,2-Dichloropropane	ND	15	ug/L	0.20
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.16

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Waste Management, Inc.

Client Sample ID: TRIP

GC/MS Volatiles

Lot-Sample #...: D8I120214-002 **Work Order #...:** KWREM1AA **Matrix.....:** WATER
Date Sampled...: 09/11/08 **Date Received..:** 09/12/08
Prep Date.....: 09/18/08 **Analysis Date..:** 09/18/08
Prep Batch #...: 8263087 **Analysis Time..:** 08:46
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	100	ug/L	1.9
Acetonitrile	ND	55	ug/L	9.6
Acrolein	ND	53	ug/L	2.8
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	1.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
2-Butanone (MEK)	ND	100	ug/L	1.8
Carbon disulfide	ND	100	ug/L	0.45
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Chloroprene	ND	20	ug/L	0.14
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Allyl chloride	ND	10	ug/L	0.17
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	5.0	ug/L	0.13
1,3-Dichlorobenzene	ND	5.0	ug/L	0.16
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
Dichlorodifluoromethane	ND	5.0	ug/L	0.31
1,1-Dichloroethane	ND	5.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.13
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.15
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,1-Dichloroethene	ND	5.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.13
1,3-Dichloropropane	ND	1.0	ug/L	0.15
2,2-Dichloropropane	ND	15	ug/L	0.20
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.16

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Waste Management, Inc.

Client Sample ID: 3406-MW09R

GC Semivolatiles

Lot-Sample #...: D8I120214-001 **Work Order #...:** KWREF1A1 **Matrix.....:** WATER
Date Sampled...: 09/11/08 10:35 **Date Received..:** 09/12/08
Prep Date.....: 09/18/08 **Analysis Date..:** 09/23/08
Prep Batch #...: 8262102 **Analysis Time..:** 20:42
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	2.0	ug/L	0.12
Aroclor 1221	ND	2.0	ug/L	0.21
Aroclor 1232	ND	2.0	ug/L	0.17
Aroclor 1242	ND	2.0	ug/L	0.10
Aroclor 1248	ND	2.0	ug/L	0.092
Aroclor 1254	ND	2.0	ug/L	0.11
Aroclor 1260	ND	2.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(51 - 122)
Decachlorobiphenyl	98	(50 - 138)

Waste Management, Inc.

Client Sample ID: 3406-MW09R

General Chemistry

Lot-Sample #...: D8I120214-001 Work Order #...: KWREF Matrix.....: WATER
Date Sampled...: 09/11/08 10:35 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	0.17	0.040	mg/L	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1		Analysis Time..: 12:45	MDL.....: 0.022	
Bicarbonate Alkalinity	220	5.0	mg/L	SM18 2320 B	09/16/08	8261379
		Dilution Factor: 1		Analysis Time..: 15:00	MDL.....: 1.1	
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	09/16/08	8261382
		Dilution Factor: 1		Analysis Time..: 15:00	MDL.....: 1.1	
Chloride	15	0.30	mg/L	MCAWW 300.0A	09/17/08	8262274
		Dilution Factor: 1		Analysis Time..: 15:44	MDL.....: 0.25	
Depth to Water	28.06		ft	NONE Depth to Wat	09/11/08	8259339
		Dilution Factor: 1		Analysis Time..: 10:35	MDL.....:	
Field eH (Redox)	-26.3		mV	NONE Field eH (Re	09/11/08	8259338
		Dilution Factor: 1		Analysis Time..: 10:35	MDL.....:	
Field pH	5.91	0.1	No Units	MCAWW 150.1	09/11/08	8259338
		Dilution Factor: 1		Analysis Time..: 10:35	MDL.....:	
Field Conductivity	502	1	umhos/cm	MCAWW 120.1	09/11/08	8259338
		Dilution Factor: 1		Analysis Time..: 10:35	MDL.....:	
Field Dissolved Oxygen	0.6	0.5	mg/L	MCAWW 360.1	09/11/08	8259338
		Dilution Factor: 1		Analysis Time..: 10:35	MDL.....: 0.01	
Field Temperature	18.1	--	deg C	MCAWW 170.1	09/11/08	8259338
		Dilution Factor: 1		Analysis Time..: 10:35	MDL.....:	
Field Turbidity	0.9		NTU	MCAWW 180.1	09/11/08	8259338
		Dilution Factor: 1		Analysis Time..: 10:35	MDL.....:	
Groundwater Elevation	736.89		ft/msl	NONE GW Elevation	09/11/08	8259338
		Dilution Factor: 1		Analysis Time..: 10:35	MDL.....:	
Nitrate	0.77	0.50	mg/L	MCAWW 353.2	09/12/08	8267622
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.019	
Sulfate	ND	5.0	mg/L	ASTM D516-02	09/18/08	8262548
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 4.9	
Total Alkalinity	220	5.0	mg/L	SM18 2320 B	09/16/08	8261376
		Dilution Factor: 1		Analysis Time..: 15:00	MDL.....: 1.1	

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QC DATA ASSOCIATION SUMMARY

D8I120214

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SM18 2320 B		8261379	
	WATER	NONE Depth to Wat		8259339	
	WATER	NONE GW Elevation		8259338	
	WATER	MCAWW 353.2		8267622	
	WATER	MCAWW 300.0A		8262274	8262253
	WATER	NONE Well Elevati		8259338	
	WATER	NONE Field eH (Re		8259338	
	WATER	MCAWW 170.1		8259338	
	WATER	MCAWW 150.1		8259338	
	WATER	MCAWW 120.1		8259338	
	WATER	MCAWW 360.1		8259338	
	WATER	SM18 2320 B		8261382	
	WATER	SM18 5310B		8259473	8259274
	WATER	SM18 2540 C		8259474	8263164
	WATER	SM18 2320 B		8261376	8261232
	WATER	SM18 4500-S2 D		8259413	8259266
	WATER	MCAWW 335.4		8267563	
	WATER	SW846 7470A		8261089	8261038
	WATER	SW846 8082		8262102	8262078
	WATER	SW846 8260B		8263087	8263169
	WATER	SW846 6010B		8260134	8260081
	WATER	MCAWW 180.1		8259338	
	WATER	MCAWW 350.1		8264121	8264070
	WATER	ASTM D516-02		8262548	8263059
002	WATER	SW846 8260B		8263087	8263169

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8I120214 **Work Order #...:** KW75R1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethyl methacrylate	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Iodomethane	ND	10	ug/L	SW846 8260B
Isobutyl alcohol	ND	100	ug/L	SW846 8260B
Methacrylonitrile	ND	100	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl methacrylate	ND	30	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	100	ug/L	SW846 8260B
Propionitrile	ND	150	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	50	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(79 - 119)
1,2-Dichloroethane-d4	103	(65 - 126)
4-Bromofluorobenzene	93	(75 - 115)
Toluene-d8	101	(78 - 118)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120214 Work Order #...: KW75R1AC Matrix.....: WATER
LCS Lot-Sample#: D8I190000-087
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263087 Analysis Time..: 06:36
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**5.00**	**4.82**	**ug/L**	**96**	**SW846 8260B**
Bromodichloromethane	**5.00**	**4.50**	**ug/L**	**90**	**SW846 8260B**
Carbon tetrachloride	**5.00**	**4.70**	**ug/L**	**94**	**SW846 8260B**
Chlorobenzene	**5.00**	**4.69**	**ug/L**	**94**	**SW846 8260B**
Chloroform	**5.00**	**4.91**	**ug/L**	**98**	**SW846 8260B**
1,3-Dichlorobenzene	**5.00**	**4.64**	**ug/L**	**93**	**SW846 8260B**
1,1-Dichloroethane	**5.00**	**4.96**	**ug/L**	**99**	**SW846 8260B**
trans-1,2-Dichloroethene	**5.00**	**5.42**	**ug/L**	**108**	**SW846 8260B**
1,1-Dichloroethene	**5.00**	**5.07**	**ug/L**	**101**	**SW846 8260B**
1,2-Dichloropropane	**5.00**	**4.65**	**ug/L**	**93**	**SW846 8260B**
Ethylbenzene	**5.00**	**4.62**	**ug/L**	**92**	**SW846 8260B**
Methylene chloride	**5.00**	**5.48**	**ug/L**	**110**	**SW846 8260B**
Tetrachloroethene	**5.00**	**4.82**	**ug/L**	**96**	**SW846 8260B**
Toluene	**5.00**	**5.06**	**ug/L**	**101**	**SW846 8260B**
1,1,1-Trichloroethane	**5.00**	**4.91**	**ug/L**	**98**	**SW846 8260B**
Trichloroethene	**5.00**	**5.06**	**ug/L**	**101**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(79 - 119)
1,2-Dichloroethane-d4	101	(65 - 126)
4-Bromofluorobenzene	98	(75 - 115)
Toluene-d8	103	(78 - 118)

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 Volatiles

Client Lot #...: D8I120214 **Work Order #...:** KWREF1DA-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I120214-001 KWREF1DC-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	94	(75 - 115)
	96	(75 - 115)
Toluene-d8	102	(78 - 118)
	102	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120214 **Work Order #...:** KWREF1DA-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I120214-001 KWREF1DC-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	94	(75 - 115)
	96	(75 - 115)
Toluene-d8	102	(78 - 118)
	102	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D8I120214 **Work Order #...:** KW4C31AC **Matrix.....:** WATER
LCS Lot-Sample#: D8I180000-102
Prep Date.....: 09/18/08 **Analysis Date..:** 09/23/08
Prep Batch #...: 8262102 **Analysis Time..:** 20:21
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**81**	**(61 - 125)**	**SW846 8082**
Aroclor 1260	**85**	**(63 - 129)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	54	(50 - 117)
Decachlorobiphenyl	102	(76 - 121)

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 Semivolatiles

Client Lot #...: D8I120214 Work Order #...: KW3KD1DQ-MS Matrix.....: WATER
MS Lot-Sample #: D8I170309-013 KW3KD1DR-MSD
Date Sampled...: 09/15/08 13:00 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/24/08
Prep Batch #...: 8262102 Analysis Time..: 02:59
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**89**	**(53 - 130)**			**SW846 8082**
	91	**(53 - 130)**	**7.2**	**(0-30)**	**SW846 8082**
Aroclor 1260	**79**	**(58 - 150)**			**SW846 8082**
	79	**(58 - 150)**	**4.6**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(51 - 122)
	97	(51 - 122)
Decachlorobiphenyl	102	(50 - 138)
	100	(50 - 138)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8I120214 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8I160000-134 **Prep Batch #...:** 8260134						
Potassium	ND	3000	ug/L	SW846 6010B	09/16-09/17/08	KWXN91AP
		Dilution Factor: 1				
		Analysis Time..: 17:54				
Magnesium	ND	200	ug/L	SW846 6010B	09/16-09/17/08	KWXN91AL
		Dilution Factor: 1				
		Analysis Time..: 17:54				
Calcium	ND	200	ug/L	SW846 6010B	09/16-09/17/08	KWXN91AG
		Dilution Factor: 1				
		Analysis Time..: 17:54				
Iron	ND	100	ug/L	SW846 6010B	09/16-09/17/08	KWXN91AK
		Dilution Factor: 1				
		Analysis Time..: 17:54				
Tin	ND	100	ug/L	SW846 6010B	09/16-09/17/08	KWXN91A5
		Dilution Factor: 1				
		Analysis Time..: 17:54				
Manganese	**0.40 B**	**10**	**ug/L**	**SW846 6010B**	**09/16-09/17/08**	**KWXN91AM**
		Dilution Factor: 1				
		Analysis Time..: 17:54				
Sodium	ND	1000	ug/L	SW846 6010B	09/16-09/17/08	KWXN91AQ
		Dilution Factor: 1				
		Analysis Time..: 17:54				
MB Lot-Sample #: D8I170000-089 **Prep Batch #...:** 8261089						
Mercury	ND	0.20	ug/L	SW846 7470A	09/17/08	KW1VQ1AA
		Dilution Factor: 1				
		Analysis Time..: 23:14				

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 DATA REPORT

TOTAL Metals

Client Lot #...: D8I120214 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D8I160000-134 **Prep Batch #...:** 8260134							
Potassium	50000	49000	ug/L	98	SW846 6010B	09/16-09/17/08	KWXN91CK
			Dilution Factor: 1		Analysis Time..: 17:58		
Magnesium	50000	48000	ug/L	96	SW846 6010B	09/16-09/17/08	KWXN91CG
			Dilution Factor: 1		Analysis Time..: 17:58		
Calcium	50000	49500	ug/L	99	SW846 6010B	09/16-09/17/08	KWXN91CC
			Dilution Factor: 1		Analysis Time..: 17:58		
Iron	1000	959	ug/L	96	SW846 6010B	09/16-09/17/08	KWXN91CF
			Dilution Factor: 1		Analysis Time..: 17:58		
Tin	2000	1970	ug/L	99	SW846 6010B	09/16-09/17/08	KWXN91C1
			Dilution Factor: 1		Analysis Time..: 17:58		
Manganese	500	489	ug/L	98	SW846 6010B	09/16-09/17/08	KWXN91CH
			Dilution Factor: 1		Analysis Time..: 17:58		
Sodium	50000	49800	ug/L	100	SW846 6010B	09/16-09/17/08	KWXN91CL
			Dilution Factor: 1		Analysis Time..: 17:58		
LCS Lot-Sample#: D8I170000-089 **Prep Batch #...:** 8261089							
Mercury	5.00	4.60	ug/L	92	SW846 7470A	09/17-09/18/08	KW1VQ1AC
			Dilution Factor: 1		Analysis Time..: 09:25		

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120214 **Matrix.....:** WATER
Date Sampled...: 09/12/08 13:00 **Date Received..:** 09/13/08

MS Lot-Sample #: D8I130142-001 **Prep Batch #...:** 8260134

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium									
	39000	50000	86800	ug/L	95		SW846 6010B	09/16-09/17/08	KWVA21DK
	39000	50000	85400	ug/L	92	1.6	SW846 6010B	09/16-09/17/08	KWVA21DL
			Dilution Factor: 1						
			Analysis Time..: 19:38						
Magnesium									
	1600000	50000	1640000	ug/L			SW846 6010B	09/16-09/17/08	KWVA21DD
			Qualifiers: NC,MSB						
	1600000	50000	1630000	ug/L			SW846 6010B	09/16-09/17/08	KWVA21DE
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time..: 19:38						
Calcium									
	440000	50000	485000	ug/L			SW846 6010B	09/16-09/17/08	KWVA21C4
			Qualifiers: NC,MSB						
	440000	50000	479000	ug/L			SW846 6010B	09/16-09/17/08	KWVA21C5
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time..: 19:38						
Iron									
	2500	1000	3330	ug/L	79		SW846 6010B	09/16-09/17/08	KWVA21DA
	2500	1000	3270	ug/L	73	1.8	SW846 6010B	09/16-09/17/08	KWVA21DC
			Dilution Factor: 1						
			Analysis Time..: 19:38						
Tin									
	ND	2000	1820	ug/L	91		SW846 6010B	09/16-09/17/08	KWVA21EF
	ND	2000	1800	ug/L	90	0.89	SW846 6010B	09/16-09/17/08	KWVA21EG
			Dilution Factor: 1						
			Analysis Time..: 19:38						
Manganese									
	2400	500	2870	ug/L			SW846 6010B	09/16-09/17/08	KWVA21DF
			Qualifiers: NC,MSB						
	2400	500	2840	ug/L			SW846 6010B	09/16-09/17/08	KWVA21DG
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time..: 19:38						

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8I120214 **Matrix.....:** WATER
Date Sampled...: 09/11/08 14:10 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120207-001 **Prep Batch #...:** 8261089							
Mercury	69 N	(88 - 111)			SW846 7470A	09/17/08	KWRCM1DW
	70 N	(88 - 111)	1.1	(0-10)	SW846 7470A	09/17/08	KWRCM1DX
		Dilution Factor: 1					
		Analysis Time..: 23:21					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8I120214 **Matrix.....:** WATER
Date Sampled...: 09/11/08 10:35 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120214-001 **Prep Batch #...:** 8261089							
Mercury	90	(88 - 111)			SW846 7470A	09/17/08	KWREF1C4
	88	(88 - 111)	2.1	(0-10)	SW846 7470A	09/17/08	KWREF1C5

Dilution Factor: 1
Analysis Time..: 23:28

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D8I120214 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		Work Order #: KXAXE1AA		MB Lot-Sample #:	D8I200000-121	
	ND	0.040	mg/L	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1				
		Analysis Time..: 12:45				
Bicarbonate Alkalinity		Work Order #: KW29X1AA		MB Lot-Sample #:	D8I170000-379	
	ND	5.0	mg/L	SM18 2320 B	09/16/08	8261379
		Dilution Factor: 1				
		Analysis Time..: 15:00				
Carbonate Alkalinity		Work Order #: KW3AG1AA		MB Lot-Sample #:	D8I170000-382	
	ND	5.0	mg/L	SM18 2320 B	09/16/08	8261382
		Dilution Factor: 1				
		Analysis Time..: 15:00				
Chloride		Work Order #: KW5PE1AA		MB Lot-Sample #:	D8I180000-274	
	ND	0.30	mg/L	MCAWW 300.0A	09/17/08	8262274
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Nitrate		Work Order #: KXGAT1AA		MB Lot-Sample #:	D8I230000-622	
	ND	0.50	mg/L	MCAWW 353.2	09/12/08	8267622
		Dilution Factor: 1				
		Analysis Time..: 18:00				
Sulfate		Work Order #: KW65K1AA		MB Lot-Sample #:	D8I180000-548	
	ND	5.0	mg/L	ASTM D516-02	09/18/08	8262548
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Total Alkalinity		Work Order #: KW26X1AA		MB Lot-Sample #:	D8I170000-376	
	ND	5.0	mg/L	SM18 2320 B	09/16/08	8261376
		Dilution Factor: 1				
		Analysis Time..: 15:00				
Total Cyanide		Work Order #: KXF6A1AA		MB Lot-Sample #:	D8I230000-563	
	ND	0.010	mg/L	MCAWW 335.4	09/22-09/23/08	8267563
		Dilution Factor: 1				
		Analysis Time..: 11:30				
Total Dissolved Solids		Work Order #: KW74N1AA		MB Lot-Sample #:	D8I150000-474	
	ND	10	mg/L	SM18 2540 C	09/15/08	8259474
		Dilution Factor: 1				
		Analysis Time..: 15:30				

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D8I120214 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		WO#:KXAXE1AC-LCS/KXAXE1AD-LCSD				LCS Lot-Sample#: D8I200000-121	
	100	(90 - 110)			MCAWW 350.1	09/19/08	8264121
	99	(90 - 110)	0.95	(0-10)	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1			Analysis Time..: 12:45		
Chloride		WO#:KW5PE1AC-LCS/KW5PE1AD-LCSD				LCS Lot-Sample#: D8I180000-274	
	103	(90 - 110)			MCAWW 300.0A	09/17/08	8262274
	103	(90 - 110)	0.06	(0-10)	MCAWW 300.0A	09/17/08	8262274
		Dilution Factor: 1			Analysis Time..: 11:29		
Nitrate		WO#:KXGAT1AC-LCS/KXGAT1AD-LCSD				LCS Lot-Sample#: D8I230000-622	
	107	(86 - 110)			MCAWW 353.2	09/12/08	8267622
	107	(86 - 110)	0.56	(0-10)	MCAWW 353.2	09/12/08	8267622
		Dilution Factor: 1			Analysis Time..: 18:00		
Sulfate		WO#:KW65K1AC-LCS/KW65K1AD-LCSD				LCS Lot-Sample#: D8I180000-548	
	105	(91 - 112)			ASTM D516-02	09/18/08	8262548
	109	(91 - 112)	3.7	(0-15)	ASTM D516-02	09/18/08	8262548
		Dilution Factor: 1			Analysis Time..: 16:00		
Total Alkalinity		WO#:KW26X1AC-LCS/KW26X1AD-LCSD				LCS Lot-Sample#: D8I170000-376	
	96	(90 - 110)			SM18 2320 B	09/16/08	8261376
	98	(90 - 110)	2.6	(0-10)	SM18 2320 B	09/16/08	8261376
		Dilution Factor: 1			Analysis Time..: 15:00		
Total Cyanide		WO#:KXF6A1AC-LCS/KXF6A1AD-LCSD				LCS Lot-Sample#: D8I230000-563	
	95	(90 - 110)			MCAWW 335.4	09/22/08	8267563
	95	(90 - 110)	0.84	(0-10)	MCAWW 335.4	09/22/08	8267563
		Dilution Factor: 1			Analysis Time..: 14:30		
Total Dissolved Solids		WO#:KW74N1AC-LCS/KW74N1AD-LCSD				LCS Lot-Sample#: D8I150000-474	
	100	(86 - 106)			SM18 2540 C	09/15/08	8259474
	98	(86 - 106)	1.8	(0-20)	SM18 2540 C	09/15/08	8259474
		Dilution Factor: 1			Analysis Time..: 15:30		
Total Organic Carbon		WO#:KWX4A1AC-LCS/KWX4A1AD-LCSD				LCS Lot-Sample#: D8I150000-473	
	100	(86 - 114)			SM18 5310B	09/15/08	8259473
	100	(86 - 114)	0.68	(0-12)	SM18 5310B	09/15/08	8259473
		Dilution Factor: 1			Analysis Time..: 13:08		

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D8I120214 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N			WO#:KXAXE1AC-LCS/KXAXE1AD-LCSD			LCS Lot-Sample#: D8I200000-121		
	4.00	3.98	mg/L	100		MCAWW 350.1	09/19/08	8264121
	4.00	3.94	mg/L	99	0.95	MCAWW 350.1	09/19/08	8264121
			Dilution Factor: 1			Analysis Time..: 12:45		
Chloride			WO#:KW5PE1AC-LCS/KW5PE1AD-LCSD			LCS Lot-Sample#: D8I180000-274		
	25.0	25.7	mg/L	103		MCAWW 300.0A	09/17/08	8262274
	25.0	25.7	mg/L	103	0.06	MCAWW 300.0A	09/17/08	8262274
			Dilution Factor: 1			Analysis Time..: 11:29		
Nitrate			WO#:KXGAT1AC-LCS/KXGAT1AD-LCSD			LCS Lot-Sample#: D8I230000-622		
	0.0500	0.0533	mg/L	107		MCAWW 353.2	09/12/08	8267622
	0.0500	0.0536	mg/L	107	0.56	MCAWW 353.2	09/12/08	8267622
			Dilution Factor: 1			Analysis Time..: 18:00		
Sulfate			WO#:KW65K1AC-LCS/KW65K1AD-LCSD			LCS Lot-Sample#: D8I180000-548		
	25.0	26.3	mg/L	105		ASTM D516-02	09/18/08	8262548
	25.0	27.3	mg/L	109	3.7	ASTM D516-02	09/18/08	8262548
			Dilution Factor: 1			Analysis Time..: 16:00		
Total Alkalinity			WO#:KW26X1AC-LCS/KW26X1AD-LCSD			LCS Lot-Sample#: D8I170000-376		
	200	192	mg/L	96		SM18 2320 B	09/16/08	8261376
	200	197	mg/L	98	2.6	SM18 2320 B	09/16/08	8261376
			Dilution Factor: 1			Analysis Time..: 15:00		
Total Cyanide			WO#:KXF6A1AC-LCS/KXF6A1AD-LCSD			LCS Lot-Sample#: D8I230000-563		
	0.100	0.0946	mg/L	95		MCAWW 335.4	09/22/08	8267563
	0.100	0.0954	mg/L	95	0.84	MCAWW 335.4	09/22/08	8267563
			Dilution Factor: 1			Analysis Time..: 14:30		
Total Dissolved Solids			WO#:KW74N1AC-LCS/KW74N1AD-LCSD			LCS Lot-Sample#: D8I150000-474		
	500	499	mg/L	100		SM18 2540 C	09/15/08	8259474
	500	490	mg/L	98	1.8	SM18 2540 C	09/15/08	8259474
			Dilution Factor: 1			Analysis Time..: 15:30		
Total Organic Carbon			WO#:KWX4A1AC-LCS/KWX4A1AD-LCSD			LCS Lot-Sample#: D8I150000-473		
	25.0	24.9	mg/L	100		SM18 5310B	09/15/08	8259473
	25.0	25.1	mg/L	100	0.68	SM18 5310B	09/15/08	8259473
			Dilution Factor: 1			Analysis Time..: 13:08		

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MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120214 **Matrix.....:** WATER
Date Sampled...: 09/10/08 12:15 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		WO#: KWH1H1A9-MS/KWH1H1CA-MSD				MS Lot-Sample #: D8I090245-004	
	104	(90 - 110)			MCAWW 350.1	09/19/08	8264121
	100	(90 - 110)	3.7	(0-10)	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1					
		Analysis Time..: 12:45					
Ammonia as N		WO#: KWRFA1DG-MS/KWRFA1DH-MSD				MS Lot-Sample #: D8I120221-004	
	54 N	(90 - 110)			MCAWW 350.1	09/19/08	8264121
	54 N	(90 - 110)	0.09	(0-10)	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1					
		Analysis Time..: 12:45					
Chloride		WO#: KWREF1C6-MS/KWREF1C7-MSD				MS Lot-Sample #: D8I120214-001	
	108	(80 - 120)			MCAWW 300.0A	09/17/08	8262274
	109	(80 - 120)	0.85	(0-20)	MCAWW 300.0A	09/17/08	8262274
		Dilution Factor: 1					
		Analysis Time..: 16:36					
Sulfate		WO#: KWREF1C8-MS/KWREF1C9-MSD				MS Lot-Sample #: D8I120214-001	
	107	(45 - 153)			ASTM D516-02	09/18/08	8262548
	107	(45 - 153)	0.03	(0-21)	ASTM D516-02	09/18/08	8262548
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Organic Carbon		WO#: KWTJH1DD-MS/KWTJH1DE-MSD				MS Lot-Sample #: D8I120341-007	
	102	(65 - 139)			SM18 5310B	09/15/08	8259421
	102	(65 - 139)	0.59	(0-41)	SM18 5310B	09/15/08	8259421
		Dilution Factor: 1					
		Analysis Time..: 14:40					
Total Sulfide		WO#: KWREF1C2-MS/KWREF1C3-MSD				MS Lot-Sample #: D8I120214-001	
	96	(20 - 156)			SM18 4500-S2 D	09/15/08	8259413
	98	(20 - 156)	1.4	(0-30)	SM18 4500-S2 D	09/15/08	8259413
		Dilution Factor: 1					
		Analysis Time..: 14:00					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120214 **Work Order #...:** KWRCQ-SMP KWRCQ-DUP **Matrix.....:** WATER

Date Sampled...: 09/11/08 08:45 **Date Received..:** 09/12/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: D8I120210-001		
	140000 Q	140000 Q	mg/L	0.71	(0-20)	SM18 2540 C	09/15/08	8259474

Dilution Factor: 100 Analysis Time..: 15:30

NOTE(S):

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

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120214 **Work Order #...:** KWQ6H-SMP KWQ6H-DUP **Matrix.....:** WATER

Date Sampled...: 09/11/08 07:15 **Date Received..:** 09/12/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity						SD Lot-Sample #:	D8I120187-001	
	420	420	mg/L	0.96	(0-10)	SM18 2320 B	09/16/08	8261376

Dilution Factor: 1 Analysis Time..: 15:00

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW09R (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: 08E120214-001

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
091108	1016	19	24	15	06

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

Sampling Device: C

X-Other:

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

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

WELL DATA

Well Elevation (at TOC): 764.95 (ft/msl)

Depth to Water (DTW) (from TOC): 28.06 (ft)

Groundwater Elevation (site datum, from TOC): 736.89 (ft/msl)

Total Well Depth (from TOC): 42.95 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

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 gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1026	0.08 1st	6.08 1st	510	18.1	1.9	0.7	-295	
1028	0.08 2nd	5.95 2nd	508	18.1	0.8	0.6	-299	
1030	0.08 3rd	5.93 3rd	505	18.1	0.9	0.6	-287	
1032	0.08 4th	5.93 4th	503	18.1	1.0	0.6	-268	
1034	0.08	5.91	502	18.1	0.9	0.6	-263	28.1
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
091108	5.91	502	18.1	0.9	0.6	-263	

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: CLEAR — Odor: NONE — Color: NONE — Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM — Outlook: Cloudy 75°F — Precipitation: Y or N

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

CALC: 42.95-28.06= 14.89 x 0.163 = 2.43 gallons

FLOW: 0.08 gpm

ACTUAL: 19 min x 0.08 = 1.52 gallons

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
9/11/08	DAN ARMOUR		PRO-TECH

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

Comments
No additional comments.

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

GC/MS Semi VOA
Method(s) 8270C: The %RPD of the laboratory control standard (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 47599 exceeded control limits for the following analytes: Di-n-octyl-phthalate and Pyrene. The Di-n-octyl phthalate was biased high in the LCS. The LCD was within limits. No further action was taken.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8151A: The continuing calibration verification (CCV) for 2,4-D recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

METHOD SUMMARY

Client: TestAmerica Laboratories, Inc. Job Number: 500-13999-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL CHI	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CHI		SW846 3510C
Pesticides	TAL CHI	SW846 8081A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CHI		SW846 3510C
Herbicides (GC)	TAL CHI	SW846 8151A	
Extraction (Herbicides)	TAL CHI		SW846 8151A

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

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

SAMPLE SUMMARY

Client: TestAmerica Laboratories, Inc. Job Number: 500-13999-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-13999-1	MW09R	Water	09/11/2008 1035	09/13/2008 0930

Ms. Betsy Sara
TestAmerica Laboratories, Inc.
4955 Yarrow Street
Arvada, CO 80002

Job Number: 500-13999-1

Client Sample ID: MW09R
Lab Sample ID: 500-13999-1

Date Sampled: 09/11/2008 1035
Date Received: 09/13/2008 0930
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8270C		Date Analyzed:	09/22/2008 1545		
Prep Method: 3510C		Date Prepared:	09/17/2008 0713		
1,2,4,5-Tetrachlorobenzene	ND	ug/L	0.19	9.4	1.0
1,2,4-Trichlorobenzene	ND	ug/L	0.23	9.4	1.0
1,3,5-Trinitrobenzene	ND	ug/L	1.1	9.4	1.0
1,4-Naphthoquinone	ND	ug/L	1.5	9.4	1.0
1-Naphthylamine	ND	ug/L	2.0	9.4	1.0
2,2'-oxybis[1-chloropropane]	ND	ug/L	0.19	9.4	1.0
2,3,4,6-Tetrachlorophenol	ND	ug/L	1.3	9.4	1.0
2,4,5-Trichlorophenol	ND	ug/L	2.5	9.4	1.0
2,4,6-Trichlorophenol	ND	ug/L	0.63	9.4	1.0
2,4-Dichlorophenol	ND	ug/L	3.0	9.4	1.0
2,4-Dimethylphenol	ND	ug/L	1.0	9.4	1.0
2,4-Dinitrophenol	ND	ug/L	2.9	47	1.0
2,4-Dinitrotoluene	ND	ug/L	0.42	9.4	1.0
2,6-Dichlorophenol	ND	ug/L	0.34	9.4	1.0
2,6-Dinitrotoluene	ND	ug/L	0.11	9.4	1.0
2-Acetylaminofluorene	ND	ug/L	1.1	19	1.0
2-Chloronaphthalene	ND	ug/L	0.16	9.4	1.0
2-Chlorophenol	ND	ug/L	0.20	9.4	1.0
2-Methylnaphthalene	ND	ug/L	0.15	9.4	1.0
2-Methylphenol	ND	ug/L	0.41	9.4	1.0
2-Naphthylamine	ND	ug/L	2.3	9.4	1.0
2-Nitroaniline	ND	ug/L	0.52	47	1.0
2-Nitrophenol	ND	ug/L	0.60	9.4	1.0
3,3'-Dichlorobenzidine	ND	ug/L	0.24	19	1.0
3-Methylcholanthrene	ND	ug/L	1.0	9.4	1.0
3-Nitroaniline	ND	ug/L	0.94	47	1.0
4,6-Dinitro-2-methylphenol	ND	ug/L	1.7	47	1.0
4-Aminobiphenyl	ND	ug/L	1.7	19	1.0
4-Bromophenyl phenyl ether	ND	ug/L	0.15	9.4	1.0
4-Chloro-3-methylphenol	ND	ug/L	2.3	19	1.0
4-Chloroaniline	ND	ug/L	0.74	19	1.0
4-Chlorophenyl phenyl ether	ND	ug/L	0.23	9.4	1.0
4-Nitroaniline	ND	ug/L	2.2	19	1.0
4-Nitrophenol	ND	ug/L	2.3	47	1.0
5-Nitro-o-toluidine	ND	ug/L	0.94	9.4	1.0
7,12-Dimethylbenz(a)anthracene	ND	ug/L	1.7	9.4	1.0
Acenaphthene	ND	ug/L	0.055	9.4	1.0
Acenaphthylene	ND	ug/L	0.055	9.4	1.0
Acetophenone	ND	ug/L	0.25	9.4	1.0

Ms. Betsy Sara
TestAmerica Laboratories, Inc.
4955 Yarrow Street
Arvada, CO 80002

Job Number: 500-13999-1

Client Sample ID: MW09R
Lab Sample ID: 500-13999-1

Date Sampled: 09/11/2008 1035
Date Received: 09/13/2008 0930
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
N-Nitrosodimethylamine	ND		ug/L	2.6	9.4	1.0
N-Nitrosodi-n-butylamine	ND		ug/L	0.17	9.4	1.0
N-Nitrosodi-n-propylamine	ND		ug/L	0.14	9.4	1.0
N-Nitrosodiphenylamine	ND		ug/L	0.19	9.4	1.0
N-Nitrosomethylethylamine	ND		ug/L	0.70	9.4	1.0
N-Nitrosopiperidine	ND		ug/L	0.21	19	1.0
N-Nitrosopyrrolidine	ND		ug/L	0.19	9.4	1.0
O,O,O-Triethylphosphorothioate	ND		ug/L	0.91	9.4	1.0
o-Toluidine	ND		ug/L	0.59	9.4	1.0
Ethyl Parathion	ND		ug/L	1.5	9.4	1.0
p-Dimethylamino azobenzene	ND		ug/L	1.1	9.4	1.0
Pentachlorobenzene	ND		ug/L	0.17	9.4	1.0
Pentachloronitrobenzene	ND		ug/L	0.73	19	1.0
Pentachlorophenol	ND		ug/L	2.0	24	1.0
Phenacetin	ND		ug/L	1.4	19	1.0
Phenanthrene	ND		ug/L	0.067	9.4	1.0
Phenol	ND		ug/L	1.2	9.4	1.0
Phorate	ND		ug/L	1.2	9.4	1.0
Pronamide	ND		ug/L	0.60	9.4	1.0
Pyrene	ND	*	ug/L	0.067	9.4	1.0
Safrole	ND		ug/L	0.44	9.4	1.0
Thionazin	ND		ug/L	1.3	19	1.0
3 & 4 Methylphenol	ND		ug/L	0.18	1.9	1.0

Surrogate			Acceptance Limits
2,4,6-Tribromophenol	65	%	37 - 134
2-Fluorobiphenyl	62	%	37 - 120
2-Fluorophenol	39	%	20 - 110
Nitrobenzene-d5	69	%	36 - 120
Phenol-d5	24	%	20 - 110
Terphenyl-d14	74	%	24 - 134

Method: 8081A Date Analyzed: 09/17/2008 1721
Prep Method: 3510C Date Prepared: 09/16/2008 0934

4,4'-DDD	0.018	J	ug/L	0.0053	0.093	1.0
4,4'-DDE	ND		ug/L	0.0045	0.093	1.0
4,4'-DDT	ND		ug/L	0.0050	0.093	1.0
Aldrin	ND		ug/L	0.0040	0.047	1.0
alpha-BHC	ND		ug/L	0.0031	0.047	1.0
beta-BHC	ND		ug/L	0.0033	0.047	1.0
Chlordane (technical)	ND		ug/L	0.014	0.47	1.0
delta-BHC	ND		ug/L	0.0071	0.047	1.0

DATA REPORTING QUALIFIERS

Client: TestAmerica Laboratories, Inc. Job Number: 500-13999-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
GC Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: TestAmerica Laboratories, Inc. Job Number: 500-13999-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 500-47599					
LCS 500-47599/2-A	Lab Control Spike	T	Water	3510C	
LCSD 500-47599/3-A	Lab Control Spike Duplicate	T	Water	3510C	
MB 500-47599/1-A	Method Blank	T	Water	3510C	
500-13999-1	MW09R	T	Water	3510C	
Analysis Batch:500-48105					
LCS 500-47599/2-A	Lab Control Spike	T	Water	8270C	500-47599
LCSD 500-47599/3-A	Lab Control Spike Duplicate	T	Water	8270C	500-47599
MB 500-47599/1-A	Method Blank	T	Water	8270C	500-47599
500-13999-1	MW09R	T	Water	8270C	500-47599

Report Basis
T = Total

GC Semi VOA					
Prep Batch: 500-47466					
LCS 500-47466/2-A	Lab Control Spike	T	Water	8151A	
MB 500-47466/1-A	Method Blank	T	Water	8151A	
500-13999-1	MW09R	T	Water	8151A	
Prep Batch: 500-47512					
LCS 500-47512/2-A	Lab Control Spike	T	Water	3510C	
LCSD 500-47512/3-A	Lab Control Spike Duplicate	T	Water	3510C	
MB 500-47512/1-A	Method Blank	T	Water	3510C	
500-13999-1	MW09R	T	Water	3510C	
Analysis Batch:500-47904					
LCS 500-47466/2-A	Lab Control Spike	T	Water	8151A	500-47466
MB 500-47466/1-A	Method Blank	T	Water	8151A	500-47466
500-13999-1	MW09R	T	Water	8151A	500-47466
Analysis Batch:500-48014					
LCS 500-47512/2-A	Lab Control Spike	T	Water	8081A	500-47512
LCSD 500-47512/3-A	Lab Control Spike Duplicate	T	Water	8081A	500-47512
MB 500-47512/1-A	Method Blank	T	Water	8081A	500-47512
500-13999-1	MW09R	T	Water	8081A	500-47512

Report Basis
T = Total

Client: TestAmerica Laboratories, Inc.

Job Number: 500-13999-1

Surrogate Recovery Report

8081A Pesticides

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
500-13999-1	MW09R	73	80
MB 500-47512/1-A		73	76
LCS 500-47512/2-A		43	79
LCSD 500-47512/3-A		36	78

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	20-117
TCX = Tetrachloro-m-xylene	44-124

Client: TestAmerica Laboratories, Inc.

Job Number: 500-13999-1

Method Blank - Batch: 500-47599

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 500-47599/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/22/2008 1423
Date Prepared: 09/17/2008 0713

Analysis Batch: 500-48105
Prep Batch: 500-47599
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 47599MA.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,2,4,5-Tetrachlorobenzene	ND		0.20	10
1,2,4-Trichlorobenzene	ND		0.24	10
1,3,5-Trinitrobenzene	ND		1.2	10
1,4-Naphthoquinone	ND		1.6	10
1-Naphthylamine	ND		2.1	10
2,2'-oxybis[1-chloropropane]	ND		0.20	10
2,3,4,6-Tetrachlorophenol	ND		1.4	10
2,4,5-Trichlorophenol	ND		2.6	10
2,4,6-Trichlorophenol	ND		0.67	10
2,4-Dichlorophenol	ND		3.2	10
2,4-Dimethylphenol	ND		1.1	10
2,4-Dinitrophenol	ND		3.1	50
2,4-Dinitrotoluene	ND		0.45	10
2,6-Dichlorophenol	ND		0.36	10
2,6-Dinitrotoluene	ND		0.12	10
2-Acetylaminofluorene	ND		1.2	20
2-Chloronaphthalene	ND		0.17	10
2-Chlorophenol	ND		0.21	10
2-Methylnaphthalene	ND		0.16	10
2-Methylphenol	ND		0.43	10
2-Naphthylamine	ND		2.4	10
2-Nitroaniline	ND		0.55	50
2-Nitrophenol	ND		0.64	10
3,3'-Dichlorobenzidine	ND		0.25	20
3-Methylcholanthrene	ND		1.1	10
3-Nitroaniline	ND		1.0	50
4,6-Dinitro-2-methylphenol	ND		1.8	50
4-Aminobiphenyl	ND		1.8	20
4-Bromophenyl phenyl ether	ND		0.16	10
4-Chloro-3-methylphenol	ND		2.4	20
4-Chloroaniline	ND		0.78	20
4-Chlorophenyl phenyl ether	ND		0.24	10
4-Nitroaniline	ND		2.3	20
4-Nitrophenol	ND		2.4	50
5-Nitro-o-toluidine	ND		1.0	10
7,12-Dimethylbenz(a)anthracene	ND		1.8	10
Acenaphthene	ND		0.058	10
Acenaphthylene	ND		0.058	10
Acetophenone	ND		0.27	10
Anthracene	ND		0.068	10
Benzo[a]anthracene	ND		0.066	10

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

Client: TestAmerica Laboratories, Inc.

Job Number: 500-13999-1

Method Blank - Batch: 500-47599

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 500-47599/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/22/2008 1423
Date Prepared: 09/17/2008 0713

Analysis Batch: 500-48105
Prep Batch: 500-47599
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 47599MA.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodi-n-propylamine	ND		0.15	10
N-Nitrosodiphenylamine	ND		0.20	10
N-Nitrosomethylethylamine	ND		0.74	10
N-Nitrosopiperidine	ND		0.22	20
N-Nitrosopyrrolidine	ND		0.20	10
O,O,O-Triethylphosphorothioate	ND		0.96	10
o-Toluidine	ND		0.63	10
Ethyl Parathion	ND		1.6	10
p-Dimethylamino azobenzene	ND		1.2	10
Pentachlorobenzene	ND		0.18	10
Pentachloronitrobenzene	ND		0.77	20
Pentachlorophenol	ND		2.1	25
Phenacetin	ND		1.5	20
Phenanthrene	ND		0.071	10
Phenol	ND		1.3	10
Phorate	ND		1.3	10
Pronamide	ND		0.64	10
Pyrene	ND		0.071	10
Safrole	ND		0.47	10
Thionazin	ND		1.4	20
3 & 4 Methylphenol	ND		0.19	2.0

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	46	37 - 134
2-Fluorobiphenyl	50	37 - 120
2-Fluorophenol	32	20 - 110
Nitrobenzene-d5	61	36 - 120
Phenol-d5	26	20 - 110
Terphenyl-d14	83	24 - 134

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

Client: TestAmerica Laboratories, Inc.

Job Number: 500-13999-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 500-47599

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 500-47599/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/22/2008 2033
Date Prepared: 09/17/2008 0713

Analysis Batch: 500-48105
Prep Batch: 500-47599
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 47599BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 500-47599/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/22/2008 2054
Date Prepared: 09/17/2008 0713

Analysis Batch: 500-48105
Prep Batch: 500-47599
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973
Lab File ID: 47599BD.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1.0 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzyl alcohol	80	76	44 - 110	5	20		
Bis(2-chloroethoxy)methane	79	74	57 - 110	6	20		
Bis(2-chloroethyl)ether	72	76	46 - 110	5	20		
Bis(2-ethylhexyl) phthalate	101	87	56 - 124	14	20		
Butyl benzyl phthalate	116	97	59 - 126	18	20		
Chrysene	89	77	59 - 122	15	20		
Dibenz(a,h)anthracene	76	79	57 - 110	4	20		
Dibenzofuran	78	75	56 - 110	3	20		
Diethyl phthalate	84	76	58 - 110	10	20		
Dimethyl phthalate	80	76	61 - 110	5	20		
Di-n-butyl phthalate	93	88	60 - 112	5	20		
Di-n-octyl phthalate	130	96	52 - 118	30	20	*	*
Fluoranthene	90	84	58 - 110	7	20		
Fluorene	76	75	55 - 110	1	20		
Hexachlorobenzene	70	67	61 - 115	4	20		
Hexachlorobutadiene	69	65	40 - 114	6	20		
Hexachloroethane	72	68	35 - 110	5	20		
Indeno[1,2,3-cd]pyrene	77	82	55 - 110	6	20		
Isophorone	74	71	49 - 110	4	20		
Naphthalene	76	73	47 - 110	4	20		
Nitrobenzene	78	75	55 - 110	5	20		
N-Nitrosodimethylamine	59	59	20 - 110	0	20		
N-Nitrosodi-n-propylamine	72	73	48 - 110	1	20		
N-Nitrosodiphenylamine	103	99	54 - 110	4	20		
Pentachlorophenol	89	79	38 - 115	12	20		
Phenanthrene	83	84	58 - 110	2	20		
Phenol	46	42	20 - 110	8	20		
Pyrene	127	84	58 - 131	40	20		*
3 & 4 Methylphenol	66	64	28 - 110	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	85	82	37 - 134

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

Client: TestAmerica Laboratories, Inc.

Job Number: 500-13999-1

Method Blank - Batch: 500-47512

Method: 8081A
Preparation: 3510C

Lab Sample ID: MB 500-47512/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2008 1606
Date Prepared: 09/16/2008 0934

Analysis Batch: 500-48014
Prep Batch: 500-47512
Units: ug/L

Instrument ID: HP 6890 GC
Lab File ID: 09150815_080.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	ND		0.0057	0.10
4,4'-DDE	ND		0.0048	0.10
4,4'-DDT	ND		0.0054	0.10
Aldrin	ND		0.0043	0.050
alpha-BHC	ND		0.0033	0.050
beta-BHC	ND		0.0035	0.050
Chlordane (technical)	ND		0.015	0.50
delta-BHC	ND		0.0076	0.050
Dieldrin	ND		0.0044	0.075
Endosulfan I	ND		0.0027	0.10
Endosulfan II	ND		0.0038	0.10
Endosulfan sulfate	ND		0.0079	0.10
Endrin	ND		0.0086	0.10
Endrin aldehyde	ND		0.0069	0.10
gamma-BHC (Lindane)	ND		0.0035	0.050
Heptachlor	ND		0.0040	0.050
Heptachlor epoxide	ND		0.0039	0.075
Kepone	ND		0.20	20
Methoxychlor	ND		0.011	1.0
Toxaphene	ND		0.051	1.5

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	73	20 - 117
Tetrachloro-m-xylene	76	44 - 124

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

Client: TestAmerica Laboratories, Inc.

Job Number: 500-13999-1

Method Blank - Batch: 500-47466

Method: 8151A
Preparation: 8151A

Lab Sample ID: MB 500-47466/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/18/2008 1805
Date Prepared: 09/15/2008 1514

Analysis Batch: 500-47904
Prep Batch: 500-47466
Units: ug/L

Instrument ID: HP 5890 GC
Lab File ID: 09180830_013.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	ND		0.045	2.0
2,4-D	ND		0.41	2.0
Dinoseb	ND		0.042	1.0
Silvex (2,4,5-TP)	ND		0.024	2.0

Surrogate	% Rec	Acceptance Limits
DCAA	117	31 - 135

Lab Control Spike - Batch: 500-47466

Method: 8151A
Preparation: 8151A

Lab Sample ID: LCS 500-47466/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/18/2008 1836
Date Prepared: 09/15/2008 1514

Analysis Batch: 500-47904
Prep Batch: 500-47466
Units: ug/L

Instrument ID: HP 5890 GC
Lab File ID: 09180830_014.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	1.00	0.884	88	30 - 120	J
2,4-D	4.60	3.32	72	20 - 120	
Dinoseb	1.02	0.578	57	10 - 120	J
Silvex (2,4,5-TP)	1.00	0.697	70	30 - 120	J

Surrogate	% Rec	Acceptance Limits
DCAA	112	31 - 135

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

Login Sample Receipt Check List

Client: TestAmerica Laboratories, Inc.

Job Number: 500-13999-1

Login Number: 13999
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

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	
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	
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	

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 3406-MW09R	Lab ID: CB10111-01	Sampled: 09/11/08 10:35	Received: 09/12/08 10:40

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270C	09/18/08	10/25/08	09/15/08	14:33	9/18/2008 21:58

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ANALYTICAL RESULTS

Description: 3406-MW09R
Matrix: Water
Project: Piedmont Landfill

Lab Sample ID: C810111-01
Sampled: 09/11/08 10:35
Sampled By: client

Received: 09/12/08 10:40
Work Order: C810111

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Phenylenediamine [106-50-3]	4.0	U	ug/L	1	4.0	10	10	EPA 8270C	09/18/08 21:58	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270C	09/18/08 21:58	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270C	09/18/08 21:58	DFM	
Hexachloropropene [1888-71-7] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270C	09/18/08 21:58	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*85*	*1*	*100*	*85 %*	*32-129*	*8I15023*	*EPA 8270C*	*09/18/08 21:58*	*DFM*	
2-Fluorobiphenyl	*43*	*1*	*50.0*	*86 %*	*21-121*	*8I15023*	*EPA 8270C*	*09/18/08 21:58*	*DFM*	
2-Fluorophenol	*55*	*1*	*100*	*55 %*	*10-98*	*8I15023*	*EPA 8270C*	*09/18/08 21:58*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*33-116*	*8I15023*	*EPA 8270C*	*09/18/08 21:58*	*DFM*	
Phenol-d5	*42*	*1*	*100*	*42 %*	*10-81*	*8I15023*	*EPA 8270C*	*09/18/08 21:58*	*DFM*	
Terphenyl-d14	*48*	*1*	*50.0*	*96 %*	*45-125*	*8I15023*	*EPA 8270C*	*09/18/08 21:58*	*DFM*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 8I15023 - EPA 3510C_MS

Matrix Spike Dup (8I15023-MSD1) Continued Prepared: 09/15/2008 14:33 Analyzed: 09/18/2008 21:33

Source: C810201-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pyrene	52		10	ug/L	50.0	2.0 U	103	76-105	2	20	

Chain of Custody Record

Sampler ID: ____

Temperature on Receipt: ____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-289 (1003)

Client	Test America Denver
Project Manager	Betsy Sara
Date	9-11-08
Chain of Custody Number	103834
Address	4955 Yarrow St
Telephone (Number/Area Code)/Fax Number	(303)736-0189
Lab Number	
Page	1 of 1
City	Arvada
State	CO
Zip Code	80002
Site Contact	
Lab Contact	
Project Name and Location (State)	Piedmont CF (WMI)
Carrier/Waybill Number	
Contract/Purchase Order/Quote No.	1W 26714-J

Analysis (Attach list if more space is needed): 8270C

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	HNO3	HCl	NaOH	ZnAc/NaOH	8270C	Special Instructions/ Conditions of Receipt
3400-MW09R	9-11-08	1035		X			2					2	080111

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	9-11-08	1800	1. Received By: Buana Gregory	9/12/08	10:40
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 4.0°C

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

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APPENDIX A – PART 2

LABORATORY ANALYTICAL RESULTS

Surface Water Monitoring Points

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project No. Site 134

Piedmont Landfill

Lot #: D8I120281

Surfacewater

Al Lacsamana

Waste Management Inc.
Southern Area
1000 Parkwood Circle
Suite 700
Atlanta, GA 30339

Cc: Van Burbach

TestAmerica Denver
North Carolina Certification # 358

Betsy Sara
Project Manager

September 25, 2008

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

Table Of Contents

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

EXECUTIVE SUMMARY - Detection Highlights

D8I120281

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S01 09/10/08 17:30 001				
Arsenic	0.31 B	10	ug/L	SW846 6020
Copper	0.86 B	10	ug/L	SW846 6020
Selenium	1.1 B,J	10	ug/L	SW846 6020
Zinc	2.2 B	10	ug/L	SW846 6020
Barium	39 B,J	100	ug/L	SW846 6010B
Vanadium	1.4 B	25	ug/L	SW846 6010B
cis-1,2-Dichloroethene	0.26 J	5.0	ug/L	SW846 8260B
Field eH (Redox)	30.6		mV	NONE Field eH (Re
Field Temperature	19.1	--	deg C	MCAWW 170.1
Field pH	7.14	0.1	No Units	MCAWW 150.1
Field Conductivity	142	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	4.1	0.5	mg/L	MCAWW 360.1
Field Turbidity	7.6		NTU	MCAWW 180.1
S02 09/10/08 17:00 002				
Arsenic	0.27 B	10	ug/L	SW846 6020
Copper	1.1 B	10	ug/L	SW846 6020
Selenium	1.1 B,J	10	ug/L	SW846 6020
Barium	32 B,J	100	ug/L	SW846 6010B
Vanadium	2.5 B	25	ug/L	SW846 6010B
Field eH (Redox)	61.0		mV	NONE Field eH (Re
Field Temperature	19.8	--	deg C	MCAWW 170.1
Field pH	6.95	0.1	No Units	MCAWW 150.1
Field Conductivity	137	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	4.2	0.5	mg/L	MCAWW 360.1
Field Turbidity	5.6		NTU	MCAWW 180.1
S03 09/10/08 17:50 003				
Copper	1.3 B	10	ug/L	SW846 6020
Selenium	1.0 B,J	10	ug/L	SW846 6020
Zinc	4.3 B	10	ug/L	SW846 6020
Barium	28 B,J	100	ug/L	SW846 6010B
Vanadium	2.7 B	25	ug/L	SW846 6010B
Chromium	0.96 B	10	ug/L	SW846 6010B
Field eH (Redox)	30.0		mV	NONE Field eH (Re
Field Temperature	19.7	--	deg C	MCAWW 170.1
Field pH	7.28	0.1	No Units	MCAWW 150.1
Field Conductivity	99	1	umhos/cm	MCAWW 120.1
Field Dissolved Oxygen	4.2	0.5	mg/L	MCAWW 360.1

(Continued on next page)

PREPARATION METHODS SUMMARY

D8I120281

PREPARATION DESCRIPTION	PREPARATION METHOD	ANALYTICAL METHOD
********		MCAWW 180.1
********		MCAWW 360.1
********		NONE Field eH (
Acid Digestion for Total Metals by ICPMS	SW846 3020A	SW846 6020
Acid Digestion for Total Recoverable Metals	SW846 3005A	SW846 6010B
Field pH	MCAWW 150.1	MCAWW 150.1
Field Conductivity	MCAWW 120.1	MCAWW 120.1
Field Temperature	MCAWW 170.1	MCAWW 170.1
25 mL Purge-and-Trap	SW846 5030B/826	SW846 8260B

References:

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

NONE

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D8I120281

ANALYTICAL METHOD	ANALYST	ANALYST ID
MCAWW 120.1	Outside Lab	OUT
MCAWW 150.1	Outside Lab	OUT
MCAWW 170.1	Outside Lab	OUT
MCAWW 180.1	Outside Lab	OUT
MCAWW 360.1	Outside Lab	OUT
NONE Field eH (Redox)	Outside Lab	OUT
SW846 6010B	David Wells	005099
SW846 6010B	David Wells	5099
SW846 6020	Thomas Lill	6929
SW846 8260B	Greg Meier	006004

References:

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

NONE

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

Waste Management, Inc.

Client Sample ID: S01

GC/MS Volatiles

Lot-Sample #...: D8I120281-001 **Work Order #...:** KWR1L1AA **Matrix.....:** WATER
Date Sampled...: 09/10/08 17:30 **Date Received..:** 09/12/08
Prep Date.....: 09/18/08 **Analysis Date..:** 09/18/08
Prep Batch #...: 8263087 **Analysis Time..:** 09:05
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	1.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
Carbon disulfide	ND	100	ug/L	0.45
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	5.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
1,1-Dichloroethane	ND	5.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
1,2-Dichloroethane	ND	1.0	ug/L	0.13
1,1-Dichloroethene	ND	5.0	ug/L	0.14
cis-1,2-Dichloroethene	**0.26 J**	**5.0**	**ug/L**	**0.15**
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.13
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.16
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	1.0	ug/L	0.29
2-Hexanone	ND	50	ug/L	1.4
Iodomethane	ND	10	ug/L	0.23
Methylene chloride	ND	1.0	ug/L	0.32
4-Methyl-2-pentanone	ND	100	ug/L	1.0
Styrene	ND	1.0	ug/L	0.17
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	0.17
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L	0.20
Tetrachloroethene	ND	1.0	ug/L	0.20
Toluene	ND	1.0	ug/L	0.17
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16

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Waste Management, Inc.

Client Sample ID: S02

GC/MS Volatiles

Lot-Sample #...: D8I120281-002 **Work Order #...:** KWR1M1AA **Matrix.....:** WATER
Date Sampled...: 09/10/08 17:00 **Date Received..:** 09/12/08
Prep Date.....: 09/18/08 **Analysis Date..:** 09/18/08
Prep Batch #...: 8263087 **Analysis Time..:** 09:23
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	1.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
Carbon disulfide	ND	100	ug/L	0.45
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	5.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
1,1-Dichloroethane	ND	5.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
1,2-Dichloroethane	ND	1.0	ug/L	0.13
1,1-Dichloroethene	ND	5.0	ug/L	0.14
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.15
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.13
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.16
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	1.0	ug/L	0.29
2-Hexanone	ND	50	ug/L	1.4
Iodomethane	ND	10	ug/L	0.23
Methylene chloride	ND	1.0	ug/L	0.32
4-Methyl-2-pentanone	ND	100	ug/L	1.0
Styrene	ND	1.0	ug/L	0.17
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	0.17
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L	0.20
Tetrachloroethene	ND	1.0	ug/L	0.20
Toluene	ND	1.0	ug/L	0.17
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16

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Waste Management, Inc.

Client Sample ID: S03

GC/MS Volatiles

Lot-Sample #...: D8I120281-003 Work Order #...: KWR1N1AA Matrix.....: WATER
Date Sampled...: 09/10/08 17:50 Date Received..: 09/12/08
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263087 Analysis Time..: 09:42
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L	0.20
Tetrachloroethene	ND	1.0	ug/L	0.20
Toluene	ND	1.0	ug/L	0.17
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	1.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
Carbon disulfide	ND	100	ug/L	0.45
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	5.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
1,1-Dichloroethane	ND	5.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
1,2-Dichloroethane	ND	1.0	ug/L	0.13
1,1-Dichloroethene	ND	5.0	ug/L	0.14
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.15
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.13
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.16
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	1.0	ug/L	0.29
2-Hexanone	ND	50	ug/L	1.4
Iodomethane	ND	10	ug/L	0.23
Methylene chloride	ND	1.0	ug/L	0.32
4-Methyl-2-pentanone	ND	100	ug/L	1.0
Styrene	ND	1.0	ug/L	0.17
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	0.17
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16

(Continued on next page)

Waste Management, Inc.

Client Sample ID: S04

GC/MS Volatiles

Lot-Sample #...: D8I120281-004 **Work Order #...:** KWR1P1AA **Matrix.....:** WATER
Date Sampled...: 09/10/08 18:05 **Date Received..:** 09/12/08
Prep Date.....: 09/18/08 **Analysis Date..:** 09/18/08
Prep Batch #...: 8263087 **Analysis Time..:** 10:01
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	1.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
Carbon disulfide	ND	100	ug/L	0.45
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	5.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
1,1-Dichloroethane	ND	5.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
1,2-Dichloroethane	ND	1.0	ug/L	0.13
1,1-Dichloroethene	ND	5.0	ug/L	0.14
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.15
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.13
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.16
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	1.0	ug/L	0.29
2-Hexanone	ND	50	ug/L	1.4
Iodomethane	ND	10	ug/L	0.23
Methylene chloride	ND	1.0	ug/L	0.32
4-Methyl-2-pentanone	ND	100	ug/L	1.0
Styrene	ND	1.0	ug/L	0.17
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	0.17
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L	0.20
Tetrachloroethene	ND	1.0	ug/L	0.20
Toluene	ND	1.0	ug/L	0.17
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16

(Continued on next page)

Waste Management, Inc.

Client Sample ID: S05

GC/MS Volatiles

Lot-Sample #...: D8I120281-005 **Work Order #...:** KWR1T1AA **Matrix.....:** WATER
Date Sampled...: 09/10/08 17:10 **Date Received..:** 09/12/08
Prep Date.....: 09/18/08 **Analysis Date..:** 09/18/08
Prep Batch #...: 8263087 **Analysis Time..:** 10:19
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	1.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
Carbon disulfide	ND	100	ug/L	0.45
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	5.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
1,1-Dichloroethane	ND	5.0	ug/L	0.16
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
1,2-Dichloroethane	ND	1.0	ug/L	0.13
1,1-Dichloroethene	ND	5.0	ug/L	0.14
cis-1,2-Dichloroethene	**0.17 J**	**5.0**	**ug/L**	**0.15**
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.13
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.16
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	1.0	ug/L	0.29
2-Hexanone	ND	50	ug/L	1.4
Iodomethane	ND	10	ug/L	0.23
Methylene chloride	ND	1.0	ug/L	0.32
4-Methyl-2-pentanone	ND	100	ug/L	1.0
Styrene	ND	1.0	ug/L	0.17
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	0.17
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L	0.20
Tetrachloroethene	ND	1.0	ug/L	0.20
Toluene	ND	1.0	ug/L	0.17
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16

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Waste Management, Inc.

Client Sample ID: TRIP

GC/MS Volatiles

Lot-Sample #...: D8I120281-006 Work Order #...: KWR1V1AA Matrix.....: WATER
Date Sampled...: 09/10/08 Date Received..: 09/12/08
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263087 Analysis Time..: 10:38
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	1.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
Carbon disulfide	ND	100	ug/L	0.45
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	5.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
1,1-Dichloroethane	ND	5.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.13
1,1-Dichloroethene	ND	5.0	ug/L	0.14
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.15
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.13
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.16
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	1.0	ug/L	0.29
2-Hexanone	ND	50	ug/L	1.4
Iodomethane	ND	10	ug/L	0.23
Methylene chloride	ND	1.0	ug/L	0.32
4-Methyl-2-pentanone	ND	100	ug/L	1.0
Styrene	ND	1.0	ug/L	0.17
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	0.17
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L	0.20
Tetrachloroethene	ND	1.0	ug/L	0.20
Toluene	ND	1.0	ug/L	0.17
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16

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Waste Management, Inc.

Client Sample ID: S01

TOTAL Metals

Lot-Sample #...: D8I120281-001 **Matrix.....:** WATER
Date Sampled...: 09/10/08 17:30 **Date Received..:** 09/12/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8259389						
Arsenic	**0.31 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1L1AF**
		Dilution Factor: 1		Analysis Time..: 07:51	MDL.....: 0.21	
Cadmium	ND	1.0	ug/L	SW846 6020	09/16-09/18/08	KWR1L1AG
		Dilution Factor: 1		Analysis Time..: 07:51	MDL.....: 0.040	
Antimony	ND	6.0	ug/L	SW846 6020	09/16-09/18/08	KWR1L1AH
		Dilution Factor: 1		Analysis Time..: 07:51	MDL.....: 0.070	
Thallium	ND	5.5	ug/L	SW846 6020	09/16-09/18/08	KWR1L1AJ
		Dilution Factor: 1		Analysis Time..: 07:51	MDL.....: 0.020	
Copper	**0.86 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1L1AK**
		Dilution Factor: 1		Analysis Time..: 07:51	MDL.....: 0.56	
Selenium	**1.1 B,J**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1L1AL**
		Dilution Factor: 1		Analysis Time..: 07:51	MDL.....: 0.70	
Zinc	**2.2 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1L1AM**
		Dilution Factor: 1		Analysis Time..: 07:51	MDL.....: 2.0	
Prep Batch #...: 8259402						
Barium	**39 B,J**	**100**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1L1AD**
		Dilution Factor: 1		Analysis Time..: 20:00	MDL.....: 0.58	
Vanadium	**1.4 B**	**25**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1L1AE**
		Dilution Factor: 1		Analysis Time..: 20:00	MDL.....: 1.1	
Beryllium	ND	1.0	ug/L	SW846 6010B	09/16/08	KWR1L1AN
		Dilution Factor: 1		Analysis Time..: 20:00	MDL.....: 0.47	
Silver	ND	10	ug/L	SW846 6010B	09/16/08	KWR1L1AP
		Dilution Factor: 1		Analysis Time..: 20:00	MDL.....: 0.93	
Cobalt	ND	10	ug/L	SW846 6010B	09/16/08	KWR1L1AQ
		Dilution Factor: 1		Analysis Time..: 20:00	MDL.....: 1.2	
Chromium	ND	10	ug/L	SW846 6010B	09/16/08	KWR1L1AR
		Dilution Factor: 1		Analysis Time..: 20:00	MDL.....: 0.66	

(Continued on next page)

Waste Management, Inc.

Client Sample ID: S02

TOTAL Metals

Lot-Sample #...: D8I120281-002 Matrix.....: WATER
Date Sampled...: 09/10/08 17:00 Date Received..: 09/12/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8259389						
Arsenic	**0.27 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1M1AF**
		Dilution Factor: 1		Analysis Time..: 07:55	MDL.....: 0.21	
Cadmium	ND	1.0	ug/L	SW846 6020	09/16-09/18/08	KWR1M1AG
		Dilution Factor: 1		Analysis Time..: 07:55	MDL.....: 0.040	
Antimony	ND	6.0	ug/L	SW846 6020	09/16-09/18/08	KWR1M1AH
		Dilution Factor: 1		Analysis Time..: 07:55	MDL.....: 0.070	
Thallium	ND	5.5	ug/L	SW846 6020	09/16-09/18/08	KWR1M1AJ
		Dilution Factor: 1		Analysis Time..: 07:55	MDL.....: 0.020	
Copper	**1.1 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1M1AK**
		Dilution Factor: 1		Analysis Time..: 07:55	MDL.....: 0.56	
Selenium	**1.1 B,J**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1M1AL**
		Dilution Factor: 1		Analysis Time..: 07:55	MDL.....: 0.70	
Zinc	ND	10	ug/L	SW846 6020	09/16-09/18/08	KWR1M1AM
		Dilution Factor: 1		Analysis Time..: 07:55	MDL.....: 2.0	
Prep Batch #...: 8259402						
Barium	**32 B,J**	**100**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1M1AD**
		Dilution Factor: 1		Analysis Time..: 20:04	MDL.....: 0.58	
Vanadium	**2.5 B**	**25**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1M1AE**
		Dilution Factor: 1		Analysis Time..: 20:04	MDL.....: 1.1	
Beryllium	ND	1.0	ug/L	SW846 6010B	09/16/08	KWR1M1AN
		Dilution Factor: 1		Analysis Time..: 20:04	MDL.....: 0.47	
Silver	ND	10	ug/L	SW846 6010B	09/16/08	KWR1M1AP
		Dilution Factor: 1		Analysis Time..: 20:04	MDL.....: 0.93	
Cobalt	ND	10	ug/L	SW846 6010B	09/16/08	KWR1M1AQ
		Dilution Factor: 1		Analysis Time..: 20:04	MDL.....: 1.2	
Chromium	ND	10	ug/L	SW846 6010B	09/16/08	KWR1M1AR
		Dilution Factor: 1		Analysis Time..: 20:04	MDL.....: 0.66	

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Waste Management, Inc.

Client Sample ID: S03

TOTAL Metals

Lot-Sample #...: D8I120281-003 Matrix.....: WATER
Date Sampled...: 09/10/08 17:50 Date Received..: 09/12/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8259389						
Arsenic	ND	10	ug/L	SW846 6020	09/16-09/18/08	KWR1N1AF
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.21	
Cadmium	ND	1.0	ug/L	SW846 6020	09/16-09/18/08	KWR1N1AG
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.040	
Antimony	ND	6.0	ug/L	SW846 6020	09/16-09/18/08	KWR1N1AH
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.070	
Thallium	ND	5.5	ug/L	SW846 6020	09/16-09/18/08	KWR1N1AJ
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.020	
Copper	**1.3 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1N1AK**
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.56	
Selenium	**1.0 B,J**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1N1AL**
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.70	
Zinc	**4.3 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1N1AM**
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 2.0	
Prep Batch #...: 8259402						
Barium	**28 B,J**	**100**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1N1AD**
		Dilution Factor: 1		Analysis Time..: 20:08	MDL.....: 0.58	
Vanadium	**2.7 B**	**25**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1N1AE**
		Dilution Factor: 1		Analysis Time..: 20:08	MDL.....: 1.1	
Beryllium	ND	1.0	ug/L	SW846 6010B	09/16/08	KWR1N1AN
		Dilution Factor: 1		Analysis Time..: 20:08	MDL.....: 0.47	
Silver	ND	10	ug/L	SW846 6010B	09/16/08	KWR1N1AP
		Dilution Factor: 1		Analysis Time..: 20:08	MDL.....: 0.93	
Cobalt	ND	10	ug/L	SW846 6010B	09/16/08	KWR1N1AQ
		Dilution Factor: 1		Analysis Time..: 20:08	MDL.....: 1.2	
Chromium	**0.96 B**	**10**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1N1AR**
		Dilution Factor: 1		Analysis Time..: 20:08	MDL.....: 0.66	

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Waste Management, Inc.

Client Sample ID: S04

TOTAL Metals

Lot-Sample #...: D8I120281-004 **Matrix.....:** WATER
Date Sampled...: 09/10/08 18:05 **Date Received..:** 09/12/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8259389						
Arsenic	**0.21 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1P1AF**
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....: 0.21	
Cadmium	ND	1.0	ug/L	SW846 6020	09/16-09/18/08	KWR1P1AG
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....: 0.040	
Antimony	ND	6.0	ug/L	SW846 6020	09/16-09/18/08	KWR1P1AH
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....: 0.070	
Thallium	ND	5.5	ug/L	SW846 6020	09/16-09/18/08	KWR1P1AJ
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....: 0.020	
Copper	**1.0 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1P1AK**
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....: 0.56	
Selenium	**0.91 B,J**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1P1AL**
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....: 0.70	
Zinc	**2.7 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1P1AM**
		Dilution Factor: 1		Analysis Time..: 08:34	MDL.....: 2.0	
Prep Batch #...: 8259402						
Barium	**31 B,J**	**100**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1P1AD**
		Dilution Factor: 1		Analysis Time..: 20:12	MDL.....: 0.58	
Vanadium	**2.5 B**	**25**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1P1AE**
		Dilution Factor: 1		Analysis Time..: 20:12	MDL.....: 1.1	
Beryllium	ND	1.0	ug/L	SW846 6010B	09/16/08	KWR1P1AN
		Dilution Factor: 1		Analysis Time..: 20:12	MDL.....: 0.47	
Silver	ND	10	ug/L	SW846 6010B	09/16/08	KWR1P1AP
		Dilution Factor: 1		Analysis Time..: 20:12	MDL.....: 0.93	
Cobalt	ND	10	ug/L	SW846 6010B	09/16/08	KWR1P1AQ
		Dilution Factor: 1		Analysis Time..: 20:12	MDL.....: 1.2	
Chromium	ND	10	ug/L	SW846 6010B	09/16/08	KWR1P1AR
		Dilution Factor: 1		Analysis Time..: 20:12	MDL.....: 0.66	

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Waste Management, Inc.

Client Sample ID: S05

TOTAL Metals

Lot-Sample #...: D8I120281-005 **Matrix.....:** WATER
Date Sampled...: 09/10/08 17:10 **Date Received..:** 09/12/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8259389						
Arsenic	**0.26 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1T1AF**
		Dilution Factor: 1		Analysis Time..: 08:39	MDL.....: 0.21	
Cadmium	ND	1.0	ug/L	SW846 6020	09/16-09/18/08	KWR1T1AG
		Dilution Factor: 1		Analysis Time..: 08:39	MDL.....: 0.040	
Antimony	ND	6.0	ug/L	SW846 6020	09/16-09/18/08	KWR1T1AH
		Dilution Factor: 1		Analysis Time..: 08:39	MDL.....: 0.070	
Thallium	ND	5.5	ug/L	SW846 6020	09/16-09/18/08	KWR1T1AJ
		Dilution Factor: 1		Analysis Time..: 08:39	MDL.....: 0.020	
Copper	**0.76 B**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1T1AK**
		Dilution Factor: 1		Analysis Time..: 08:39	MDL.....: 0.56	
Selenium	**0.88 B,J**	**10**	**ug/L**	**SW846 6020**	**09/16-09/18/08**	**KWR1T1AL**
		Dilution Factor: 1		Analysis Time..: 08:39	MDL.....: 0.70	
Zinc	ND	10	ug/L	SW846 6020	09/16-09/18/08	KWR1T1AM
		Dilution Factor: 1		Analysis Time..: 08:39	MDL.....: 2.0	
Prep Batch #...: 8259402						
Barium	**39 B,J**	**100**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1T1AD**
		Dilution Factor: 1		Analysis Time..: 20:16	MDL.....: 0.58	
Vanadium	**1.6 B**	**25**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWR1T1AE**
		Dilution Factor: 1		Analysis Time..: 20:16	MDL.....: 1.1	
Beryllium	ND	1.0	ug/L	SW846 6010B	09/16/08	KWR1T1AN
		Dilution Factor: 1		Analysis Time..: 20:16	MDL.....: 0.47	
Silver	ND	10	ug/L	SW846 6010B	09/16/08	KWR1T1AP
		Dilution Factor: 1		Analysis Time..: 20:16	MDL.....: 0.93	
Cobalt	ND	10	ug/L	SW846 6010B	09/16/08	KWR1T1AQ
		Dilution Factor: 1		Analysis Time..: 20:16	MDL.....: 1.2	
Chromium	ND	10	ug/L	SW846 6010B	09/16/08	KWR1T1AR
		Dilution Factor: 1		Analysis Time..: 20:16	MDL.....: 0.66	

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Waste Management, Inc.

Client Sample ID: S01

General Chemistry

Lot-Sample #...: D8I120281-001 Work Order #...: KWR1L Matrix.....: WATER
Date Sampled...: 09/10/08 17:30 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Field eH (Redox)	30.6		mV	NONE Field eH (Re	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:30	MDL.....:	
Field pH	7.14	0.1	No Units	MCAWW 150.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:30	MDL.....:	
Field Conductivity	142	1	umhos/cm	MCAWW 120.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:30	MDL.....:	
Field Dissolved Oxygen	4.1	0.5	mg/L	MCAWW 360.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:30	MDL.....: 0.01	
Field Temperature	19.1	--	deg C	MCAWW 170.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:30	MDL.....:	
Field Turbidity	7.6		NTU	MCAWW 180.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:30	MDL.....:	

Waste Management, Inc.

Client Sample ID: S03

General Chemistry

Lot-Sample #...: D8I120281-003 Work Order #...: KWR1N Matrix.....: WATER
Date Sampled...: 09/10/08 17:50 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Field eH (Redox)	30.0		mV	NONE Field eH (Re	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:50	MDL.....:	
Field pH	7.28	0.1	No Units	MCAWW 150.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:50	MDL.....:	
Field Conductivity	99	1	umhos/cm	MCAWW 120.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:50	MDL.....:	
Field Dissolved Oxygen	4.2	0.5	mg/L	MCAWW 360.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:50	MDL.....: 0.01	
Field Temperature	19.7	--	deg C	MCAWW 170.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:50	MDL.....:	
Field Turbidity	8.8		NTU	MCAWW 180.1	09/10/08	8259354
		Dilution Factor: 1		Analysis Time..: 17:50	MDL.....:	

Waste Management, Inc.

Client Sample ID: S05

General Chemistry

Lot-Sample #...: D8I120281-005 Work Order #...: KWR1T Matrix.....: WATER
Date Sampled...: 09/10/08 17:10 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Field eH (Redox)	75.8		mV	NONE Field eH (Re	09/10/08	8259355
		Dilution Factor: 1		Analysis Time..: 17:10	MDL.....:	
Field pH	7.02	0.1	No Units	MCAWW 150.1	09/10/08	8259355
		Dilution Factor: 1		Analysis Time..: 17:10	MDL.....:	
Field Conductivity	149	1	umhos/cm	MCAWW 120.1	09/10/08	8259355
		Dilution Factor: 1		Analysis Time..: 17:10	MDL.....:	
Field Dissolved Oxygen	4.0	0.5	mg/L	MCAWW 360.1	09/10/08	8259355
		Dilution Factor: 1		Analysis Time..: 17:10	MDL.....: 0.01	
Field Temperature	19.7	--	deg C	MCAWW 170.1	09/10/08	8259355
		Dilution Factor: 1		Analysis Time..: 17:10	MDL.....:	
Field Turbidity	6.4		NTU	MCAWW 180.1	09/10/08	8259355
		Dilution Factor: 1		Analysis Time..: 17:10	MDL.....:	

QC DATA ASSOCIATION SUMMARY

D8I120281

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
005	WATER	MCAWW 120.1		8259355	
	WATER	MCAWW 360.1		8259355	
	WATER	SW846 6020		8259389	8259249
	WATER	SW846 8260B		8263087	8263169
	WATER	SW846 6010B		8259402	8259251
	WATER	MCAWW 180.1		8259355	
006	WATER	SW846 8260B		8263087	8263169

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8I120281 Work Order #...: KW75R1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	50	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	5.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	100	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(79 - 119)
1,2-Dichloroethane-d4	103	(65 - 126)
4-Bromofluorobenzene	93	(75 - 115)
Toluene-d8	101	(78 - 118)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120281 Work Order #...: KW75R1AC Matrix.....: WATER
LCS Lot-Sample#: D8I190000-087
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263087 Analysis Time..: 06:36
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	5.00	5.07	ug/L	101	SW846 8260B
Benzene	5.00	4.82	ug/L	96	SW846 8260B
Chlorobenzene	5.00	4.69	ug/L	94	SW846 8260B
Toluene	5.00	5.06	ug/L	101	SW846 8260B
Trichloroethene	5.00	5.06	ug/L	101	SW846 8260B
Chloroform	5.00	4.91	ug/L	98	SW846 8260B
1,1-Dichloroethane	5.00	4.96	ug/L	99	SW846 8260B
1,2-Dichloropropane	5.00	4.65	ug/L	93	SW846 8260B
Ethylbenzene	5.00	4.62	ug/L	92	SW846 8260B
Methylene chloride	5.00	5.48	ug/L	110	SW846 8260B
Tetrachloroethene	5.00	4.82	ug/L	96	SW846 8260B
1,1,1-Trichloroethane	5.00	4.91	ug/L	98	SW846 8260B
Carbon tetrachloride	5.00	4.70	ug/L	94	SW846 8260B
trans-1,2-Dichloroethene	5.00	5.42	ug/L	108	SW846 8260B
Bromodichloromethane	5.00	4.50	ug/L	90	SW846 8260B
1,3-Dichlorobenzene	5.00	4.64	ug/L	93	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(79 - 119)
1,2-Dichloroethane-d4	101	(65 - 126)
4-Bromofluorobenzene	98	(75 - 115)
Toluene-d8	103	(78 - 118)

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 Volatiles

Client Lot #...: D8I120281 **Work Order #...:** KWREF1DA-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I120214-001 KWREF1DC-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	94	(75 - 115)
	96	(75 - 115)
Toluene-d8	102	(78 - 118)
	102	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120281 **Work Order #...:** KWREF1DA-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I120214-001 KWREF1DC-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	94	(75 - 115)
	96	(75 - 115)
Toluene-d8	102	(78 - 118)
	102	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8I120281 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	10	ug/L	SW846 6010B	09/16/08	KWW7F1AR
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Cobalt	ND	10	ug/L	SW846 6010B	09/16/08	KWW7F1AT
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Chromium	ND	10	ug/L	SW846 6010B	09/16/08	KWW7F1AJ
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Lead	ND	10	ug/L	SW846 6010B	09/16/08	KWW7F1AM
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Nickel	ND	50	ug/L	SW846 6010B	09/16/08	KWW7F1AL
		Dilution Factor: 1				
		Analysis Time..: 19:22				

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

TOTAL Metals

Client Lot #...: D8I120281 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	100	(89 - 110)	SW846 6010B	09/16/08	KWW7F1A6
		Dilution Factor: 1	Analysis Time..: 19:27		
Nickel	96	(89 - 111)	SW846 6010B	09/16/08	KWW7F1A5
		Dilution Factor: 1	Analysis Time..: 19:27		

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120281 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	500	498	ug/L	100	SW846 6010B	09/16/08	KWW7F1A6
			Dilution Factor: 1		Analysis Time..: 19:27		
Nickel	500	482	ug/L	96	SW846 6010B	09/16/08	KWW7F1A5
			Dilution Factor: 1		Analysis Time..: 19:27		

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120281 **Matrix.....:** WATER
Date Sampled...: 09/10/08 17:50 **Date Received..:** 09/12/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120281-003 **Prep Batch #...:** 8259389									
Arsenic									
	ND	40.0	41.1	ug/L	102		SW846 6020	09/16-09/18/08	KWR1N1A3
	ND	40.0	40.9	ug/L	102	0.48	SW846 6020	09/16-09/18/08	KWR1N1A4
			Dilution Factor: 1						
			Analysis Time..: 08:24						
Cadmium									
	ND	40.0	39.7	ug/L	99		SW846 6020	09/16-09/18/08	KWR1N1A5
	ND	40.0	40.0	ug/L	100	0.80	SW846 6020	09/16-09/18/08	KWR1N1A6
			Dilution Factor: 1						
			Analysis Time..: 08:24						
Antimony									
	ND	40.0	39.7	ug/L	99		SW846 6020	09/16-09/18/08	KWR1N1A7
	ND	40.0	39.4	ug/L	98	0.80	SW846 6020	09/16-09/18/08	KWR1N1A8
			Dilution Factor: 1						
			Analysis Time..: 08:24						
Thallium									
	ND	40.0	40.4	ug/L	101		SW846 6020	09/16-09/18/08	KWR1N1A9
	ND	40.0	40.4	ug/L	101	0.19	SW846 6020	09/16-09/18/08	KWR1N1CA
			Dilution Factor: 1						
			Analysis Time..: 08:24						
Copper									
	1.3	40.0	42.0	ug/L	102		SW846 6020	09/16-09/18/08	KWR1N1CC
	1.3	40.0	41.4	ug/L	100	1.4	SW846 6020	09/16-09/18/08	KWR1N1CD
			Dilution Factor: 1						
			Analysis Time..: 08:24						
Selenium									
	1.0	40.0	41.5	ug/L	101		SW846 6020	09/16-09/18/08	KWR1N1CE
	1.0	40.0	40.8	ug/L	99	1.7	SW846 6020	09/16-09/18/08	KWR1N1CF
			Dilution Factor: 1						
			Analysis Time..: 08:24						
Zinc									
	4.3	40.0	41.8	ug/L	94		SW846 6020	09/16-09/18/08	KWR1N1CG
	4.3	40.0	41.2	ug/L	92	1.5	SW846 6020	09/16-09/18/08	KWR1N1CH
			Dilution Factor: 1						
			Analysis Time..: 08:24						

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120281 **Matrix.....:** WATER
Date Sampled...: 09/11/08 14:10 **Date Received..:** 09/12/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120207-001 **Prep Batch #...:** 8259402									
Barium									
	390	2000	2430	ug/L	102		SW846 6010B	09/16/08	KWRCM1C5
	390	2000	2410	ug/L	101	0.98	SW846 6010B	09/16/08	KWRCM1C6
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Vanadium									
	62	500	577	ug/L	103		SW846 6010B	09/16/08	KWRCM1DJ
	62	500	568	ug/L	101	1.4	SW846 6010B	09/16/08	KWRCM1DK
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Beryllium									
	1.1	50.0	53.2	ug/L	104		SW846 6010B	09/16/08	KWRCM1DU
	1.1	50.0	52.6	ug/L	103	1.0	SW846 6010B	09/16/08	KWRCM1DV
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Silver									
	0.98	50.0	51.7	ug/L	101		SW846 6010B	09/16/08	KWRCM1DN
	0.98	50.0	51.0	ug/L	100	1.4	SW846 6010B	09/16/08	KWRCM1DP
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Cobalt									
	35	500	521	ug/L	97		SW846 6010B	09/16/08	KWRCM1DQ
	35	500	518	ug/L	97	0.40	SW846 6010B	09/16/08	KWRCM1DR
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Chromium									
	78	200	280	ug/L	101		SW846 6010B	09/16/08	KWRCM1C7
	78	200	274	ug/L	98	1.9	SW846 6010B	09/16/08	KWRCM1C8
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Lead									
	8.4	500	498	ug/L	98		SW846 6010B	09/16/08	KWRCM1DE
	8.4	500	495	ug/L	97	0.61	SW846 6010B	09/16/08	KWRCM1DF
			Dilution Factor: 1						
			Analysis Time..: 19:39						

(Continued on next page)

Chain of Custody Record

AC 3.0
IRI
9/12/8

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (1007)

Client: WM	Project Manager: AL LACSAMANA	Date: 9-11-08	Chain of Custody Number: 101448
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
City / State: NC / Zip Code	Site Contact	Lab Contact: Betsy Sure	
Project Name and Location (State): Piedmont Site 134	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 26744-D			

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		VOAs	Total Metals	Special Instructions/ Conditions of Receipt
S01	9-10	1730		X						1	3				3	1	
S02	9-10	1700		X						1	3				3	1	
S03	9-10	1750		X						1	3				3	1	
S04	9-10	1805		X						1	3				3	1	
S05	9-10	1710		X						1	3				3	1	
TRIP	9-10	—		X							X				X		

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	9-11-08	1800	1. Received By: Lisa Miller	9/12/08	1000
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

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TestAmerica

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: 502 (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: 002

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
091008	—	—	—	—	—

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

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

X-Other: Sample Bottle

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)
17:00	NA	1st 6.95	1st 137	19.8	56	4.2	610	
		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 ____
091008	6.95	137	19.8	56	4.2	610	

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: CLEAR Odor: None Color: None Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Cloudy 70's Precipitation: Y or (N)

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

FIELD COMMENTS

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
9/10/08	Dan Armour	[signature]	Pro-Tech

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: S04 (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: 054

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
09 10 08	—	—	—	—	—

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

X-Other: SAMPLE BOTTLES

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)
1805	NA	1st	7.14	1st	101	19.9	9.4	3.7	72.3	
		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
09 10 08	7.14	101	19.9	9.4	3.7	72.3	

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: CLEAR Odor: NONE Color: NONE Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: Cloudy 65°F Precipitation: Y or (N)

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

STREAM IS BACKED UP ON BOTH SIDES OF THE ROAD MAKING LARGE PONDS - SAMPLE COLLECTED IN POND @ CULVERT

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
9/10/08	DAN ARMOUR	[signature]	PRO-TECH

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

APPENDIX A – PART 3

LABORATORY ANALYTICAL RESULTS

Leachate

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project No. Site 134

Piedmont Landfill

Lot #: D8I120207

Leachate

Al Lacsamana

Waste Management Inc.
Southern Area
1000 Parkwood Circle
Suite 700
Atlanta, GA 30339

Cc: Van Burbach

TestAmerica Denver
North Carolina Certification # 358

Betsy Sara
Project Manager

September 25, 2008

Table Of Contents

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

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

The percent recoveries and/or the relative percent difference of the MS/MSD performed on sample 3406-T01 were not calculated for Total Iron, Total Sodium and Total Copper during Method 6010B analysis because the sample concentration was greater than four times the spike amount.

Sample 3406-T01 was selected to fulfill the laboratory batch quality control requirements for Method 7470A. Analysis of the laboratory generated MS/MSD for this sample provided recoveries of Total Mercury below the lower control limit indicating the possible presence of a matrix interference.

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.

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

Organics

The Method 8260B surrogate recovery of 1,2-Dichloroethane-d4 was above control limits for sample 3406-T01. Because the chromatograms exhibited clear evidence of matrix interference and all other quality control samples met acceptance criteria, corrective action was deemed unnecessary.

The Method 8260B reporting limits for the sample 3406-T01 are elevated due to high levels of target analytes.

General Chemistry

The seed correction value for the BOD analysis was 0.4 mg/L, below the normal range of 0.6 mg/L to 1.0 mg/L. The LCS and method blank were in control; therefore no further corrective action was taken.

EXECUTIVE SUMMARY - Detection Highlights

D8I120207

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
3406-T01 09/11/08 14:10 001				
Field pH	7.51	0.1	No Units	MCAWW 150.1
Field Conductivity	7307	1	umhos/cm	MCAWW 120.1
Total phosphorus	0.042 B	0.050	mg/L	MCAWW 365.3
Field Dissolved Oxygen	0.2	0.5	mg/L	MCAWW 360.1
Total Organic Carbon	200 Q	8.0	mg/L	SM18 5310B
Total Dissolved Solids	2900 Q	20	mg/L	SM18 2540 C
Total Suspended Solids	41	4.0	mg/L	SM18 2540 D
Total Alkalinity	2200	5.0	mg/L	SM18 2320 B
Field Turbidity	14.7		NTU	MCAWW 180.1
Ammonia as N	480 Q	4.0	mg/L	MCAWW 350.1
Chemical Oxygen Demand (COD)	560 Q	250	mg/L	MCAWW 410.4
Sulfate	50 G	50	mg/L	ASTM D516-02
TRIP 09/11/08 002				
Methylene chloride	0.59 J,B	5.5	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

D8I120207

PARAMETER	ANALYTICAL METHOD
	NONE Field eH (Redox)
Alkalinity, Total	SM18 2320 B
Bicarbonate alkalinity	SM18 2320 B
Biochemical Oxygen Demand	SM18 5210 B
Carbonate Alkalinity	SM18 2320 B
Chemical Oxygen Demand	MCAWW 410.4
Chloride	MCAWW 300.0A
Field pH	MCAWW 150.1
Field Conductivity	MCAWW 120.1
Field Dissolved Oxygen	MCAWW 360.1
Field Temperature	MCAWW 170.1
Field Turbidity	MCAWW 180.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
ICP-MS (6020)	SW846 6020
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate	MCAWW 353.2
Nitrogen, Ammonia	MCAWW 350.1
Sulfate	ASTM D516-02
Total phosphorus	MCAWW 365.3
Total Dissolved Solids	SM18 2540 C
Total Organic Carbon by Combustion-Infrared	SM18 5310B
Total Suspended Solids	SM18 2540 D
Volatile Organics by GC/MS	SW846 8260B

References:

ASTM Annual Book Of ASTM Standards.

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

NONE

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

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D8I120207

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KWRCM	001	3406-T01	09/11/08	14:10
KWRCN	002	TRIP	09/11/08	

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: 3406-T01

GC/MS Volatiles

Lot-Sample #...: D8I120207-001 Work Order #...: KWRCM1AG Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	**2.1 J**	**5.0**	**ug/L**	**0.17**
1,1,1-Trichloroethane	ND	5.0	ug/L	0.16
1,1,2-Trichloroethane	ND	5.0	ug/L	0.32
Trichloroethene	**0.86 J**	**3.0**	**ug/L**	**0.16**
Trichlorofluoromethane	ND	5.0	ug/L	0.29
1,2,3-Trichloropropane	ND	8.0	ug/L	0.77
Vinyl acetate	ND	50	ug/L	0.94
Vinyl chloride	**0.57 J**	**5.5**	**ug/L**	**0.40**
Xylenes (total)	**11**	**4.0**	**ug/L**	**0.19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 119)
1,2-Dichloroethane-d4	130 *	(65 - 126)
4-Bromofluorobenzene	99	(75 - 115)
Toluene-d8	97	(78 - 118)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

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

Waste Management, Inc.

Client Sample ID: TRIP

GC/MS Volatiles

Lot-Sample #...: D8I120207-002 **Work Order #...:** KWRCN1AA **Matrix.....:** WATER
Date Sampled...: 09/11/08 **Date Received..:** 09/12/08
Prep Date.....: 09/22/08 **Analysis Date..:** 09/22/08
Prep Batch #...: 8267082 **Analysis Time..:** 09:20
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	100	ug/L	1.9
Acrylonitrile	ND	200	ug/L	1.4
Benzene	ND	3.0	ug/L	0.16
Bromochloromethane	ND	3.0	ug/L	0.10
Bromodichloromethane	ND	3.0	ug/L	0.17
Bromoform	ND	3.0	ug/L	0.19
Bromomethane	ND	10	ug/L	0.21
2-Butanone (MEK)	ND	100	ug/L	1.8
Carbon disulfide	ND	100	ug/L	0.45
Carbon tetrachloride	ND	5.5	ug/L	0.19
Chlorobenzene	ND	3.0	ug/L	0.17
Dibromochloromethane	ND	3.0	ug/L	0.17
Chloroethane	ND	10	ug/L	0.41
Chloroform	ND	5.0	ug/L	0.16
Chloromethane	ND	5.5	ug/L	0.30
1,2-Dibromo-3-chloropropane (DBCP)	ND	13	ug/L	1.5
1,2-Dibromoethane (EDB)	ND	3.0	ug/L	0.18
Dibromomethane	ND	10	ug/L	0.17
1,2-Dichlorobenzene	ND	10	ug/L	0.13
1,4-Dichlorobenzene	ND	3.0	ug/L	0.16
trans-1,4-Dichloro-2-butene	ND	100	ug/L	0.80
1,1-Dichloroethane	ND	5.0	ug/L	0.16
1,2-Dichloroethane	ND	3.0	ug/L	0.13
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.15
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.15
1,1-Dichloroethene	ND	5.0	ug/L	0.14
1,2-Dichloropropane	ND	3.0	ug/L	0.13
cis-1,3-Dichloropropene	ND	5.5	ug/L	0.16
trans-1,3-Dichloropropene	ND	5.5	ug/L	0.19
Ethylbenzene	ND	5.0	ug/L	0.16
2-Hexanone	ND	50	ug/L	1.4
Iodomethane	ND	10	ug/L	0.23
Methylene chloride	**0.59 J,B**	**5.5**	**ug/L**	**0.32**
4-Methyl-2-pentanone	ND	100	ug/L	1.0
Styrene	ND	10	ug/L	0.17
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	0.17

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Waste Management, Inc.

Client Sample ID: 3406-T01

TOTAL Metals

Lot-Sample #...: D8I120207-001 Matrix.....: WATER
Date Sampled...: 09/11/08 14:10 Date Received..: 09/12/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8259389						
Thallium	0.24 B	1.0	ug/L	SW846 6020	09/16-09/18/08	KWRCM1AA
		Dilution Factor: 1		Analysis Time..: 07:46	MDL.....: 0.020	
Cadmium	0.40 B	1.0	ug/L	SW846 6020	09/16-09/18/08	KWRCM1AC
		Dilution Factor: 1		Analysis Time..: 07:46	MDL.....: 0.040	
Arsenic	43	5.0	ug/L	SW846 6020	09/16-09/18/08	KWRCM1AD
		Dilution Factor: 1		Analysis Time..: 07:46	MDL.....: 0.21	
Beryllium	0.98 B	10	ug/L	SW846 6020	09/16-09/18/08	KWRCM1AE
		Dilution Factor: 10		Analysis Time..: 22:06	MDL.....: 0.80	
Antimony	24	2.0	ug/L	SW846 6020	09/16-09/18/08	KWRCM1AF
		Dilution Factor: 1		Analysis Time..: 07:46	MDL.....: 0.070	
Prep Batch #...: 8259402						
Potassium	190000 J	30000	ug/L	SW846 6010B	09/16-09/17/08	KWRCM1AM
		Dilution Factor: 10		Analysis Time..: 21:35	MDL.....: 2400	
Magnesium	34000	200	ug/L	SW846 6010B	09/16/08	KWRCM1AN
		Dilution Factor: 1		Analysis Time..: 19:31	MDL.....: 11	
Calcium	45000 J	200	ug/L	SW846 6010B	09/16/08	KWRCM1AR
		Dilution Factor: 1		Analysis Time..: 19:31	MDL.....: 34	
Manganese	1600	10	ug/L	SW846 6010B	09/16/08	KWRCM1AT
		Dilution Factor: 1		Analysis Time..: 19:31	MDL.....: 0.25	
Iron	28000	100	ug/L	SW846 6010B	09/16/08	KWRCM1AU
		Dilution Factor: 1		Analysis Time..: 19:31	MDL.....: 22	
Sodium	740000 J	50000	ug/L	SW846 6010B	09/16-09/17/08	KWRCM1AV
		Dilution Factor: 10		Analysis Time..: 21:35	MDL.....: 920	
Barium	390 J	100	ug/L	SW846 6010B	09/16/08	KWRCM1AW
		Dilution Factor: 1		Analysis Time..: 19:31	MDL.....: 0.58	
Chromium	78	10	ug/L	SW846 6010B	09/16/08	KWRCM1AX
		Dilution Factor: 1		Analysis Time..: 19:31	MDL.....: 0.66	

(Continued on next page)

Waste Management, Inc.

Client Sample ID: 3406-T01

General Chemistry

Lot-Sample #...: D8I120207-001 Work Order #...: KWRCM Matrix.....: WATER
Date Sampled...: 09/11/08 14:10 Date Received..: 09/12/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N	**480 Q**	**4.0**	**mg/L**	**MCAWW 350.1**	**09/19/08**	**8264121**
		Dilution Factor: 100		Analysis Time..: 12:45	MDL.....: 2.2	
Bicarbonate Alkalinity	**2200**	**5.0**	**mg/L**	**SM18 2320 B**	**09/15/08**	**8260152**
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Biochemical Oxygen Demand (BOD)	ND G	10	mg/L	SM18 5210 B	09/12/08	8256501
		Dilution Factor: 5		Analysis Time..: 13:30	MDL.....: 1.5	
Carbonate Alkalinity	ND	5.0	mg/L	SM18 2320 B	09/15/08	8260180
		Dilution Factor: 1		Analysis Time..: 14:00	MDL.....: 1.1	
Chemical Oxygen Demand (COD)	**560 Q**	**250**	**mg/L**	**MCAWW 410.4**	**09/16/08**	**8261312**
		Dilution Factor: 5		Analysis Time..: 12:00	MDL.....: 20	
Chloride	**990 Q**	**15**	**mg/L**	**MCAWW 300.0A**	**09/17/08**	**8262274**
		Dilution Factor: 50		Analysis Time..: 17:10	MDL.....: 13	
Field eH (Redox)	**-226.6**		**mV**	**NONE Field eH (Re**	**09/11/08**	**8259333**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....:	
Field pH	**7.51**	**0.1**	**No Units**	**MCAWW 150.1**	**09/11/08**	**8259333**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....:	
Field Conductivity	**7307**	**1**	**umhos/cm**	**MCAWW 120.1**	**09/11/08**	**8259333**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....:	
Field Dissolved Oxygen	**0.2**	**0.5**	**mg/L**	**MCAWW 360.1**	**09/11/08**	**8259333**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....: 0.01	
Field Temperature	**19.4**	**--**	**deg C**	**MCAWW 170.1**	**09/11/08**	**8259333**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....:	
Field Turbidity	**14.7**		**NTU**	**MCAWW 180.1**	**09/11/08**	**8259333**
		Dilution Factor: 1		Analysis Time..: 14:10	MDL.....:	
Nitrate	ND	0.50	mg/L	MCAWW 353.2	09/12/08	8267622
		Dilution Factor: 1		Analysis Time..: 18:00	MDL.....: 0.019	
Sulfate	**50 G**	**50**	**mg/L**	**ASTM D516-02**	**09/18/08**	**8262548**
		Dilution Factor: 10		Analysis Time..: 16:00	MDL.....: 49	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

D8I120207

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SM18 2320 B		8260152	
	WATER	MCAWW 353.2		8267622	
	WATER	MCAWW 300.0A		8262274	8262253
	WATER	NONE Field eH (Re		8259333	
	WATER	MCAWW 170.1		8259333	
	WATER	MCAWW 150.1		8259333	
	WATER	MCAWW 120.1		8259333	
	WATER	MCAWW 365.3		8263482	8266063
	WATER	MCAWW 360.1		8259333	
	WATER	SM18 2320 B		8260180	
	WATER	SM18 5210 B		8256501	8261229
	WATER	SM18 5310B		8259473	8259274
	WATER	SM18 2540 C		8259474	8263164
	WATER	SM18 2540 D		8259445	8262267
	WATER	SM18 2320 B		8260147	8260126
	WATER	SW846 6020		8259389	8259249
	WATER	SW846 7470A		8261089	8261038
	WATER	SW846 8260B		8267082	8267052
	WATER	SW846 6010B		8259402	8259251
	WATER	MCAWW 180.1		8259333	
	WATER	MCAWW 350.1		8264121	8264070
	WATER	MCAWW 410.4		8261312	8261187
	WATER	ASTM D516-02		8262548	8263059
002	WATER	SW846 8260B		8267082	8267052

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8I120207 **Work Order #...:** KXD6A1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260B
Trichloroethene	ND	3.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	5.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	8.0	ug/L	SW846 8260B
Vinyl acetate	ND	50	ug/L	SW846 8260B
Vinyl chloride	ND	5.5	ug/L	SW846 8260B
Xylenes (total)	ND	4.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(79 - 119)
1,2-Dichloroethane-d4	112	(65 - 126)
4-Bromofluorobenzene	98	(75 - 115)
Toluene-d8	101	(78 - 118)

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120207 Work Order #...: KXD6A1AC Matrix.....: WATER
LCS Lot-Sample#: D8I230000-082
Prep Date.....: 09/22/08 Analysis Date..: 09/22/08
Prep Batch #...: 8267082 Analysis Time..: 08:39
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**5.00**	**4.45**	**ug/L**	**89**	**SW846 8260B**
1,3-Dichlorobenzene	**5.00**	**4.47**	**ug/L**	**89**	**SW846 8260B**
Bromodichloromethane	**5.00**	**4.58**	**ug/L**	**92**	**SW846 8260B**
Carbon tetrachloride	**5.00**	**4.81**	**ug/L**	**96**	**SW846 8260B**
Chlorobenzene	**5.00**	**4.46**	**ug/L**	**89**	**SW846 8260B**
Chloroform	**5.00**	**4.52**	**ug/L**	**90**	**SW846 8260B**
1,1-Dichloroethane	**5.00**	**4.51**	**ug/L**	**90**	**SW846 8260B**
trans-1,2-Dichloroethene	**5.00**	**4.22**	**ug/L**	**84**	**SW846 8260B**
1,1-Dichloroethene	**5.00**	**4.29**	**ug/L**	**86**	**SW846 8260B**
1,2-Dichloropropane	**5.00**	**4.63**	**ug/L**	**93**	**SW846 8260B**
Ethylbenzene	**5.00**	**4.48**	**ug/L**	**90**	**SW846 8260B**
Methylene chloride	**5.00**	**5.02**	**ug/L**	**100**	**SW846 8260B**
Tetrachloroethene	**5.00**	**4.67**	**ug/L**	**93**	**SW846 8260B**
Toluene	**5.00**	**4.63**	**ug/L**	**93**	**SW846 8260B**
1,1,1-Trichloroethane	**5.00**	**4.82**	**ug/L**	**96**	**SW846 8260B**
Trichloroethene	**5.00**	**5.12**	**ug/L**	**102**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(79 - 119)
1,2-Dichloroethane-d4	113	(65 - 126)
4-Bromofluorobenzene	102	(75 - 115)
Toluene-d8	97	(78 - 118)

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 Volatiles

Client Lot #...: D8I120207 **Work Order #...:** KW6921AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I190118-010 KW6921AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(75 - 115)
	98	(75 - 115)
Toluene-d8	101	(78 - 118)
	99	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8I120207 **Work Order #...:** KW6921AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D8I190118-010 KW6921AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(75 - 115)
	98	(75 - 115)
Toluene-d8	101	(78 - 118)
	99	(78 - 118)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8I120207 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**280 B**	**5000**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWW7F1AG**
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Barium	**0.74 B**	**100**	**ug/L**	**SW846 6010B**	**09/16/08**	**KWW7F1AH**
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Chromium	ND	10	ug/L	SW846 6010B	09/16/08	KWW7F1AJ
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Copper	ND	15	ug/L	SW846 6010B	09/16/08	KWW7F1AK
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Nickel	ND	50	ug/L	SW846 6010B	09/16/08	KWW7F1AL
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Lead	ND	10	ug/L	SW846 6010B	09/16/08	KWW7F1AM
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Selenium	ND	15	ug/L	SW846 6010B	09/16/08	KWW7F1AN
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Vanadium	ND	25	ug/L	SW846 6010B	09/16/08	KWW7F1AP
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Zinc	ND	20	ug/L	SW846 6010B	09/16/08	KWW7F1AQ
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Silver	ND	10	ug/L	SW846 6010B	09/16/08	KWW7F1AR
		Dilution Factor: 1				
		Analysis Time..: 19:22				
Cobalt	ND	10	ug/L	SW846 6010B	09/16/08	KWW7F1AT
		Dilution Factor: 1				
		Analysis Time..: 19:22				

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8I120207 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D8I150000-389 **Prep Batch #...:** 8259389					
Thallium	102	(85 - 118)	SW846 6020	09/16-09/18/08	KWW6K1AM
		Dilution Factor: 1	Analysis Time..: 07:41		
Cadmium	98	(85 - 115)	SW846 6020	09/16-09/18/08	KWW6K1AK
		Dilution Factor: 1	Analysis Time..: 07:41		
Arsenic	102	(85 - 117)	SW846 6020	09/16-09/18/08	KWW6K1AJ
		Dilution Factor: 1	Analysis Time..: 07:41		
Beryllium	99	(80 - 125)	SW846 6020	09/16-09/18/08	KWW6K1AT
		Dilution Factor: 1	Analysis Time..: 07:41		
Antimony	98	(85 - 115)	SW846 6020	09/16-09/18/08	KWW6K1AL
		Dilution Factor: 1	Analysis Time..: 07:41		
LCS Lot-Sample#: D8I150000-402 **Prep Batch #...:** 8259402					
Potassium	100	(89 - 114)	SW846 6010B	09/16/08	KWW7F1AU
		Dilution Factor: 1	Analysis Time..: 19:27		
Magnesium	97	(90 - 113)	SW846 6010B	09/16/08	KWW7F1AV
		Dilution Factor: 1	Analysis Time..: 19:27		
Calcium	100	(90 - 111)	SW846 6010B	09/16/08	KWW7F1AW
		Dilution Factor: 1	Analysis Time..: 19:27		
Manganese	98	(90 - 110)	SW846 6010B	09/16/08	KWW7F1AX
		Dilution Factor: 1	Analysis Time..: 19:27		
Iron	102	(89 - 115)	SW846 6010B	09/16/08	KWW7F1A0
		Dilution Factor: 1	Analysis Time..: 19:27		
Sodium	103	(90 - 115)	SW846 6010B	09/16/08	KWW7F1A1
		Dilution Factor: 1	Analysis Time..: 19:27		
Barium	99	(90 - 112)	SW846 6010B	09/16/08	KWW7F1A2
		Dilution Factor: 1	Analysis Time..: 19:27		
Chromium	100	(90 - 113)	SW846 6010B	09/16/08	KWW7F1A3
		Dilution Factor: 1	Analysis Time..: 19:27		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120207 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D8I150000-389 **Prep Batch #...:** 8259389							
Thallium	40.0	40.6	ug/L	102	SW846 6020	09/16-09/18/08	KWW6K1AM
			Dilution Factor: 1		Analysis Time..: 07:41		
Cadmium	40.0	39.2	ug/L	98	SW846 6020	09/16-09/18/08	KWW6K1AK
			Dilution Factor: 1		Analysis Time..: 07:41		
Arsenic	40.0	40.8	ug/L	102	SW846 6020	09/16-09/18/08	KWW6K1AJ
			Dilution Factor: 1		Analysis Time..: 07:41		
Beryllium	40.0	39.7	ug/L	99	SW846 6020	09/16-09/18/08	KWW6K1AT
			Dilution Factor: 1		Analysis Time..: 07:41		
Antimony	40.0	39.3	ug/L	98	SW846 6020	09/16-09/18/08	KWW6K1AL
			Dilution Factor: 1		Analysis Time..: 07:41		
LCS Lot-Sample#: D8I150000-402 **Prep Batch #...:** 8259402							
Potassium	50000	50100	ug/L	100	SW846 6010B	09/16/08	KWW7F1AU
			Dilution Factor: 1		Analysis Time..: 19:27		
Magnesium	50000	48700	ug/L	97	SW846 6010B	09/16/08	KWW7F1AV
			Dilution Factor: 1		Analysis Time..: 19:27		
Calcium	50000	50200	ug/L	100	SW846 6010B	09/16/08	KWW7F1AW
			Dilution Factor: 1		Analysis Time..: 19:27		
Manganese	500	492	ug/L	98	SW846 6010B	09/16/08	KWW7F1AX
			Dilution Factor: 1		Analysis Time..: 19:27		
Iron	1000	1020	ug/L	102	SW846 6010B	09/16/08	KWW7F1A0
			Dilution Factor: 1		Analysis Time..: 19:27		
Sodium	50000	51500	ug/L	103	SW846 6010B	09/16/08	KWW7F1A1
			Dilution Factor: 1		Analysis Time..: 19:27		
Barium	2000	1980	ug/L	99	SW846 6010B	09/16/08	KWW7F1A2
			Dilution Factor: 1		Analysis Time..: 19:27		
Chromium	200	200	ug/L	100	SW846 6010B	09/16/08	KWW7F1A3
			Dilution Factor: 1		Analysis Time..: 19:27		

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8I120207 **Matrix.....:** WATER
Date Sampled...: 09/10/08 17:50 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120281-003 **Prep Batch #...:** 8259389							
Thallium	101	(85 - 118)			SW846 6020	09/16-09/18/08	KWR1N1A9
	101	(85 - 118)	0.19	(0-20)	SW846 6020	09/16-09/18/08	KWR1N1CA
		Dilution Factor: 1					
		Analysis Time..: 08:24					
Cadmium	99	(85 - 115)			SW846 6020	09/16-09/18/08	KWR1N1A5
	100	(85 - 115)	0.80	(0-20)	SW846 6020	09/16-09/18/08	KWR1N1A6
		Dilution Factor: 1					
		Analysis Time..: 08:24					
Arsenic	102	(85 - 117)			SW846 6020	09/16-09/18/08	KWR1N1A3
	102	(85 - 117)	0.48	(0-20)	SW846 6020	09/16-09/18/08	KWR1N1A4
		Dilution Factor: 1					
		Analysis Time..: 08:24					
Beryllium	102	(80 - 125)			SW846 6020	09/16-09/18/08	KWR1N1CK
	100	(80 - 125)	1.3	(0-20)	SW846 6020	09/16-09/18/08	KWR1N1CL
		Dilution Factor: 1					
		Analysis Time..: 08:24					
Antimony	99	(85 - 115)			SW846 6020	09/16-09/18/08	KWR1N1A7
	98	(85 - 115)	0.80	(0-20)	SW846 6020	09/16-09/18/08	KWR1N1A8
		Dilution Factor: 1					
		Analysis Time..: 08:24					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8I120207 **Matrix.....:** WATER
Date Sampled...: 09/11/08 14:10 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120207-001 **Prep Batch #...:** 8259402							
Potassium	112	(76 - 132)			SW846 6010B	09/16-09/17/08	KWRCM1CQ
	99	(76 - 132)	2.7	(0-25)	SW846 6010B	09/16-09/17/08	KWRCM1CR
		Dilution Factor: 10					
		Analysis Time..: 21:43					
Magnesium	102	(62 - 146)			SW846 6010B	09/16/08	KWRCM1CT
	98	(62 - 146)	2.2	(0-25)	SW846 6010B	09/16/08	KWRCM1CU
		Dilution Factor: 1					
		Analysis Time..: 19:39					
Calcium	105	(48 - 153)			SW846 6010B	09/16/08	KWRCM1CV
	101	(48 - 153)	1.8	(0-25)	SW846 6010B	09/16/08	KWRCM1CW
		Dilution Factor: 1					
		Analysis Time..: 19:39					
Manganese	108	(79 - 121)			SW846 6010B	09/16/08	KWRCM1CX
	95	(79 - 121)	3.0	(0-25)	SW846 6010B	09/16/08	KWRCM1C0
		Dilution Factor: 1					
		Analysis Time..: 19:39					
Iron	NC,MSB	(52 - 155)			SW846 6010B	09/16/08	KWRCM1C1
	NC,MSB	(52 - 155)		(0-25)	SW846 6010B	09/16/08	KWRCM1C2
		Dilution Factor: 1					
		Analysis Time..: 19:39					
Sodium	NC,MSB	(70 - 203)			SW846 6010B	09/16-09/17/08	KWRCM1C3
	NC,MSB	(70 - 203)		(0-40)	SW846 6010B	09/16-09/17/08	KWRCM1C4
		Dilution Factor: 10					
		Analysis Time..: 21:43					
Barium	102	(85 - 120)			SW846 6010B	09/16/08	KWRCM1C5
	101	(85 - 120)	0.98	(0-25)	SW846 6010B	09/16/08	KWRCM1C6
		Dilution Factor: 1					
		Analysis Time..: 19:39					
Chromium	101	(73 - 135)			SW846 6010B	09/16/08	KWRCM1C7
	98	(73 - 135)	1.9	(0-25)	SW846 6010B	09/16/08	KWRCM1C8
		Dilution Factor: 1					
		Analysis Time..: 19:39					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8I120207 **Matrix.....:** WATER
Date Sampled...: 09/11/08 14:10 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury	69 N	(88 - 111)			SW846 7470A	09/17/08	KWRCM1DW
	70 N	(88 - 111)	1.1	(0-10)	SW846 7470A	09/17/08	KWRCM1DX

Dilution Factor: 1
Analysis Time..: 23:21

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8I120207 **Matrix.....:** WATER
Date Sampled...: 09/11/08 14:10 **Date Received..:** 09/12/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium									
	390	2000	2430	ug/L	102		SW846 6010B	09/16/08	KWRCM1C5
	390	2000	2410	ug/L	101	0.98	SW846 6010B	09/16/08	KWRCM1C6
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Chromium									
	78	200	280	ug/L	101		SW846 6010B	09/16/08	KWRCM1C7
	78	200	274	ug/L	98	1.9	SW846 6010B	09/16/08	KWRCM1C8
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Copper									
	1400	250	1680	ug/L			SW846 6010B	09/16/08	KWRCM1C9
			Qualifiers: NC,MSB						
	1400	250	1620	ug/L			SW846 6010B	09/16/08	KWRCM1DA
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Nickel									
	190	500	676	ug/L	97		SW846 6010B	09/16/08	KWRCM1DC
	190	500	669	ug/L	95	1.1	SW846 6010B	09/16/08	KWRCM1DD
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Lead									
	8.4	500	498	ug/L	98		SW846 6010B	09/16/08	KWRCM1DE
	8.4	500	495	ug/L	97	0.61	SW846 6010B	09/16/08	KWRCM1DF
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Selenium									
	ND	2000	2070	ug/L	103		SW846 6010B	09/16/08	KWRCM1DG
	ND	2000	2040	ug/L	102	1.2	SW846 6010B	09/16/08	KWRCM1DH
			Dilution Factor: 1						
			Analysis Time..: 19:39						
Vanadium									
	62	500	577	ug/L	103		SW846 6010B	09/16/08	KWRCM1DJ
	62	500	568	ug/L	101	1.4	SW846 6010B	09/16/08	KWRCM1DK
			Dilution Factor: 1						
			Analysis Time..: 19:39						

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8I120207 **Matrix.....:** WATER
Date Sampled...: 09/11/08 10:35 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8I120214-001 **Prep Batch #...:** 8261089							
Mercury	90	(88 - 111)			SW846 7470A	09/17/08	KWREF1C4
	88	(88 - 111)	2.1	(0-10)	SW846 7470A	09/17/08	KWREF1C5
		Dilution Factor: 1					
		Analysis Time..: 23:28					

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D8I120207 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		Work Order #: KXAXE1AA		MB Lot-Sample #:	D8I200000-121	
	ND	0.040	mg/L	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1				
		Analysis Time..: 12:45				
Bicarbonate Alkalinity		Work Order #: KWX0J1AA		MB Lot-Sample #:	D8I160000-152	
	ND	5.0	mg/L	SM18 2320 B	09/15/08	8260152
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Biochemical Oxygen Demand (BOD)		Work Order #: KW2531AA		MB Lot-Sample #:	D8I120000-501	
	ND	2.0	mg/L	SM18 5210 B	09/12/08	8256501
		Dilution Factor: 1				
		Analysis Time..: 11:30				
Carbonate Alkalinity		Work Order #: KWX0T1AA		MB Lot-Sample #:	D8I160000-180	
	ND	5.0	mg/L	SM18 2320 B	09/15/08	8260180
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Chemical Oxygen Demand (COD)		Work Order #: KW2QR1AA		MB Lot-Sample #:	D8I170000-312	
	ND	50	mg/L	MCAWW 410.4	09/16/08	8261312
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Chloride		Work Order #: KW5PE1AA		MB Lot-Sample #:	D8I180000-274	
	ND	0.30	mg/L	MCAWW 300.0A	09/17/08	8262274
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Nitrate		Work Order #: KXGAT1AA		MB Lot-Sample #:	D8I230000-622	
	ND	0.50	mg/L	MCAWW 353.2	09/12/08	8267622
		Dilution Factor: 1				
		Analysis Time..: 18:00				
Sulfate		Work Order #: KW65K1AA		MB Lot-Sample #:	D8I180000-548	
	ND	5.0	mg/L	ASTM D516-02	09/18/08	8262548
		Dilution Factor: 1				
		Analysis Time..: 16:00				

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D8I120207 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		WO#:KXAXE1AC-LCS/KXAXE1AD-LCSD LCS Lot-Sample#: D8I200000-121					
	100	(90 - 110)			MCAWW 350.1	09/19/08	8264121
	99	(90 - 110)	0.95	(0-10)	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1			Analysis Time..: 12:45		
Biochemical Oxygen Demand (BOD)		WO#:KW2531AC-LCS/KW2531AD-LCSD LCS Lot-Sample#: D8I120000-501					
	102	(85 - 115)			SM18 5210 B	09/12/08	8256501
	103	(85 - 115)	0.74	(0-20)	SM18 5210 B	09/12/08	8256501
		Dilution Factor: 1			Analysis Time..: 11:30		
Chemical Oxygen Demand (COD)		WO#:KW2QR1AC-LCS/KW2QR1AD-LCSD LCS Lot-Sample#: D8I170000-312					
	98	(80 - 115)			MCAWW 410.4	09/16/08	8261312
	99	(80 - 115)	1.1	(0-11)	MCAWW 410.4	09/16/08	8261312
		Dilution Factor: 1			Analysis Time..: 12:00		
Chloride		WO#:KW5PE1AC-LCS/KW5PE1AD-LCSD LCS Lot-Sample#: D8I180000-274					
	103	(90 - 110)			MCAWW 300.0A	09/17/08	8262274
	103	(90 - 110)	0.06	(0-10)	MCAWW 300.0A	09/17/08	8262274
		Dilution Factor: 1			Analysis Time..: 11:29		
Nitrate		WO#:KXGAT1AC-LCS/KXGAT1AD-LCSD LCS Lot-Sample#: D8I230000-622					
	107	(86 - 110)			MCAWW 353.2	09/12/08	8267622
	107	(86 - 110)	0.56	(0-10)	MCAWW 353.2	09/12/08	8267622
		Dilution Factor: 1			Analysis Time..: 18:00		
Sulfate		WO#:KW65K1AC-LCS/KW65K1AD-LCSD LCS Lot-Sample#: D8I180000-548					
	105	(91 - 112)			ASTM D516-02	09/18/08	8262548
	109	(91 - 112)	3.7	(0-15)	ASTM D516-02	09/18/08	8262548
		Dilution Factor: 1			Analysis Time..: 16:00		
Total phosphorus		WO#:KXCXP1AC-LCS/KXCXP1AD-LCSD LCS Lot-Sample#: D8I190000-482					
	98	(90 - 110)			MCAWW 365.3	09/17-09/19/08	8263482
	101	(90 - 110)	3.0	(0-20)	MCAWW 365.3	09/17-09/19/08	8263482
		Dilution Factor: 1			Analysis Time..: 11:00		

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D8I120207 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N			WO#:KXAXE1AC-LCS/KXAXE1AD-LCSD			LCS Lot-Sample#: D8I200000-121		
	4.00	3.98	mg/L	100		MCAWW 350.1	09/19/08	8264121
	4.00	3.94	mg/L	99	0.95	MCAWW 350.1	09/19/08	8264121
			Dilution Factor: 1			Analysis Time..: 12:45		
Biochemical Oxygen Demand (BOD)			WO#:KW2531AC-LCS/KW2531AD-LCSD			LCS Lot-Sample#: D8I120000-501		
	198	202	mg/L	102		SM18 5210 B	09/12/08	8256501
	198	204	mg/L	103	0.74	SM18 5210 B	09/12/08	8256501
			Dilution Factor: 1			Analysis Time..: 11:30		
Chemical Oxygen Demand (COD)			WO#:KW2QR1AC-LCS/KW2QR1AD-LCSD			LCS Lot-Sample#: D8I170000-312		
	100	98.1	mg/L	98		MCAWW 410.4	09/16/08	8261312
	100	99.2	mg/L	99	1.1	MCAWW 410.4	09/16/08	8261312
			Dilution Factor: 1			Analysis Time..: 12:00		
Chloride			WO#:KW5PE1AC-LCS/KW5PE1AD-LCSD			LCS Lot-Sample#: D8I180000-274		
	25.0	25.7	mg/L	103		MCAWW 300.0A	09/17/08	8262274
	25.0	25.7	mg/L	103	0.06	MCAWW 300.0A	09/17/08	8262274
			Dilution Factor: 1			Analysis Time..: 11:29		
Nitrate			WO#:KXGAT1AC-LCS/KXGAT1AD-LCSD			LCS Lot-Sample#: D8I230000-622		
	0.0500	0.0533	mg/L	107		MCAWW 353.2	09/12/08	8267622
	0.0500	0.0536	mg/L	107	0.56	MCAWW 353.2	09/12/08	8267622
			Dilution Factor: 1			Analysis Time..: 18:00		
Sulfate			WO#:KW65K1AC-LCS/KW65K1AD-LCSD			LCS Lot-Sample#: D8I180000-548		
	25.0	26.3	mg/L	105		ASTM D516-02	09/18/08	8262548
	25.0	27.3	mg/L	109	3.7	ASTM D516-02	09/18/08	8262548
			Dilution Factor: 1			Analysis Time..: 16:00		
Total phosphorus			WO#:KXCXP1AC-LCS/KXCXP1AD-LCSD			LCS Lot-Sample#: D8I190000-482		
	0.500	0.489	mg/L	98		MCAWW 365.3	09/17-09/19/08	8263482
	0.500	0.503	mg/L	101	3.0	MCAWW 365.3	09/17-09/19/08	8263482
			Dilution Factor: 1			Analysis Time..: 11:00		

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MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120207 **Matrix.....:** WATER
Date Sampled...: 09/10/08 12:15 **Date Received..:** 09/12/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ammonia as N		WO#:	KWH1H1A9-MS/KWH1H1CA-MSD			MS Lot-Sample #:	D8I090245-004
	104	(90 - 110)			MCAWW 350.1	09/19/08	8264121
	100	(90 - 110)	3.7	(0-10)	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1					
		Analysis Time..: 12:45					
Ammonia as N		WO#:	KWRFA1DG-MS/KWRFA1DH-MSD			MS Lot-Sample #:	D8I120221-004
	54 N	(90 - 110)			MCAWW 350.1	09/19/08	8264121
	54 N	(90 - 110)	0.09	(0-10)	MCAWW 350.1	09/19/08	8264121
		Dilution Factor: 1					
		Analysis Time..: 12:45					
Chemical Oxygen Demand (COD)		WO#:	KWRFA1DE-MS/KWRFA1DF-MSD			MS Lot-Sample #:	D8I120221-004
	82	(74 - 109)			MCAWW 410.4	09/16/08	8261312
	80	(74 - 109)	3.5	(0-11)	MCAWW 410.4	09/16/08	8261312
		Dilution Factor: 1					
		Analysis Time..: 12:00					
Chloride		WO#:	KWREF1C6-MS/KWREF1C7-MSD			MS Lot-Sample #:	D8I120214-001
	108	(80 - 120)			MCAWW 300.0A	09/17/08	8262274
	109	(80 - 120)	0.85	(0-20)	MCAWW 300.0A	09/17/08	8262274
		Dilution Factor: 1					
		Analysis Time..: 16:36					
Sulfate		WO#:	KWREF1C8-MS/KWREF1C9-MSD			MS Lot-Sample #:	D8I120214-001
	107	(45 - 153)			ASTM D516-02	09/18/08	8262548
	107	(45 - 153)	0.03	(0-21)	ASTM D516-02	09/18/08	8262548
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total phosphorus		WO#:	KWRCM1D0-MS/KWRCM1D1-MSD			MS Lot-Sample #:	D8I120207-001
	92	(71 - 128)			MCAWW 365.3	09/17-09/19/08	8263482
	92	(71 - 128)	0.83	(0-22)	MCAWW 365.3	09/17-09/19/08	8263482
		Dilution Factor: 1					
		Analysis Time..: 11:00					
Total Organic Carbon		WO#:	KWTJH1DD-MS/KWTJH1DE-MSD			MS Lot-Sample #:	D8I120341-007
	102	(65 - 139)			SM18 5310B	09/15/08	8259421
	102	(65 - 139)	0.59	(0-41)	SM18 5310B	09/15/08	8259421
		Dilution Factor: 1					
		Analysis Time..: 14:40					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120207 **Work Order #...:** KWN1G-SMP KWN1G-DUP **Matrix.....:** WATER

Date Sampled...: 09/11/08 09:45 **Date Received..:** 09/11/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Biochemical Oxygen Demand (BOD)						SD Lot-Sample #:	I8I110236-001	
	ND	ND	mg/L	0	(0-20)	SM18 5210 B	09/12/08	8256501
			Dilution Factor: 1			Analysis Time..: 13:30		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120207 **Work Order #...:** KWRCQ-SMP KWRCQ-DUP **Matrix.....:** WATER

Date Sampled...: 09/11/08 08:45 **Date Received..:** 09/12/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: D8I120210-001		
	140000 Q	140000 Q	mg/L	0.71	(0-20)	SM18 2540 C	09/15/08	8259474

Dilution Factor: 100 Analysis Time..: 15:30

NOTE(S):

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

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8I120207 **Work Order #...:** KWVFL-SMP KWVFL-DUP **Matrix.....:** WATER

Date Sampled...: 09/12/08 14:26 **Date Received..:** 09/13/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity						SD Lot-Sample #:	D8I130162-008	
	120	120	mg/L	0.0	(0-10)	SM18 2320 B	09/15/08	8260147

Dilution Factor: 1 Analysis Time..: 14:00

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: T01 (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: D8I120207-001

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
091108	—	—	—	—	—

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

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

X-Other: SAMPLE PORT ON LEACHATE SYSTEM

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

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

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)
14:10	NA	1st 7.51	1st 7307	19.4	14.7	0.2	226.6	
		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
091108	7.51	7307	19.4	14.7	0.2	226.6	

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: SLT CLOUDY Odor: STRONG Color: BLACK TINT Other: NO SHEEN

Weather Conditions (required daily, or as conditions change): Direction/Speed: E @ 5 Outlook: cloudy 75°F Precipitation: (Y) or N

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

FIELD COMMENTS

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
9/11/08	DAN ARMOUR		PRO-TECH

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

APPENDIX B

GROUNDWATER STATISTICAL ANALYSIS REPORT

Results of the Ground Water Statistics for

Piedmont Landfill

Second Semi-Annual Monitoring Event in 2008

Prepared for:
Piedmont Landfill and Recycling Center
Kernersville, North Carolina

Prepared by:
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October 2008

Introduction

This report contains the results of the statistical analysis used to evaluate the ground water data obtained during the second semi-annual monitoring event in 2008 at Piedmont Landfill in Kernersville, North Carolina. The ground water at Piedmont Landfill is monitored semi-annually at MW01 (upgradient), MW02, MW03, MW04, MW04D, MW05, MW06 (upgradient), MW07, MW08, MW09R, MW10, MW11, MW11D, MW12, and MW12D. These ground water monitoring were sampled during September 10-11, 2008 and analyzed for the trace metals and volatile organic compounds (VOCs) listed below.

Trace Metals

Antimony, Total	Chromium, Total	Selenium, Total
Arsenic, Total	Cobalt, Total	Silver, Total
Barium, Total	Copper, Total	Thallium, Total
Beryllium, Total	Lead, Total	Vanadium, Total
Cadmium, Total	Nickel, Total	Zinc, Total

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	Acetone	Dibromomethane
1,1,1-Trichloroethane	Acrylonitrile	Ethylbenzene
1,1,2,2-Tetrachloroethane	Benzene	Iodomethane
1,1,2-Trichloroethane	Bromochloromethane	Methylene chloride
1,1-Dichloroethane	Bromodichloromethane	Styrene
1,1-Dichloroethene	Bromoform	Tetrachloroethene
1,2,3-Trichloropropane	Bromomethane	Toluene
1,2-Dibromo-3-chloropropane	Carbon disulfide	*trans*-1,2-Dichloroethene
1,2-Dibromoethane	Carbon tetrachloride	*trans*-1,3-Dichloropropene
1,2-Dichlorobenzene	Chlorobenzene	*trans*-1,4-Dichloro-2-butene
1,2-Dichloroethane	Chloroethane	Trichloroethene
1,2-Dichloropropane	Chloroform	Trichlorofluoromethane
1,4-Dichlorobenzene	Chloromethane	Vinyl acetate
2-Butanone; Methyl ethyl ketone	*cis*-1,2-Dichloroethene	Vinyl chloride
2-Hexanone	*cis*-1,3-Dichloropropene	Xylenes (Total)
4-Methyl-2-pentanone	Dibromochloromethane	

The trace metals data were compared to historical background data using intrawell statistics. The statistical method used to evaluate the ground water data was prepared by Dr. Robert Gibbons in accordance with the EPA statistical guidance document (*"Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance"*, July 1992) and ASTM standard D6312-98 (*"Standard Guide for Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs"*). The organic constituents were compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to background concentrations.

Intrawell Comparisons

Intrawell comparisons are used to evaluate the ground water data at Piedmont Landfill in accordance with the site's statistical analysis plan. Intrawell statistics are appropriate for facilities where the upgradient wells do not accurately characterize the natural ground water conditions downgradient from the facility, due to different hydrogeological conditions where the wells are screened, having too few upgradient wells to account for the spatial variability, or the site exhibiting no definable hydraulic gradient. Intrawell statistics compare new measurements to the historical data at each ground water monitoring well independently.

The most useful technique for intrawell comparisons is the combined Shewhart-CUSUM control chart using the DUMPStat® program. This control chart procedure is useful because it will detect releases both in terms of the constituent concentration and cumulative increases. This method is also extremely sensitive to sudden and gradual releases. A requirement for constructing these control charts is that the parameter is detected at a frequency greater than or equal to 25%, otherwise the data variance is not properly defined.

The database is screened for outliers using the Dixon test. An erroneous data point, if not removed prior to the mean and variance computations would yield a larger control limit thus increasing the false negative rate. Anomalous data will still be plotted on the graphs but will not be included in the calculations. The background data is tested for existing trends using Sen's slope test. If contamination exists prior to completing the background, the control limits could be potentially high and this control chart method would not be able to detect an increasing trend unless the increase is severe.

The combined Shewhart-CUSUM control chart assumes that the data are independent and normally distributed with a fixed mean and a constant variance.

Many ground water monitoring parameters are not detected at a frequency great enough to generate the combined Shewhart-CUSUM control charts. For constituents that are detected less than 25% of the time monitored at a particular well, the data is plotted as a time series until a sufficient number of data points are available to provide a 99% confidence nonparametric prediction limit. The nonparametric prediction limit is the largest determination out of the data set collected for that well and parameter.

Results

The ground water data obtained during the second semi-annual monitoring event in 2008 are summarized in Attachment A. The trace metals data were compared to the historical background data at each well. The background was established using the data obtained through 2003.

The background range was tested for increasing trends using Sen's Test. There were increasing trends detected for barium at wells MW01, MW02, MW04, MW04D, MW05, and MW08, however, these trends are attributed to the change in reporting limits and not the landfill.

A summary of the intrawell statistics is included in Attachment B, Table 1 "Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts." The control charts or time series graphs follow the summary table.

For the trace metals analyzed, there are no control limit exceedances detected.

The site-wide false positive rate is 3% and the test becomes sensitive to 4 standard deviation units over background. Due to the large number of statistical comparisons, modification to the statistical default settings in DUMPStat® were implemented to achieve the site-wide false positive rate standards recommended by EPA (EPA, July 1992, 5.0, Strategies for Multiple Comparisons).

The only VOCs detected in the ground water during the September 2008 monitoring event were vinyl chloride (3.2 μg/L) at MW02 and 1,1-dichloroethane (6.1 μg/L) at MW09R. These VOCs had been detected during prior monitoring events at similar concentrations (Attachment C).

The vinyl chloride detection at MW02 exceeded the NC DENR SWSL of 1 μg/L; the 1,1-dichloroethane detection at MW09R exceeded the NC DENR SWSL of 5 μg/L. The verified exceedances were evaluated against the standards using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, April 1989. The analyses were conducted to evaluate whether verified concentrations are significantly above the water quality standard. The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the SWSL). An exceedance is verified if the LCL is above the Regulatory SWSL. The 95% LCL for vinyl chloride at MW02 (0.67 μg/L) is below the standard; the 95% LCL for 1,1-dichloroethane at MW09R (4.2 μg/L) is below the standard.

In 1996, VOCs were detected and confirmed in monitoring well MW09. Waste Management then attributed the VOCs to landfill gas. These findings were reported and WM implemented assessment monitoring. Monitoring well MW09 was replaced by MW09R in November 1999. Replacement well MW09R was screened below the water table. A second investigation confirmed that landfill gas was the source of the impacts to groundwater. Well MW09R has been analyzed for over 200 Appendix II compounds (VOCs, semi volatiles, pesticides, herbicides, metals, and PCBs), with no other detections having been found since assessment monitoring began in 1997. Currently, WM continues to closely track and monitor groundwater conditions at Piedmont Landfill.

Attachment A

Summary of the Ground Water Data obtained during the Second Semi-Annual Monitoring Event in 2008

Table 1

Analytical Data Summary for 9/10/2008 to 9/11/2008

Constituents	Units	3406-MW01	3406-MW02	3406-MW03	3406-MW04	3406-MW04D	3406-MW05	3406-MW06	3406-MW07	3406-MW08	3406-MW09R	3406-MW10
1,1,1,2-tetrachloroethane	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1,1-trichloroethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,1,2,2-tetrachloroethane	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
1,1,2-trichloroethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,1-dichloroethane	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	6.1000	<5.0000
1,1-dichloroethene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1-dichloropropene	UG/L										<5.0000	
1,2,3-trichloropropane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2,4,5-tetrachlorobenzene	UG/L										<9.4000	
1,2,4-trichlorobenzene	UG/L										<9.4000	
1,2-dibromo-3-chloropropane (dbcp)	UG/L	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000
1,2-dibromoethane (edb)	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dichlorobenzene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,2-dichloroethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dichloropropane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,3,5-trinitrobenzene	UG/L										<9.4000	
1,3-dichlorobenzene	UG/L										<5.0000	
1,3-dichloropropane	UG/L										<1.0000	
1,3-dinitrobenzene	UG/L										<19.0000	
1,4-dichlorobenzene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,4-naphthoquinone	UG/L										<9.4000	
1,4-phenylenediamine	UG/L										<4.0000	
1-naphthylamine	UG/L										<9.4000	
2,2'-oxybis[1-chloropropane]	UG/L										<9.4000	
2,2-dichloropropane	UG/L										<15.0000	
2,3,4,6-tetrachlorophenol	UG/L										<9.4000	
2,4,5-t	UG/L										<1.9000	
2,4,5-tp (silvex)	UG/L										<1.9000	
2,4,5-trichlorophenol	UG/L										<9.4000	
2,4,6-trichlorophenol	UG/L										<9.4000	
2,4-d	UG/L										<1.9000	
2,4-dichlorophenol	UG/L										<9.4000	
2,4-dimethylphenol	UG/L										<9.4000	
2,4-dinitrophenol	UG/L										<47.0000	
2,4-dinitrotoluene	UG/L										<9.4000	
2,6-dichlorophenol	UG/L										<9.4000	
2-(2,4,5-trichlorophenoxy)propionic acid	UG/L											
2-acetylaminofluorene	UG/L										<19.0000	
2-chloronaphthalene	UG/L										<9.4000	
2-chlorophenol	UG/L										<9.4000	
2-hexanone	UG/L	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
2-methylnaphthalene	UG/L										<9.4000	
2-methylphenol	UG/L										<9.4000	
2-naphthylamine	UG/L										<9.4000	
2-nitroaniline	UG/L										<47.0000	
2-nitrophenol	UG/L										<9.4000	
3 + 4 methylphenol	UG/L										<1.9000	
3,3'-dichlorobenzidine	UG/L										<19.0000	
3,3'-dimethylbenzidine	UG/L										<3.0000	
3-chloropropene	UG/L										<10.0000	
3-methylphenol	UG/L											
3-nitroaniline	UG/L										<47.0000	
4,4'-ddd	UG/L										<.0930	
4,4'-dde	UG/L										<.0930	
4,4'-ddt	UG/L										<.0930	
4,6-dinitro-2-methylphenol	UG/L										<47.0000	
4-aminobiphenyl	UG/L										<19.0000	
4-bromophenyl phenyl ether	UG/L										<9.4000	
4-chloro-3-methylphenol	UG/L										<19.0000	
4-chloroaniline	UG/L										<19.0000	
4-chlorophenyl phenyl ether	UG/L										<9.4000	
4-nitroaniline	UG/L										<19.0000	
4-nitrophenol	UG/L										<47.0000	
5-nitro-o-toluidine	UG/L										<9.4000	
7,12-dimethylbenz(a)anthracene	UG/L										<9.4000	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/10/2008 to 9/11/2008

Constituents	3406-MW11	3406-MW11D	3406-MW12	3406-MW12D	3406-S01	3406-S02	3406-S03	3406-S04	3406-S05	3406-T01
1,1,1,2-tetrachloroethane	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1,1-trichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.0000
1,1,2,2-tetrachloroethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
1,1,2-trichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.0000
1,1-dichloroethane	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1-dichloropropene										
1,2,3-trichloropropane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<8.0000
1,2,4,5-tetrachlorobenzene										
1,2,4-trichlorobenzene										
1,2-dibromo-3-chloropropane (dbcp)	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000
1,2-dibromoethane (edb)	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<3.0000
1,2-dichlorobenzene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<10.0000
1,2-dichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<3.0000
1,2-dichloropropane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<3.0000
1,3,5-trinitrobenzene										
1,3-dichlorobenzene										
1,3-dichloropropane										
1,3-dinitrobenzene										
1,4-dichlorobenzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	4.0000
1,4-naphthoquinone										
1,4-phenylenediamine										
1-naphthylamine										
2,2'-oxybis[1-chloropropane]										
2,2-dichloropropane										
2,3,4,6-tetrachlorophenol										
2,4,5-t										
2,4,5-tp (silvex)										
2,4,5-trichlorophenol										
2,4,6-trichlorophenol										
2,4-d										
2,4-dichlorophenol										
2,4-dimethylphenol										
2,4-dinitrophenol										
2,4-dinitrotoluene										
2,6-dichlorophenol										
2-(2,4,5-trichlorophenoxy)propionic acid										
2-acetylaminofluorene										
2-chloronaphthalene										
2-chlorophenol										
2-hexanone	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	56.0000
2-methylnaphthalene										
2-methylphenol										
2-naphthylamine										
2-nitroaniline										
2-nitrophenol										
3 + 4 methylphenol										
3,3'-dichlorobenzidine										
3,3'-dimethylbenzidine										
3-chloropropene										
3-methylphenol										
3-nitroaniline										
4,4'-ddd										
4,4'-dde										
4,4'-ddt										
4,6-dinitro-2-methylphenol										
4-aminobiphenyl										
4-bromophenyl phenyl ether										
4-chloro-3-methylphenol										
4-chloroaniline										
4-chlorophenyl phenyl ether										
4-nitroaniline										
4-nitrophenol										
5-nitro-o-toluidine										
7,12-dimethylbenz(a)anthracene										

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/10/2008 to 9/11/2008

Constituents	Units	3406-MW01	3406-MW02	3406-MW03	3406-MW04	3406-MW04D	3406-MW05	3406-MW06	3406-MW07	3406-MW08	3406-MW09R	3406-MW10
Acenaphthene	UG/L										<9.4000	
Acenaphthylene	UG/L										<9.4000	
Acetone	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Acetonitrile	UG/L										<55.0000	
Acetophenone	UG/L										<9.4000	
Acrolein	UG/L										<53.0000	
Acrylonitrile	UG/L	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000
Aldrin	UG/L										<.0470	
Alkalinity, bicarbonate (as caco3)	MG/L										220.0000	
Alkalinity, carbonate (as caco3)	MG/L										<5.0000	
Alkalinity, total (as caco3)	MG/L	33.0000	59.0000	32.0000	56.0000	36.0000	140.0000	9.9000	43.0000	28.0000	220.0000	63.0000
Alpha-bhc	UG/L										<.0470	
Ammonia	MG/L	.0570	<.0400	.0600	<.0400	.1200	.0450	.0570	.0460	.0520	.1700	.0410
Anthracene	UG/L										<9.4000	
Antimony, total	UG/L	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000		<6.0000
Aroclor 1016	UG/L										<2.0000	
Aroclor 1221	UG/L										<2.0000	
Aroclor 1232	UG/L										<2.0000	
Aroclor 1242	UG/L										<2.0000	
Aroclor 1248	UG/L										<2.0000	
Aroclor 1254	UG/L										<2.0000	
Aroclor 1260	UG/L										<2.0000	
Arsenic, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000		<10.0000
Barium, total	UG/L	<100.0000	130.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000		<100.0000
Benzene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Benzo(a)anthracene	UG/L										<9.4000	
Benzo(a)pyrene	UG/L										<9.4000	
Benzo(b)fluoranthene	UG/L										<9.4000	
Benzo(ghi)perylene	UG/L										<9.4000	
Benzo(k)fluoranthene	UG/L										<9.4000	
Benzyl alcohol	UG/L										<19.0000	
Beryllium, total	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000		<1.0000
Beta-bhc	UG/L										<.0470	
Bis(2-chloroethoxy) methane	UG/L										<9.4000	
Bis(2-chloroethyl) ether	UG/L										<9.4000	
Bis(2-ethylhexyl) phthalate	UG/L										<14.0000	
Bromochloromethane	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromoform	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromomethane	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Butyl benzyl phthalate	UG/L										<9.4000	
Cadmium, total	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000		<1.0000
Calcium, total recoverable	MG/L										54.0000	
Carbon disulfide	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Carbon tetrachloride	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Chlordane	UG/L										<.4700	
Chloride	MG/L	3.3000	4.2000	5.5000	3.5000	2.8000	6.5000	2.3000	5.9000	7.5000	15.0000	3.2000
Chlorobenzene	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Chloroethane	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Chloroform	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Chloromethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Chloroprene	UG/L										<20.0000	
Chromium, total	UG/L	<10.0000	<10.0000	12.0000	<10.0000	15.0000	<10.0000	<10.0000	<10.0000	<10.0000		<10.0000
Chrysene	UG/L										<9.4000	
Cis-1,2-dichloroethene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Cis-1,3-dichloropropene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Cobalt, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000		<10.0000
Copper, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000		<10.0000
Cyanide, total	MG/L										<.0100	
Delta-bhc	UG/L										<.0470	
Di-n-butyl phthalate	UG/L										<9.4000	
Di-n-octyl phthalate	UG/L										<9.4000	
Diallate	UG/L										<9.4000	
Dibenz[a,h]anthracene	UG/L										<9.4000	
Dibenzofuran	UG/L										<9.4000	
Dibromochloromethane	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/10/2008 to 9/11/2008

Constituents	3406-MW11	3406-MW11D	3406-MW12	3406-MW12D	3406-S01	3406-S02	3406-S03	3406-S04	3406-S05	3406-T01
Acenaphthene										
Acenaphthylene										
Acetone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	1000.0000
Acetonitrile										
Acetophenone										
Acrolein										
Acrylonitrile	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000
Aldrin										
Alkalinity, bicarbonate (as caco3)										2200.0000
Alkalinity, carbonate (as caco3)										<5.0000
Alkalinity, total (as caco3)	80.0000	39.0000	48.0000	83.0000						2200.0000
Alpha-bhc										
Ammonia	.0600	.0500	.0410	.0450						480.0000
Anthracene										
Antimony, total	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	24.0000
Aroclor 1016										
Aroclor 1221										
Aroclor 1232										
Aroclor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										
Arsenic, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	43.0000
Barium, total	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	390.0000
Benzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<3.0000
Benzo(a)anthracene										
Benzo(a)pyrene										
Benzo(b)fluoranthene										
Benzo(ghi)perylene										
Benzo(k)fluoranthene										
Benzyl alcohol										
Beryllium, total	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<10.0000
Beta-bhc										
Bis(2-chloroethoxy) methane										
Bis(2-chloroethyl) ether										
Bis(2-ethylhexyl) phthalate										
Bromochloromethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromoform	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Butyl benzyl phthalate										
Cadmium, total	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Calcium, total recoverable										45.0000
Carbon disulfide	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Carbon tetrachloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.5000
Chlordane										
Chloride	2.6000	1.7000	3.6000	2.3000						990.0000
Chlorobenzene	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Chloroethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Chloroform	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Chloromethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.5000
Chloroprene										
Chromium, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	78.0000
Chrysene										
Cis-1,2-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Cis-1,3-dichloropropene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.5000
Cobalt, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	35.0000
Copper, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	1400.0000
Cyanide, total										
Delta-bhc										
Di-n-butyl phthalate										
Di-n-octyl phthalate										
Diallate										
Dibenz[a,h]anthracene										
Dibenzofuran										
Dibromochloromethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/10/2008 to 9/11/2008

Constituents	Units	3406-MW01	3406-MW02	3406-MW03	3406-MW04	3406-MW04D	3406-MW05	3406-MW06	3406-MW07	3406-MW08	3406-MW09R	3406-MW10
Dibromomethane	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Dichlorobromomethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Dichlorodifluoromethane	UG/L										<5.0000	
Dieldrin	UG/L										<.0700	
Diethyl phthalate	UG/L										<9.4000	
Dimethoate	UG/L										<19.0000	
Dimethyl phthalate	UG/L										<9.4000	
Dinoseb	UG/L										<.9300	
Diphenylamine	UG/L										<9.4000	
Disulfoton	UG/L										<9.4000	
Do (field)	MG/L	6.2000	2.3000	4.9000	.6000	5.6000	.7000	5.4000	5.1000	1.6000	.6000	4.1000
Eh/orp (field)	mV	224.0000	165.0000	235.0000	140.0000	247.0000	273.0000	171.2000	142.2000	124.6000	<.1000	129.4000
Endosulfan i	UG/L										<.0930	
Endosulfan ii	UG/L										<.0930	
Endosulfan sulfate	UG/L										<.0930	
Endrin	UG/L										<.0930	
Ethyl 4,4'-dichlorobenzilate	UG/L										<9.4000	
Ethyl methacrylate	UG/L										<10.0000	
Ethyl methane sulfonate	UG/L										<19.0000	
Ethyl parathion	UG/L										<9.4000	
Ethylbenzene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Famphur	UG/L										<19.0000	
Fluoranthene	UG/L										<9.4000	
Fluorene	UG/L										<9.4000	
Gamma-bhc (lindane)	UG/L										<.0470	
Groundwater elev.	FT MSL	779.7800	747.5300	743.0500	742.0300	741.9800	740.9200	775.9800	743.9300	739.8600	736.8900	743.5500
Heptachlor	UG/L										<.0470	
Heptachlor epoxide	UG/L										<.0700	
Hexachlorobenzene	UG/L										<9.4000	
Hexachlorobutadiene	UG/L										<9.4000	
Hexachlorocyclopentadiene	UG/L										<2.0000	
Hexachloroethane	UG/L										<9.4000	
Hexachloropropene	UG/L										<1.1000	
Indeno(1,2,3-cd)pyrene	UG/L										<9.4000	
Iodomethane	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Iron, total recoverable	UG/L										190.0000	
Isobutanol	UG/L										<100.0000	
Isodrin	UG/L										<19.0000	
Isophorone	UG/L										<9.4000	
Isosafrole	UG/L										<9.4000	
Kepone	UG/L										<19.0000	
Lead, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000		<10.0000
Magnesium, total recoverable	MG/L										20.0000	
Manganese, total recoverable	UG/L										1800.0000	
Mercury, total	UG/L										<.2000	
Methacrylonitrile	UG/L										<100.0000	
Methapyrilene	UG/L										<94.0000	
Methoxychlor	UG/L										<.9300	
Methyl ethyl ketone	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methyl isobutyl ketone	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methyl methacrylate	UG/L										<30.0000	
Methyl methanesulfonate	UG/L										<9.4000	
Methyl parathion	UG/L										<9.4000	
Methylene chloride	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
N-nitroso-di-n-propylamine	UG/L										<9.4000	
N-nitrosodi-n-butylamine	UG/L										<9.4000	
N-nitrosodiethylamine	UG/L										<19.0000	
N-nitrosodimethylamine	UG/L										<9.4000	
N-nitrosodiphenylamine	UG/L										<9.4000	
N-nitrosomethylethylamine	UG/L										<9.4000	
N-nitrosopiperidine	UG/L										<19.0000	
N-nitrosopyrrolidine	UG/L										<9.4000	
Nickel, total	UG/L	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000		<50.0000
Nitrobenzene	UG/L										<9.4000	
Nitrogen, nitrate	MG/L										.7700	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/10/2008 to 9/11/2008

Constituents	3406-MW11	3406-MW11D	3406-MW12	3406-MW12D	3406-S01	3406-S02	3406-S03	3406-S04	3406-S05	3406-T01
Dibromomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Dichlorobromomethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<3.0000
Dichlorodifluoromethane										
Dieldrin										
Diethyl phthalate										
Dimethoate										
Dimethyl phthalate										
Dinoseb										
Diphenylamine										
Disulfoton										
Do (field)	1.4000	5.6000	.9000	2.5000	4.1000	4.2000	4.2000	3.7000	4.0000	<.5000
Eh/orp (field)	191.4000	186.0000	91.7000	61.2000	30.6000	61.0000	30.0000	72.3000	75.8000	<.1000
Endosulfan i										
Endosulfan ii										
Endosulfan sulfate										
Endrin										
Ethyl 4,4'-dichlorobenzilate										
Ethyl methacrylate										
Ethyl methane sulfonate										
Ethyl parathion										
Ethylbenzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.0000
Famphur										
Fluoranthene										
Fluorene										
Gamma-bhc (lindane)										
Groundwater elev.	746.5500	746.1400	744.5400	744.6000						
Heptachlor										
Heptachlor epoxide										
Hexachlorobenzene										
Hexachlorobutadiene										
Hexachlorocyclopentadiene										
Hexachloroethane										
Hexachloropropene										
Indeno(1,2,3-cd)pyrene										
Iodomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Iron, total recoverable										28000.0000
Isobutanol										
Isodrin										
Isophorone										
Isosafrole										
Kepone										
Lead, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Magnesium, total recoverable										34.0000
Manganese, total recoverable										1600.0000
Mercury, total										<.2000
Methacrylonitrile										
Methapyrilene										
Methoxychlor										
Methyl ethyl ketone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	720.0000
Methyl isobutyl ketone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methyl methacrylate										
Methyl methanesulfonate										
Methyl parathion										
Methylene chloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.5000
N-nitroso-di-n-propylamine										
N-nitrosodi-n-butylamine										
N-nitrosodiethylamine										
N-nitrosodimethylamine										
N-nitrosodiphenylamine										
N-nitrosomethylethylamine										
N-nitrosopiperidine										
N-nitrosopyrrolidine										
Nickel, total	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	190.0000
Nitrobenzene										
Nitrogen, nitrate										<.5000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/10/2008 to 9/11/2008

Constituents	Units	3406-MW01	3406-MW02	3406-MW03	3406-MW04	3406-MW04D	3406-MW05	3406-MW06	3406-MW07	3406-MW08	3406-MW09R	3406-MW10
O,o,o-triethyl phosphorothioate	UG/L										<9.4000	
O-toluidine	UG/L										<9.4000	
P-(dimethylamino)azobenzene	UG/L										<9.4000	
Pentachlorobenzene	UG/L										<9.4000	
Pentachloronitrobenzene	UG/L										<19.0000	
Pentachlorophenol	UG/L										<24.0000	
pH FIELD	PH UNITS	6.3000	5.0600	5.9200	5.2200	5.7300	5.6100	4.7700	5.5300	5.0600	5.9100	5.5600
Phenacetin	UG/L										<19.0000	
Phenanthrene	UG/L										<9.4000	
Phenol	UG/L										<9.4000	
Phorate	UG/L										<9.4000	
Potassium, total	MG/L										4.1000	
Pronamide	UG/L										<9.4000	
Propionitrile	UG/L										<150.0000	
Pyrene	UG/L										<9.4000	
Safrole	UG/L										<9.4000	
Selenium, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000		<10.0000
Silver, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000		<10.0000
Sodium, total	MG/L										17.0000	
Specific conductance field	UMHOS/CM	59.0000	109.0000	126.0000	76.0000	58.0000	252.0000	31.0000	147.0000	137.0000	502.0000	132.0000
Styrene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Sulfate	MG/L										<5.0000	
Sulfide	MG/L										<1.0000	
Tetrachloroethene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Thallium, total	UG/L	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000		<5.5000
Thionazin	UG/L										<19.0000	
Tin, total recoverable	UG/L										<100.0000	
Toluene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Total dissolved solids	MG/L	66.0000	110.0000	130.0000	87.0000	100.0000	210.0000	38.0000	110.0000	87.0000	290.0000	93.0000
Total organic carbon	MG/L										<1.0000	
Total xylenes	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Toxaphene	UG/L										<1.4000	
Trans-1,2-dichloroethene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Trans-1,3-dichloropropene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trans-1,4-dichloro-2-butene	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Trichloroethene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trichlorofluoromethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Turbidity	NTU	1.5000*	1.6250*	1.5200*	1.1800*	30.5500*	2.5500*	1.5000*	2.7500*	8.2000*	.9000	2.4500*
Vanadium, total	UG/L	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000		<25.0000
Vinyl acetate	UG/L	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Vinyl chloride	UG/L	<1.0000	3.2000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Water temperature in deg. celsius field	DEGREES C	18.9000	16.1000	16.7000	14.7000	19.6000	15.8000	16.5000	16.7000	19.0000	18.1000	17.0000
Zinc, total	UG/L	18.0000	10.0000	<10.0000	<10.0000	85.0000	<10.0000	<10.0000	<10.0000	<10.0000		<10.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/10/2008 to 9/11/2008

Constituents	3406-MW11	3406-MW11D	3406-MW12	3406-MW12D	3406-S01	3406-S02	3406-S03	3406-S04	3406-S05	3406-T01
O,o,o-triethyl phosphorothioate										
O-toluidine										
P-(dimethylamino)azobenzene										
Pentachlorobenzene										
Pentachloronitrobenzene										
Pentachlorophenol										
pH FIELD	5.4400	6.1100	6.0500	6.9100	7.1400	6.9500	7.2800	7.1400	7.0200	7.5100
Phenacetin										
Phenanthrene										
Phenol										
Phorate										
Potassium, total										190.0000
Pronamide										
Propionitrile										
Pyrene										
Safrole										
Selenium, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<15.0000
Silver, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Sodium, total										740.0000
Specific conductance field	162.0000	72.0000	128.0000	239.0000	142.0000	137.0000	99.0000	101.0000	149.0000	7307.0000
Styrene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<10.0000
Sulfate										50.0000
Sulfide										
Tetrachloroethene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	6.6000
Thallium, total	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<1.0000
Thionazin										
Tin, total recoverable										
Toluene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.0000
Total dissolved solids	100.0000	83.0000	110.0000	150.0000						2900.0000
Total organic carbon										200.0000
Total xylenes	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	11.0000
Toxaphene										
Trans-1,2-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Trans-1,3-dichloropropene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.5000
Trans-1,4-dichloro-2-butene	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Trichloroethene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<3.0000
Trichlorofluoromethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.0000
Turbidity	3.7000*	13.2000*	14.6500*	9.6500*	7.6000	5.6000	8.8000	9.4000	6.4000	14.7000
Vanadium, total	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	62.0000
Vinyl acetate	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Vinyl chloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.5000
Water temperature in deg. celsius field	16.3000	16.5000	16.2000	18.6000	19.1000	19.8000	19.7000	19.9000	19.7000	19.4000
Zinc, total	12.0000	<10.0000	63.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	290.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Attachment B

Summary Table and Graphs for the Intrawell Comparisons

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Antimony, total	UG/L	3406-MW01	26					81.8000**
Arsenic, total	UG/L	3406-MW01	31					10.0000**
Barium, total	UG/L	3406-MW01	31	215.5516	214.9981	215.5516	215.5516	1290.5421
Beryllium, total	UG/L	3406-MW01	23					2.0000**
Cadmium, total	UG/L	3406-MW01	34					2.0000**
Chromium, total	UG/L	3406-MW01	31					10.0000**
Cobalt, total	UG/L	3406-MW01	23					10.0000**
Copper, total	UG/L	3406-MW01	31					200.0000**
Lead, total	UG/L	3406-MW01	31					10.0000**
Nickel, total	UG/L	3406-MW01	23					50.0000**
Selenium, total	UG/L	3406-MW01	31					20.0000**
Silver, total	UG/L	3406-MW01	31					10.0000**
Thallium, total	UG/L	3406-MW01	23					10.0000**
Vanadium, total	UG/L	3406-MW01	23					40.0000**
Zinc, total	UG/L	3406-MW01	31					65.4000**
Antimony, total	UG/L	3406-MW02	25					52.8000**
Arsenic, total	UG/L	3406-MW02	30					10.1000**
Barium, total	UG/L	3406-MW02	30	182.7833	228.1893	182.7833	182.7833	1323.7296
Beryllium, total	UG/L	3406-MW02	22					2.0000**
Cadmium, total	UG/L	3406-MW02	33					2.1000**
Chromium, total	UG/L	3406-MW02	30					10.0000**
Cobalt, total	UG/L	3406-MW02	22					10.0000**
Copper, total	UG/L	3406-MW02	30					200.0000**
Lead, total	UG/L	3406-MW02	30					10.0000**
Nickel, total	UG/L	3406-MW02	22					50.0000**
Selenium, total	UG/L	3406-MW02	30					20.0000**
Silver, total	UG/L	3406-MW02	30					10.0000**
Thallium, total	UG/L	3406-MW02	22					10.0000**
Vanadium, total	UG/L	3406-MW02	22					40.0000**
Zinc, total	UG/L	3406-MW02	30					50.0000**
Antimony, total	UG/L	3406-MW03	25					30.0000**
Arsenic, total	UG/L	3406-MW03	30					10.0000**
Barium, total	UG/L	3406-MW03	30	174.7767	233.9172	174.7767	174.7767	1344.3627
Beryllium, total	UG/L	3406-MW03	22					2.0000**
Cadmium, total	UG/L	3406-MW03	33					2.3000**
Chromium, total	UG/L	3406-MW03	30	8.4100	2.2594	14.0963	15.9917	19.7072
Cobalt, total	UG/L	3406-MW03	23					10.0000**
Copper, total	UG/L	3406-MW03	31					200.0000**
Lead, total	UG/L	3406-MW03	30					10.0000**
Nickel, total	UG/L	3406-MW03	22					50.0000**
Selenium, total	UG/L	3406-MW03	30					20.0000**
Silver, total	UG/L	3406-MW03	30					10.0000**
Thallium, total	UG/L	3406-MW03	22					10.0000**
Vanadium, total	UG/L	3406-MW03	23	30.4913	13.6266	30.4913	30.4913	98.6245
Zinc, total	UG/L	3406-MW03	30					50.0000**
Antimony, total	UG/L	3406-MW04	25					85.8000**
Arsenic, total	UG/L	3406-MW04	30					10.0000**
Barium, total	UG/L	3406-MW04	30	186.7433	225.3021	186.7433	186.7433	1313.2538
Beryllium, total	UG/L	3406-MW04	22					2.0000**
Cadmium, total	UG/L	3406-MW04	33					1.8000**
Chromium, total	UG/L	3406-MW04	30					10.0000**
Cobalt, total	UG/L	3406-MW04	22					10.0000**
Copper, total	UG/L	3406-MW04	30					200.0000**
Lead, total	UG/L	3406-MW04	30					10.0000**
Nickel, total	UG/L	3406-MW04	22					50.0000**
Selenium, total	UG/L	3406-MW04	30					20.0000**
Silver, total	UG/L	3406-MW04	30					10.0000**
Thallium, total	UG/L	3406-MW04	22					10.0000**
Vanadium, total	UG/L	3406-MW04	22					40.0000**
Zinc, total	UG/L	3406-MW04	30					50.0000**
Antimony, total	UG/L	3406-MW04D	20					30.0000**
Arsenic, total	UG/L	3406-MW04D	20					10.0000**
Barium, total	UG/L	3406-MW04D	20	296.3000	217.8815	296.3000	296.3000	1385.7074
Beryllium, total	UG/L	3406-MW04D	18					2.0000**
Cadmium, total	UG/L	3406-MW04D	20	1.0235	0.3111	1.0235	1.0235	2.5791
Chromium, total	UG/L	3406-MW04D	20	9.0950	3.8035	9.1474	12.1997	28.1126
Cobalt, total	UG/L	3406-MW04D	20					26.0000**
Copper, total	UG/L	3406-MW04D	20					200.0000**
Lead, total	UG/L	3406-MW04D	19	9.1053	2.0671	9.1053	9.1053	19.4406
Nickel, total	UG/L	3406-MW04D	20					50.0000**
Selenium, total	UG/L	3406-MW04D	20					20.0000**
Silver, total	UG/L	3406-MW04D	20					10.0000**
Thallium, total	UG/L	3406-MW04D	20					10.0000**

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Vanadium, total	UG/L	3406-MW04D	20	37.2450	23.1524	37.2450	37.2450	153.0069
Zinc, total	UG/L	3406-MW04D	22	54.3182	33.9333	54.3182	59.5500	223.9848
Antimony, total	UG/L	3406-MW05	25					88.9000**
Arsenic, total	UG/L	3406-MW05	30					11.9000**
Barium, total	UG/L	3406-MW05	30	177.8300	231.7097	177.8300	177.8300	1336.3783
Beryllium, total	UG/L	3406-MW05	22					2.0000**
Cadmium, total	UG/L	3406-MW05	33					1.0000**
Chromium, total	UG/L	3406-MW05	30	8.3400	2.4960	8.3400	8.3400	20.8201
Cobalt, total	UG/L	3406-MW05	22					10.0000**
Copper, total	UG/L	3406-MW05	30					200.0000**
Lead, total	UG/L	3406-MW05	30					10.0000**
Nickel, total	UG/L	3406-MW05	22					50.0000**
Selenium, total	UG/L	3406-MW05	30					20.0000**
Silver, total	UG/L	3406-MW05	30					10.0000**
Thallium, total	UG/L	3406-MW05	22					10.0000**
Vanadium, total	UG/L	3406-MW05	22	28.9864	15.1290	28.9864	28.9864	104.6314
Zinc, total	UG/L	3406-MW05	30					110.0000**
Antimony, total	UG/L	3406-MW06	25					94.9000**
Arsenic, total	UG/L	3406-MW06	22					10.0000**
Barium, total	UG/L	3406-MW06	22	248.0545	235.4961	248.0545	248.0545	1425.5351
Beryllium, total	UG/L	3406-MW06	22					2.6000**
Cadmium, total	UG/L	3406-MW06	25					1.0000**
Chromium, total	UG/L	3406-MW06	22					10.0000**
Cobalt, total	UG/L	3406-MW06	22					10.0000**
Copper, total	UG/L	3406-MW06	22					200.0000**
Lead, total	UG/L	3406-MW06	22					10.0000**
Nickel, total	UG/L	3406-MW06	22					50.0000**
Selenium, total	UG/L	3406-MW06	22					20.0000**
Silver, total	UG/L	3406-MW06	22					10.0000**
Thallium, total	UG/L	3406-MW06	22					10.0000**
Vanadium, total	UG/L	3406-MW06	22					45.6000**
Zinc, total	UG/L	3406-MW06	21					50.0000**
Antimony, total	UG/L	3406-MW07	21					30.0000**
Arsenic, total	UG/L	3406-MW07	21					10.6000**
Barium, total	UG/L	3406-MW07	21	242.9190	251.2059	242.9190	242.9190	1498.9487
Beryllium, total	UG/L	3406-MW07	21					2.0000**
Cadmium, total	UG/L	3406-MW07	21					1.0000**
Chromium, total	UG/L	3406-MW07	21	7.2143	3.6356	7.2143	7.2143	25.3921
Cobalt, total	UG/L	3406-MW07	21					10.0000**
Copper, total	UG/L	3406-MW07	21	139.9476	87.2926	139.9476	139.9476	576.4108
Lead, total	UG/L	3406-MW07	21					10.0000**
Nickel, total	UG/L	3406-MW07	21					50.0000**
Selenium, total	UG/L	3406-MW07	21					20.0000**
Silver, total	UG/L	3406-MW07	21					13.6000**
Thallium, total	UG/L	3406-MW07	21					10.0000**
Vanadium, total	UG/L	3406-MW07	21	31.4238	14.4314	31.4238	31.4238	103.5809
Zinc, total	UG/L	3406-MW07	21	38.7857	17.0759	38.7857	38.7857	124.1653
Antimony, total	UG/L	3406-MW08	22					30.0000**
Arsenic, total	UG/L	3406-MW08	22	8.6273	3.0446	8.6273	8.6273	23.8504
Barium, total	UG/L	3406-MW08	21	299.5667	201.0035	299.5667	299.5667	1304.5844
Beryllium, total	UG/L	3406-MW08	21					2.0000**
Cadmium, total	UG/L	3406-MW08	22					1.3000**
Chromium, total	UG/L	3406-MW08	19					11.5000**
Cobalt, total	UG/L	3406-MW08	25	12.8400	4.2019	12.8400	12.8400	33.8494
Copper, total	UG/L	3406-MW08	21					200.0000**
Lead, total	UG/L	3406-MW08	20	7.6950	3.4081	7.6950	7.6950	24.7356
Nickel, total	UG/L	3406-MW08	21					50.0000**
Selenium, total	UG/L	3406-MW08	21					20.0000**
Silver, total	UG/L	3406-MW08	21					11.6000**
Thallium, total	UG/L	3406-MW08	22					10.0000**
Vanadium, total	UG/L	3406-MW08	22					40.0000**
Zinc, total	UG/L	3406-MW08	21	43.4143	15.7794	43.4143	43.4143	122.3113
Antimony, total	UG/L	3406-MW09R	20					30.0000**
Arsenic, total	UG/L	3406-MW09R	20					10.0000**
Barium, total	UG/L	3406-MW09R	20	289.2200	239.7893	289.2200	289.2200	1488.1666
Beryllium, total	UG/L	3406-MW09R	20					2.0000**
Cadmium, total	UG/L	3406-MW09R	20					1.0000**
Chromium, total	UG/L	3406-MW09R	18					14.7000**
Cobalt, total	UG/L	3406-MW09R	24	10.8792	2.4744	10.8792	10.8792	23.2511
Copper, total	UG/L	3406-MW09R	20	147.0050	81.3977	147.0050	147.0050	553.9935
Lead, total	UG/L	3406-MW09R	20					10.0000**
Nickel, total	UG/L	3406-MW09R	20					50.0000**
Selenium, total	UG/L	3406-MW09R	20					20.0000**

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Silver, total	UG/L	3406-MW09R	20					10.0000**
Thallium, total	UG/L	3406-MW09R	20					10.0000**
Vanadium, total	UG/L	3406-MW09R	21					106.0000**
Zinc, total	UG/L	3406-MW09R	20					87.9000**
Antimony, total	UG/L	3406-MW10	20					30.0000**
Arsenic, total	UG/L	3406-MW10	20					10.0000**
Barium, total	UG/L	3406-MW10	20	255.7050	250.6888	255.7050	255.7050	1509.1491
Beryllium, total	UG/L	3406-MW10	20					2.0000**
Cadmium, total	UG/L	3406-MW10	20					1.0000**
Chromium, total	UG/L	3406-MW10	22	9.1955	4.7876	9.1955	9.1955	33.1336
Cobalt, total	UG/L	3406-MW10	20					13.3000**
Copper, total	UG/L	3406-MW10	20					200.0000**
Lead, total	UG/L	3406-MW10	20	7.8500	3.5033	7.8500	7.8500	25.3665
Nickel, total	UG/L	3406-MW10	20					50.0000**
Selenium, total	UG/L	3406-MW10	20					20.0000**
Silver, total	UG/L	3406-MW10	20					10.0000**
Thallium, total	UG/L	3406-MW10	20					10.0000**
Vanadium, total	UG/L	3406-MW10	20	31.7850	14.4082	31.7850	31.7850	103.8258
Zinc, total	UG/L	3406-MW10	20	41.4400	13.8997	41.4400	41.4400	110.9385
Antimony, total	UG/L	3406-MW11	20					30.0000**
Arsenic, total	UG/L	3406-MW11	20					10.0000**
Barium, total	UG/L	3406-MW11	20	294.0350	233.9144	294.0350	294.0350	1463.6069
Beryllium, total	UG/L	3406-MW11	20					2.0000**
Cadmium, total	UG/L	3406-MW11	20					1.0000**
Chromium, total	UG/L	3406-MW11	20					10.0000**
Cobalt, total	UG/L	3406-MW11	20					10.0000**
Copper, total	UG/L	3406-MW11	20					200.0000**
Lead, total	UG/L	3406-MW11	20					10.0000**
Nickel, total	UG/L	3406-MW11	20					50.0000**
Selenium, total	UG/L	3406-MW11	20					20.0000**
Silver, total	UG/L	3406-MW11	20					10.0000**
Thallium, total	UG/L	3406-MW11	20					10.0000**
Vanadium, total	UG/L	3406-MW11	20	31.3350	15.4182	31.3350	31.3350	108.4261
Zinc, total	UG/L	3406-MW11	20	39.0450	17.3256	39.0450	39.0450	125.6730
Antimony, total	UG/L	3406-MW11D	20					30.0000**
Arsenic, total	UG/L	3406-MW11D	20					10.0000**
Barium, total	UG/L	3406-MW11D	20	328.5500	199.6097	328.5500	328.5500	1326.5986
Beryllium, total	UG/L	3406-MW11D	20	1.7000	0.6366	1.7000	1.7000	4.8830
Cadmium, total	UG/L	3406-MW11D	20	0.9545	0.2302	0.9545	0.9545	2.1056
Chromium, total	UG/L	3406-MW11D	22	15.0500	13.6724	15.0500	15.0500	83.4119
Cobalt, total	UG/L	3406-MW11D	20	13.5150	9.7993	13.5150	13.5150	62.5116
Copper, total	UG/L	3406-MW11D	21	165.6619	71.1526	165.6619	165.6619	521.4249
Lead, total	UG/L	3406-MW11D	20	8.5650	3.1905	8.5650	8.5650	24.5175
Nickel, total	UG/L	3406-MW11D	20	43.6100	12.3400	43.6100	43.6100	105.3102
Selenium, total	UG/L	3406-MW11D	20					20.0000**
Silver, total	UG/L	3406-MW11D	20					10.0000**
Thallium, total	UG/L	3406-MW11D	20					10.0000**
Vanadium, total	UG/L	3406-MW11D	21	55.0857	33.4577	55.0857	55.0857	222.3740
Zinc, total	UG/L	3406-MW11D	21	62.9714	35.3700	62.9714	62.9714	239.8214
Antimony, total	UG/L	3406-MW12	20					30.0000**
Arsenic, total	UG/L	3406-MW12	20					10.0000**
Barium, total	UG/L	3406-MW12	20	263.3300	243.3353	263.3300	263.3300	1480.0067
Beryllium, total	UG/L	3406-MW12	20					2.0000**
Cadmium, total	UG/L	3406-MW12	20					1.0000**
Chromium, total	UG/L	3406-MW12	20					10.7000**
Cobalt, total	UG/L	3406-MW12	20					11.0000**
Copper, total	UG/L	3406-MW12	20					200.0000**
Lead, total	UG/L	3406-MW12	21					21.0000**
Nickel, total	UG/L	3406-MW12	20					50.0000**
Selenium, total	UG/L	3406-MW12	20	15.8850	7.4320	15.8850	15.8850	53.0448
Silver, total	UG/L	3406-MW12	20					10.0000**
Thallium, total	UG/L	3406-MW12	20					10.0000**
Vanadium, total	UG/L	3406-MW12	20					40.0000**
Zinc, total	UG/L	3406-MW12	17					130.0000**
Antimony, total	UG/L	3406-MW12D	20					30.0000**
Arsenic, total	UG/L	3406-MW12D	20	8.1200	3.5134	8.1200	8.1200	25.6869
Barium, total	UG/L	3406-MW12D	21	319.9905	207.0330	319.9905	319.9905	1355.1556
Beryllium, total	UG/L	3406-MW12D	20	1.9150	0.4475	1.9150	1.9150	4.1527
Cadmium, total	UG/L	3406-MW12D	20					1.0000**
Chromium, total	UG/L	3406-MW12D	21	54.5952	80.1433	54.5952	54.5952	455.3115
Cobalt, total	UG/L	3406-MW12D	21	21.9619	25.7529	21.9619	21.9619	150.7262
Copper, total	UG/L	3406-MW12D	19	177.8474	49.1114	177.8474	177.8474	423.4045
Lead, total	UG/L	3406-MW12D	18	12.0111	4.4237	12.0111	12.0111	34.1297

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

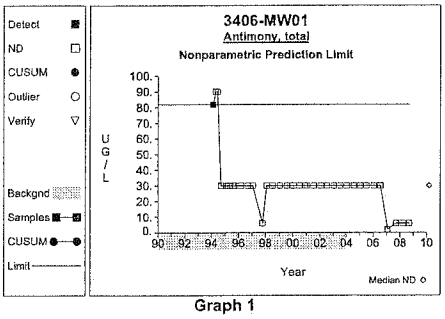
Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

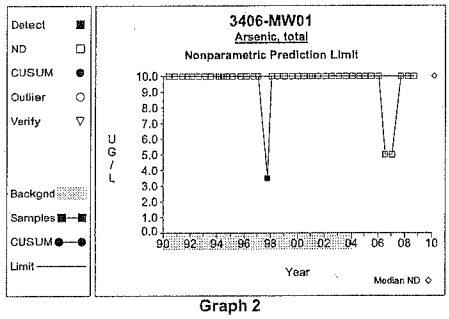
Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Nickel, total	UG/L	3406-MW12D	21					108.0000**
Selenium, total	UG/L	3406-MW12D	20					20.0000**
Silver, total	UG/L	3406-MW12D	20					10.0000**
Thallium, total	UG/L	3406-MW12D	20					10.0000**
Vanadium, total	UG/L	3406-MW12D	21	87.3857	100.2112	87.3857	87.3857	588.4417
Zinc, total	UG/L	3406-MW12D	21	113.7952	139.2305	113.7952	113.7952	809.9477

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

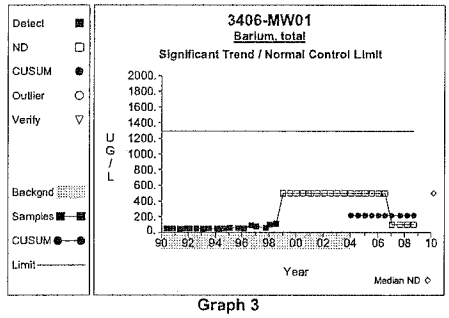
Intra-Well Control Charts



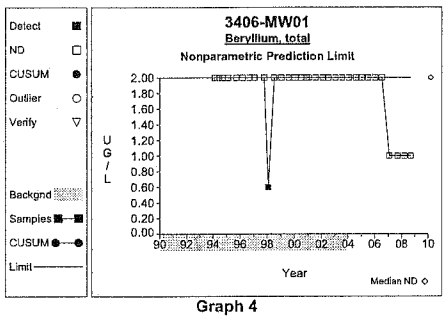
Graph 1



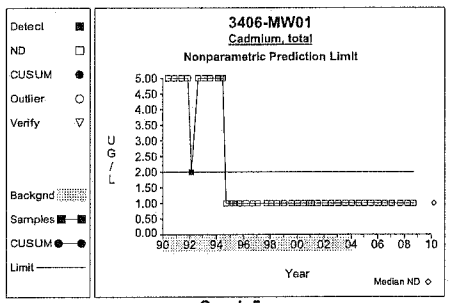
Graph 2



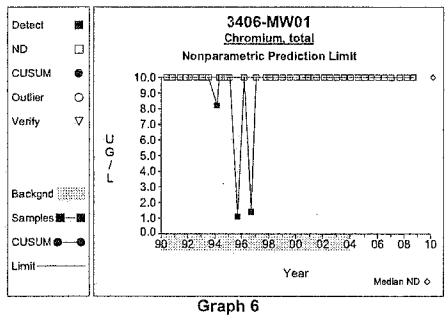
Graph 3



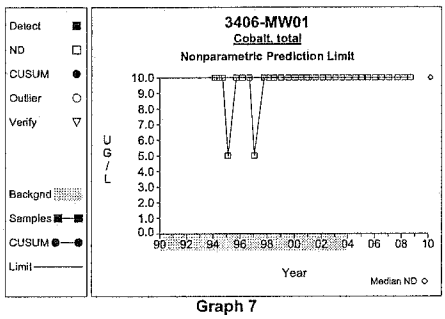
Graph 4



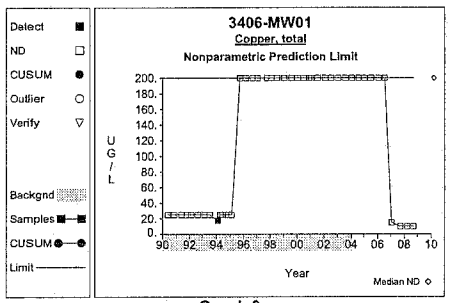
Graph 5



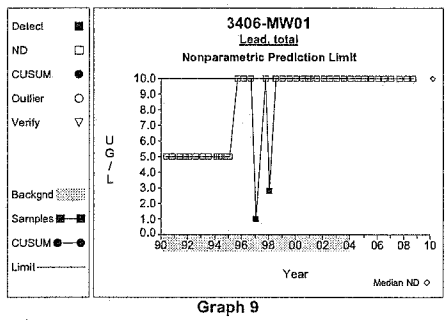
Graph 6



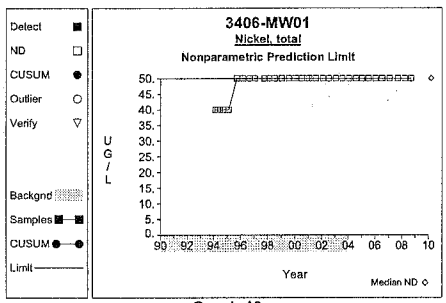
Graph 7



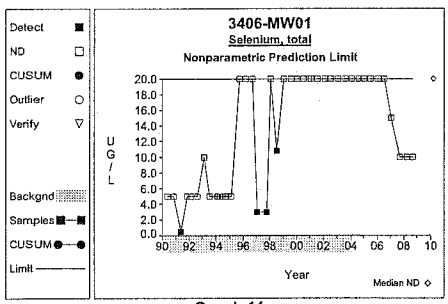
Graph 8



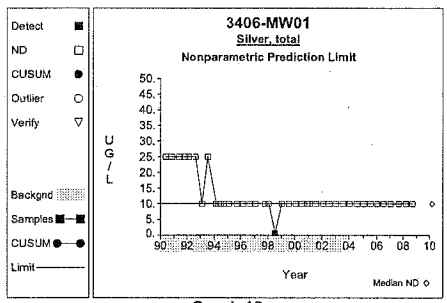
Graph 9



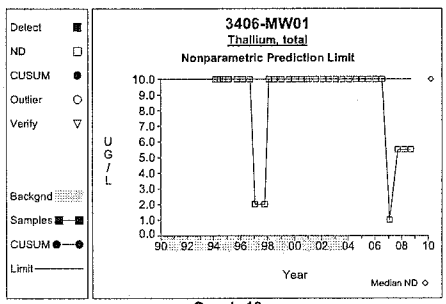
Graph 10



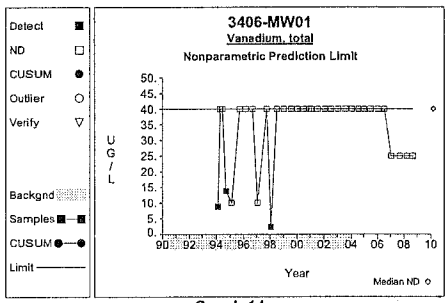
Graph 11



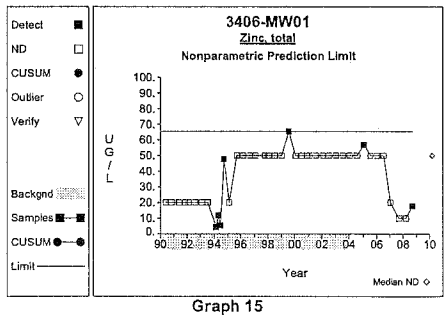
Graph 12



Graph 13

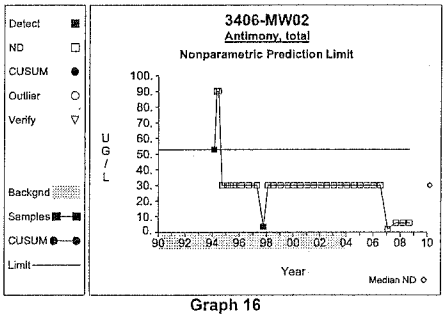


Graph 14

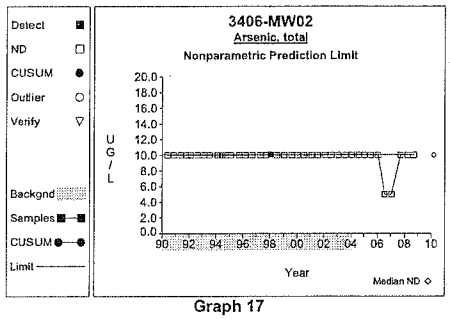


Graph 15

Intra-Well Control Charts



Graph 16



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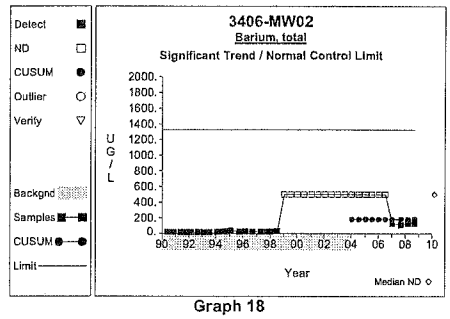

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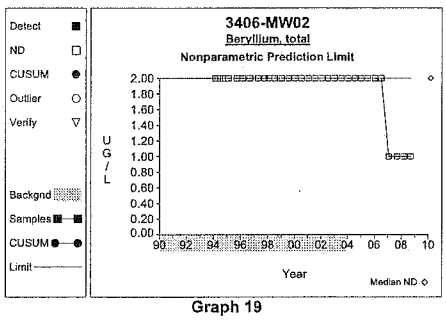
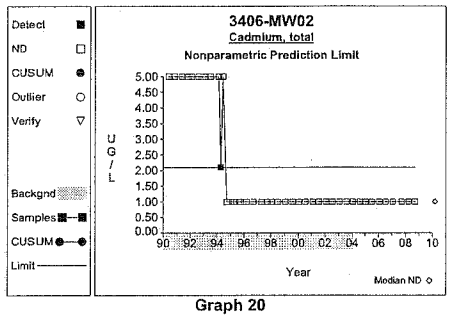
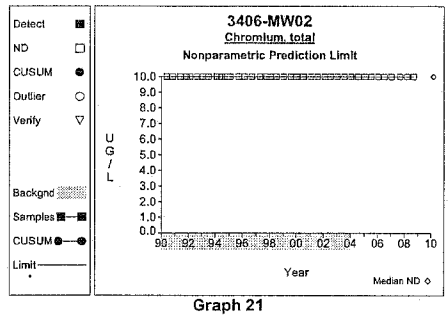


Graph 19



Graph 20



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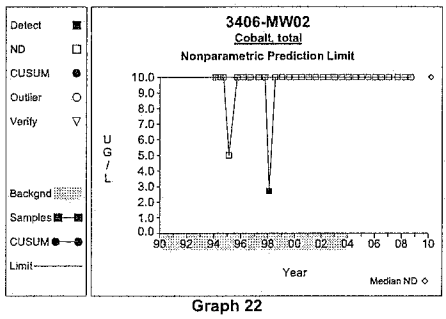

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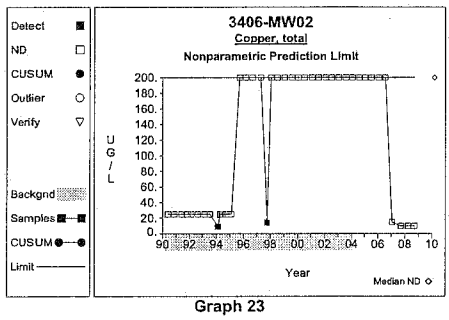

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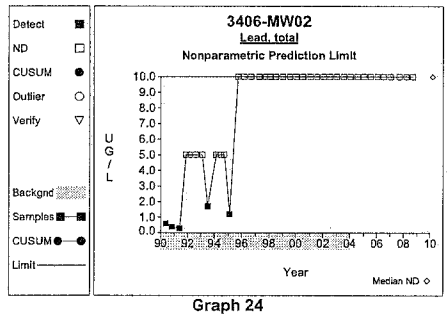

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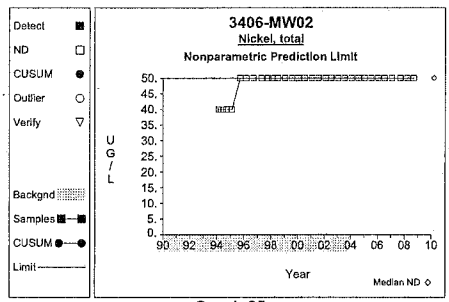
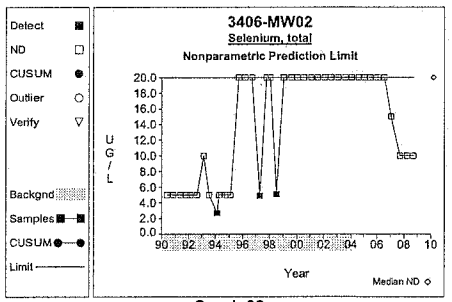


Graph 25



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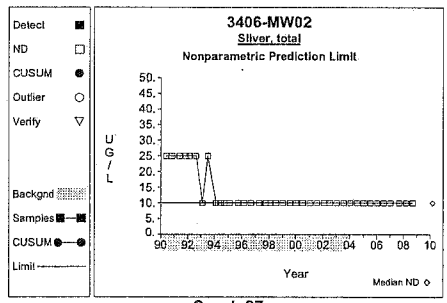
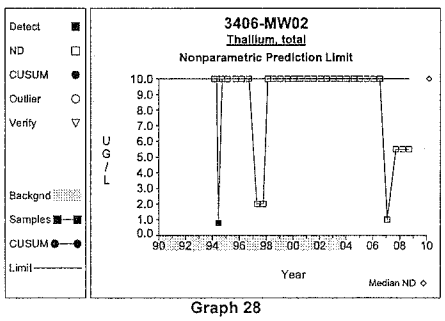
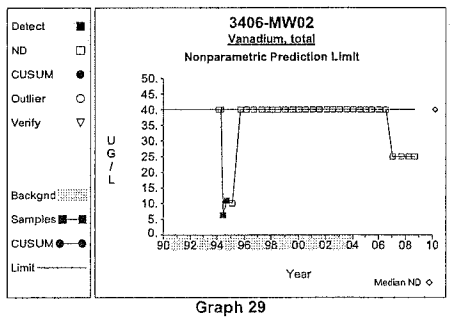


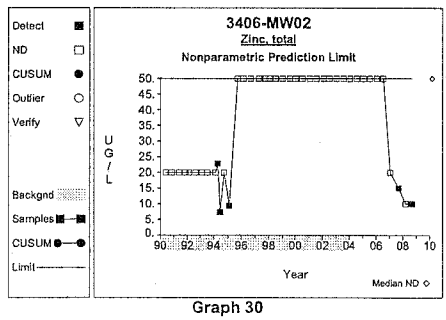
Graph 27



Graph 28

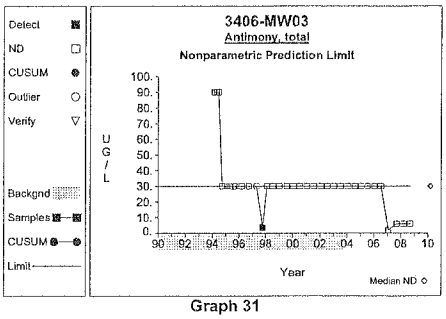


Graph 29

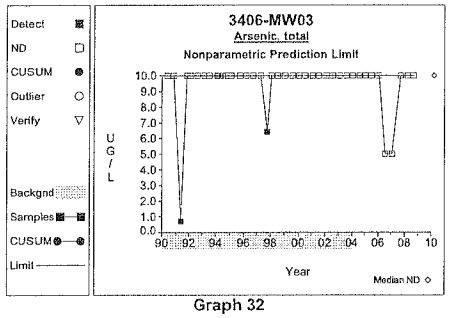


Graph 30

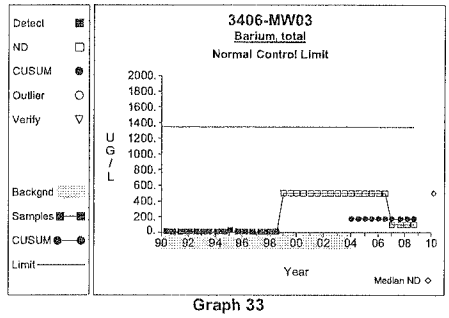
Intra-Well Control Charts



Graph 31



Graph 32



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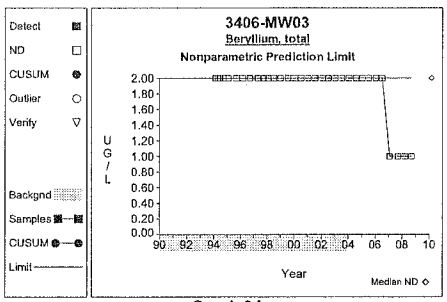
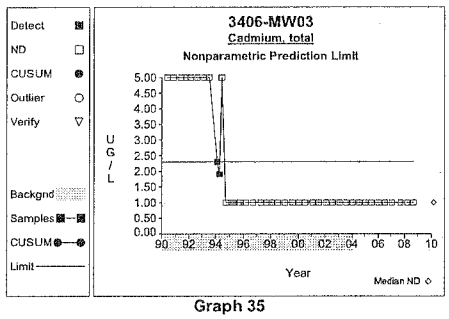
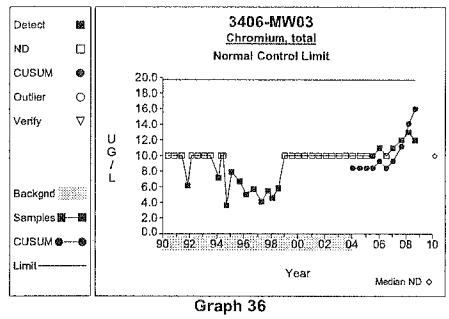


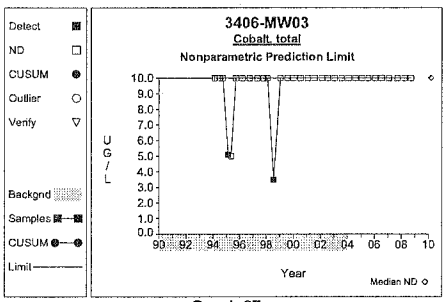
Graph 34



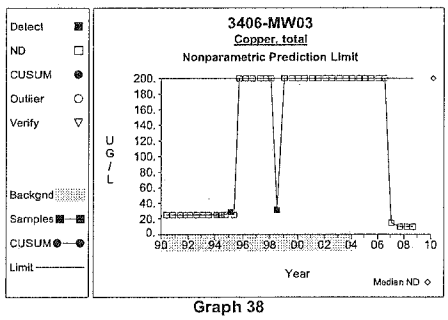
Graph 35



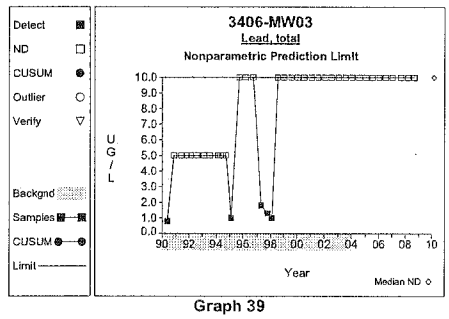
Graph 36



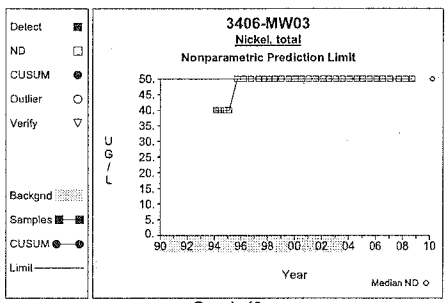
Graph 37



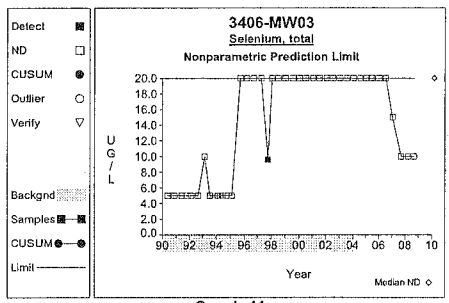
Graph 38



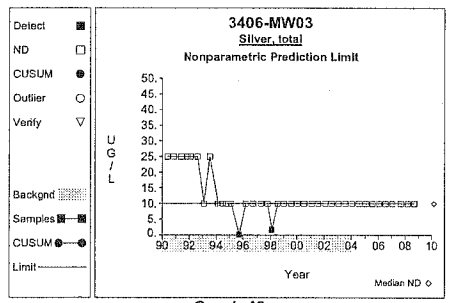
Graph 39



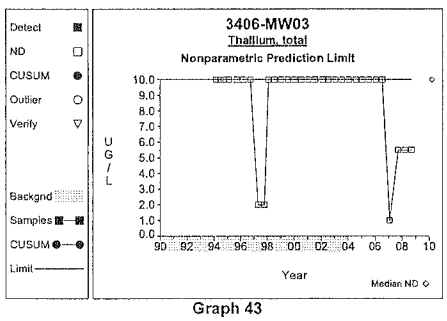
Graph 40



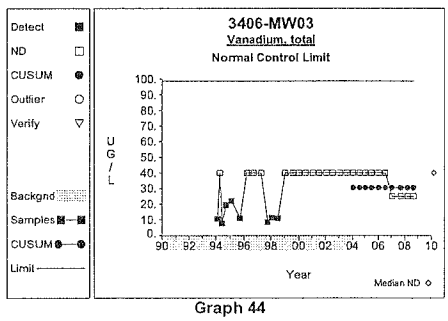
Graph 41



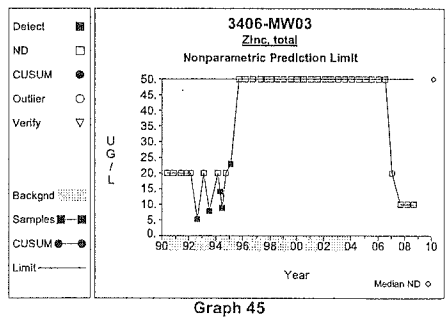
Graph 42



Graph 43

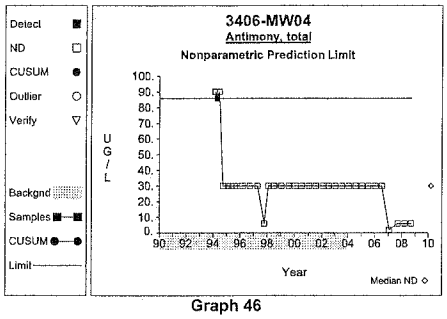


Graph 44

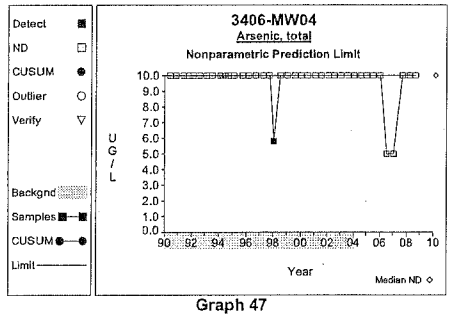


Graph 45

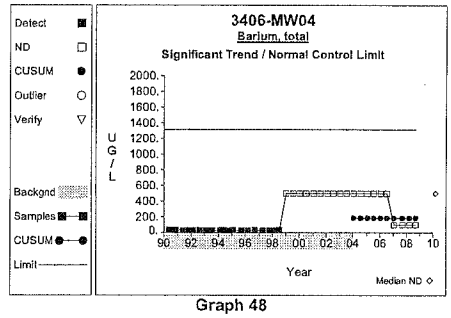
Intra-Well Control Charts



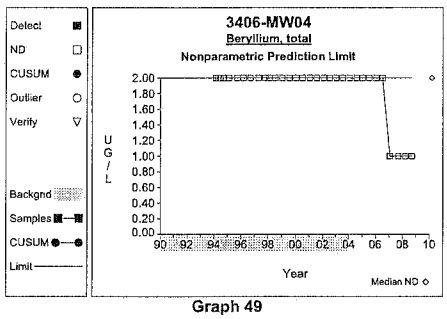
Graph 46



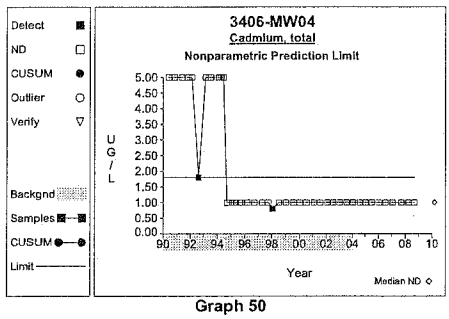
Graph 47



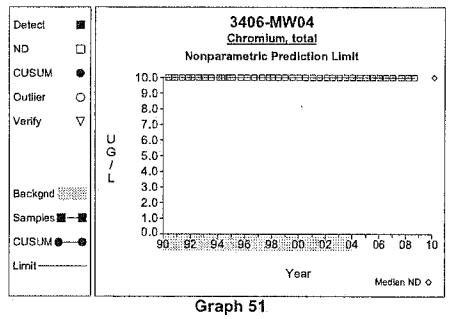
Graph 48



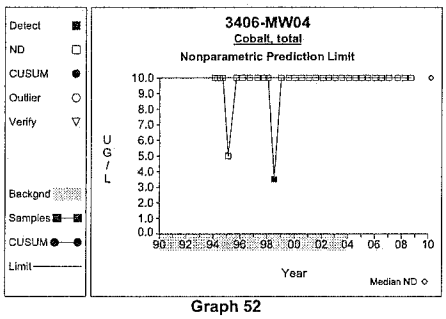
Graph 49



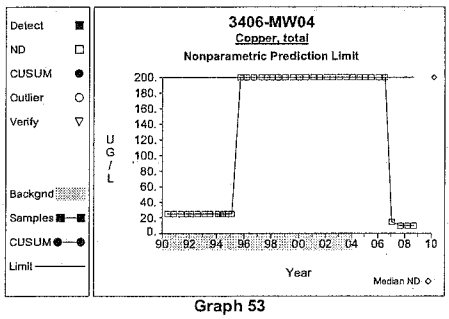
Graph 50



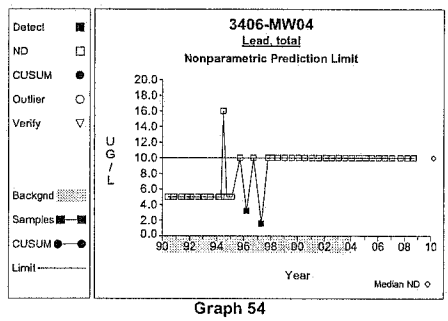
Graph 51



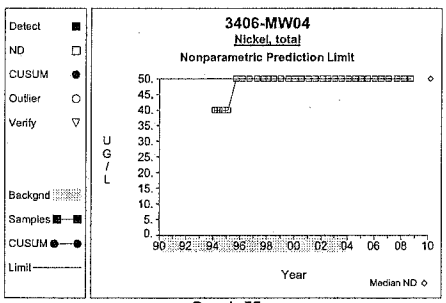
Graph 52



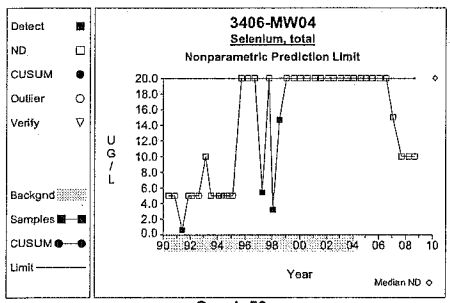
Graph 53



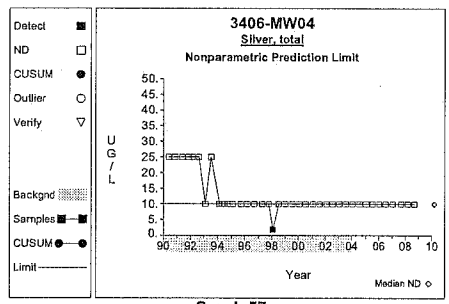
Graph 54



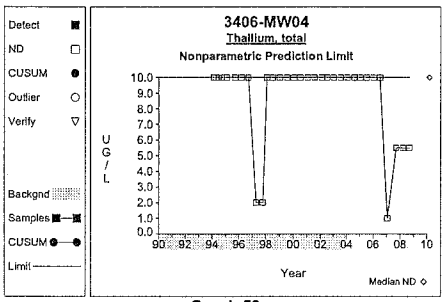
Graph 55



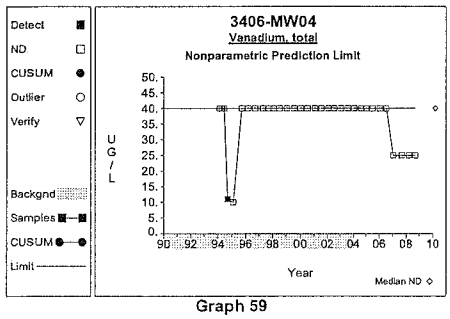
Graph 56



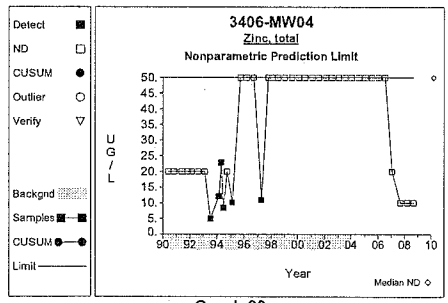
Graph 57



Graph 58

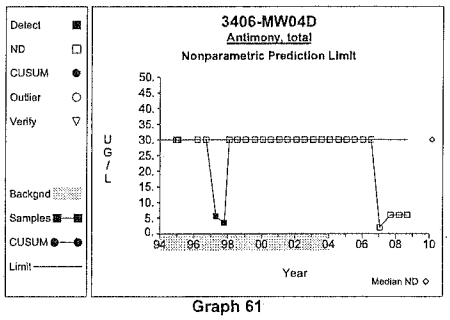


Graph 59

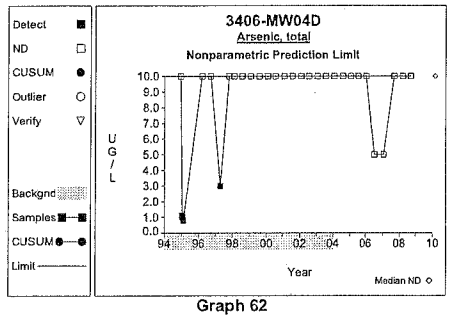


Graph 60

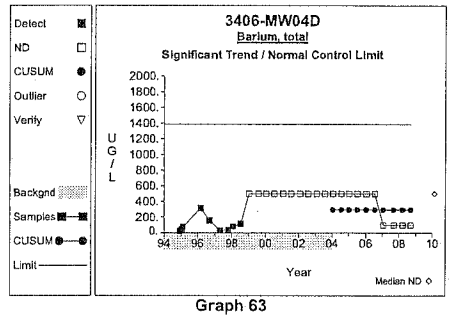
Intra-Well Control Charts



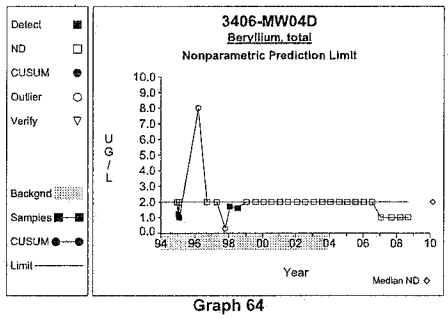
Graph 61



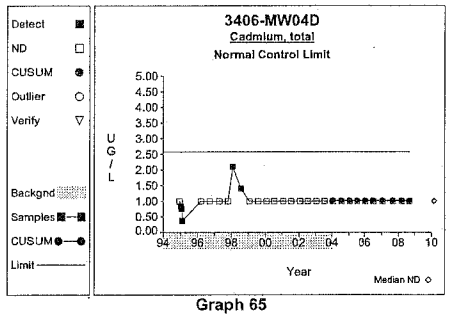
Graph 62



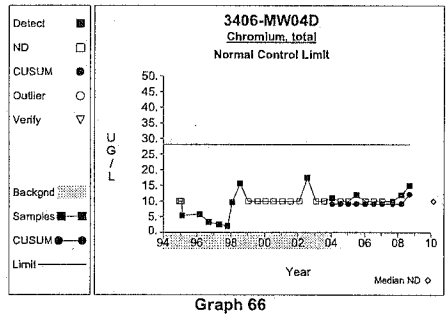
Graph 63



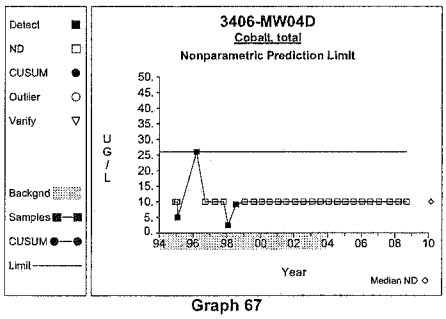
Graph 64



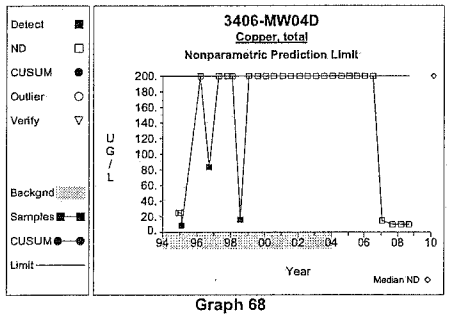
Graph 65



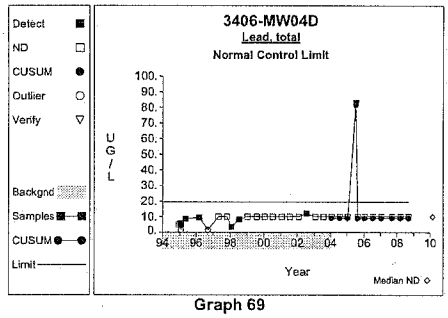
Graph 66



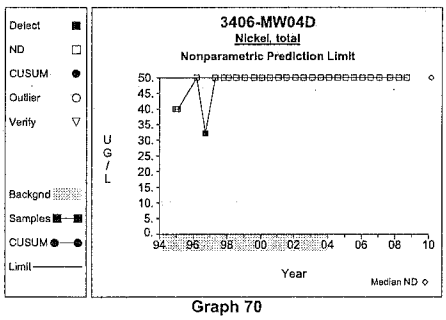
Graph 67



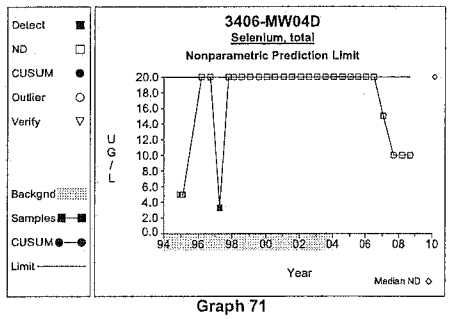
Graph 68



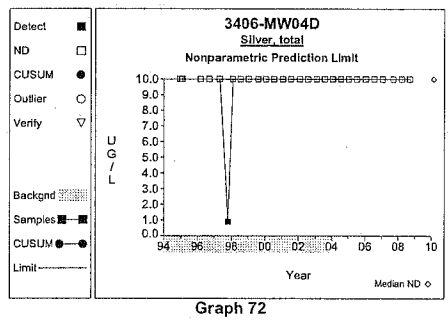
Graph 69



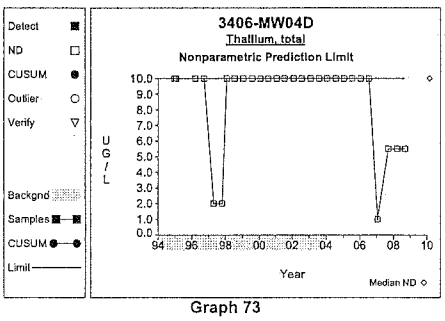
Graph 70



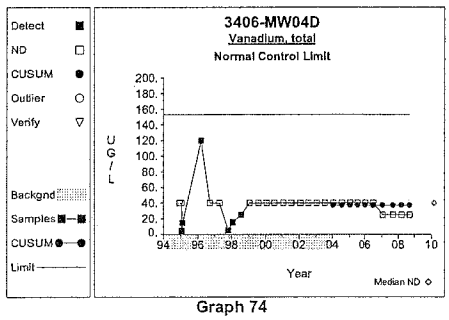
Graph 71



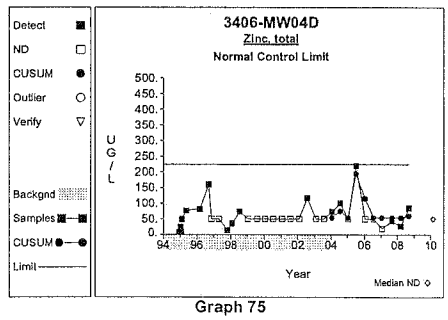
Graph 72



Graph 73

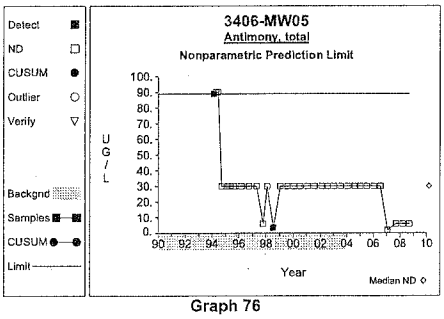


Graph 74

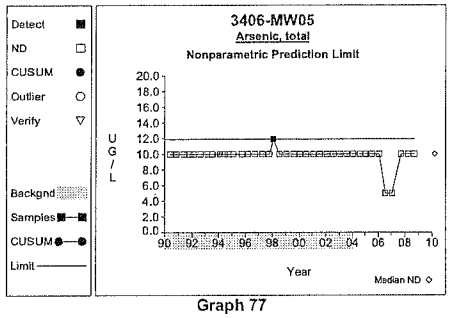


Graph 75

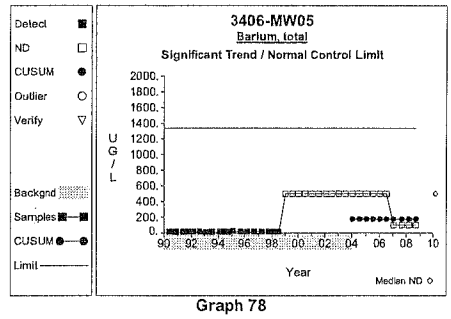
Intra-Well Control Charts



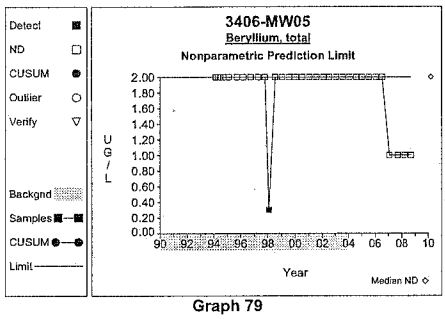
Graph 76



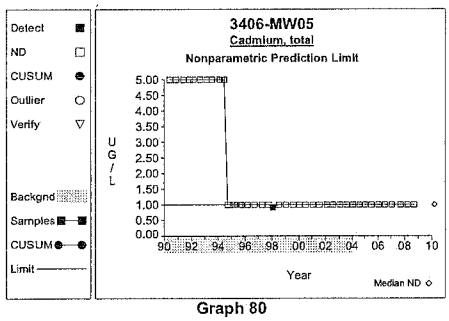
Graph 77



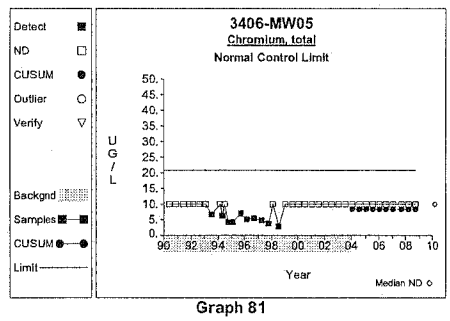
Graph 78



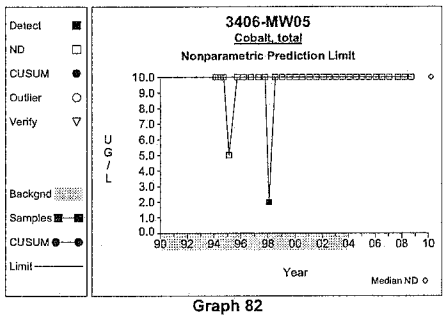
Graph 79



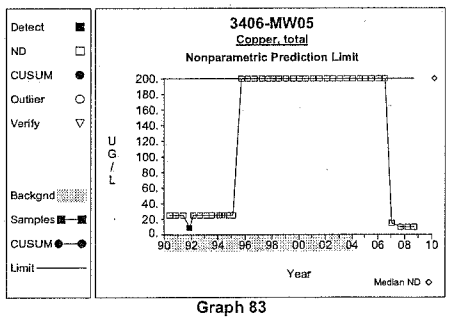
Graph 80



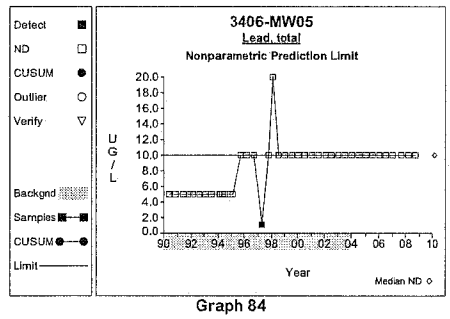
Graph 81



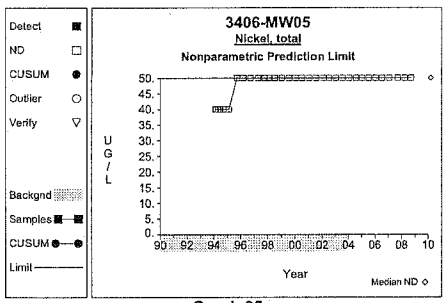
Graph 82



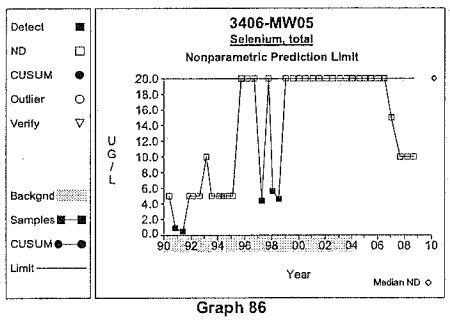
Graph 83



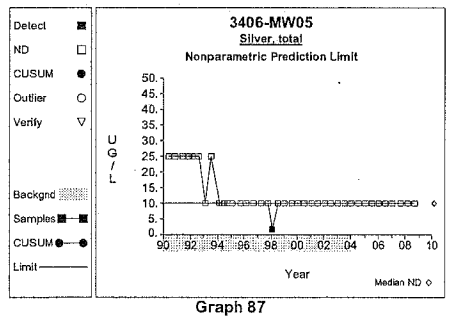
Graph 84



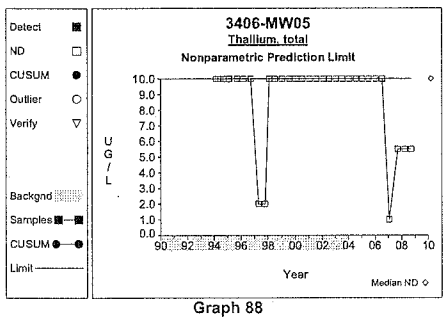
Graph 85



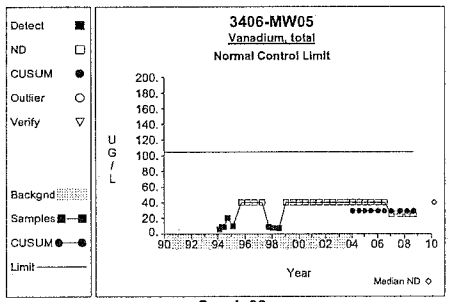
Graph 86



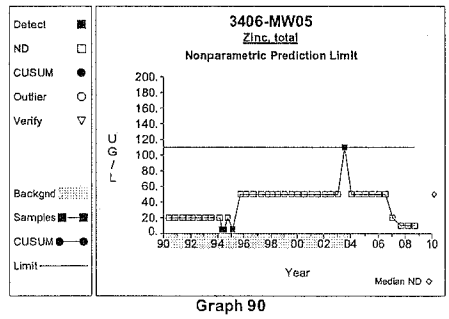
Graph 87



Graph 88

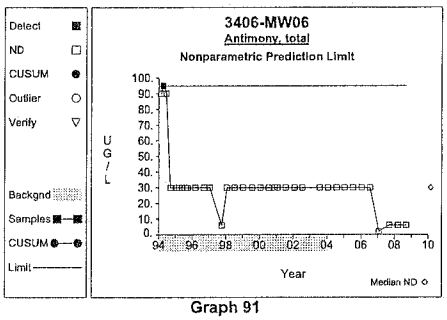


Graph 89

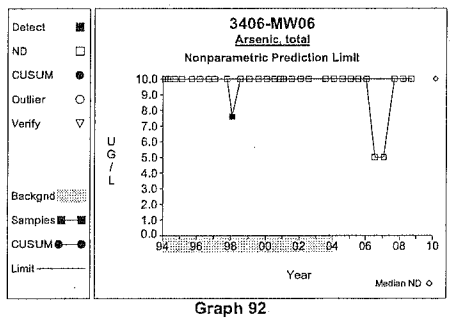


Graph 90

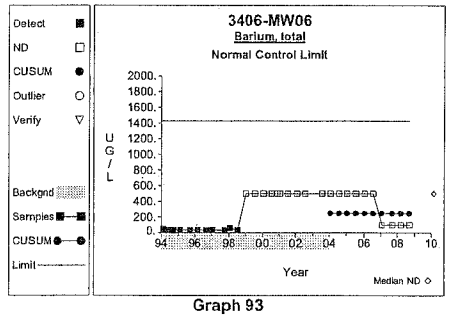
Intra-Well Control Charts



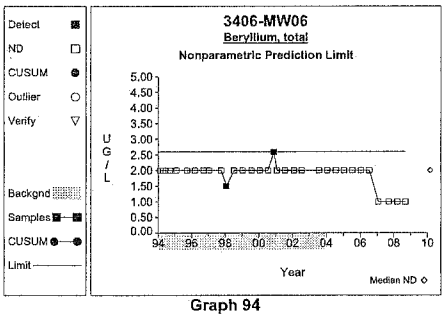
Graph 91



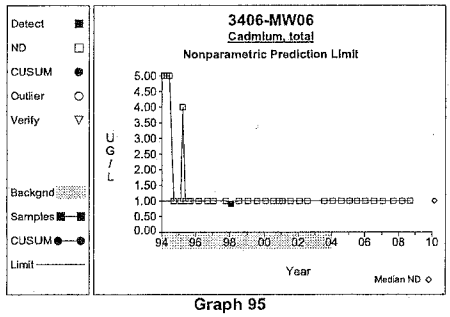
Graph 92



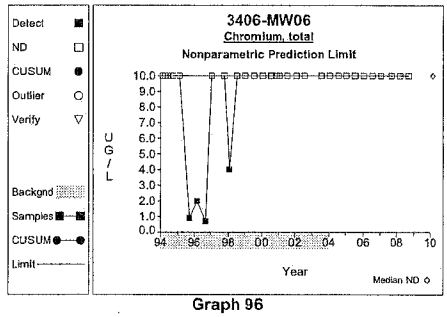
Graph 93



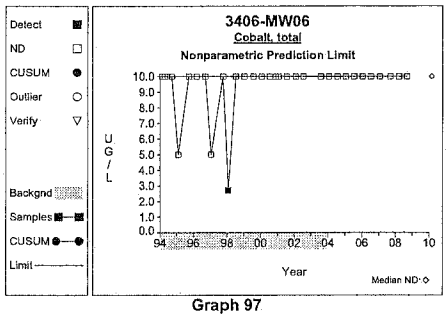
Graph 94



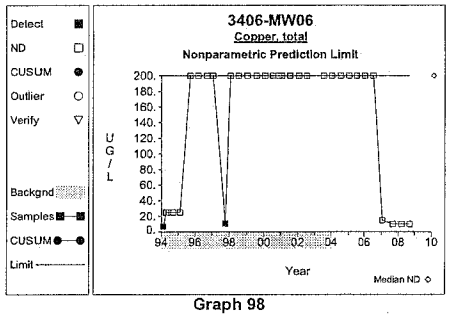
Graph 95



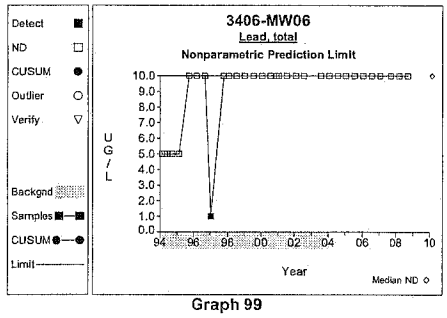
Graph 96



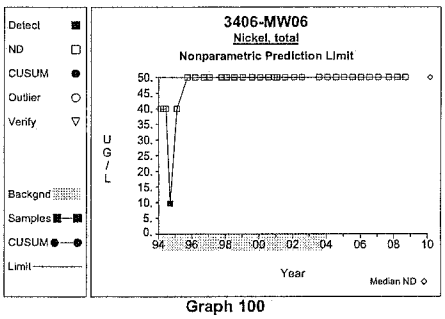
Graph 97



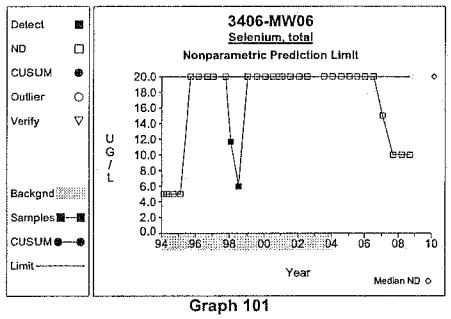
Graph 98



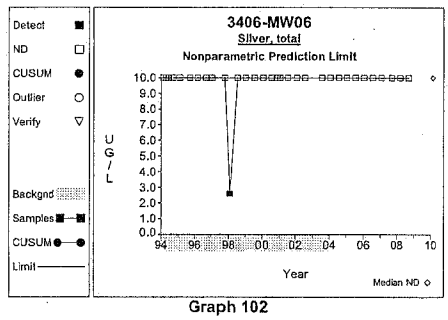
Graph 99



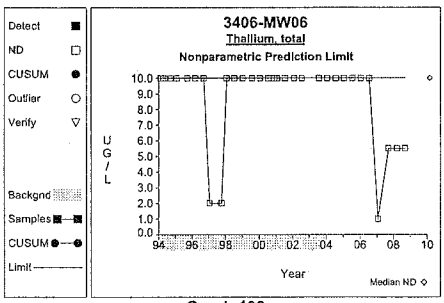
Graph 100



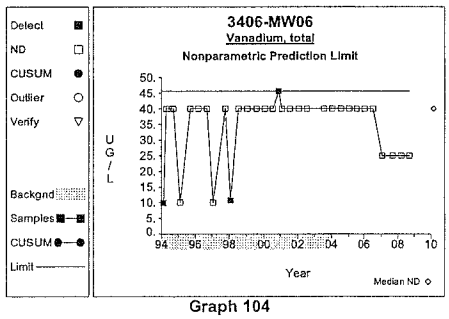
Graph 101



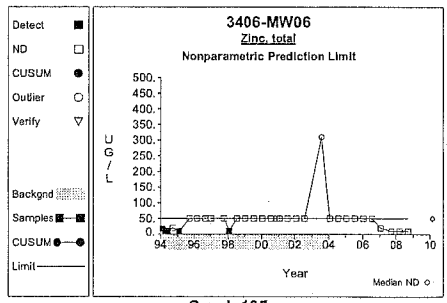
Graph 102



Graph 103

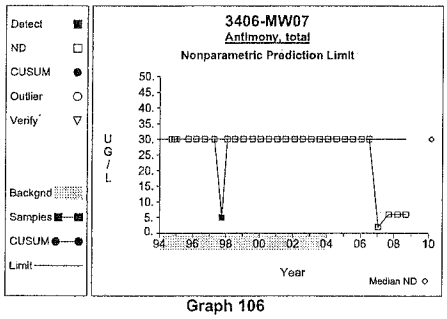


Graph 104

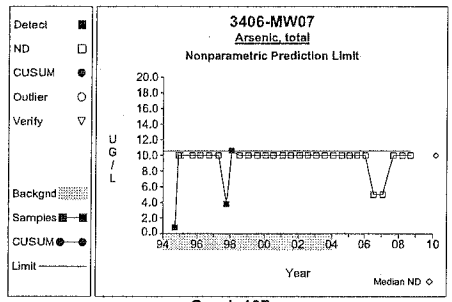


Graph 105

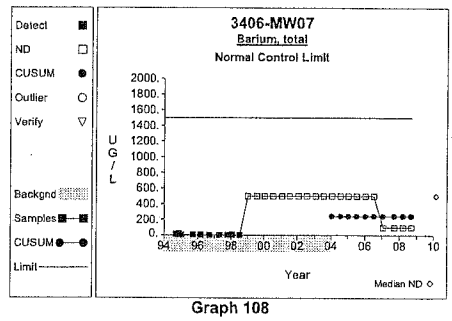
Intra-Well Control Charts



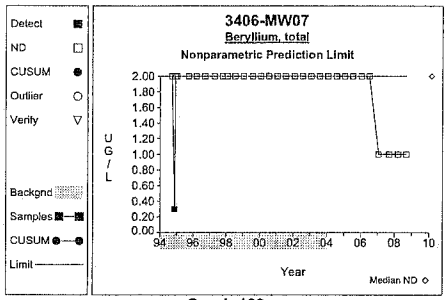
Graph 106



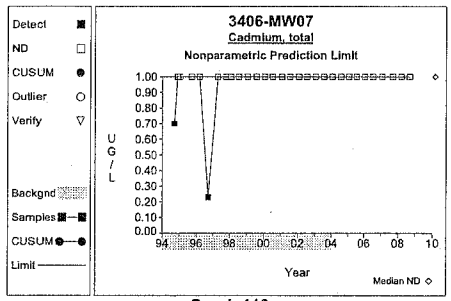
Graph 107



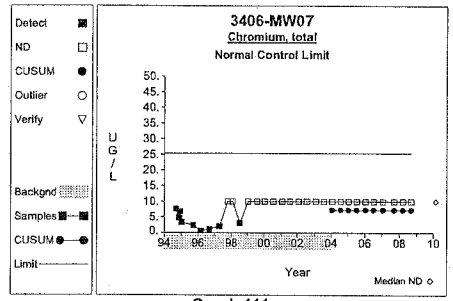
Graph 108



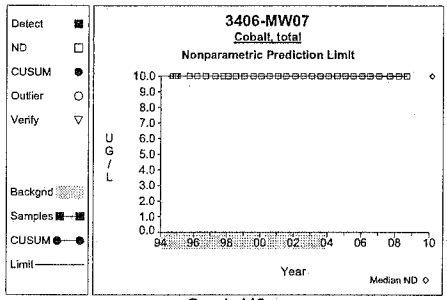
Graph 109



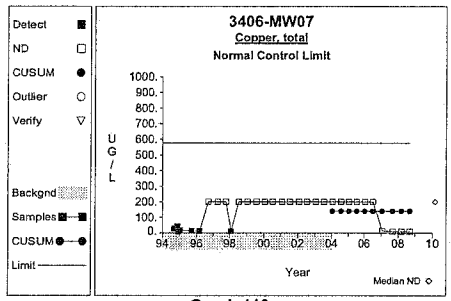
Graph 110



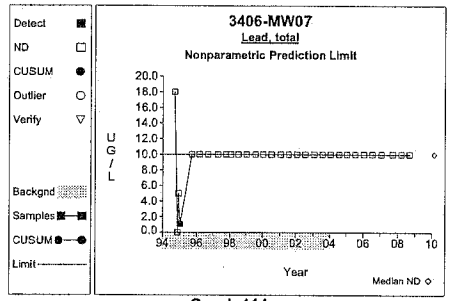
Graph 111



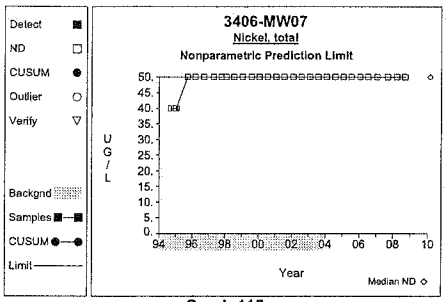
Graph 112



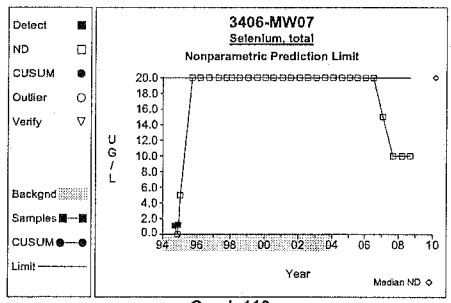
Graph 113



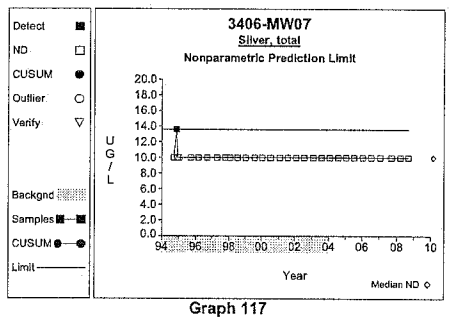
Graph 114



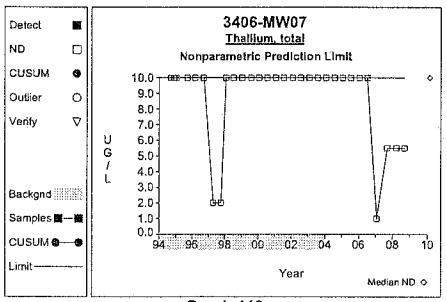
Graph 115



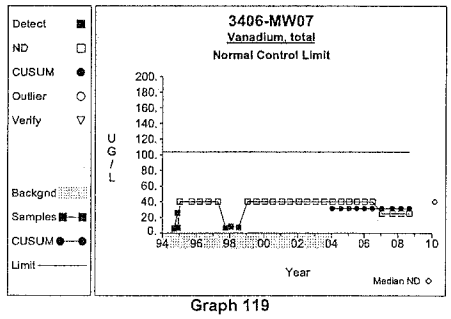
Graph 116



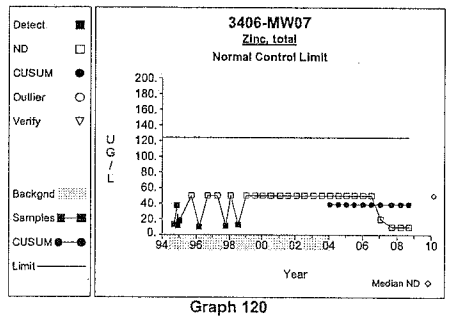
Graph 117



Graph 118

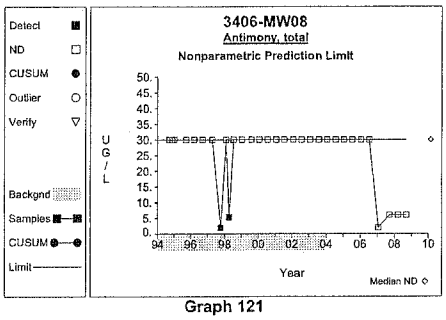


Graph 119

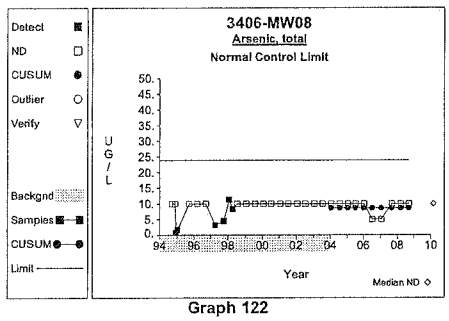


Graph 120

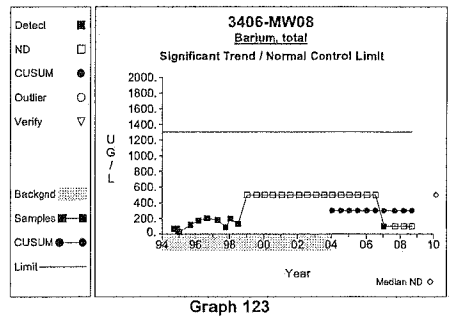
Intra-Well Control Charts



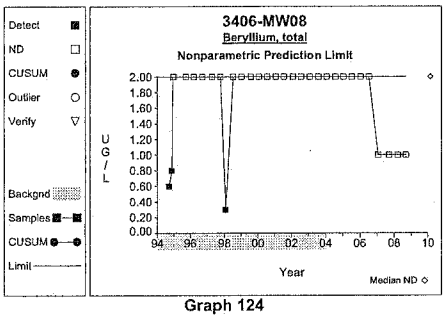
Graph 121



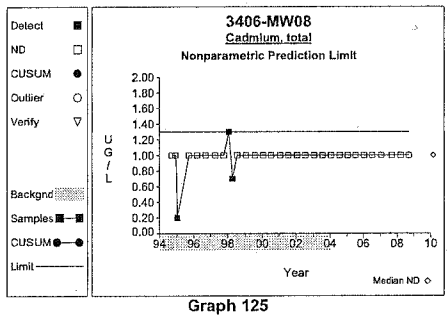
Graph 122



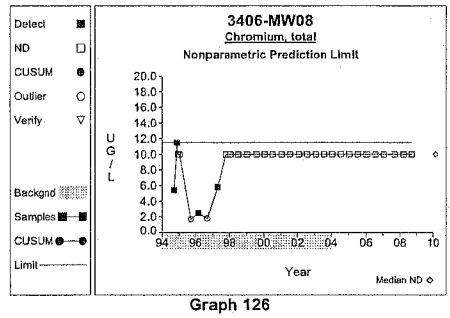
Graph 123



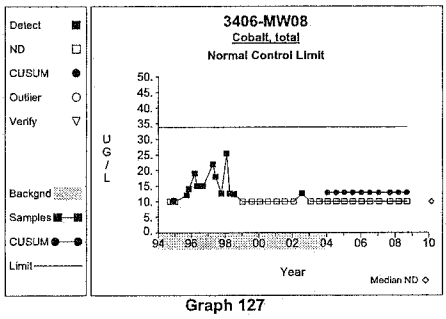
Graph 124



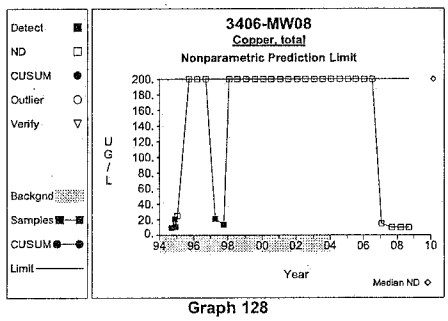
Graph 125



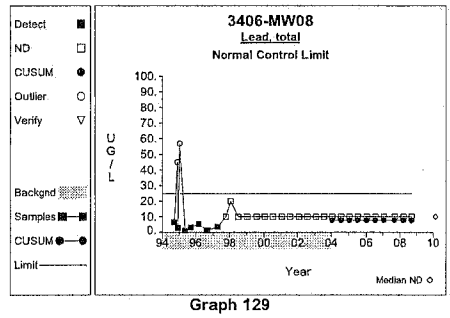
Graph 126



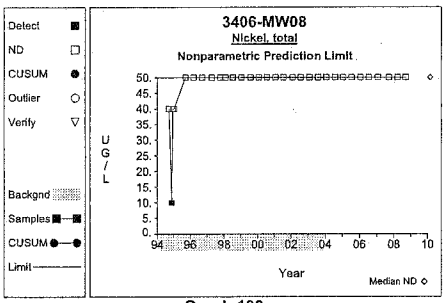
Graph 127



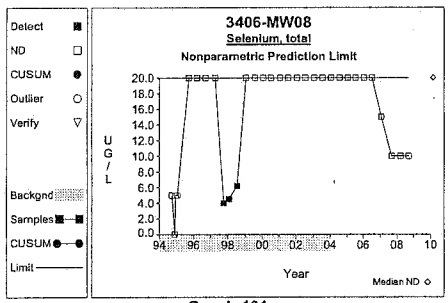
Graph 128



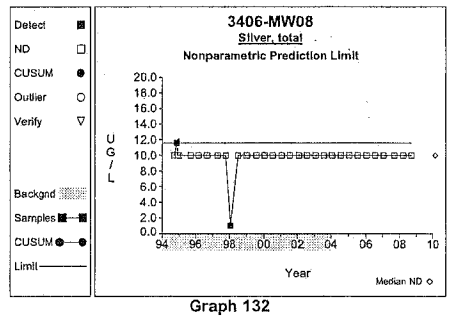
Graph 129



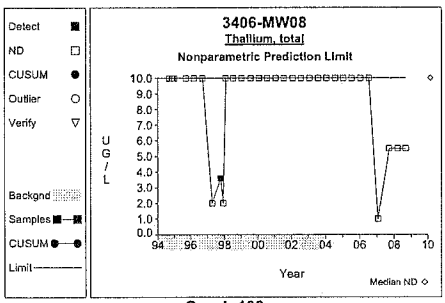
Graph 130



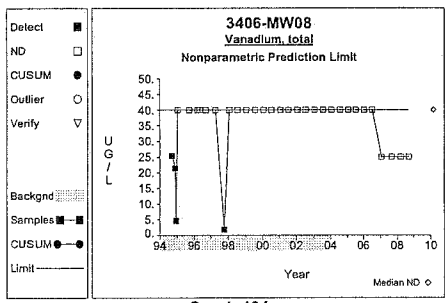
Graph 131



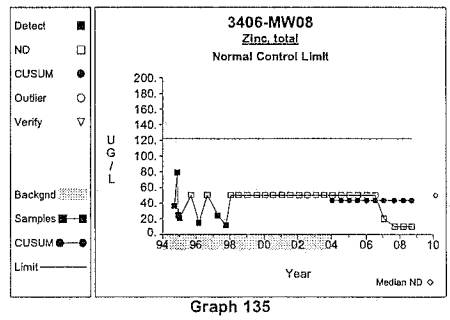
Graph 132



Graph 133

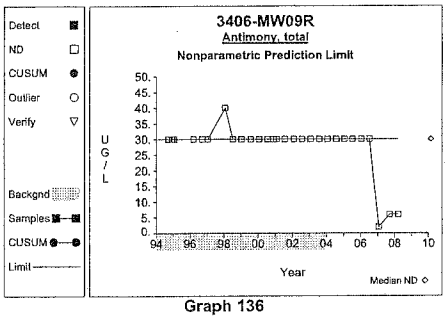


Graph 134

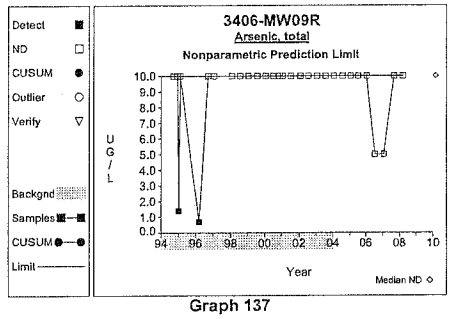


Graph 135

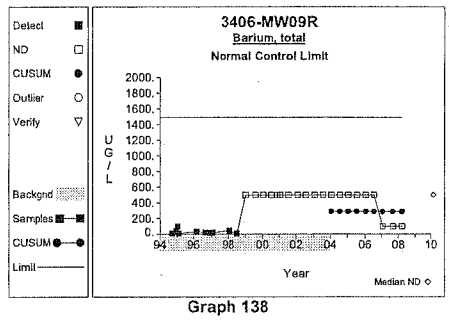
Intra-Well Control Charts



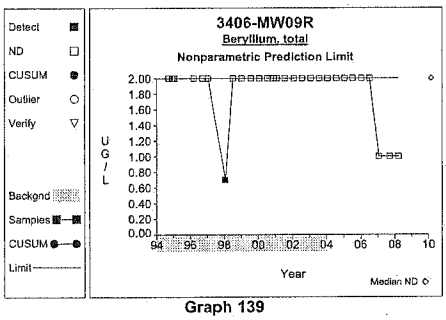
Graph 136



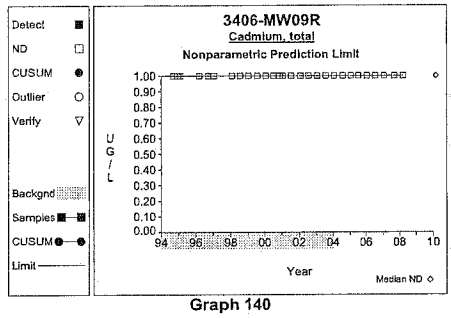
Graph 137



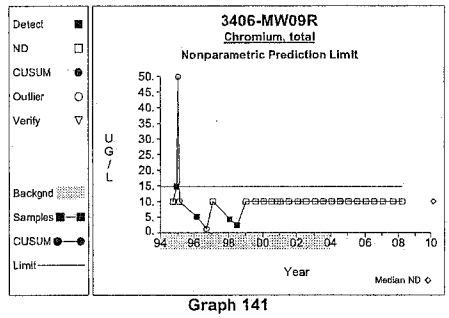
Graph 138



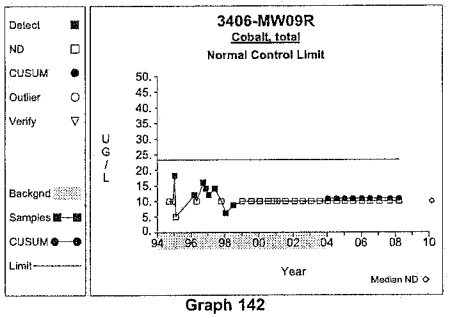
Graph 139



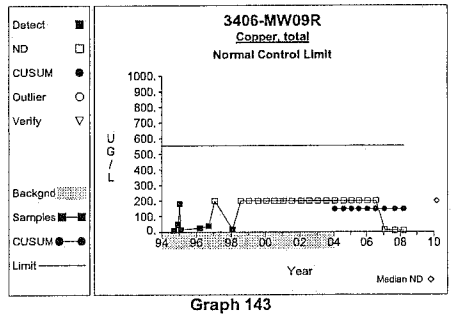
Graph 140



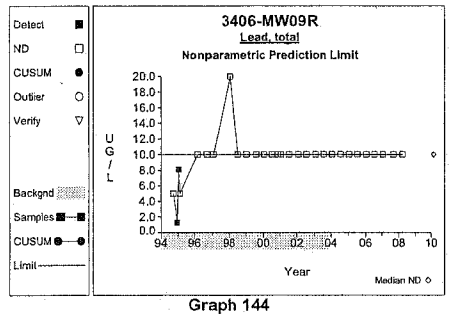
Graph 141



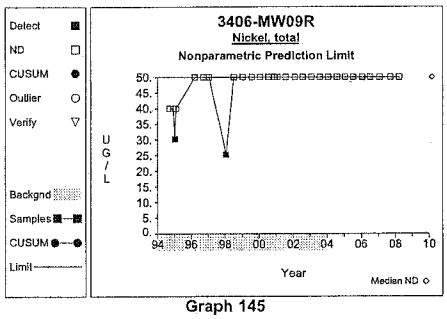
Graph 142



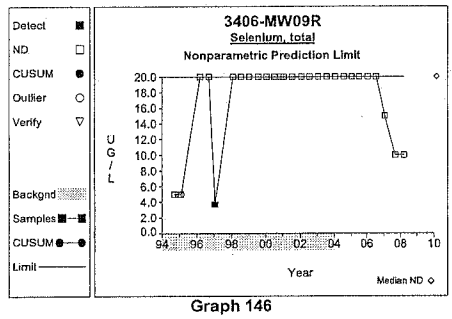
Graph 143



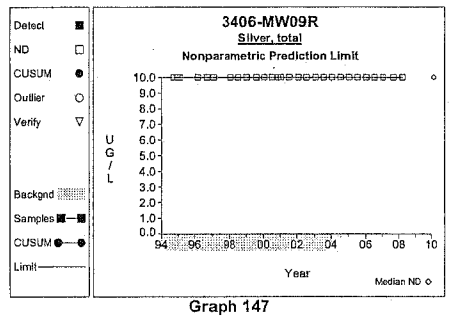
Graph 144



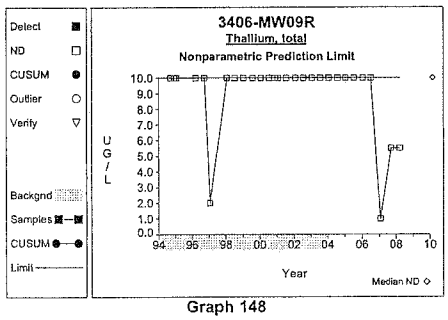
Graph 145



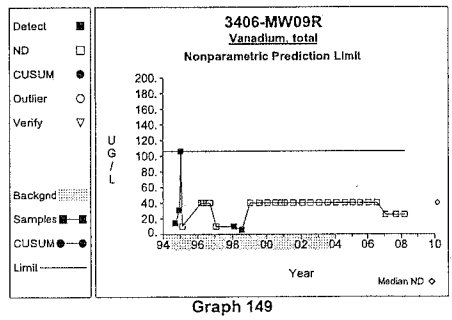
Graph 146



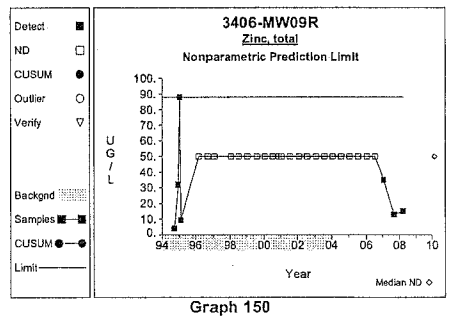
Graph 147



Graph 148

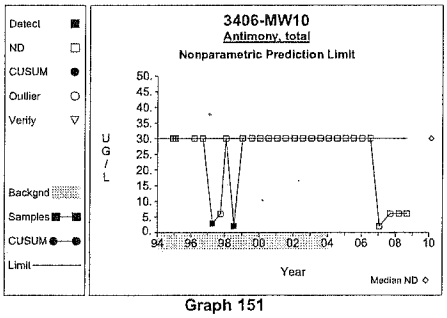


Graph 149

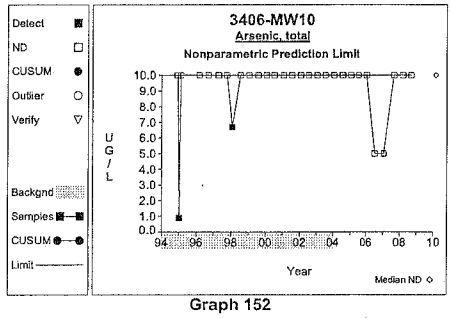


Graph 150

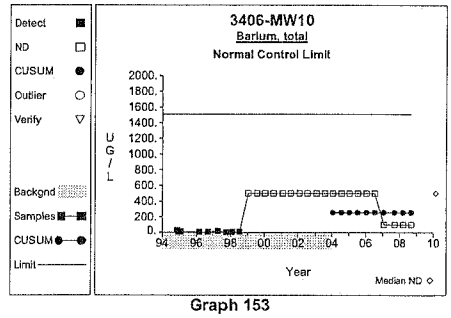
Intra-Well Control Charts



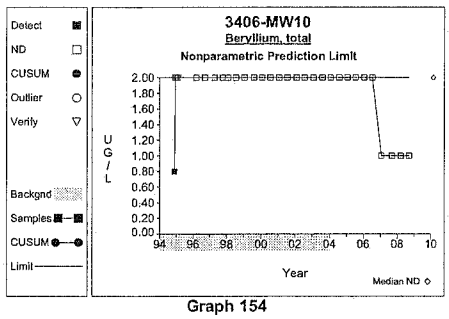
Graph 151



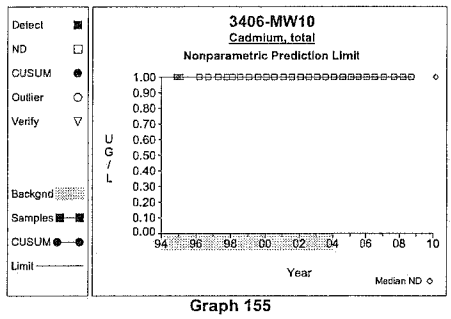
Graph 152



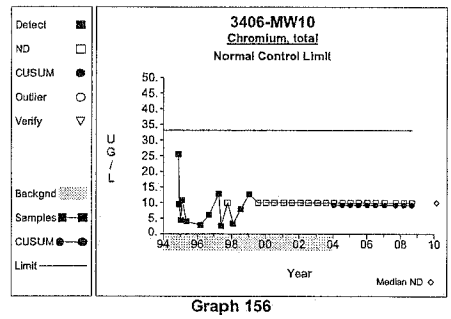
Graph 153



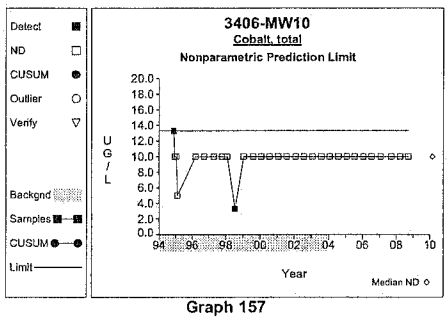
Graph 154



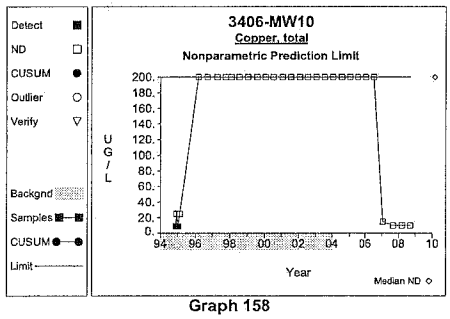
Graph 155



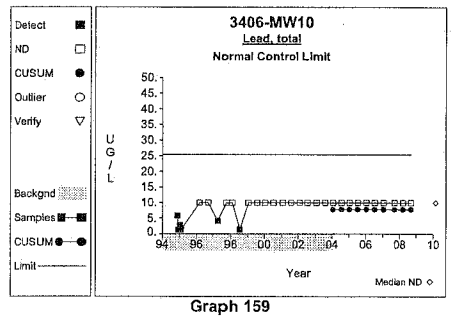
Graph 156



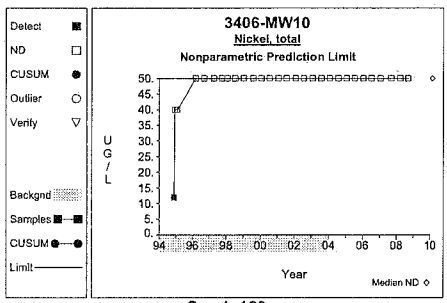
Graph 157



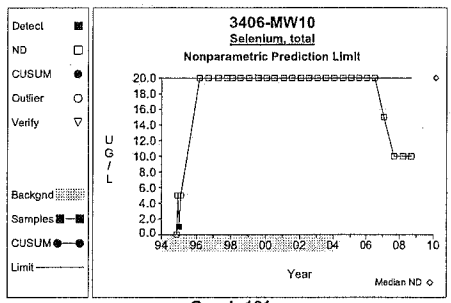
Graph 158



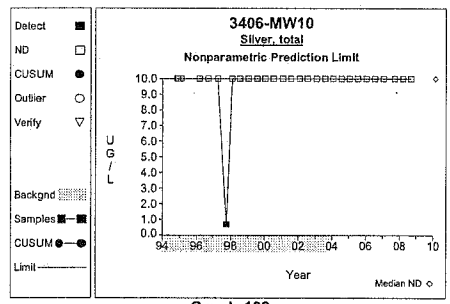
Graph 159



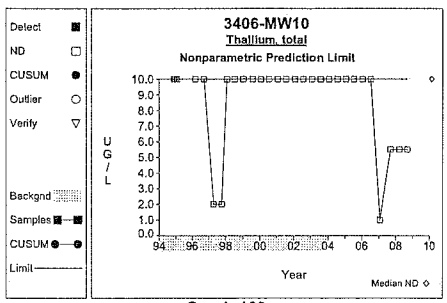
Graph 160



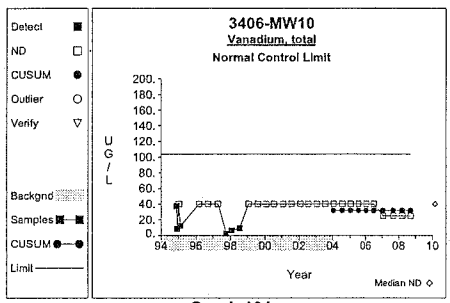
Graph 161



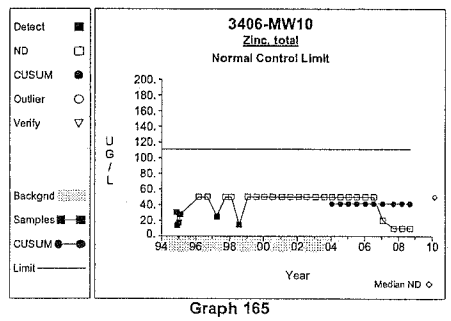
Graph 162



Graph 163

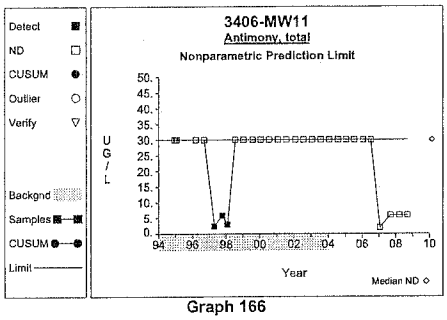


Graph 164

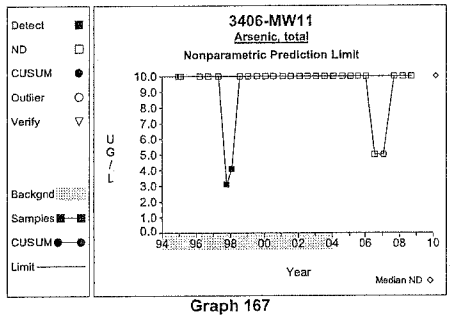


Graph 165

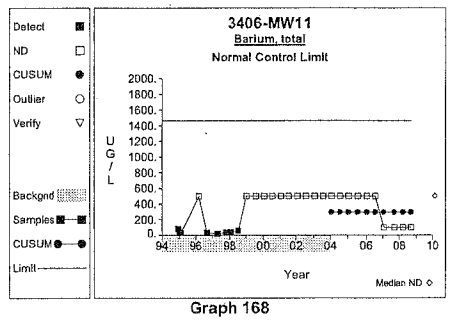
Intra-Well Control Charts



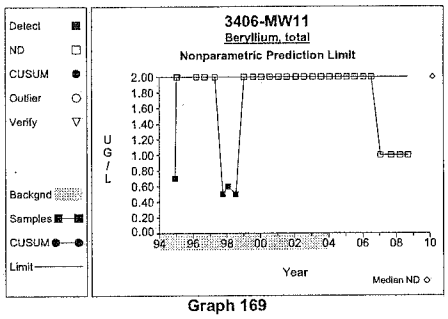
Graph 166



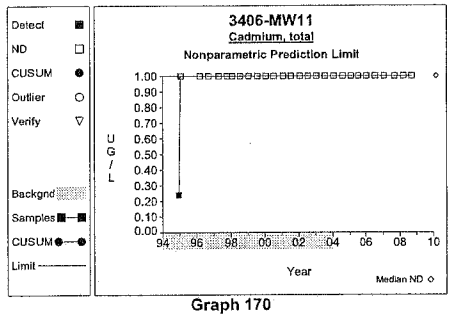
Graph 167



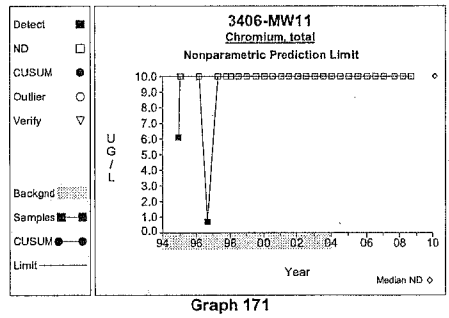
Graph 168



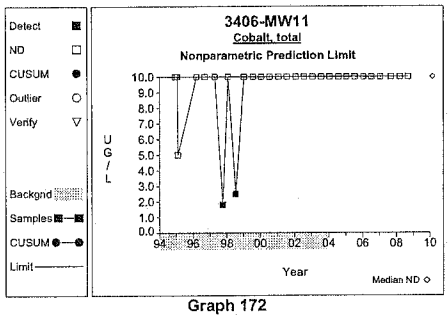
Graph 169



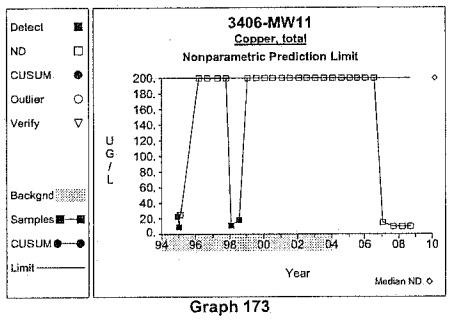
Graph 170



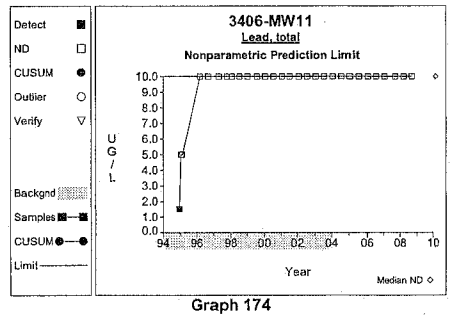
Graph 171



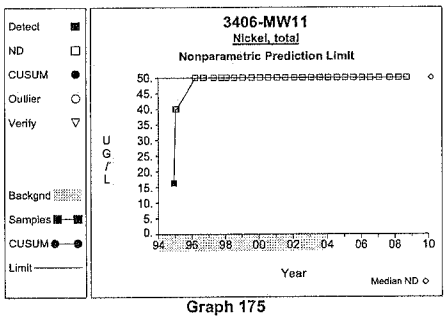
Graph 172



Graph 173



Graph 174



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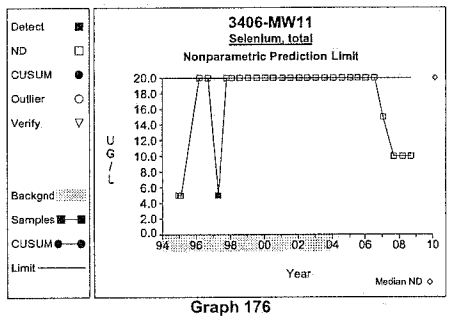
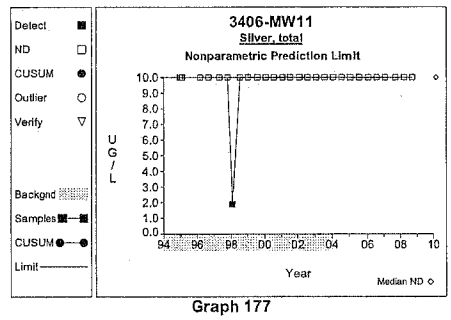
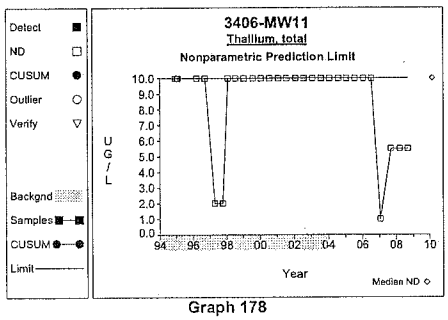


Graph 176



Graph 177



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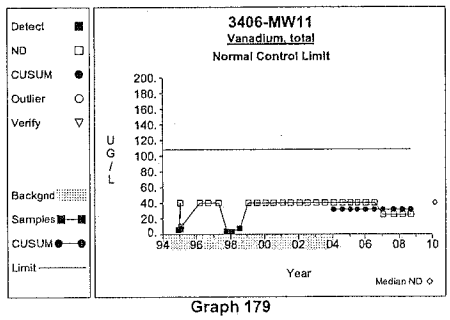

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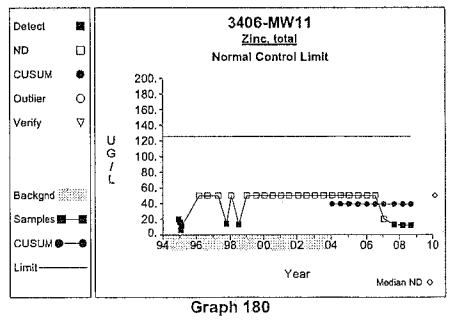
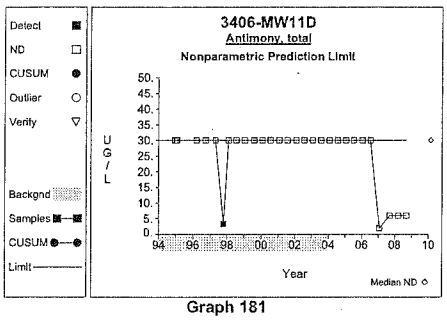
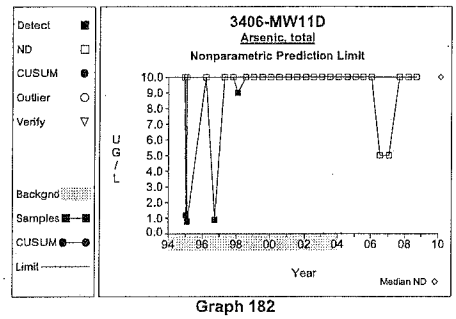


Graph 180

Intra-Well Control Charts



Graph 181



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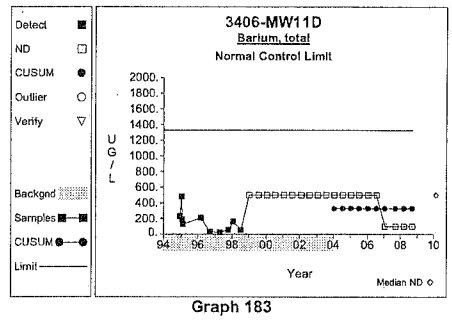

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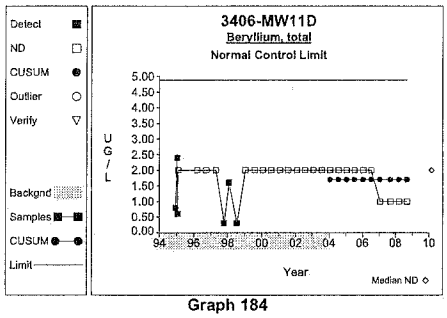

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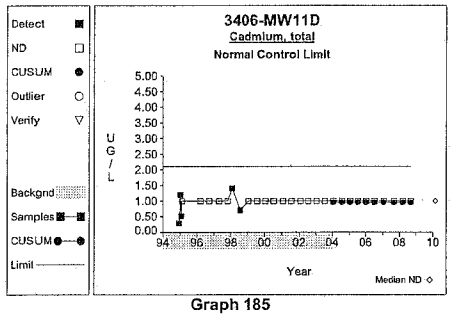

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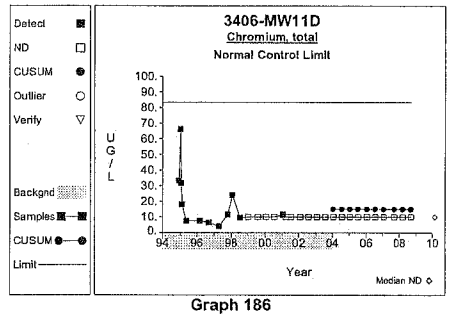

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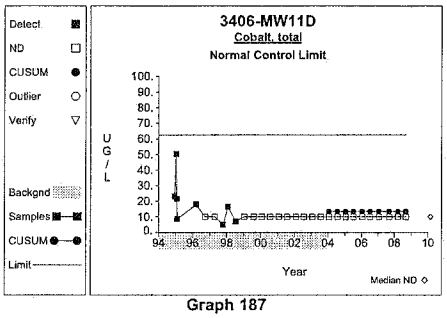
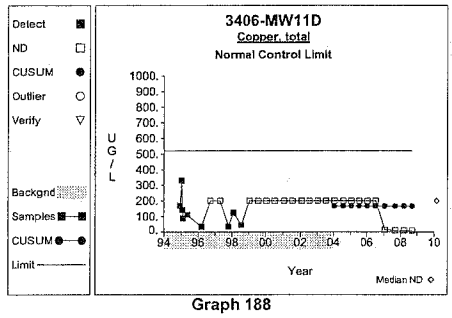


Graph 187



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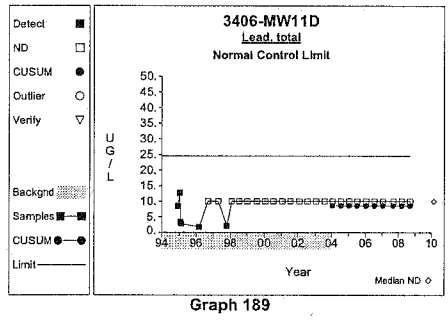
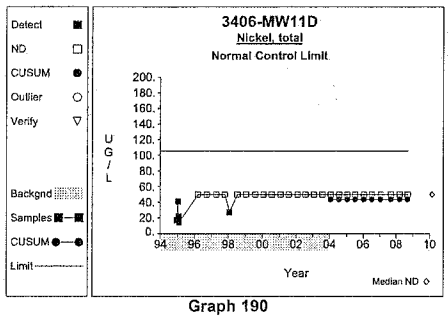
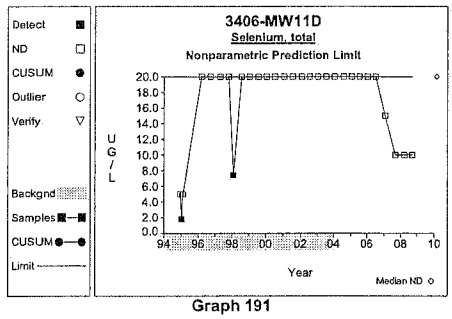


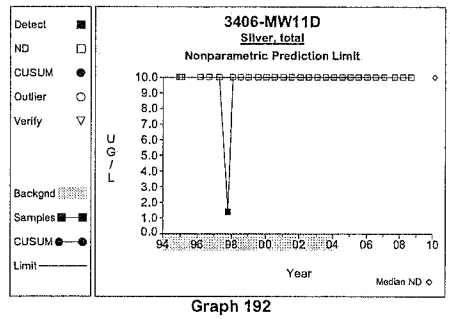
Graph 189



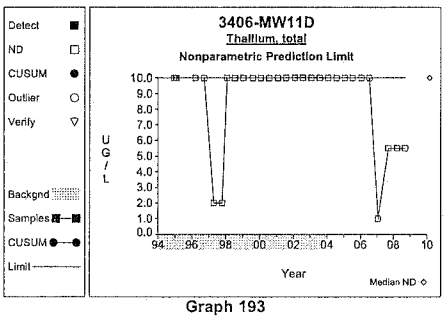
Graph 190



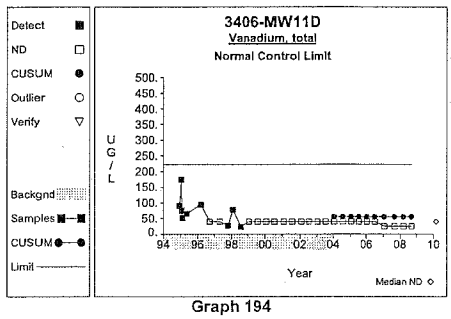
Graph 191



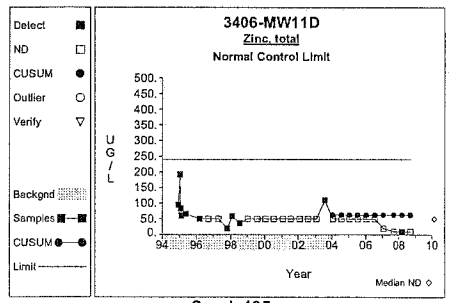
Graph 192



Graph 193

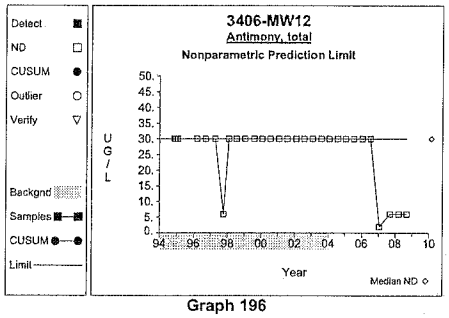


Graph 194



Graph 195

Intra-Well Control Charts



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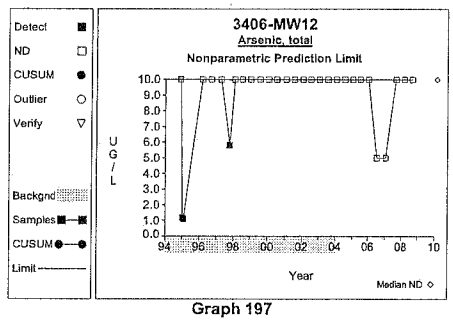

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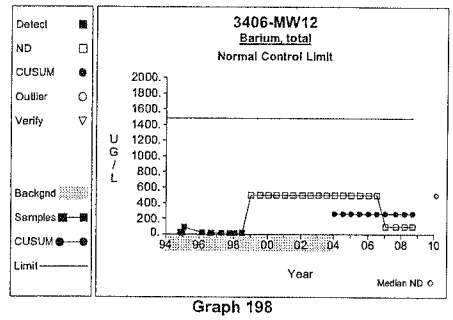

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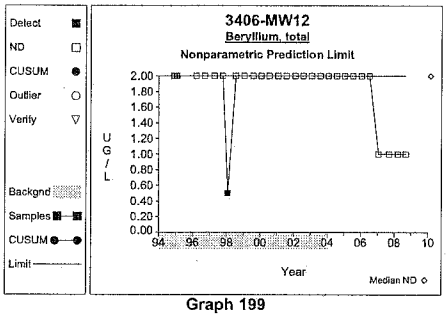

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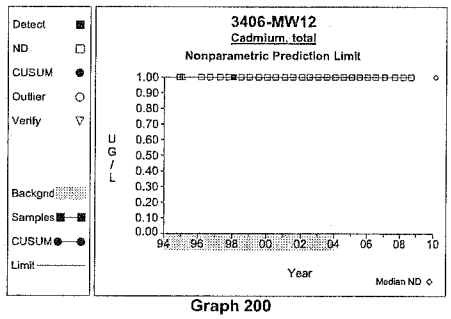
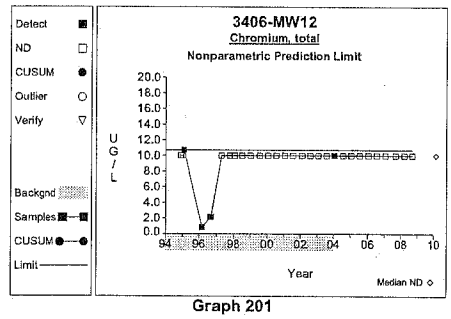
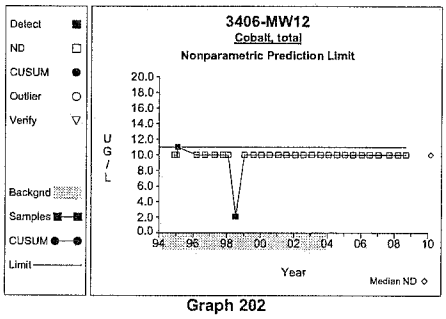


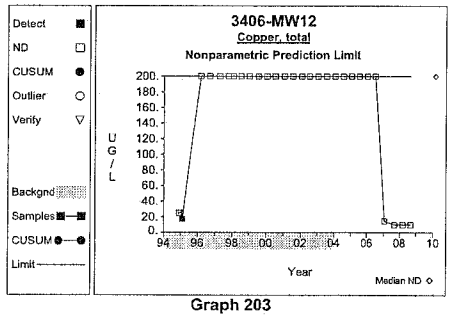
Graph 200



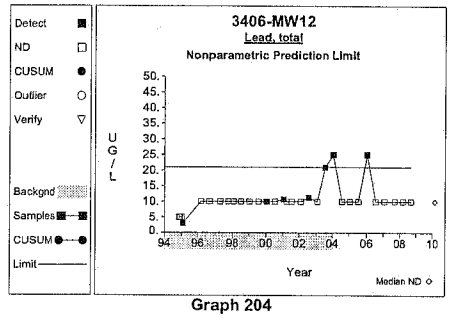
Graph 201



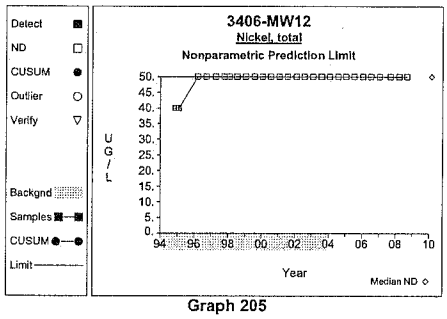
Graph 202



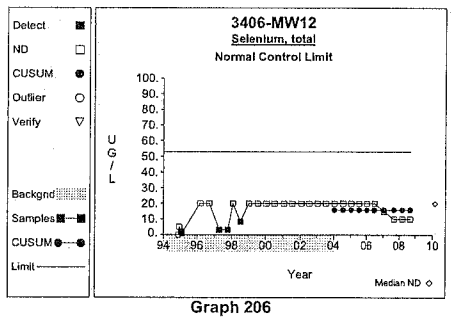
Graph 203



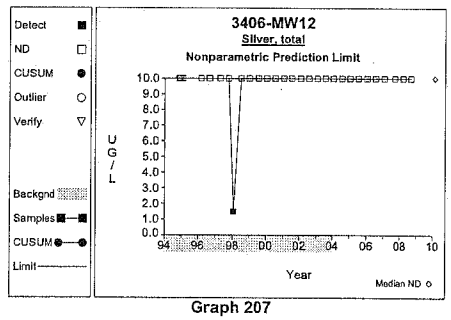
Graph 204



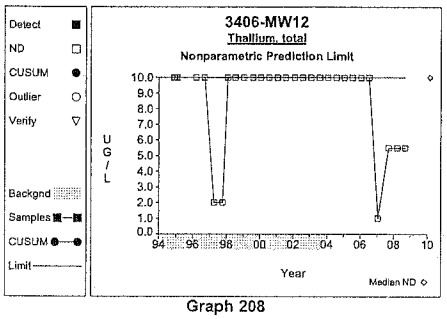
Graph 205



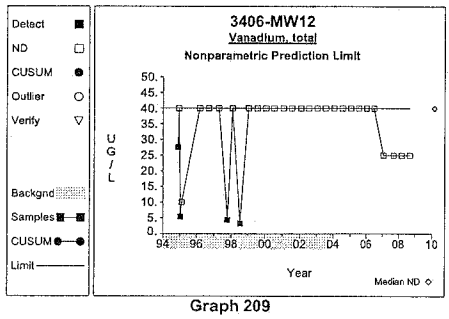
Graph 206



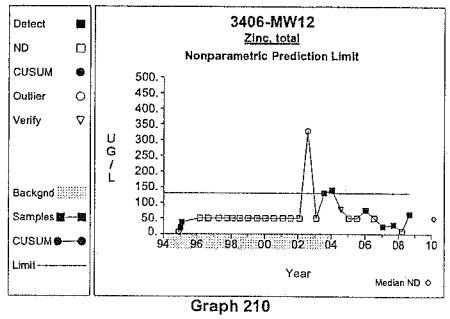
Graph 207



Graph 208

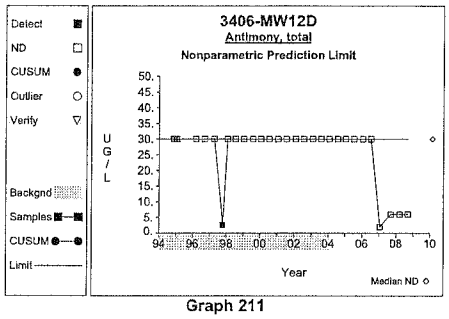


Graph 209



Graph 210

Intra-Well Control Charts



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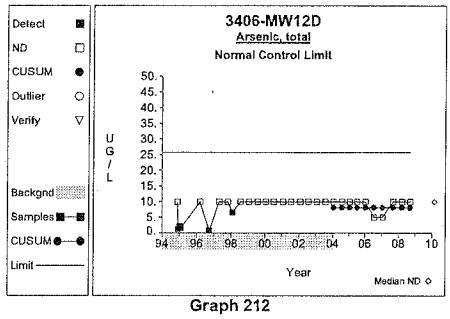
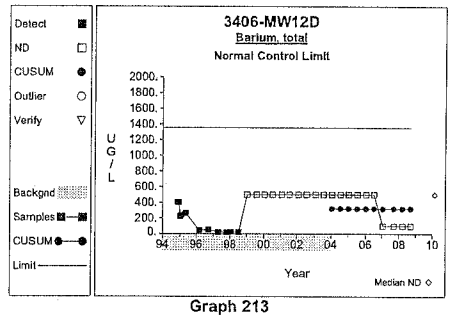
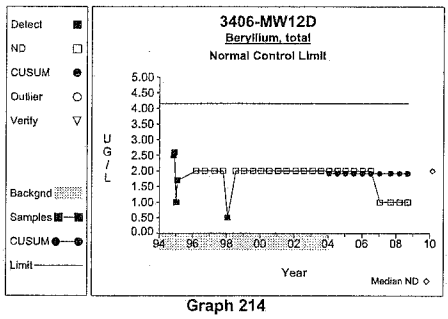


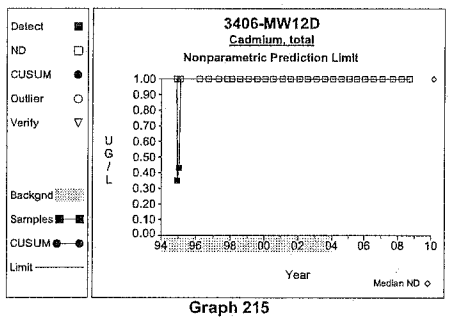
Graph 212



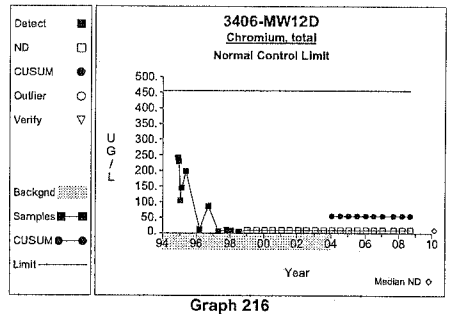
Graph 213



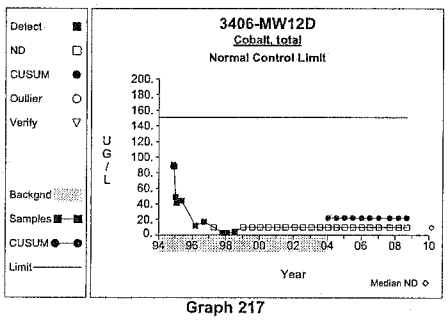
Graph 214



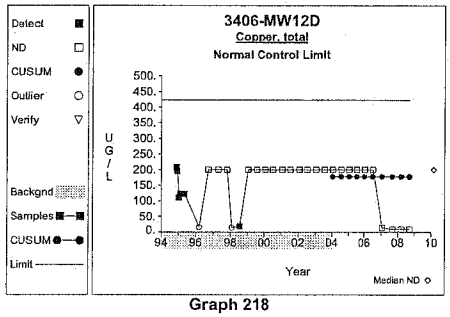
Graph 215



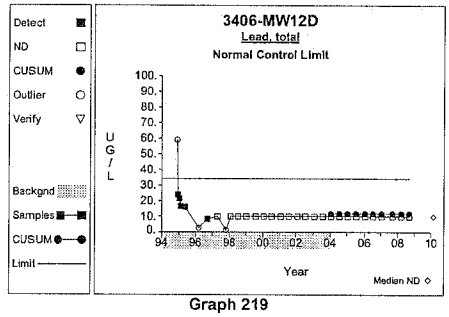
Graph 216



Graph 217



Graph 218



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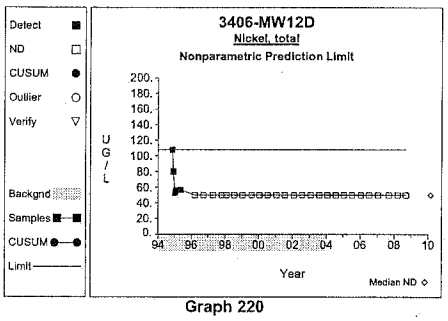
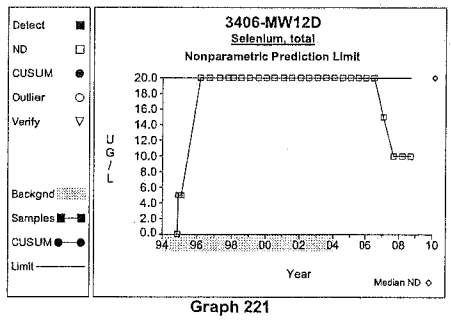
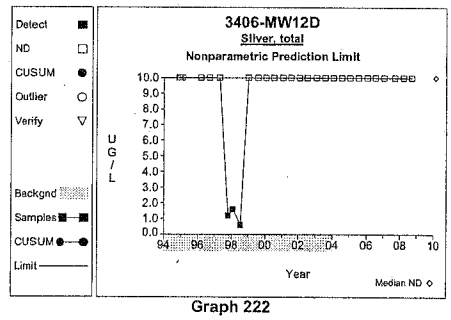


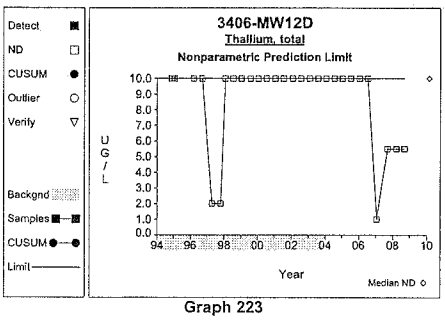
Graph 220



Graph 221



Graph 222



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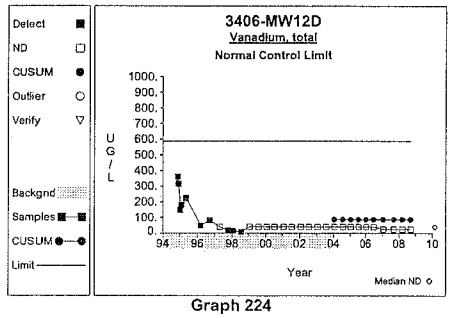
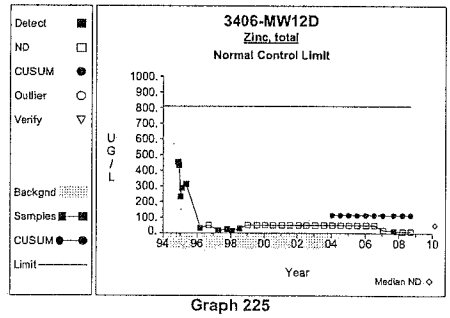


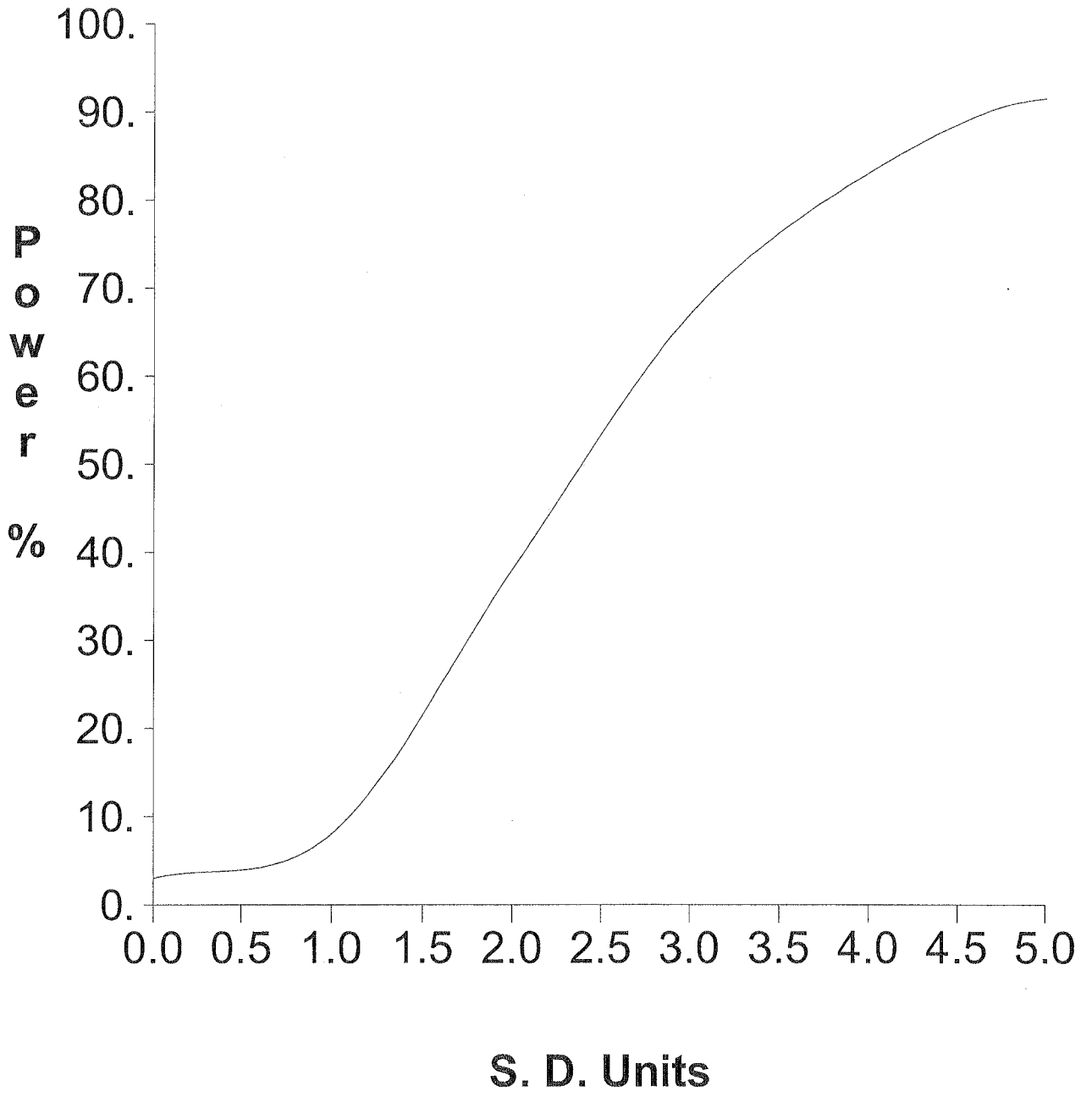
Graph 224



Graph 225

Prepared by: Otter Creek Environmental

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program



Attachment C

Summary of the VOCs Detected in the Ground Water

Table 1

Historical Volatile Organic Compound Detections

Constituent	Units	Well	Date	Result	Limit
Acetone	UG/L	3406-MW01	9/09/1996	21.0000	100.0000
Heptachlor	UG/L	3406-MW01	1/27/1998	.0200	.0500
1,1-dichloroethene	UG/L	3406-MW02	7/10/1998	.4000	5.0000
Benzene	UG/L	3406-MW02	9/13/2007	1.1000	1.0000
Benzene	UG/L	3406-MW02	3/19/2008	1.4000	1.0000
Chloroform	UG/L	3406-MW02	2/16/1994	.5000	5.0000
Chloroform	UG/L	3406-MW02	4/11/1994	.5000	5.0000
Chloroform	UG/L	3406-MW02	9/14/1994	.4000	5.0000
Methane	UG/L	3406-MW02	2/05/2008	1300.0000	5.0000
Toluene	UG/L	3406-MW02	9/09/1996	.2000	5.0000
Vinyl chloride	UG/L	3406-MW02	9/13/2007	1.3000	1.0000
Vinyl chloride	UG/L	3406-MW02	11/15/2007	1.3000	1.0000
Vinyl chloride	UG/L	3406-MW02	3/19/2008	1.4000	1.0000
Vinyl chloride	UG/L	3406-MW02	9/11/2008	3.2000	1.0000
Benzene	UG/L	3406-MW04D	1/10/1995	.2000	5.0000
Chloromethane	UG/L	3406-MW04D	12/07/1994	.5000	10.0000
Toluene	UG/L	3406-MW04D	12/07/1994	.2000	5.0000
Toluene	UG/L	3406-MW04D	1/10/1995	.3000	5.0000
Bis(2-ethylhexyl) phthalate	UG/L	3406-MW06	1/27/1998	4.0000	20.0000
Benzene	UG/L	3406-MW07	11/17/1994	.2000	5.0000
Chloromethane	UG/L	3406-MW07	3/05/1996	.6000	10.0000
Benzene	UG/L	3406-MW08	11/17/1994	.2000	5.0000
1,1,1-trichloroethane	UG/L	3406-MW09R	6/05/1997	.2000	5.0000
1,1,1-trichloroethane	UG/L	3406-MW09R	10/16/1997	.2000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	3/11/1996	1.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	9/17/1996	3.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/22/1997	9.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	6/05/1997	7.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	10/16/1997	8.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/27/1998	8.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/14/1998	2.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/20/2000	23.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	2/16/2000	24.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/12/2000	20.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	11/21/2000	26.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/24/2001	28.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/18/2001	19.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/31/2002	21.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/18/2002	24.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/21/2003	7.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/24/2003	14.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/22/2004	22.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/27/2004	20.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/19/2005	16.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/12/2005	18.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/18/2006	12.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/12/2006	11.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/24/2007	6.1000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	9/12/2007	12.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	3/19/2008	6.3000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	9/11/2008	6.1000	5.0000
1,2-dichloroethane	UG/L	3406-MW09R	3/11/1996	.2000	5.0000
3-methylphenol	UG/L	3406-MW09R	1/22/1997	2.0000	10.0000
4-methylphenol	UG/L	3406-MW09R	1/22/1997	2.0000	10.0000
Acetone	UG/L	3406-MW09R	3/11/1996	66.0000	100.0000
Acetone	UG/L	3406-MW09R	4/29/1996	35.0000	34.0000
Acetone	UG/L	3406-MW09R	9/17/1996	12.0000	100.0000
Acetone	UG/L	3406-MW09R	6/05/1997	6.0000	100.0000
Benzene	UG/L	3406-MW09R	3/11/1996	5.0000	5.0000
Benzene	UG/L	3406-MW09R	4/29/1996	3.0000	5.0000
Benzene	UG/L	3406-MW09R	9/17/1996	.9000	5.0000
Benzene	UG/L	3406-MW09R	1/22/1997	2.0000	5.0000
Benzene	UG/L	3406-MW09R	6/05/1997	1.0000	5.0000
Benzene	UG/L	3406-MW09R	10/16/1997	.9000	5.0000
Bis(2-ethylhexyl) phthalate	UG/L	3406-MW09R	1/22/1997	3.0000	50.0000
Bis(2-ethylhexyl) phthalate	UG/L	3406-MW09R	1/27/1998	9.0000	20.0000
Carbon disulfide	UG/L	3406-MW09R	3/11/1996	.2000	100.0000
Carbon disulfide	UG/L	3406-MW09R	9/17/1996	.3000	100.0000
Chloroethane	UG/L	3406-MW09R	9/14/1994	1.0000	10.0000
Chloroethane	UG/L	3406-MW09R	12/06/1994	1.0000	10.0000
Chloroethane	UG/L	3406-MW09R	1/10/1995	2.0000	10.0000
Chloroethane	UG/L	3406-MW09R	3/11/1996	7.0000	10.0000
Chloroethane	UG/L	3406-MW09R	9/17/1996	25.0000	10.0000
Chloroethane	UG/L	3406-MW09R	11/18/1996	27.0000	10.0000
Chloroethane	UG/L	3406-MW09R	1/22/1997	32.0000	10.0000
Chloroethane	UG/L	3406-MW09R	6/05/1997	16.0000	10.0000

Detections are shown for constituents selected in the VOC list and all selected wells
The Limit column refers to the laboratory reporting limit

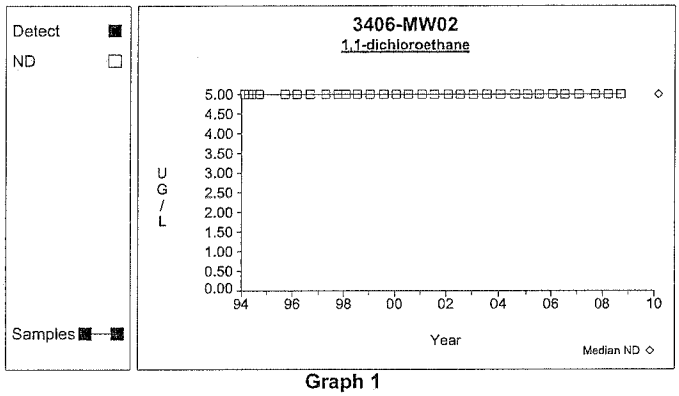
Table 1

Historical Volatile Organic Compound Detections

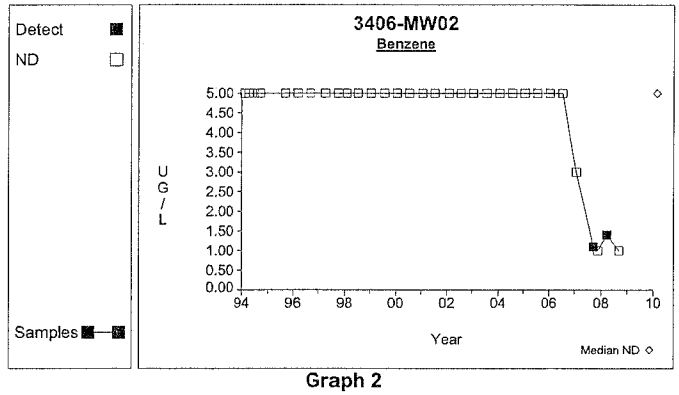
Constituent	Units	Well	Date	Result	Limit
Chloroethane	UG/L	3406-MW09R	10/16/1997	14.0000	10.0000
Chloroethane	UG/L	3406-MW09R	1/27/1998	8.0000	10.0000
Chloroethane	UG/L	3406-MW09R	7/14/1998	.5000	10.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	9/17/1996	2.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/22/1997	3.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	6/05/1997	2.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	10/16/1997	2.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/27/1998	1.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/18/2002	6.5000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/21/2003	6.9000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/24/2003	7.5000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/22/2004	12.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/27/2004	12.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/19/2005	11.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/12/2005	11.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/18/2006	8.4000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/12/2006	6.5000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	9/12/2007	5.1000	5.0000
Dichlorodifluoromethane	UG/L	3406-MW09R	1/22/1997	2.0000	10.0000
Dichlorodifluoromethane	UG/L	3406-MW09R	1/27/1998	.7000	5.0000
Ethane	UG/L	3406-MW09R	11/21/2000	.9600	.5000
Isobutyl alcohol	UG/L	3406-MW09R	1/22/1997	30.0000	50.0000
Methane	UG/L	3406-MW09R	11/21/2000	720.0000	.5000
Methane	UG/L	3406-MW09R	11/21/2000	4100.0000	100.0000
Methyl ethyl ketone	UG/L	3406-MW09R	3/11/1996	10.0000	100.0000
Methylene chloride	UG/L	3406-MW09R	3/11/1996	.5000	10.0000
Methylene chloride	UG/L	3406-MW09R	9/17/1996	2.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	1/22/1997	6.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	6/05/1997	3.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	10/16/1997	5.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	1/27/1998	4.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	7/14/1998	.3000	10.0000
Tetrachloroethene	UG/L	3406-MW09R	3/11/1996	1.0000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	9/17/1996	.5000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	1/22/1997	1.0000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	6/05/1997	1.0000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	10/16/1997	1.0000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	1/27/1998	.6000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	7/14/1998	.3000	5.0000
Toluene	UG/L	3406-MW09R	9/17/1996	.6000	5.0000
Toluene	UG/L	3406-MW09R	1/22/1997	2.0000	5.0000
Toluene	UG/L	3406-MW09R	6/05/1997	4.0000	5.0000
Total xylenes	UG/L	3406-MW09R	9/17/1996	1.0000	5.0000
Total xylenes	UG/L	3406-MW09R	1/22/1997	2.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	3/11/1996	.5000	5.0000
Trichloroethene	UG/L	3406-MW09R	9/17/1996	1.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	1/22/1997	2.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	6/05/1997	1.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	10/16/1997	2.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	1/27/1998	2.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	7/14/1998	.2000	5.0000
Vinyl chloride	UG/L	3406-MW09R	3/11/1996	.5000	10.0000
Vinyl chloride	UG/L	3406-MW09R	9/17/1996	1.0000	10.0000
Vinyl chloride	UG/L	3406-MW09R	1/22/1997	2.0000	10.0000
Vinyl chloride	UG/L	3406-MW09R	6/05/1997	1.0000	10.0000
Vinyl chloride	UG/L	3406-MW09R	10/16/1997	1.0000	10.0000
Vinyl chloride	UG/L	3406-MW09R	1/27/1998	.6000	10.0000
Chloromethane	UG/L	3406-MW10	3/05/1996	.8000	10.0000
Acetone	UG/L	3406-MW11	3/11/1996	8.0000	100.0000
Acetone	UG/L	3406-MW11D	12/07/1994	110.0000	34.0000
Chloromethane	UG/L	3406-MW12D	11/18/1994	.9000	10.0000
Chloromethane	UG/L	3406-MW12D	12/06/1994	.6000	10.0000
Methylene chloride	UG/L	3406-MW12D	7/16/1998	.2000	10.0000
1,4-dichlorobenzene	UG/L	3406-T01	9/11/2008	4.0000	3.0000
2-hexanone	UG/L	3406-T01	9/11/2008	56.0000	50.0000
Acetone	UG/L	3406-T01	1/24/2007	1300.0000	1300.0000
Acetone	UG/L	3406-T01	9/11/2008	1000.0000	670.0000
Ethylbenzene	UG/L	3406-T01	1/24/2007	15.0000	10.0000
Methyl ethyl ketone	UG/L	3406-T01	3/20/2008	1100.0000	1000.0000
Methyl ethyl ketone	UG/L	3406-T01	9/11/2008	720.0000	670.0000
Tetrachloroethene	UG/L	3406-T01	9/11/2008	6.6000	3.0000
Toluene	UG/L	3406-T01	1/24/2007	69.0000	10.0000
Total xylenes	UG/L	3406-T01	1/24/2007	33.0000	8.0000
Total xylenes	UG/L	3406-T01	3/20/2008	55.0000	40.0000
Total xylenes	UG/L	3406-T01	9/11/2008	11.0000	4.0000

Detections are shown for constituents selected in the VOC list and all selected wells
The Limit column refers to the laboratory reporting limit

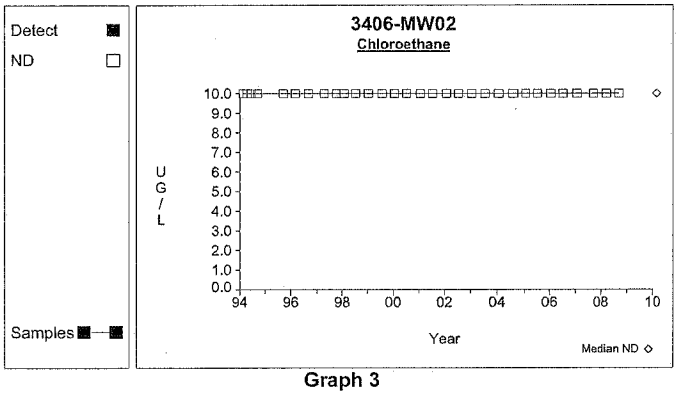
Time Series



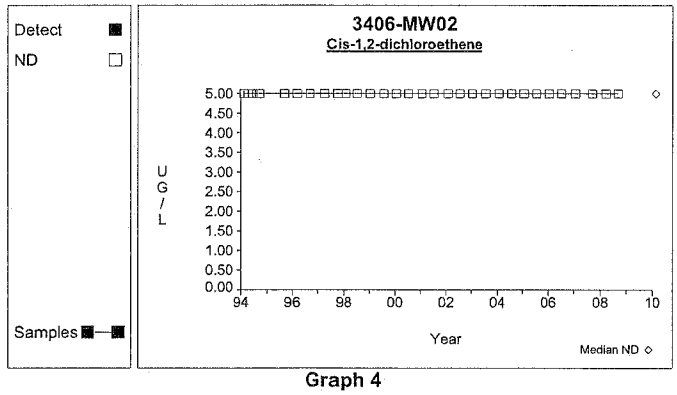
Graph 1



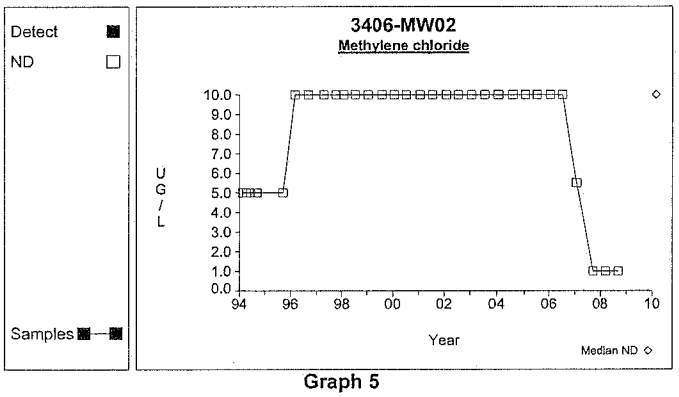
Graph 2



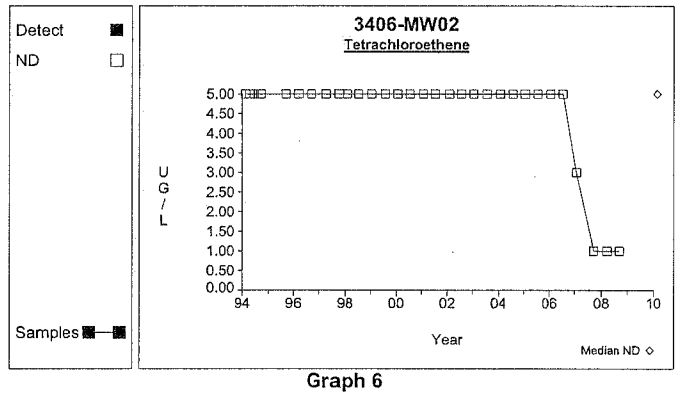
Graph 3



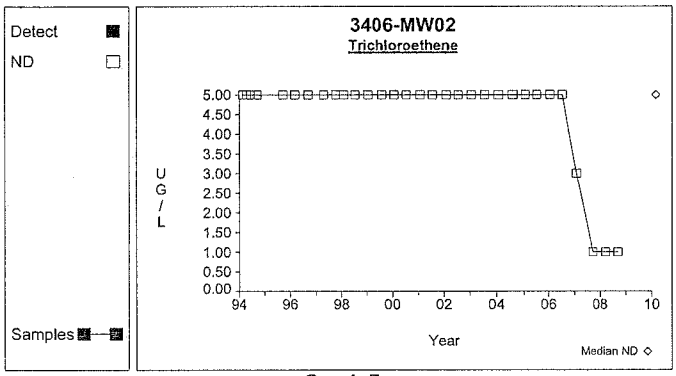
Graph 4



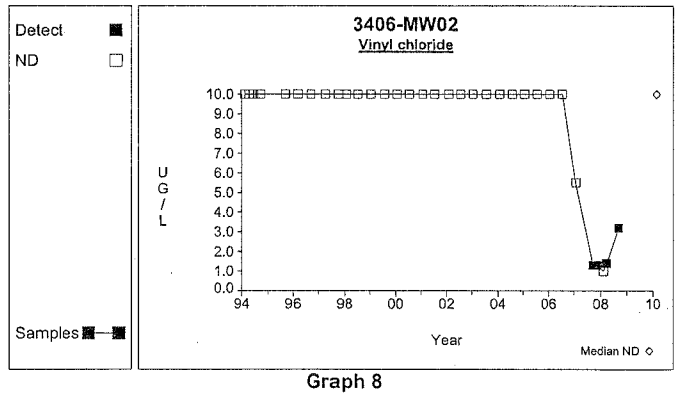
Graph 5



Graph 6

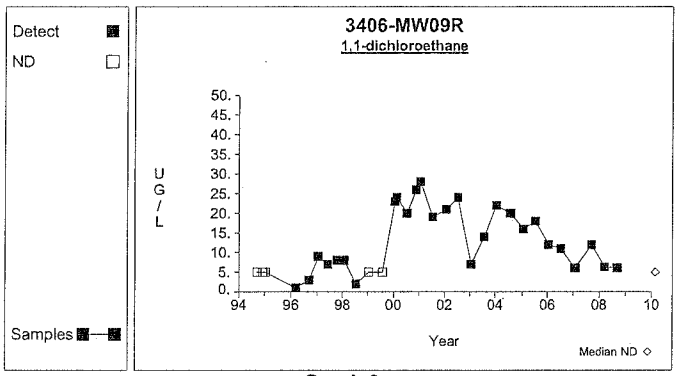


Graph 7

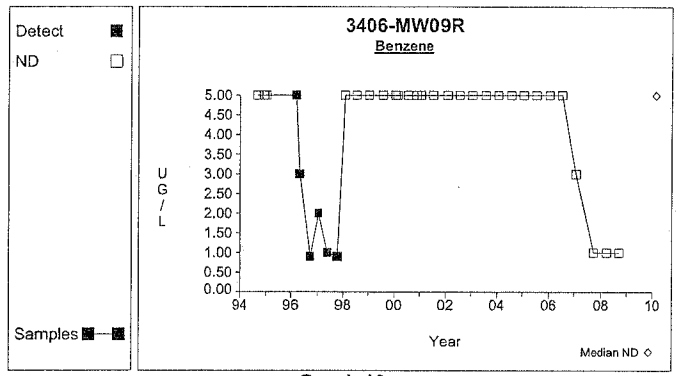


Graph 8

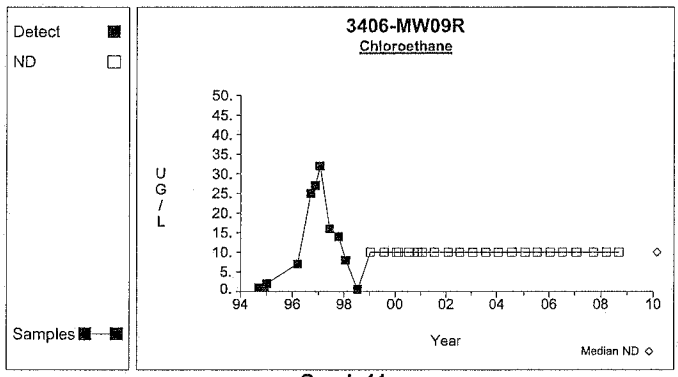
Time Series



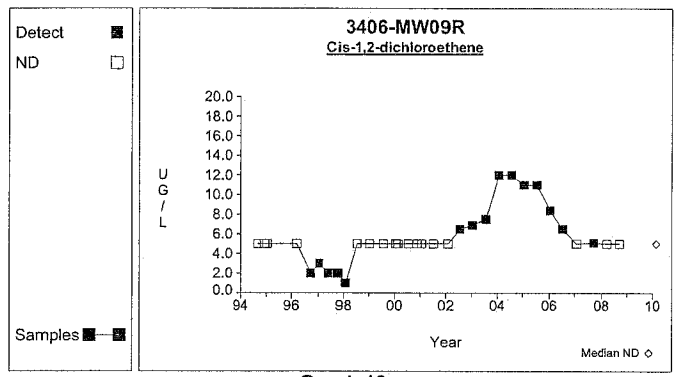
Graph 9



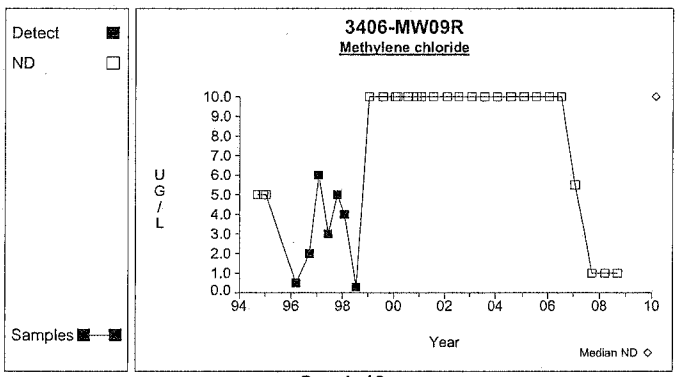
Graph 10



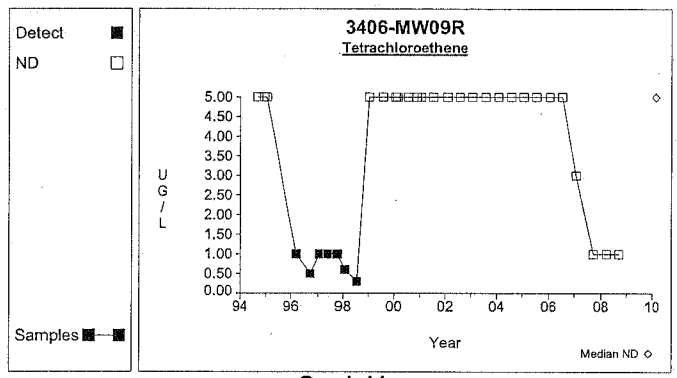
Graph 11



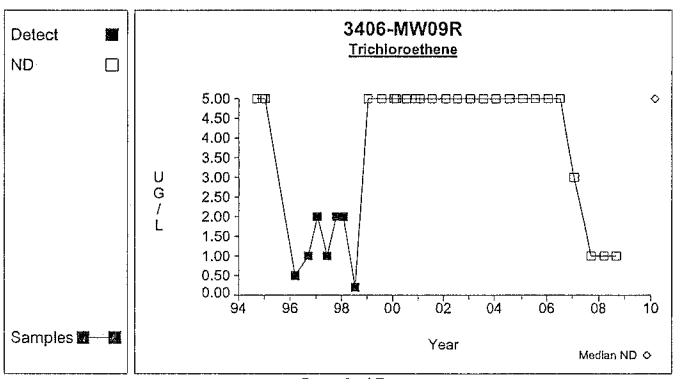
Graph 12



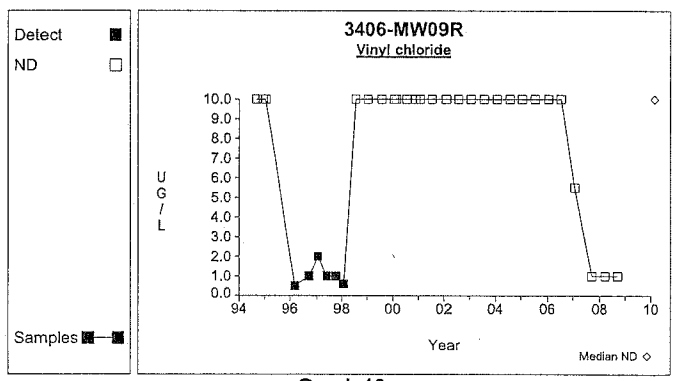
Graph 13



Graph 14



Graph 15



Graph 16

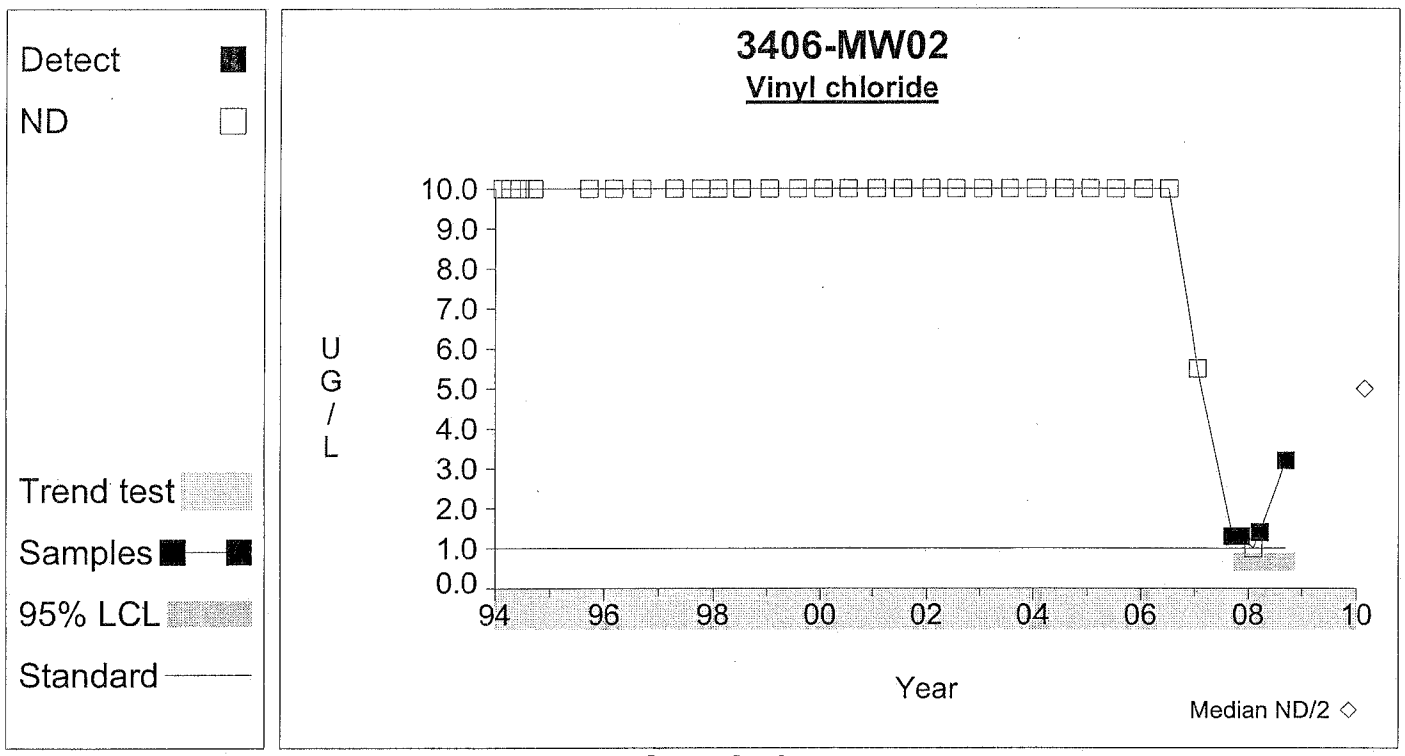
Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	
Vinyl chloride	UG/L	3406-MW02	4	2.725	1.750	1.176	0.666	4.784	1.000	

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

Confidence Limits (Assessment)



Graph 1

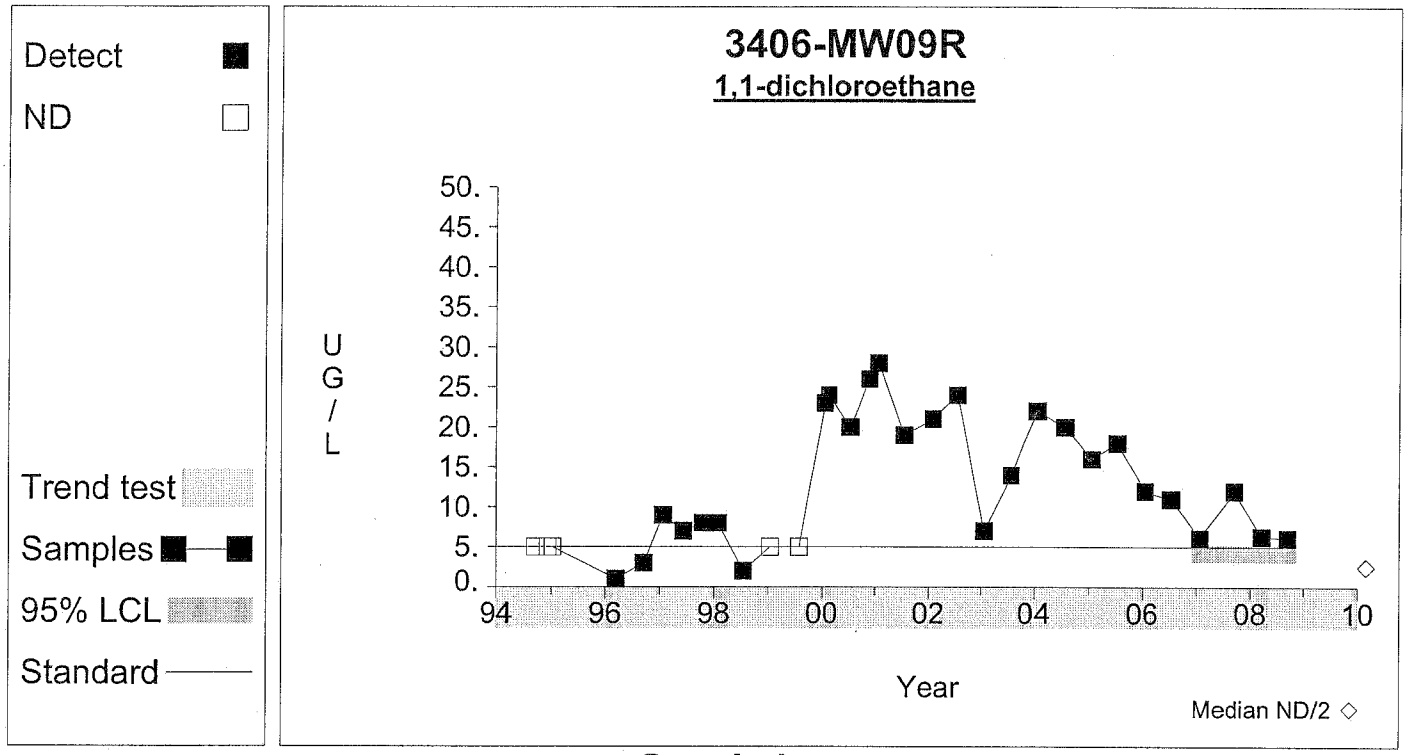
Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	
1,1-dichloroethane	UG/L	3406-MW09R	4	7.625	2.918	1.176	4.192	11.058	5.000	

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

Confidence Limits (Assessment)



Graph 1

APPENDIX C

GROUNDWATER FLOW REGIME REPORT

Piedmont Landfill & Recycling Center
Groundwater Flow Regime Report – September 2008

Prepared by:

JOYCE ENGINEERING, INC.

2211 West Meadowview Road, Suite 101
Greensboro, North Carolina 27407

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

Prepared by: G. Van Ness Burbach, Ph.D., P.G.

Attachments: Drawing No. 1 – Groundwater Surface Contour Map
Table 2 – Summary of Monitoring Well Water Levels
Table 3 – Groundwater Flow Rate Calculations

Piedmont Landfill & Recycling Center
Permit 34-06

Appendix C: Groundwater Flow Regime Report – September 2008

On behalf of Waste Management, Joyce Engineering, Inc. has reviewed groundwater flow rates and flow directions at the Piedmont Landfill and Recycling Center for the second semiannual groundwater sampling event of 2008. The groundwater flow and direction calculations presented in this report are based on groundwater elevation data obtained by ProTech on September 10, 2008. The information provided in this report will satisfy, in part, the environmental reporting requirements of Piedmont Landfill's Municipal Solid Waste Permit.

The groundwater level measurements taken during the above referenced sampling event were used to construct the groundwater surface contour map attached to this report as *Drawing No. 1*. A summary of groundwater elevations obtained during this and previous sampling events is provided in *Table 2*. The potentiometric contours and the groundwater flow directions presented in *Drawing No. 1* were used to calculate hydraulic gradients for the site. The hydraulic gradient calculations are provided in *Table 3*. The hydraulic gradients (**i**) ranged from 0.021 ft/ft to 0.026 ft/ft. These gradients are generally consistent with past interpretations for the site.

An effective porosity value (**n**) of 41 percent was used in the equation based on an average of six laboratory-derived porosities as reported in the April 1994 *Design Hydrogeologic Study*, prepared by RUST Environment & Infrastructure. Hydraulic conductivities (**K**) were also taken from the *Design Hydrogeologic Study*, and were based on slug test data from piezometers located nearest the respective groundwater flow paths. Using the gradient (**i**) along each flow path, the linear flow velocity (**V**) was estimated using the modified Darcy equation: $\mathbf{V = i\,K/n}$

The groundwater flow rates for September 2008 were on average approximately 12.37 feet/year. Segment i_1 was 18.92 feet/year to the north-northwest; Segment i_2 was 9.04 feet/year to the northwest; Segment i_3 was 10.37 feet/year to west. As shown on the groundwater surface contour map, groundwater flow at the site is generally west to northwest. These groundwater flow directions and velocities are consistent with those calculated during other recent events.

In summary, the groundwater measurements obtained during the September 2008 event are generally consistent with those obtained during previous sampling events. Based on this information, it is our opinion that the groundwater monitoring system continues to be adequate for the detection of the release of solid waste constituents to the environment.

TABLE 2
SUMMARY OF MONITORING WELL WATER LEVELS

DATA	MONITORING WELL WATER LEVEL ELEVATIONS															
Well No.:	**MW-01**	**MW-02**	**MW-03**	**MW-04**	**MW-04D**	**MW-05**	**MW-06**	**MW-07**	**MW-08**	**MW-09**	**MW-09R**	**MW-10**	**MW-11**	**MW-11D**	**MW-12**	**MW-12D**
Well TOC Elevation:	**823.93**	**778.04**	**770.08**	**756.92**	**757.33**	**743.17**	**800.82**	**771.57**	**748.95**	**770.62**	**764.95**	**777.2**	**776.8**	**776.36**	**751.48**	**751.53**
Well Depth:	**49**	**25.5**	**38**	**27**	**62**	**20.5**	**29.6**	**31.3**	**18.8**	**35**	**42.95**	**38**	**35**	**93.5**	**18**	**43.3**
30-Jan-1998	781.82	750.71	746.26	745.46	745.46	738.49	779.84	744.32	744.30	737.47	NA	744.42	749.08	747.66	746.58	747.05
21-Jul-1998	784.78	750.06	746.76	743.92	743.78	737.14	781.04	745.07	741.20	738.96	NA	744.35	748.95	748.58	745.88	746.11
14-Jan-1999	780.98	749.16	744.91	744.27	744.16	737.60	777.86	743.57	742.68	736.62	NA	743.63	748.09	747.74	745.93	746.11
27-Jul-1999	780.48	749.08	744.86	743.26	743.28	734.04	777.52	743.92	740.53	737.12	NA	743.62	748.05	747.75	745.53	745.68
20-Jan-2000	780.30	748.51	744.83	744.77	744.43	737.82	777.27	743.87	743.18	NA	737.14	743.90	748.36	747.97	746.28	746.53
12-Jul-2001	780.10	748.73	745.30	742.88	743.06	737.08	776.81	744.25	740.40	NA	738.12	743.66	747.77	747.44	745.45	745.71
24-Jan-2001	778.93	748.91	744.43	744.69	744.73	737.72	775.84	743.40	743.41	NA	737.35	743.49	747.85	747.54	746.06	746.54
17,18-Jul-2001	779.59	748.41	744.61	742.72	742.78	736.76	776.08	743.92	739.99	NA	737.77	743.35	749.45	747.09	745.45	745.40
30,31-Jan-2002	777.29	748.14	743.08	743.09	743.49	737.37	773.72	742.57	742.17	NA	736.40	742.74	747.35	747.03	745.14	742.42
17,18-Jul-2002	776.47	747.29	742.88	741.80	741.93	736.48	772.97	742.57	738.97	NA	735.86	742.30	746.54	746.21	744.27	744.44
20,21-Jan-2003	777.12	748.14	745.45	743.87	743.96	737.40	775.08	744.06	742.51	NA	738.06	743.60	748.05	746.57	745.50	745.92
23,24-Jul-2003	782.10	749.48	748.08	743.92	743.83	738.07	778.39	745.53	742.74	NA	741.80	744.60	748.40	748.16	745.83	746.08
21,22-Jan-2004	781.75	748.89	746.57	743.77	743.84	737.36	778.02	744.37	742.30	NA	739.10	743.91	747.86	747.47	745.87	746.07
27,28-Jul-2004	780.80	748.24	745.18	742.27	742.43	736.77	776.65	743.96	739.65	NA	738.45	743.37	747.26	746.96	745.03	745.31
19,20-Jan-2005	780.38	749.11	745.43	744.35	744.37	737.97	777.46	744.56	743.35	NA	739.05	744.95	748.39	747.75	746.02	746.39
11,12,13-Jul-2005	780.55	748.59	744.82	742.81	742.87	735.22	777.51	744.96	740.87	NA	739.20	744.51	747.60	747.26	745.21	745.43
16,17,18-Jan-2006	778.76	748.58	744.75	744.03	744.13	737.77	776.53	744.19	743.40	NA	737.95	744.21	747.70	747.36	745.73	746.09
10,11,12-Jul-2006	779.27	748.17	744.47	743.69	743.58	737.39	776.09	744.08	741.90	NA	738.07	744.00	747.05	746.76	745.51	745.77
22, 23, 24-Jan-2007	781.16	749.52	745.64	744.30	744.30	738.22	778.37	745.67	743.79	NA	739.33	745.14	748.40	747.94	745.95	746.33
12,13-Sep-2007	781.71	747.84	743.58	741.65	741.58	736.57	773.75	744.06	738.53	NA	737.60	743.15	746.70	746.26	744.48	744.44
19-Mar-2008	780.19	749.02	744.26	744.04	744.04	737.91	777.94	744.85	743.34	NA	737.35	744.87	747.99	747.62	745.42	746.05
11-Sep-2008	779.78	747.53	743.05	742.03	741.98	740.92	775.98	743.93	739.86	NA	736.89	743.55	746.55	746.14	744.54	744.60

Notes:
1. All depths were measured from the top of the PVC casing (TOC).
2. TOC = Top of PVC casing (stick-up).
3. TOC elevation for MW-02 is revised; improvements were made to the well in July 2001 prior to sampling.
4. All water level elevations are reported in feet above mean sea level.
5. NA = not available

TABLE 3
GROUNDWATER FLOW RATE CALCULATIONS

GRADIENT CALCULATION SEGMENT	HYDRAULIC CONDUCTIVITY (K, cm/s)	HYDRAULIC CONDUCTIVITY (K, ft/s)	EFFECTIVE POROSITY (n, unitless)	FLOW SEGMENT LENGTH (ft)	FLOW DIRECTION	September 10-11, 2008		
						Elevation (ft AMSL)	Gradient (i, ft/ft)	Velocity (V, ft/yr)
i_1	2.90E-04	9.51E-06	0.41	1161	NNW	775 745	0.026	18.92
i_2	1.70E-04	5.58E-06	0.41	1188	NW	775 750	0.021	9.04
i_3	1.70E-04	5.58E-06	0.41	1242	W	775 745	0.024	10.37
						AVERAGES:	0.024	12.77

Note:

1. An effective porosity ("n") of 41% was based on average laboratory-derived porosity as reported in the April 1994 Design Hydrogeologic Study, prepared by RUST Environment & Infrastructure.
2. Hydraulic conductivities ("K") were also taken from the Design Hydrogeologic Study, and were based on slug test data from piezometers originally located nearest the respective groundwater flow paths.
3. $V = i K / n$