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

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 & Recycling Center	9901 Freeman Rd. Kernersville, NC 27284	34-06	.1600	Septembeer 17, 2014

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 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 — District Manager - Closed Sites — (770) 590-2936

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

Digitally signed by alacsama@wm.com
DN: cn=alacsama@wm.com
Date: 2014.11.25 11:14:28 -05'00'

11/25/2014

Signature — Date

Affix NC Licensed/ Professional Geologist Seal

1850 Parkway Place, Suite 600 Marietta, GA 30067

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

WASTE MANAGEMENT
Closed Site Management Group
1850 Parkway Place
Suite 600
Marietta, GA 30067
Ph. 770-509-2936

November 25, 2014

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 Semiannual Groundwater Monitoring Report of 2014
Piedmont Landfill and Recycling Center, Kernersville, North Carolina
Permit Number 34-06

Dear Ms. Drummond:

Please find enclosed a report documenting the Second Semiannual Detection Groundwater Monitoring Event of 2014 for the above-referenced facility. The report package includes an Environmental Monitoring Reporting Form with the complete report and laboratory data in electronic format. Samples were collected by Professional Technical Support Services (ProTech) on September 17, 2014. All samples were transported to the Test America, Inc. laboratory in Arvada, Colorado for analysis.

The Piedmont Landfill and Recycling Center is a closed municipal solid waste facility 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.

There were no confirmed exceedances of Groundwater Protection Standards (GPS) for any NCSWMR Appendix I constituents for this site during the second semiannual sampling event of 2014. An exceedance of NC2L groundwater standards for chromium was detected in well MW-03 and MW-4D; however, an Alternate Source Demonstration for chromium was submitted on July 26, 2010 and was approved by DENR in a letter dated April 28, 2011.

A copy of this report will be placed into the site's operating record in accordance with Rule .1633(c)(1) of the NCSWMR.

The next sampling event for the Piedmont Landfill and Recycling Center is scheduled for the first quarter of 2015. If you have any questions or concerns regarding this report, please call me at (770) 590-2936.

Sincerely,
Waste Management of Carolinas, Inc.

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

Enclosure

Copy: Van Burbach, Ph.D., P.G. – Joyce Engineering

PREPARED FOR:

PIEDMONT LANDFILL & RECYCLING CENTER
9901 FREEMAN ROAD
KERNERSVILLE, NORTH CAROLINA 27284

PIEDMONT LANDFILL & RECYCLING CENTER
PERMIT # 34-06

SECOND SEMIANNUAL
GROUNDWATER MONITORING REPORT OF 2014

NOVEMBER 2014

PREPARED BY:

2211 WEST MEADOWVIEW ROAD, SUITE 101
GREENSBORO, NORTH CAROLINA 27407
NC LICENSE NUMBER C-0782
PHONE: (336) 323-0092
FAX: (336) 323-0093
JOYCE PROJECT NO. 00392.1401.12.

PIEDMONT LANDFILL & RECYCLING CENTER
PERMIT # 34-06

SECOND SEMIANNUAL
GROUNDWATER MONITORING REPORT OF 2014

NOVEMBER 2014

Prepared by:

JOYCE ENGINEERING

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

NORTH CAROLINA LICENSED SEAL 1349 G. VAN NESS BURBACH GEOLOGIST

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

JOYCE Project # 392.1401.12, Task 01

JOYCE ENGINEERING

2211 West Meadowview Rd.
Boone Building, Suite 101
Greensboro, NC 27407

tel: 336/323-0092
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www.JoyceEngineering.com

November 25, 2014

Alexander Lacsamana, PE
District Manager
Waste Management Closed Site Management Group
1850 Parkway Place, Suite 600
Marietta, GA 30067

RE: Second Semiannual Groundwater Monitoring Report of 2014
Piedmont Landfill & Recycling Center, Permit No. 34-06
JOYCE Project No. 392.1401.12, Task 01

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 2014. This report may also serve to fulfill the notification requirements of Rule .1635 (g) of the North Carolina Solid Waste Management Regulations (NCSWMR). An Environmental Monitoring Reporting Form (EMRF) for this event is attached.

Sampling for the event was performed on September 17, 2014 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. The site leachate was also sampled during this event for the required list of parameters. The laboratory analytical reports, field data logs, and chains of custody are provided as *Appendix A* of this report.

MONITORING PROGRAM HISTORY:

The site entered into an Assessment Monitoring Program for background wells MW-01 and MW-06 and downgradient well MW-09 after volatile organic constituents were detected in MW-09 during the second semiannual event of 1996. Two organic compounds (chloroethane and 1,1-dichloroethane) were historically detected in monitoring well MW-09. Chloroethane exhibited a declining trend to the point where chloroethane was reported at less than the laboratory reporting limit during the January 1998 sampling event. The concentration of 1,1-dichloroethane in MW-09 also decreased below the laboratory reporting limit during the July 1998 sampling event. Following receipt of approval from the North Carolina Department of Environment and Natural Resources (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-09 was replaced by well MW-09R in November 1999. No chloroethane concentration above the laboratory reporting limit or Solid Waste Section Limit (SWSL) has been detected in MW-09R since the well was installed; however, 1,1-dichloroethane was detected in MW-09R at a concentration of 23 µg/L during the initial sampling event conducted in January 2000. The concentration of 1,1-dichlorothane remained relatively consistent until 2009, ranging in concentration from 7 µg/L to 28 µg/L; however, it has not been detected at quantifiable levels since September 2009. The constituent cis-1,2-dichloroethene was detected in MW-09R 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; however, it has not been detected at quantifiable levels since September 2009. The presence of organic constituents in MW-09 and MW-09R is attributed to landfill gas (LFG). The LFG extraction network was expanded in this area in January 2003, and the recent decrease in concentrations of organic constituents in this well is attributed to the control of LFG.

Due to the detection of 1,1-dichloroethane in MW-09R during the first semiannual event in 2000, the site performed Assessment Monitoring on wells MW-01, MW-06, and MW-09R through the second semiannual event of 2001. Following NC DENR approval of an August 20, 2001 request by Waste Management, MW-01 and MW-06 again reverted to Detection Monitoring. Monitoring well MW-09R was 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 until the DENR approved reverting back to detection monitoring in a letter dated March 15, 2012.

In the September 2007 sampling event, benzene and vinyl chloride were detected in MW-02 at concentrations in exceedance of the groundwater standards established in 15A NCAC 2L.020 (NC 2L). 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 initiated 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 would enter Assessment Monitoring. Neither benzene nor vinyl chloride have had confirmed detections above the NC 2L standards in MW-02 since September 2008, so MW-02 remains in detection monitoring.

During the March 2010 sampling event, chromium was detected in MW-03 at a statistically significant concentration above the NC 2L groundwater standard. An ASD was submitted on July 26, 2010 for the chromium demonstrating that the chromium was naturally occurring in the soil and groundwater of the facility. DENR approved the ASD for chromium at the facility in a letter dated April 28, 2011.

DETECTION MONITORING EVENT:

MW-01, MW-02, MW-03, MW-04, MW-04D, MW-05, MW-06, MW-07, MW-08, MW-9R, MW-10, MW-11, MW-11D, MW-12, MW-12D, and Surface Water Points: S-02, S-03, S-04, and S-05

During the second semiannual event of 2014, fifteen detection monitoring wells and four surface water points were sampled for the NC Appendix I list of constituents. The laboratory analytical reports, field data logs, and chains of custody for the September 2014 event are provided in *Appendix A* of this report.

Organic Constituents

There were no quantified detections (above the SWSL) of any Appendix I organic constituents in any of these wells or surface water points during this event.

Inorganic Constituents

Inorganic constituents with quantified detections (above the SWSL) in one or more groundwater or surface water samples included barium in MW-02, chromium in MW-03 and MW-4D, copper in MW-01, and Zinc in MW-04 and MW-4D. Chromium was detected above the NC 2L in MW-03 and MW-4D. An ASD for chromium was approved by DENR in a letter dated April 28, 2011; therefore, the detections are not considered to be exceedances of Groundwater Protection Standards (GPS). No other Appendix I inorganic constituents were detected above the SWSL or the NC 2L groundwater standards or the solid waste section groundwater protection standards (GWPS) in any detection monitoring well or surface water sample during the September 2014 sampling event.

SUBMITTAL OF LEACHATE ANALYTICAL DATA:

Appendix A to this report contains the leachate monitoring results for September 2014 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, phosphorus, 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 B to this report contains the groundwater surface contour map and groundwater flow rates for this event. In summary, the September 2014 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.

CONCLUSIONS/CLOSURE:

There were no organic constituents with quantified detections (above the SWSL) reported for any monitoring wells or surface water points during the September 2014 monitoring event. Four inorganic constituents had quantified detections in some monitoring wells or surface water points, and chromium was detected above the NC 2L groundwater standard in MW-03 and MW-4D. An ASD was submitted on July 26, 2010 for the exceedance of chromium during the March 2010 sampling event. On April 28, 2011, DENR approved the ASD for chromium at the facility. MW-03 and MW-4D will continue to be monitored in accordance with the Detection Monitoring Program.

All site wells will continue to be monitored in accordance with the Detection Monitoring Program and surface water points will continue to be monitored as required by the DENR. The next monitoring event for the closed Piedmont Landfill and Recycling Center is scheduled for the first quarter of 2015. If you have any questions, feel free to contact me or Steve Cowie at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING

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

Attachments: Environmental Monitoring Reporting Form
Table 1 – Summary of Detected Constituents – September 2014
Appendix A – Laboratory Analytical Reports
Appendix B – Groundwater Flow Regime Report

TABLE

TABLE 1
QUANTIFIED DETECTED APPENDIX I CONSTITUENTS

WELL ID	PARAMETER	RESULT	UNITS	SWSL	NC2L
3406-MW02	Barium	180	µg/L	100	700
3406-MW03	Chromium*	12	µg/L	10	10
3406-MW4D	Chromium*	13	µg/L	10	10
3406-MW01	Copper	12	µg/L	10	1,000
3406-MW04	Zinc	12	µg/L	10	10
3406-MW4D	Zinc	14	µg/L	10	1,000

Notes:

SWSL = NC DENR Solid Waste Section Limits.

NC2L = 15A-NCAC-2L.0202 Groundwater Standards.

Estimated and blank-qualified detections are excluded.

Shaded values are greater than the NC2L Standard.

* Chromium has been addressed in an ASD approved by DENR

Appendix A: Laboratory Analytical Reports

Including Field Data Logs and Chains of Custody

ANALYTICAL REPORT

Job Number: 280-60149-1

Job Description: 134|Piedmont Landfill

For:
Waste Management
1850 Parkway Place
Suite 600
Marietta, GA 30067

Attention: Mr. Al Lacsamana

Approved for release.
Betsy A Sara
Project Manager II
10/6/2014 3:13 PM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
10/06/2014

cc: Mr. Van Burbach

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

The Lab Certification ID# is 4025.

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

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CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-60149-1

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

The reporting limits (RLs) in this report are North Carolina SWSLs.

Sample Receiving

The samples were received on 09/18/2014; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.1º C and 4.1º C.

Holding Times

The holding times were within established control limits.

Trip Blank

Methylene Chloride, a common laboratory contaminant, was detected in the trip blank sample at a level below the requested reporting limit. Methylene Chloride was also detected in all samples at similar levels, therefore, the Methylene Chloride in these samples is likely due to laboratory artifact.

Method Blanks

Methylene Chloride Method 8260B was detected in the Method Blank below the project established reporting limit. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

All MS/MSD samples were within established control limits.

Organics

The Method 8260B surrogate recovery of Dibromofluoromethane was above the upper control limit for sample 3406-MW12D. Because the data are considered to be biased high and all target analytes in the sample were non-detect above the reporting limits no further corrective action was performed.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-60149-1	**3406-MW09R**					
1,1-Dichloroethane		1.3	J	5.0	ug/L	8260B
Methylene Chloride		0.42	J B	1.0	ug/L	8260B
Well Elevation		764.95			ft/msl	Field Sampling
Depth to water		26.85			ft	Field Sampling
Groundwater Elevation		738.10			ft/msl	Field Sampling
Field pH		5.90			SU	Field Sampling
Field Conductivity		390			umhos/cm	Field Sampling
Field Temperature		18.4			Degrees C	Field Sampling
Field Turbidity		0.9			NTU	Field Sampling
Field Dissolved Oxygen		1.2			mg/L	Field Sampling
Field EH/ORP		-10.5			millivolts	Field Sampling
Total Recoverable						
Barium		13	J	100	ug/L	6010C
Vanadium		7.1	J	25	ug/L	6010C
Copper		3.1	J	10	ug/L	6020A
Zinc		4.3	J	10	ug/L	6020A
280-60149-2	**3406-MW06**					
Methylene Chloride		0.41	J B	1.0	ug/L	8260B
Well Elevation		800.87			ft/msl	Field Sampling
Depth to water		24.26			ft	Field Sampling
Groundwater Elevation		776.61			ft/msl	Field Sampling
Field pH		5.15			SU	Field Sampling
Field Conductivity		39			umhos/cm	Field Sampling
Field Temperature		16.4			Degrees C	Field Sampling
Field Turbidity		1.1			NTU	Field Sampling
Field Dissolved Oxygen		3.6			mg/L	Field Sampling
Field EH/ORP		82.1			millivolts	Field Sampling
Total Recoverable						
Barium		38	J	100	ug/L	6010C
Chromium		0.68	J	10	ug/L	6010C
Copper		0.73	J	10	ug/L	6020A
Zinc		8.6	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-60149-3	**3406-MW01**					
Methylene Chloride		0.38	J B	1.0	ug/L	8260B
Well Elevation		823.93			ft/msl	Field Sampling
Depth to water		43.88			ft	Field Sampling
Groundwater Elevation		780.05			ft/msl	Field Sampling
Field pH		5.81			SU	Field Sampling
Field Conductivity		73			umhos/cm	Field Sampling
Field Temperature		16.6			Degrees C	Field Sampling
Field Turbidity		3.7			NTU	Field Sampling
Field Dissolved Oxygen		2.0			mg/L	Field Sampling
Field EH/ORP		163.0			millivolts	Field Sampling
Total Recoverable						
Barium		56	J	100	ug/L	6010C
Chromium		1.1	J	10	ug/L	6010C
Nickel		1.3	J	50	ug/L	6010C
Copper		12		10	ug/L	6020A
Zinc		9.2	J	10	ug/L	6020A
280-60149-4	**3406-MW08**					
Methylene Chloride		0.38	J B	1.0	ug/L	8260B
Well Elevation		748.95			ft/msl	Field Sampling
Depth to water		9.38			ft	Field Sampling
Groundwater Elevation		739.57			ft/msl	Field Sampling
Field pH		5.37			SU	Field Sampling
Field Conductivity		110			umhos/cm	Field Sampling
Field Temperature		16.9			Degrees C	Field Sampling
Field Turbidity		14.0			NTU	Field Sampling
Field Dissolved Oxygen		3.7			mg/L	Field Sampling
Field EH/ORP		200.0			millivolts	Field Sampling
Total Recoverable						
Barium		90	J	100	ug/L	6010C
Chromium		2.4	J	10	ug/L	6010C
Cobalt		1.2	J	10	ug/L	6010C
Nickel		1.3	J	50	ug/L	6010C
Arsenic		0.38	J	10	ug/L	6020A
Copper		0.66	J	10	ug/L	6020A
Zinc		3.4	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-60149-5	**3406-MW05**					
Methylene Chloride		0.37	J B	1.0	ug/L	8260B
Well Elevation		743.17			ft/msl	Field Sampling
Depth to water		5.50			ft	Field Sampling
Groundwater Elevation		737.67			ft/msl	Field Sampling
Field pH		5.78			SU	Field Sampling
Field Conductivity		362			umhos/cm	Field Sampling
Field Temperature		15.2			Degrees C	Field Sampling
Field Turbidity		0.5			NTU	Field Sampling
Field Dissolved Oxygen		0.5			mg/L	Field Sampling
Field EH/ORP		214.0			millivolts	Field Sampling
Total Recoverable						
Barium		35	J	100	ug/L	6010C
Chromium		3.7	J	10	ug/L	6010C
Nickel		3.2	J	50	ug/L	6010C
Vanadium		5.7	J	25	ug/L	6010C
Zinc		2.6	J	10	ug/L	6020A
280-60149-6FB	**3406-01FB**					
Methylene Chloride		0.42	J B	1.0	ug/L	8260B
Field pH		7.49			SU	Field Sampling
Field Conductivity		1			umhos/cm	Field Sampling
Field Temperature		22.3			Degrees C	Field Sampling
Field Turbidity		0.0			NTU	Field Sampling
Field Dissolved Oxygen		0.9			mg/L	Field Sampling
Field EH/ORP		119.0			millivolts	Field Sampling

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-60149-7	**3406-MW03**					
1,1-Dichloroethane		0.36	J	5.0	ug/L	8260B
Methylene Chloride		0.40	J B	1.0	ug/L	8260B
Tetrachloroethene		0.22	J	1.0	ug/L	8260B
Well Elevation		770.08			ft/msl	Field Sampling
Depth to water		26.15			ft	Field Sampling
Groundwater Elevation		743.93			ft/msl	Field Sampling
Field pH		5.87			SU	Field Sampling
Field Conductivity		171			umhos/cm	Field Sampling
Field Temperature		14.9			Degrees C	Field Sampling
Field Turbidity		1.6			NTU	Field Sampling
Field Dissolved Oxygen		4.8			mg/L	Field Sampling
Field EH/ORP		164.0			millivolts	Field Sampling
Total Recoverable						
Barium		18	J	100	ug/L	6010C
Chromium		12		10	ug/L	6010C
Vanadium		7.9	J	25	ug/L	6010C
Thallium		0.053	J	5.5	ug/L	6020A
Zinc		2.9	J	10	ug/L	6020A
280-60149-8	**3406-MW07**					
Methylene Chloride		0.34	J B	1.0	ug/L	8260B
Well Elevation		771.57			ft/msl	Field Sampling
Depth to water		26.13			ft	Field Sampling
Groundwater Elevation		745.44			ft/msl	Field Sampling
Field pH		5.91			SU	Field Sampling
Field Conductivity		169			umhos/cm	Field Sampling
Field Temperature		15.3			Degrees C	Field Sampling
Field Turbidity		2.0			NTU	Field Sampling
Field Dissolved Oxygen		5.0			mg/L	Field Sampling
Field EH/ORP		170.0			millivolts	Field Sampling
Total Recoverable						
Barium		3.7	J	100	ug/L	6010C
Chromium		0.97	J	10	ug/L	6010C
Vanadium		5.8	J	25	ug/L	6010C
Copper		1.6	J	10	ug/L	6020A
Zinc		3.1	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID	Client Sample ID			Reporting		
Analyte		Result	Qualifier	Limit	Units	Method
280-60149-9	**3406-MW10**					
Methylene Chloride		0.37	J B	1.0	ug/L	8260B
Well Elevation		777.20			ft/msl	Field Sampling
Depth to water		32.93			ft	Field Sampling
Groundwater Elevation		744.27			ft/msl	Field Sampling
Field pH		5.77			SU	Field Sampling
Field Conductivity		117			umhos/cm	Field Sampling
Field Temperature		15.7			Degrees C	Field Sampling
Field Turbidity		3.6			NTU	Field Sampling
Field Dissolved Oxygen		3.1			mg/L	Field Sampling
Field EH/ORP		189.0			millivolts	Field Sampling
Total Recoverable						
Barium		5.5	J	100	ug/L	6010C
Chromium		5.3	J	10	ug/L	6010C
Vanadium		3.2	J	25	ug/L	6010C
Zinc		5.5	J	10	ug/L	6020A
280-60149-10	**3406-MW11D**					
Methylene Chloride		0.43	J B	1.0	ug/L	8260B
Well Elevation		776.36			ft/msl	Field Sampling
Depth to water		29.56			ft	Field Sampling
Groundwater Elevation		746.80			ft/msl	Field Sampling
Field pH		6.41			SU	Field Sampling
Field Conductivity		74			umhos/cm	Field Sampling
Field Temperature		15.0			Degrees C	Field Sampling
Field Turbidity		5.9			NTU	Field Sampling
Field Dissolved Oxygen		3.1			mg/L	Field Sampling
Field EH/ORP		160.0			millivolts	Field Sampling
Total Recoverable						
Barium		21	J	100	ug/L	6010C
Chromium		6.0	J	10	ug/L	6010C
Vanadium		9.3	J	25	ug/L	6010C
Copper		3.4	J	10	ug/L	6020A
Zinc		4.7	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID	Client Sample ID					
Analyte		Result	Qualifier	Reporting Limit	Units	Method
280-60149-11	**3406-MW11**					
1,1-Dichloroethane		0.28	J	5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.18	J	5.0	ug/L	8260B
Methylene Chloride		0.44	J B	1.0	ug/L	8260B
Well Elevation		776.80			ft/msl	Field Sampling
Depth to water		29.68			ft	Field Sampling
Groundwater Elevation		747.12			ft/msl	Field Sampling
Field pH		5.58			SU	Field Sampling
Field Conductivity		174			umhos/cm	Field Sampling
Field Temperature		15.2			Degrees C	Field Sampling
Field Turbidity		3.6			NTU	Field Sampling
Field Dissolved Oxygen		0.9			mg/L	Field Sampling
Field EH/ORP		259.0			millivolts	Field Sampling
Total Recoverable						
Barium		67	J	100	ug/L	6010C
Cobalt		2.6	J	10	ug/L	6010C
Vanadium		1.3	J	25	ug/L	6010C
Copper		1.1	J	10	ug/L	6020A
Zinc		8.3	J	10	ug/L	6020A
280-60149-12	**3406-MW02**					
Methylene Chloride		0.51	J B	1.0	ug/L	8260B
Well Elevation		778.04			ft/msl	Field Sampling
Depth to water		29.90			ft	Field Sampling
Groundwater Elevation		748.14			ft/msl	Field Sampling
Field pH		5.24			SU	Field Sampling
Field Conductivity		175			umhos/cm	Field Sampling
Field Temperature		15.1			Degrees C	Field Sampling
Field Turbidity		2.5			NTU	Field Sampling
Field Dissolved Oxygen		2.4			mg/L	Field Sampling
Field EH/ORP		205.0			millivolts	Field Sampling
Total Recoverable						
Barium		180		100	ug/L	6010C
Selenium		1.2	J	10	ug/L	6020A
Zinc		5.8	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID	Client Sample ID			Reporting		
Analyte		Result	Qualifier	Limit	Units	Method
280-60149-13	**3406-MW04D**					
Methylene Chloride		0.48	J B	1.0	ug/L	8260B
Well Elevation		757.33			ft/msl	Field Sampling
Depth to water		15.02			ft	Field Sampling
Groundwater Elevation		742.31			ft/msl	Field Sampling
Field pH		6.04			SU	Field Sampling
Field Conductivity		122			umhos/cm	Field Sampling
Field Temperature		15.7			Degrees C	Field Sampling
Field Turbidity		11.9			NTU	Field Sampling
Field Dissolved Oxygen		4.4			mg/L	Field Sampling
Field EH/ORP		184.0			millivolts	Field Sampling
Total Recoverable						
Barium		46	J	100	ug/L	6010C
Chromium		13		10	ug/L	6010C
Lead		4.8	J	10	ug/L	6010C
Nickel		1.5	J	50	ug/L	6010C
Vanadium		5.5	J	25	ug/L	6010C
Arsenic		0.42	J	10	ug/L	6020A
Copper		0.80	J	10	ug/L	6020A
Zinc		14		10	ug/L	6020A
280-60149-14	**3406-MW04**					
Methylene Chloride		0.40	J B	1.0	ug/L	8260B
Well Elevation		756.92			ft/msl	Field Sampling
Depth to water		14.52			ft	Field Sampling
Groundwater Elevation		742.40			ft/msl	Field Sampling
Field pH		5.49			SU	Field Sampling
Field Conductivity		93			umhos/cm	Field Sampling
Field Temperature		15.4			Degrees C	Field Sampling
Field Turbidity		3.4			NTU	Field Sampling
Field Dissolved Oxygen		0.4			mg/L	Field Sampling
Field EH/ORP		207.0			millivolts	Field Sampling
Total Recoverable						
Barium		83	J	100	ug/L	6010C
Beryllium		0.63	J	1.0	ug/L	6010C
Cobalt		1.6	J	10	ug/L	6010C
Lead		4.4	J	10	ug/L	6010C
Copper		0.61	J	10	ug/L	6020A
Zinc		12		10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID	Client Sample ID			Reporting		
Analyte		Result	Qualifier	Limit	Units	Method
280-60149-15	**3406-MW12**					
Methylene Chloride		0.43	J B	1.0	ug/L	8260B
Well Elevation		751.48			ft/msl	Field Sampling
Depth to water		6.86			ft	Field Sampling
Groundwater Elevation		744.62			ft/msl	Field Sampling
Field pH		6.07			SU	Field Sampling
Field Conductivity		169			umhos/cm	Field Sampling
Field Temperature		15.2			Degrees C	Field Sampling
Field Turbidity		4.9			NTU	Field Sampling
Field Dissolved Oxygen		0.7			mg/L	Field Sampling
Field EH/ORP		156.0			millivolts	Field Sampling
Total Recoverable						
Barium		27	J	100	ug/L	6010C
Chromium		2.6	J	10	ug/L	6010C
Vanadium		4.4	J	25	ug/L	6010C
Copper		1.3	J	10	ug/L	6020A
Zinc		4.3	J	10	ug/L	6020A
280-60149-16	**3406-MW12D**					
Methylene Chloride		0.44	J B	1.0	ug/L	8260B
Well Elevation		751.48			ft/msl	Field Sampling
Depth to water		6.60			ft	Field Sampling
Groundwater Elevation		744.88			ft/msl	Field Sampling
Field pH		6.56			SU	Field Sampling
Field Conductivity		267			umhos/cm	Field Sampling
Field Temperature		15.2			Degrees C	Field Sampling
Field Turbidity		2.4			NTU	Field Sampling
Field Dissolved Oxygen		0.5			mg/L	Field Sampling
Field EH/ORP		142.0			millivolts	Field Sampling
Total Recoverable						
Barium		11	J	100	ug/L	6010C
Chromium		2.0	J	10	ug/L	6010C
Vanadium		3.3	J	25	ug/L	6010C
Copper		1.4	J	10	ug/L	6020A
Zinc		4.5	J	10	ug/L	6020A
280-60149-17TB	**TRIP BLANK**					
Methylene Chloride		0.42	J B	1.0	ug/L	8260B

METHOD SUMMARY

Client: Waste Management

Job Number: 280-60149-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Metals (ICP)	TAL DEN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Field Sampling	TAL DEN	EPA Field Sampling	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-60149-1

Method	Analyst	Analyst ID
SW846 8260B	Contreras, Evan	EC
SW846 6010C	Rhoades, Chris R	CRR
SW846 6010C	Scott, Samantha J	SJS
SW846 6020A	Diaz, Luis R	LRD
EPA Field Sampling	Saraubon, Phakchaya	PS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-60149-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-60149-1	3406-MW09R	Water	09/17/2014 1130	09/18/2014 0930
280-60149-2	3406-MW06	Water	09/17/2014 1032	09/18/2014 0930
280-60149-3	3406-MW01	Water	09/17/2014 1000	09/18/2014 0930
280-60149-4	3406-MW08	Water	09/17/2014 0927	09/18/2014 0930
280-60149-5	3406-MW05	Water	09/17/2014 0850	09/18/2014 0930
280-60149-6FB	3406-01FB	Water	09/17/2014 1255	09/18/2014 0930
280-60149-7	3406-MW03	Water	09/17/2014 1235	09/18/2014 0930
280-60149-8	3406-MW07	Water	09/17/2014 1205	09/18/2014 0930
280-60149-9	3406-MW10	Water	09/17/2014 1137	09/18/2014 0930
280-60149-10	3406-MW11D	Water	09/17/2014 1110	09/18/2014 0930
280-60149-11	3406-MW11	Water	09/17/2014 1043	09/18/2014 0930
280-60149-12	3406-MW02	Water	09/17/2014 1016	09/18/2014 0930
280-60149-13	3406-MW04D	Water	09/17/2014 0946	09/18/2014 0930
280-60149-14	3406-MW04	Water	09/17/2014 0918	09/18/2014 0930
280-60149-15	3406-MW12	Water	09/17/2014 0847	09/18/2014 0930
280-60149-16	3406-MW12D	Water	09/17/2014 0819	09/18/2014 0930
280-60149-17TB	TRIP BLANK	Water	09/17/2014 0000	09/18/2014 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-60149-1

Client Matrix: Water

Date Sampled: 09/17/2014 1130

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9912.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0027			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0027				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	1.3	J	0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.42	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-60149-1

Client Matrix: Water

Date Sampled: 09/17/2014 1130

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9912.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0027			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0027				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
4-Bromofluorobenzene (Surr)	105		78 - 120
Dibromofluoromethane (Surr)	109		77 - 120
Toluene-d8 (Surr)	111		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-60149-2

Client Matrix: Water

Date Sampled: 09/17/2014 1032

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9915.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0137			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0137				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.41	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-60149-2

Client Matrix: Water

Date Sampled: 09/17/2014 1032

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9915.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0137			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0137				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127
4-Bromofluorobenzene (Surr)	104		78 - 120
Dibromofluoromethane (Surr)	112		77 - 120
Toluene-d8 (Surr)	111		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-60149-3

Client Matrix: Water

Date Sampled: 09/17/2014 1000

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9916.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0201			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0201				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.38	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-60149-3

Client Matrix: Water

Date Sampled: 09/17/2014 1000

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9916.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0201			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0201				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120
Toluene-d8 (Surr)	105		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-60149-4

Client Matrix: Water

Date Sampled: 09/17/2014 0927

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9917.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0224			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.38	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-60149-4

Client Matrix: Water

Date Sampled: 09/17/2014 0927

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9917.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0224			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
Toluene-d8 (Surr)	105		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-60149-5

Client Matrix: Water

Date Sampled: 09/17/2014 0850

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9918.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0247			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0247				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.37	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-60149-5

Client Matrix: Water

Date Sampled: 09/17/2014 0850

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9918.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0247			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0247				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127
4-Bromofluorobenzene (Surr)	106		78 - 120
Dibromofluoromethane (Surr)	111		77 - 120
Toluene-d8 (Surr)	110		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-01FB**

Lab Sample ID: 280-60149-6FB

Client Matrix: Water

Date Sampled: 09/17/2014 1255

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9919.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0310			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0310				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.42	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-01FB**

Lab Sample ID: 280-60149-6FB

Client Matrix: Water

Date Sampled: 09/17/2014 1255

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9919.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0310			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0310				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120
Toluene-d8 (Surr)	103		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-60149-7

Client Matrix: Water

Date Sampled: 09/17/2014 1235

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9920.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0334			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0334				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	0.36	J	0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.40	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	0.22	J	0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-60149-7

Client Matrix: Water

Date Sampled: 09/17/2014 1235

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9920.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0334			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0334				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 127
4-Bromofluorobenzene (Surr)	107		78 - 120
Dibromofluoromethane (Surr)	112		77 - 120
Toluene-d8 (Surr)	110		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-60149-8

Client Matrix: Water

Date Sampled: 09/17/2014 1205

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9921.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0357			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0357				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.34	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-60149-8

Client Matrix: Water

Date Sampled: 09/17/2014 1205

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9921.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0357			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0357				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	111		77 - 120
Toluene-d8 (Surr)	108		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-60149-9

Client Matrix: Water

Date Sampled: 09/17/2014 1137

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9922.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0420			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0420				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.37	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-60149-9

Client Matrix: Water

Date Sampled: 09/17/2014 1137

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9922.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0420			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0420				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		70 - 127
4-Bromofluorobenzene (Surr)	104		78 - 120
Dibromofluoromethane (Surr)	111		77 - 120
Toluene-d8 (Surr)	107		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-60149-10

Client Matrix: Water

Date Sampled: 09/17/2014 1110

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9923.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0443			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0443				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.43	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-60149-10

Client Matrix: Water

Date Sampled: 09/17/2014 1110

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9923.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0443			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0443				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 127
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
Toluene-d8 (Surr)	104		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-60149-11

Client Matrix: Water

Date Sampled: 09/17/2014 1043

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9924.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0507			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0507				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	0.28	J	0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	0.18	J	0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.44	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-60149-11

Client Matrix: Water

Date Sampled: 09/17/2014 1043

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9924.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0507			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0507				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	108		77 - 120
Toluene-d8 (Surr)	106		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-60149-12

Client Matrix: Water

Date Sampled: 09/17/2014 1016

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9925.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0530			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.51	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-60149-12

Client Matrix: Water

Date Sampled: 09/17/2014 1016

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9925.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0530			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120
Toluene-d8 (Surr)	100		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-60149-13

Client Matrix: Water

Date Sampled: 09/17/2014 0946

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9926.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0554			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0554				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.48	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-60149-13

Client Matrix: Water

Date Sampled: 09/17/2014 0946

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9926.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0554			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0554				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		70 - 127
4-Bromofluorobenzene (Surr)	108		78 - 120
Dibromofluoromethane (Surr)	116		77 - 120
Toluene-d8 (Surr)	115		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-60149-14

Client Matrix: Water

Date Sampled: 09/17/2014 0918

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9927.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0617			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0617				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.40	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-60149-14

Client Matrix: Water

Date Sampled: 09/17/2014 0918

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9927.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0617			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0617				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 127
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
Toluene-d8 (Surr)	103		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-60149-15

Client Matrix: Water

Date Sampled: 09/17/2014 0847

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9928.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0641			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0641				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.43	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-60149-15

Client Matrix: Water

Date Sampled: 09/17/2014 0847

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9928.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0641			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0641				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	114		77 - 120
Toluene-d8 (Surr)	110		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-60149-16

Client Matrix: Water

Date Sampled: 09/17/2014 0819

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9929.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0704			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0704				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.44	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-60149-16

Client Matrix: Water

Date Sampled: 09/17/2014 0819

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9929.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0704			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0704				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	127		70 - 127
4-Bromofluorobenzene (Surr)	116		78 - 120
Dibromofluoromethane (Surr)	125	X	77 - 120
Toluene-d8 (Surr)	124		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-60149-17TB

Client Matrix: Water

Date Sampled: 09/17/2014 0000

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9909.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2317			Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.42	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-60149-17TB

Client Matrix: Water

Date Sampled: 09/17/2014 0000

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9909.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2317			Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
4-Bromofluorobenzene (Surr)	106		78 - 120
Dibromofluoromethane (Surr)	112		77 - 120
Toluene-d8 (Surr)	112		80 - 125

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-60149-1

Client Matrix: Water

Date Sampled: 09/17/2014 1130

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1625			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	13	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	7.1	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	033SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1933			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	3.1	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	4.3	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-60149-2

Client Matrix: Water

Date Sampled: 09/17/2014 1032

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1648			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	38	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	0.68	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	034SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1936			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	0.73	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	8.6	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-60149-3

Client Matrix: Water

Date Sampled: 09/17/2014 1000

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1650			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	56	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.1	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	1.3	J	1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	035SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1939			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	12		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	9.2	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-60149-4

Client Matrix: Water

Date Sampled: 09/17/2014 0927

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1653			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	90	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	2.4	J	0.66	10
Cobalt	1.2	J	1.2	10
Lead	ND		2.6	10
Nickel	1.3	J	1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	036SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1942			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	0.38	J	0.33	10
Cadmium	ND		0.10	1.0
Copper	0.66	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	3.4	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-60149-5

Client Matrix: Water

Date Sampled: 09/17/2014 0850

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1656			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	35	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	3.7	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	3.2	J	1.3	50
Vanadium	5.7	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	037SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1945			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.6	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-01FB**

Lab Sample ID: 280-60149-6FB

Client Matrix: Water

Date Sampled: 09/17/2014 1255

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1658			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	ND		0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	038SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1948			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-60149-7

Client Matrix: Water

Date Sampled: 09/17/2014 1235

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1701			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	18	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	12		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	7.9	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	044AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2006			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	0.053	J	0.050	5.5
Zinc	2.9	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-60149-8

Client Matrix: Water

Date Sampled: 09/17/2014 1205

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1703			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	3.7	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	0.97	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	5.8	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	049SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2021			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.6	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	3.1	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-60149-9

Client Matrix: Water

Date Sampled: 09/17/2014 1137

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1706			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	5.5	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	5.3	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	3.2	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	050SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2024			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	5.5	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-60149-10

Client Matrix: Water

Date Sampled: 09/17/2014 1110

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244641	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1708			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	21	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	6.0	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	9.3	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	054SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2037			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	3.4	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	4.7	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-60149-11

Client Matrix: Water

Date Sampled: 09/17/2014 1043

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2304			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	67	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	2.6	J	1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	1.3	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	055SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2040			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.1	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	8.3	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-60149-12

Client Matrix: Water

Date Sampled: 09/17/2014 1016

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2328			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	180		0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	056SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2043			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	1.2	J	0.70	10
Thallium	ND		0.050	5.5
Zinc	5.8	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-60149-13

Client Matrix: Water

Date Sampled: 09/17/2014 0946

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2330			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	46	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	13		0.66	10
Cobalt	ND		1.2	10
Lead	4.8	J	2.6	10
Nickel	1.5	J	1.3	50
Vanadium	5.5	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	057SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2046			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	0.42	J	0.33	10
Cadmium	ND		0.10	1.0
Copper	0.80	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	14		2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-60149-14

Client Matrix: Water

Date Sampled: 09/17/2014 0918

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2333			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	83	J	0.58	100
Beryllium	0.63	J	0.47	1.0
Chromium	ND		0.66	10
Cobalt	1.6	J	1.2	10
Lead	4.4	J	2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	058SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2049			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	0.61	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	12		2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-60149-15

Client Matrix: Water

Date Sampled: 09/17/2014 0847

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2336			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	27	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	2.6	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	4.4	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	059SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2052			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.3	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	4.3	J	2.0	10

Client: Waste Management

Job Number: 280-60149-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-60149-16

Client Matrix: Water

Date Sampled: 09/17/2014 0819

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2338			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	11	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	2.0	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	3.3	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244309	Lab File ID:	060SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2055			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.4	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	4.5	J	2.0	10

Field Service / Mobile Lab

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-60149-1

Client Matrix: Water

Date Sampled: 09/17/2014 1130

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	764.95		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0930
Depth to water	26.85		ft	1.0	Field Sampling	280-244187	09/17/2014 0930
Groundwater Elevation	738.10		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0930
Field pH	5.90		SU	1.0	Field Sampling	280-244187	09/17/2014 0930
Field Conductivity	390		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0930
Field Temperature	18.4		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0930
Field Turbidity	0.9		NTU	1.0	Field Sampling	280-244187	09/17/2014 0930
Field Dissolved Oxygen	1.2		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0930
Field EH/ORP	-10.5		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0930

Field Service / Mobile Lab

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-60149-2

Client Matrix: Water

Date Sampled: 09/17/2014 1032

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	800.87		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0832
Depth to water	24.26		ft	1.0	Field Sampling	280-244187	09/17/2014 0832
Groundwater Elevation	776.61		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0832
Field pH	5.15		SU	1.0	Field Sampling	280-244187	09/17/2014 0832
Field Conductivity	39		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0832
Field Temperature	16.4		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0832
Field Turbidity	1.1		NTU	1.0	Field Sampling	280-244187	09/17/2014 0832
Field Dissolved Oxygen	3.6		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0832
Field EH/ORP	82.1		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0832

Field Service / Mobile Lab

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-60149-3

Client Matrix: Water

Date Sampled: 09/17/2014 1000

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	823.93		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0800
Depth to water	43.88		ft	1.0	Field Sampling	280-244187	09/17/2014 0800
Groundwater Elevation	780.05		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0800
Field pH	5.81		SU	1.0	Field Sampling	280-244187	09/17/2014 0800
Field Conductivity	73		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0800
Field Temperature	16.6		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0800
Field Turbidity	3.7		NTU	1.0	Field Sampling	280-244187	09/17/2014 0800
Field Dissolved Oxygen	2.0		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0800
Field EH/ORP	163.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0800

Field Service / Mobile Lab

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-60149-4

Client Matrix: Water

Date Sampled: 09/17/2014 0927

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	748.95		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0727
Depth to water	9.38		ft	1.0	Field Sampling	280-244187	09/17/2014 0727
Groundwater Elevation	739.57		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0727
Field pH	5.37		SU	1.0	Field Sampling	280-244187	09/17/2014 0727
Field Conductivity	110		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0727
Field Temperature	16.9		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0727
Field Turbidity	14.0		NTU	1.0	Field Sampling	280-244187	09/17/2014 0727
Field Dissolved Oxygen	3.7		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0727
Field EH/ORP	200.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0727

Field Service / Mobile Lab

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-60149-5

Client Matrix: Water

Date Sampled: 09/17/2014 0850

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	743.17		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0650
Depth to water	5.50		ft	1.0	Field Sampling	280-244187	09/17/2014 0650
Groundwater Elevation	737.67		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0650
Field pH	5.78		SU	1.0	Field Sampling	280-244187	09/17/2014 0650
Field Conductivity	362		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0650
Field Temperature	15.2		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0650
Field Turbidity	0.5		NTU	1.0	Field Sampling	280-244187	09/17/2014 0650
Field Dissolved Oxygen	0.5		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0650
Field EH/ORP	214.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0650

Field Service / Mobile Lab

Client Sample ID: **3406-01FB**

Lab Sample ID: 280-60149-6FB

Client Matrix: Water

Date Sampled: 09/17/2014 1255

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.49		SU	1.0	Field Sampling	280-244187	09/17/2014 1055
Field Conductivity	1		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 1055
Field Temperature	22.3		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 1055
Field Turbidity	0.0		NTU	1.0	Field Sampling	280-244187	09/17/2014 1055
Field Dissolved Oxygen	0.9		mg/L	1.0	Field Sampling	280-244187	09/17/2014 1055
Field EH/ORP	119.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 1055

Field Service / Mobile Lab

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-60149-7

Client Matrix: Water

Date Sampled: 09/17/2014 1235

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	770.08		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 1035
Depth to water	26.15		ft	1.0	Field Sampling	280-244187	09/17/2014 1035
Groundwater Elevation	743.93		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 1035
Field pH	5.87		SU	1.0	Field Sampling	280-244187	09/17/2014 1035
Field Conductivity	171		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 1035
Field Temperature	14.9		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 1035
Field Turbidity	1.6		NTU	1.0	Field Sampling	280-244187	09/17/2014 1035
Field Dissolved Oxygen	4.8		mg/L	1.0	Field Sampling	280-244187	09/17/2014 1035
Field EH/ORP	164.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 1035

Field Service / Mobile Lab

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-60149-8

Client Matrix: Water

Date Sampled: 09/17/2014 1205

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	771.57		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 1005
Depth to water	26.13		ft	1.0	Field Sampling	280-244187	09/17/2014 1005
Groundwater Elevation	745.44		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 1005
Field pH	5.91		SU	1.0	Field Sampling	280-244187	09/17/2014 1005
Field Conductivity	169		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 1005
Field Temperature	15.3		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 1005
Field Turbidity	2.0		NTU	1.0	Field Sampling	280-244187	09/17/2014 1005
Field Dissolved Oxygen	5.0		mg/L	1.0	Field Sampling	280-244187	09/17/2014 1005
Field EH/ORP	170.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 1005

Field Service / Mobile Lab

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-60149-9

Client Matrix: Water

Date Sampled: 09/17/2014 1137

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	777.20		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0937
Depth to water	32.93		ft	1.0	Field Sampling	280-244187	09/17/2014 0937
Groundwater Elevation	744.27		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0937
Field pH	5.77		SU	1.0	Field Sampling	280-244187	09/17/2014 0937
Field Conductivity	117		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0937
Field Temperature	15.7		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0937
Field Turbidity	3.6		NTU	1.0	Field Sampling	280-244187	09/17/2014 0937
Field Dissolved Oxygen	3.1		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0937
Field EH/ORP	189.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0937

Field Service / Mobile Lab

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-60149-10

Client Matrix: Water

Date Sampled: 09/17/2014 1110

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	776.36		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0910
Depth to water	29.56		ft	1.0	Field Sampling	280-244187	09/17/2014 0910
Groundwater Elevation	746.80		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0910
Field pH	6.41		SU	1.0	Field Sampling	280-244187	09/17/2014 0910
Field Conductivity	74		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0910
Field Temperature	15.0		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0910
Field Turbidity	5.9		NTU	1.0	Field Sampling	280-244187	09/17/2014 0910
Field Dissolved Oxygen	3.1		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0910
Field EH/ORP	160.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0910

Field Service / Mobile Lab

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-60149-11

Client Matrix: Water

Date Sampled: 09/17/2014 1043

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	776.80		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0843
Depth to water	29.68		ft	1.0	Field Sampling	280-244187	09/17/2014 0843
Groundwater Elevation	747.12		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0843
Field pH	5.58		SU	1.0	Field Sampling	280-244187	09/17/2014 0843
Field Conductivity	174		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0843
Field Temperature	15.2		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0843
Field Turbidity	3.6		NTU	1.0	Field Sampling	280-244187	09/17/2014 0843
Field Dissolved Oxygen	0.9		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0843
Field EH/ORP	259.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0843

Field Service / Mobile Lab

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-60149-12

Client Matrix: Water

Date Sampled: 09/17/2014 1016

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	778.04		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0816
Depth to water	29.90		ft	1.0	Field Sampling	280-244187	09/17/2014 0816
Groundwater Elevation	748.14		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0816
Field pH	5.24		SU	1.0	Field Sampling	280-244187	09/17/2014 0816
Field Conductivity	175		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0816
Field Temperature	15.1		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0816
Field Turbidity	2.5		NTU	1.0	Field Sampling	280-244187	09/17/2014 0816
Field Dissolved Oxygen	2.4		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0816
Field EH/ORP	205.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0816

Field Service / Mobile Lab

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-60149-13

Client Matrix: Water

Date Sampled: 09/17/2014 0946

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	757.33		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0746
Depth to water	15.02		ft	1.0	Field Sampling	280-244187	09/17/2014 0746
Groundwater Elevation	742.31		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0746
Field pH	6.04		SU	1.0	Field Sampling	280-244187	09/17/2014 0746
Field Conductivity	122		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0746
Field Temperature	15.7		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0746
Field Turbidity	11.9		NTU	1.0	Field Sampling	280-244187	09/17/2014 0746
Field Dissolved Oxygen	4.4		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0746
Field EH/ORP	184.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0746

Field Service / Mobile Lab

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-60149-14

Client Matrix: Water

Date Sampled: 09/17/2014 0918

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	756.92		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0718
Depth to water	14.52		ft	1.0	Field Sampling	280-244187	09/17/2014 0718
Groundwater Elevation	742.40		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0718
Field pH	5.49		SU	1.0	Field Sampling	280-244187	09/17/2014 0718
Field Conductivity	93		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0718
Field Temperature	15.4		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0718
Field Turbidity	3.4		NTU	1.0	Field Sampling	280-244187	09/17/2014 0718
Field Dissolved Oxygen	0.4		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0718
Field EH/ORP	207.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0718

Field Service / Mobile Lab

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-60149-15

Client Matrix: Water

Date Sampled: 09/17/2014 0847

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	751.48		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0647
Depth to water	6.86		ft	1.0	Field Sampling	280-244187	09/17/2014 0647
Groundwater Elevation	744.62		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0647
Field pH	6.07		SU	1.0	Field Sampling	280-244187	09/17/2014 0647
Field Conductivity	169		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0647
Field Temperature	15.2		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0647
Field Turbidity	4.9		NTU	1.0	Field Sampling	280-244187	09/17/2014 0647
Field Dissolved Oxygen	0.7		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0647
Field EH/ORP	156.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0647

Field Service / Mobile Lab

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-60149-16

Client Matrix: Water

Date Sampled: 09/17/2014 0819

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	751.48		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0619
Depth to water	6.60		ft	1.0	Field Sampling	280-244187	09/17/2014 0619
Groundwater Elevation	744.88		ft/msl	1.0	Field Sampling	280-244187	09/17/2014 0619
Field pH	6.56		SU	1.0	Field Sampling	280-244187	09/17/2014 0619
Field Conductivity	267		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0619
Field Temperature	15.2		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0619
Field Turbidity	2.4		NTU	1.0	Field Sampling	280-244187	09/17/2014 0619
Field Dissolved Oxygen	0.5		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0619
Field EH/ORP	142.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0619

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-60149-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
Metals		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-60149-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-245649					
LCS 280-245649/4	Lab Control Sample	T	Water	8260B	
MB 280-245649/5	Method Blank	T	Water	8260B	
280-60149-1	3406-MW09R	T	Water	8260B	
280-60149-1MS	Matrix Spike	T	Water	8260B	
280-60149-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-60149-2	3406-MW06	T	Water	8260B	
280-60149-3	3406-MW01	T	Water	8260B	
280-60149-4	3406-MW08	T	Water	8260B	
280-60149-5	3406-MW05	T	Water	8260B	
280-60149-6FB	3406-01FB	T	Water	8260B	
280-60149-7	3406-MW03	T	Water	8260B	
280-60149-8	3406-MW07	T	Water	8260B	
280-60149-9	3406-MW10	T	Water	8260B	
280-60149-10	3406-MW11D	T	Water	8260B	
280-60149-11	3406-MW11	T	Water	8260B	
280-60149-12	3406-MW02	T	Water	8260B	
280-60149-13	3406-MW04D	T	Water	8260B	
280-60149-14	3406-MW04	T	Water	8260B	
280-60149-15	3406-MW12	T	Water	8260B	
280-60149-16	3406-MW12D	T	Water	8260B	
280-60149-17TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-60149-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-244288					
LCS 280-244288/2-A	Lab Control Sample	R	Water	3005A	
MB 280-244288/1-A	Method Blank	R	Water	3005A	
280-60149-1	3406-MW09R	R	Water	3005A	
280-60149-1MS	Matrix Spike	R	Water	3005A	
280-60149-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-60149-2	3406-MW06	R	Water	3005A	
280-60149-3	3406-MW01	R	Water	3005A	
280-60149-4	3406-MW08	R	Water	3005A	
280-60149-5	3406-MW05	R	Water	3005A	
280-60149-6FB	3406-01FB	R	Water	3005A	
280-60149-7	3406-MW03	R	Water	3005A	
280-60149-8	3406-MW07	R	Water	3005A	
280-60149-9	3406-MW10	R	Water	3005A	
280-60149-10	3406-MW11D	R	Water	3005A	
Prep Batch: 280-244289					
LCS 280-244289/2-A	Lab Control Sample	R	Water	3005A	
MB 280-244289/1-A	Method Blank	R	Water	3005A	
280-60149-11	3406-MW11	R	Water	3005A	
280-60149-11MS	Matrix Spike	R	Water	3005A	
280-60149-11MSD	Matrix Spike Duplicate	R	Water	3005A	
280-60149-12	3406-MW02	R	Water	3005A	
280-60149-13	3406-MW04D	R	Water	3005A	
280-60149-14	3406-MW04	R	Water	3005A	
280-60149-15	3406-MW12	R	Water	3005A	
280-60149-16	3406-MW12D	R	Water	3005A	
Prep Batch: 280-244308					
LCS 280-244308/2-A	Lab Control Sample	R	Water	3005A	
MB 280-244308/1-A	Method Blank	R	Water	3005A	
280-60137-A-1-E MS	Matrix Spike	R	Water	3005A	
280-60137-A-1-F MSD	Matrix Spike Duplicate	R	Water	3005A	
280-60149-1	3406-MW09R	R	Water	3005A	
280-60149-2	3406-MW06	R	Water	3005A	
280-60149-3	3406-MW01	R	Water	3005A	
280-60149-4	3406-MW08	R	Water	3005A	
280-60149-5	3406-MW05	R	Water	3005A	
280-60149-6FB	3406-01FB	R	Water	3005A	

Client: Waste Management

Job Number: 280-60149-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-244309					
LCS 280-244309/2-A	Lab Control Sample	R	Water	3005A	
MB 280-244309/1-A	Method Blank	R	Water	3005A	
280-60149-7	3406-MW03	R	Water	3005A	
280-60149-7MS	Matrix Spike	R	Water	3005A	
280-60149-7MSD	Matrix Spike Duplicate	R	Water	3005A	
280-60149-8	3406-MW07	R	Water	3005A	
280-60149-9	3406-MW10	R	Water	3005A	
280-60149-10	3406-MW11D	R	Water	3005A	
280-60149-11	3406-MW11	R	Water	3005A	
280-60149-12	3406-MW02	R	Water	3005A	
280-60149-13	3406-MW04D	R	Water	3005A	
280-60149-14	3406-MW04	R	Water	3005A	
280-60149-15	3406-MW12	R	Water	3005A	
280-60149-16	3406-MW12D	R	Water	3005A	
Analysis Batch:280-244641					
LCS 280-244288/2-A	Lab Control Sample	R	Water	6010C	280-244288
MB 280-244288/1-A	Method Blank	R	Water	6010C	280-244288
280-60149-1	3406-MW09R	R	Water	6010C	280-244288
280-60149-1MS	Matrix Spike	R	Water	6010C	280-244288
280-60149-1MSD	Matrix Spike Duplicate	R	Water	6010C	280-244288
280-60149-2	3406-MW06	R	Water	6010C	280-244288
280-60149-3	3406-MW01	R	Water	6010C	280-244288
280-60149-4	3406-MW08	R	Water	6010C	280-244288
280-60149-5	3406-MW05	R	Water	6010C	280-244288
280-60149-6FB	3406-01FB	R	Water	6010C	280-244288
280-60149-7	3406-MW03	R	Water	6010C	280-244288
280-60149-8	3406-MW07	R	Water	6010C	280-244288
280-60149-9	3406-MW10	R	Water	6010C	280-244288
280-60149-10	3406-MW11D	R	Water	6010C	280-244288
Analysis Batch:280-244680					
LCS 280-244289/2-A	Lab Control Sample	R	Water	6010C	280-244289
MB 280-244289/1-A	Method Blank	R	Water	6010C	280-244289
280-60149-11	3406-MW11	R	Water	6010C	280-244289
280-60149-11MS	Matrix Spike	R	Water	6010C	280-244289
280-60149-11MSD	Matrix Spike Duplicate	R	Water	6010C	280-244289
280-60149-12	3406-MW02	R	Water	6010C	280-244289
280-60149-13	3406-MW04D	R	Water	6010C	280-244289
280-60149-14	3406-MW04	R	Water	6010C	280-244289
280-60149-15	3406-MW12	R	Water	6010C	280-244289
280-60149-16	3406-MW12D	R	Water	6010C	280-244289

Client: Waste Management

Job Number: 280-60149-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-244760					
LCS 280-244308/2-A	Lab Control Sample	R	Water	6020A	280-244308
MB 280-244308/1-A	Method Blank	R	Water	6020A	280-244308
LCS 280-244309/2-A	Lab Control Sample	R	Water	6020A	280-244309
MB 280-244309/1-A	Method Blank	R	Water	6020A	280-244309
280-60137-A-1-E MS	Matrix Spike	R	Water	6020A	280-244308
280-60137-A-1-F MSD	Matrix Spike Duplicate	R	Water	6020A	280-244308
280-60149-1	3406-MW09R	R	Water	6020A	280-244308
280-60149-2	3406-MW06	R	Water	6020A	280-244308
280-60149-3	3406-MW01	R	Water	6020A	280-244308
280-60149-4	3406-MW08	R	Water	6020A	280-244308
280-60149-5	3406-MW05	R	Water	6020A	280-244308
280-60149-6FB	3406-01FB	R	Water	6020A	280-244308
280-60149-7	3406-MW03	R	Water	6020A	280-244309
280-60149-7MS	Matrix Spike	R	Water	6020A	280-244309
280-60149-7MSD	Matrix Spike Duplicate	R	Water	6020A	280-244309
280-60149-8	3406-MW07	R	Water	6020A	280-244309
280-60149-9	3406-MW10	R	Water	6020A	280-244309
280-60149-10	3406-MW11D	R	Water	6020A	280-244309
280-60149-11	3406-MW11	R	Water	6020A	280-244309
280-60149-12	3406-MW02	R	Water	6020A	280-244309
280-60149-13	3406-MW04D	R	Water	6020A	280-244309
280-60149-14	3406-MW04	R	Water	6020A	280-244309
280-60149-15	3406-MW12	R	Water	6020A	280-244309
280-60149-16	3406-MW12D	R	Water	6020A	280-244309

Report Basis

R = Total Recoverable

Client: Waste Management

Job Number: 280-60149-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-244187					
280-60149-1	3406-MW09R	T	Water	Field Sampling	
280-60149-2	3406-MW06	T	Water	Field Sampling	
280-60149-3	3406-MW01	T	Water	Field Sampling	
280-60149-4	3406-MW08	T	Water	Field Sampling	
280-60149-5	3406-MW05	T	Water	Field Sampling	
280-60149-6FB	3406-01FB	T	Water	Field Sampling	
280-60149-7	3406-MW03	T	Water	Field Sampling	
280-60149-8	3406-MW07	T	Water	Field Sampling	
280-60149-9	3406-MW10	T	Water	Field Sampling	
280-60149-10	3406-MW11D	T	Water	Field Sampling	
280-60149-11	3406-MW11	T	Water	Field Sampling	
280-60149-12	3406-MW02	T	Water	Field Sampling	
280-60149-13	3406-MW04D	T	Water	Field Sampling	
280-60149-14	3406-MW04	T	Water	Field Sampling	
280-60149-15	3406-MW12	T	Water	Field Sampling	
280-60149-16	3406-MW12D	T	Water	Field Sampling	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-60149-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
280-60149-1	3406-MW09R	109	105	109	111
280-60149-2	3406-MW06	110	104	112	111
280-60149-3	3406-MW01	107	102	107	105
280-60149-4	3406-MW08	106	99	106	105
280-60149-5	3406-MW05	110	106	111	110
280-60149-6	3406-01FB	106	96	104	103
280-60149-7	3406-MW03	113	107	112	110
280-60149-8	3406-MW07	111	103	111	108
280-60149-9	3406-MW10	111	104	111	107
280-60149-10	3406-MW11D	108	98	106	104
280-60149-11	3406-MW11	110	101	108	106
280-60149-12	3406-MW02	104	97	101	100
280-60149-13	3406-MW04D	119	108	116	115
280-60149-14	3406-MW04	108	98	106	103
280-60149-15	3406-MW12	113	103	114	110
280-60149-16	3406-MW12D	127	116	125X	124
280-60149-17	TRIP BLANK	109	106	112	112
MB 280-245649/5		100	95	103	100
LCS 280-245649/4		95	94	96	91
280-60149-1 MS	3406-MW09R MS	104	99	102	99
280-60149-1 MSD	3406-MW09R MSD	105	101	105	98

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
BFB = 4-Bromofluorobenzene (Surr)	78-120
DBFM = Dibromofluoromethane (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-125

Client: Waste Management

Job Number: 280-60149-1

Method Blank - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-245649/5	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9907.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2227	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2227				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.631	J	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-60149-1

Method Blank - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-245649/5	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9907.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2227	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2227				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	70 - 127
4-Bromofluorobenzene (Surr)	95	78 - 120
Dibromofluoromethane (Surr)	103	77 - 120
Toluene-d8 (Surr)	100	80 - 125

Lab Control Sample - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-245649/4	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9906.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2203	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2203				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	4.99	100	70 - 135	
1,1-Dichloroethane	5.00	5.28	106	75 - 135	
1,1-Dichloroethene	5.00	4.93	99	71 - 136	J
1,2-Dichloropropane	5.00	5.19	104	71 - 120	
1,3-Dichlorobenzene	5.00	4.95	99	74 - 135	
Benzene	5.00	5.26	105	74 - 135	
Bromodichloromethane	5.00	4.75	95	73 - 135	
Carbon tetrachloride	5.00	5.03	101	67 - 135	
Chlorobenzene	5.00	4.79	96	76 - 135	
Chloroform	5.00	4.97	99	76 - 120	J
Ethylbenzene	5.00	4.72	94	72 - 120	
Methylene Chloride	5.00	4.97	99	54 - 141	
Tetrachloroethene	5.00	4.90	98	70 - 135	
Toluene	5.00	5.28	106	73 - 120	
trans-1,2-Dichloroethene	5.00	5.21	104	75 - 135	
Trichloroethene	5.00	5.03	101	73 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	70 - 127
4-Bromofluorobenzene (Surr)	94	78 - 120
Dibromofluoromethane (Surr)	96	77 - 120
Toluene-d8 (Surr)	91	80 - 125

Client: Waste Management

Job Number: 280-60149-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-245649

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-60149-1	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9913.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0050			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0050				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-60149-1	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9914.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0114			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0114				20 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	102	103	70 - 135	1	20		
1,1-Dichloroethane	110	110	75 - 135	0	21		
1,1-Dichloroethene	97	98	71 - 136	1	20	J	J
1,2-Dichloropropane	103	107	71 - 120	4	20		
1,3-Dichlorobenzene	99	99	74 - 135	0	20		
Benzene	106	107	74 - 135	1	20		
Bromodichloromethane	94	98	73 - 135	4	20		
Carbon tetrachloride	101	100	67 - 135	1	21		
Chlorobenzene	98	99	76 - 135	1	20		
Chloroform	103	106	76 - 120	2	20		
Ethylbenzene	95	97	72 - 120	2	26		
Methylene Chloride	90	98	54 - 141	7	20		
Tetrachloroethene	98	95	70 - 135	3	20		
Toluene	102	106	73 - 120	4	20		
trans-1,2-Dichloroethene	104	107	75 - 135	3	24		
Trichloroethene	98	101	73 - 135	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	105	70 - 127
4-Bromofluorobenzene (Surr)	99	101	78 - 120
Dibromofluoromethane (Surr)	102	105	77 - 120
Toluene-d8 (Surr)	99	98	80 - 125

Client: Waste Management

Job Number: 280-60149-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-245649

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-60149-1	Units:	ug/L	MSD Lab Sample ID:	280-60149-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/01/2014 0050			Analysis Date:	10/01/2014 0114
Prep Date:	10/01/2014 0050			Prep Date:	10/01/2014 0114
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND		5.00	5.00	5.10		5.14	
1,1-Dichloroethane	1.3	J	5.00	5.00	6.77		6.78	
1,1-Dichloroethene	ND		5.00	5.00	4.84	J	4.90	J
1,2-Dichloropropane	ND		5.00	5.00	5.16		5.35	
1,3-Dichlorobenzene	ND		5.00	5.00	4.96		4.95	
Benzene	ND		5.00	5.00	5.32		5.37	
Bromodichloromethane	ND		5.00	5.00	4.71		4.91	
Carbon tetrachloride	ND		5.00	5.00	5.07		5.02	
Chlorobenzene	ND		5.00	5.00	4.88		4.94	
Chloroform	ND		5.00	5.00	5.17		5.28	
Ethylbenzene	ND		5.00	5.00	4.75		4.85	
Methylene Chloride	0.42	J	5.00	5.00	4.93		5.30	
Tetrachloroethene	ND		5.00	5.00	4.90		4.73	
Toluene	ND		5.00	5.00	5.12		5.31	
trans-1,2-Dichloroethene	ND		5.00	5.00	5.20		5.37	
Trichloroethene	ND		5.00	5.00	4.92		5.04	

Client: Waste Management

Job Number: 280-60149-1

Method Blank - Batch: 280-244288

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-244288/1-A	Analysis Batch:	280-244641	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1620	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	ND		0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

Lab Control Sample - Batch: 280-244288

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-244288/2-A	Analysis Batch:	280-244641	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1623	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	1960	98	90 - 112	
Beryllium	50.0	48.1	96	89 - 113	
Chromium	200	201	101	90 - 113	
Cobalt	500	496	99	89 - 111	
Lead	500	501	100	89 - 110	
Nickel	500	488	98	89 - 111	
Vanadium	500	489	98	90 - 111	
Silver	50.0	52.1	104	86 - 115	

Client: Waste Management

Job Number: 280-60149-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244288

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60149-1	Analysis Batch:	280-244641	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1630			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60149-1	Analysis Batch:	280-244641	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-244288	Lab File ID:	25C092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1633			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	98	98	85 - 120	1	20		
Beryllium	96	96	79 - 121	0	20		
Chromium	101	99	73 - 135	1	20		
Cobalt	97	96	82 - 119	1	20		
Lead	99	97	89 - 121	2	20		
Nickel	97	95	84 - 120	2	20		
Vanadium	98	98	85 - 120	0	20		
Silver	108	106	75 - 141	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244288

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60149-1	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/23/2014 1630		
Prep Date:	09/23/2014 0900		
Leach Date:	N/A		

MSD Lab Sample ID:	280-60149-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/23/2014 1633
Prep Date:	09/23/2014 0900
Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Barium	13	J	2000	2000	1980	1970
Beryllium	ND		50.0	50.0	48.1	48.0
Chromium	ND		200	200	201	199
Cobalt	ND		500	500	487	481
Lead	ND		500	500	495	487
Nickel	ND		500	500	485	476
Vanadium	7.1	J	500	500	497	496
Silver	ND		50.0	50.0	54.0	52.8

Client: Waste Management

Job Number: 280-60149-1

Method Blank - Batch: 280-244289

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-244289/1-A	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2259	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	ND		0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

Lab Control Sample - Batch: 280-244289

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-244289/2-A	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2302	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2180	109	90 - 112	
Beryllium	50.0	50.6	101	89 - 113	
Chromium	200	211	106	90 - 113	
Cobalt	500	517	103	89 - 111	
Lead	500	529	106	89 - 110	
Nickel	500	515	103	89 - 111	
Vanadium	500	533	107	90 - 111	
Silver	50.0	55.7	111	86 - 115	

Client: Waste Management

Job Number: 280-60149-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244289

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60149-11	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2310			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60149-11	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244289	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2312			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	111	110	85 - 120	1	20		
Beryllium	103	102	79 - 121	1	20		
Chromium	108	107	73 - 135	1	20		
Cobalt	105	104	82 - 119	1	20		
Lead	106	106	89 - 121	1	20		
Nickel	104	103	84 - 120	1	20		
Vanadium	107	106	85 - 120	1	20		
Silver	113	111	75 - 141	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244289

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60149-11	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/23/2014 2310		
Prep Date:	09/23/2014 1430		
Leach Date:	N/A		

MSD Lab Sample ID:	280-60149-11
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/23/2014 2312
Prep Date:	09/23/2014 1430
Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Barium	67	J	2000	2000	2290	2260
Beryllium	ND		50.0	50.0	51.5	51.0
Chromium	ND		200	200	215	213
Cobalt	2.6	J	500	500	526	521
Lead	ND		500	500	532	528
Nickel	ND		500	500	522	517
Vanadium	1.3	J	500	500	534	529
Silver	ND		50.0	50.0	56.4	55.6

Client: Waste Management

Job Number: 280-60149-1

Method Blank - Batch: 280-244308

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-244308/1-A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244308	Lab File ID:	020_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1853	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Lab Control Sample - Batch: 280-244308

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-244308/2-A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244308	Lab File ID:	021_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1856	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	40.0	100	85 - 115	
Arsenic	40.0	40.8	102	85 - 117	
Cadmium	40.0	41.0	102	85 - 115	
Copper	40.0	42.6	106	85 - 119	
Selenium	40.0	42.0	105	77 - 122	
Thallium	40.0	41.9	105	85 - 118	
Zinc	40.0	42.4	106	83 - 122	

Client: Waste Management

Job Number: 280-60149-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244308

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60137-A-1-E MS	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244308	Lab File ID:	025_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1908			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60137-A-1-F MSD	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244308	Lab File ID:	026_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1911			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	104	103	85 - 115	1	20		
Arsenic	102	102	85 - 117	0	20		
Cadmium	105	103	85 - 115	2	20		
Copper	107	107	85 - 119	1	20		
Selenium	105	105	77 - 122	1	20		
Thallium	105	104	85 - 118	1	20		
Zinc	102	106	83 - 122	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244308

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60137-A-1-E MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/23/2014 1908		
Prep Date:	09/23/2014 0900		
Leach Date:	N/A		

MSD Lab Sample ID:	280-60137-A-1-F MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/23/2014 1911
Prep Date:	09/23/2014 0900
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	ND		40.0	40.0	41.5	41.2
Arsenic	ND		40.0	40.0	41.0	40.8
Cadmium	ND		40.0	40.0	41.9	41.2
Copper	ND		40.0	40.0	43.0	42.6
Selenium	ND		40.0	40.0	42.1	41.9
Thallium	0.081	J	40.0	40.0	42.1	41.8
Zinc	2.7	J	40.0	40.0	43.6	45.0

Client: Waste Management

Job Number: 280-60149-1

Method Blank - Batch: 280-244309

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-244309/1-A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244309	Lab File ID:	042_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2000	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Lab Control Sample - Batch: 280-244309

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-244309/2-A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244309	Lab File ID:	043_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2003	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	39.3	98	85 - 115	
Arsenic	40.0	40.2	101	85 - 117	
Cadmium	40.0	40.1	100	85 - 115	
Copper	40.0	41.7	104	85 - 119	
Selenium	40.0	42.3	106	77 - 122	
Thallium	40.0	42.0	105	85 - 118	
Zinc	40.0	42.0	105	83 - 122	

Client: Waste Management

Job Number: 280-60149-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244309

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60149-7	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244309	Lab File ID:	047_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2015			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60149-7	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244309	Lab File ID:	048_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2018			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	103	105	85 - 115	2	20		
Arsenic	100	102	85 - 117	2	20		
Cadmium	102	104	85 - 115	2	20		
Copper	102	103	85 - 119	0	20		
Selenium	104	107	77 - 122	3	20		
Thallium	105	104	85 - 118	0	20		
Zinc	100	101	83 - 122	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244309

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60149-7	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/23/2014 2015		
Prep Date:	09/23/2014 0900		
Leach Date:	N/A		

MSD Lab Sample ID:	280-60149-7
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/23/2014 2018
Prep Date:	09/23/2014 0900
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	ND		40.0	40.0	41.3	42.1
Arsenic	ND		40.0	40.0	40.1	40.8
Cadmium	ND		40.0	40.0	40.8	41.6
Copper	ND		40.0	40.0	41.0	41.2
Selenium	ND		40.0	40.0	41.8	42.9
Thallium	0.053	J	40.0	40.0	41.9	41.8
Zinc	2.9	J	40.0	40.0	42.8	43.3

Client: Waste Management

Job Number: 280-60149-1

Laboratory Chronicle

Lab ID: 280-60149-1 **Client ID:** 3406-MW09R

Sample Date/Time: 09/17/2014 11:30 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-B-1		280-245649		10/01/2014 00:27	1	TAL DEN	EC
A:8260B	280-60149-B-1		280-245649		10/01/2014 00:27	1	TAL DEN	EC
P:3005A	280-60149-A-1-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-1-A		280-244641	280-244288	09/23/2014 16:25	1	TAL DEN	CRR
P:3005A	280-60149-A-1-D		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-1-D		280-244760	280-244308	09/23/2014 19:33	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-1		280-244187		09/17/2014 09:30	1	TAL DEN	PS

Lab ID: 280-60149-1 MS **Client ID:** 3406-MW09R

Sample Date/Time: 09/17/2014 11:30 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-1 MS		280-245649		10/01/2014 00:50	1	TAL DEN	EC
A:8260B	280-60149-D-1 MS		280-245649		10/01/2014 00:50	1	TAL DEN	EC
P:3005A	280-60149-A-1-B MS		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-1-B MS		280-244641	280-244288	09/23/2014 16:30	1	TAL DEN	CRR

Lab ID: 280-60149-1 MSD **Client ID:** 3406-MW09R

Sample Date/Time: 09/17/2014 11:30 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-1 MSD		280-245649		10/01/2014 01:14	1	TAL DEN	EC
A:8260B	280-60149-D-1 MSD		280-245649		10/01/2014 01:14	1	TAL DEN	EC
P:3005A	280-60149-A-1-C MSD		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-1-C MSD		280-244641	280-244288	09/23/2014 16:33	1	TAL DEN	CRR

Lab ID: 280-60149-2 **Client ID:** 3406-MW06

Sample Date/Time: 09/17/2014 10:32 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-2		280-245649		10/01/2014 01:37	1	TAL DEN	EC
A:8260B	280-60149-D-2		280-245649		10/01/2014 01:37	1	TAL DEN	EC
P:3005A	280-60149-A-2-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-2-A		280-244641	280-244288	09/23/2014 16:48	1	TAL DEN	CRR
P:3005A	280-60149-A-2-B		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-2-B		280-244760	280-244308	09/23/2014 19:36	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-2		280-244187		09/17/2014 08:32	1	TAL DEN	PS

Client: Waste Management

Job Number: 280-60149-1

Laboratory Chronicle

Lab ID: 280-60149-3 **Client ID:** 3406-MW01

Sample Date/Time: 09/17/2014 10:00 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-C-3		280-245649		10/01/2014 02:01	1	TAL DEN	EC
A:8260B	280-60149-C-3		280-245649		10/01/2014 02:01	1	TAL DEN	EC
P:3005A	280-60149-A-3-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-3-A		280-244641	280-244288	09/23/2014 16:50	1	TAL DEN	CRR
P:3005A	280-60149-A-3-B		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-3-B		280-244760	280-244308	09/23/2014 19:39	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-3		280-244187		09/17/2014 08:00	1	TAL DEN	PS

Lab ID: 280-60149-4 **Client ID:** 3406-MW08

Sample Date/Time: 09/17/2014 09:27 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-C-4		280-245649		10/01/2014 02:24	1	TAL DEN	EC
A:8260B	280-60149-C-4		280-245649		10/01/2014 02:24	1	TAL DEN	EC
P:3005A	280-60149-A-4-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-4-A		280-244641	280-244288	09/23/2014 16:53	1	TAL DEN	CRR
P:3005A	280-60149-A-4-B		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-4-B		280-244760	280-244308	09/23/2014 19:42	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-4		280-244187		09/17/2014 07:27	1	TAL DEN	PS

Lab ID: 280-60149-5 **Client ID:** 3406-MW05

Sample Date/Time: 09/17/2014 08:50 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-B-5		280-245649		10/01/2014 02:47	1	TAL DEN	EC
A:8260B	280-60149-B-5		280-245649		10/01/2014 02:47	1	TAL DEN	EC
P:3005A	280-60149-A-5-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-5-A		280-244641	280-244288	09/23/2014 16:56	1	TAL DEN	CRR
P:3005A	280-60149-A-5-B		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-5-B		280-244760	280-244308	09/23/2014 19:45	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-5		280-244187		09/17/2014 06:50	1	TAL DEN	PS

Client: Waste Management

Job Number: 280-60149-1

Laboratory Chronicle

Lab ID: **280-60149-6** **Client ID:** **3406-01FB**

Sample Date/Time: 09/17/2014 12:55 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-C-6		280-245649		10/01/2014 03:10	1	TAL DEN	EC
A:8260B	280-60149-C-6		280-245649		10/01/2014 03:10	1	TAL DEN	EC
P:3005A	280-60149-A-6-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-6-A		280-244641	280-244288	09/23/2014 16:58	1	TAL DEN	CRR
P:3005A	280-60149-A-6-B		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-6-B		280-244760	280-244308	09/23/2014 19:48	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-6		280-244187		09/17/2014 10:55	1	TAL DEN	PS

Lab ID: **280-60149-7** **Client ID:** **3406-MW03**

Sample Date/Time: 09/17/2014 12:35 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-C-7		280-245649		10/01/2014 03:34	1	TAL DEN	EC
A:8260B	280-60149-C-7		280-245649		10/01/2014 03:34	1	TAL DEN	EC
P:3005A	280-60149-A-7-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-7-A		280-244641	280-244288	09/23/2014 17:01	1	TAL DEN	CRR
P:3005A	280-60149-A-7-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-7-B		280-244760	280-244309	09/23/2014 20:06	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-7		280-244187		09/17/2014 10:35	1	TAL DEN	PS

Lab ID: **280-60149-7 MS** **Client ID:** **3406-MW03**

Sample Date/Time: 09/17/2014 12:35 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-60149-A-7-C MS		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-7-C MS		280-244760	280-244309	09/23/2014 20:15	1	TAL DEN	LRD

Lab ID: **280-60149-7 MSD** **Client ID:** **3406-MW03**

Sample Date/Time: 09/17/2014 12:35 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-60149-A-7-D MSD		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-7-D MSD		280-244760	280-244309	09/23/2014 20:18	1	TAL DEN	LRD

Client: Waste Management

Job Number: 280-60149-1

Laboratory Chronicle

Lab ID: 280-60149-8 **Client ID:** 3406-MW07

Sample Date/Time: 09/17/2014 12:05 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-C-8		280-245649		10/01/2014 03:57	1	TAL DEN	EC
A:8260B	280-60149-C-8		280-245649		10/01/2014 03:57	1	TAL DEN	EC
P:3005A	280-60149-A-8-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-8-A		280-244641	280-244288	09/23/2014 17:03	1	TAL DEN	CRR
P:3005A	280-60149-A-8-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-8-B		280-244760	280-244309	09/23/2014 20:21	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-8		280-244187		09/17/2014 10:05	1	TAL DEN	PS

Lab ID: 280-60149-9 **Client ID:** 3406-MW10

Sample Date/Time: 09/17/2014 11:37 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-B-9		280-245649		10/01/2014 04:20	1	TAL DEN	EC
A:8260B	280-60149-B-9		280-245649		10/01/2014 04:20	1	TAL DEN	EC
P:3005A	280-60149-A-9-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-9-A		280-244641	280-244288	09/23/2014 17:06	1	TAL DEN	CRR
P:3005A	280-60149-A-9-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-9-B		280-244760	280-244309	09/23/2014 20:24	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-9		280-244187		09/17/2014 09:37	1	TAL DEN	PS

Lab ID: 280-60149-10 **Client ID:** 3406-MW11D

Sample Date/Time: 09/17/2014 11:10 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-10		280-245649		10/01/2014 04:43	1	TAL DEN	EC
A:8260B	280-60149-D-10		280-245649		10/01/2014 04:43	1	TAL DEN	EC
P:3005A	280-60149-A-10-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	280-60149-A-10-A		280-244641	280-244288	09/23/2014 17:08	1	TAL DEN	CRR
P:3005A	280-60149-A-10-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-10-B		280-244760	280-244309	09/23/2014 20:37	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-10		280-244187		09/17/2014 09:10	1	TAL DEN	PS

Client: Waste Management

Job Number: 280-60149-1

Laboratory Chronicle

Lab ID: 280-60149-11 **Client ID:** 3406-MW11

Sample Date/Time: 09/17/2014 10:43 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-B-11		280-245649		10/01/2014 05:07	1	TAL DEN	EC
A:8260B	280-60149-B-11		280-245649		10/01/2014 05:07	1	TAL DEN	EC
P:3005A	280-60149-A-11-A		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60149-A-11-A		280-244680	280-244289	09/23/2014 23:04	1	TAL DEN	SJS
P:3005A	280-60149-A-11-D		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-11-D		280-244760	280-244309	09/23/2014 20:40	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-11		280-244187		09/17/2014 08:43	1	TAL DEN	PS

Lab ID: 280-60149-11 MS **Client ID:** 3406-MW11

Sample Date/Time: 09/17/2014 10:43 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-60149-A-11-B MS		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60149-A-11-B MS		280-244680	280-244289	09/23/2014 23:10	1	TAL DEN	SJS

Lab ID: 280-60149-11 MSD **Client ID:** 3406-MW11

Sample Date/Time: 09/17/2014 10:43 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-60149-A-11-C MSD		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60149-A-11-C MSD		280-244680	280-244289	09/23/2014 23:12	1	TAL DEN	SJS

Lab ID: 280-60149-12 **Client ID:** 3406-MW02

Sample Date/Time: 09/17/2014 10:16 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-B-12		280-245649		10/01/2014 05:30	1	TAL DEN	EC
A:8260B	280-60149-B-12		280-245649		10/01/2014 05:30	1	TAL DEN	EC
P:3005A	280-60149-A-12-A		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60149-A-12-A		280-244680	280-244289	09/23/2014 23:28	1	TAL DEN	SJS
P:3005A	280-60149-A-12-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-12-B		280-244760	280-244309	09/23/2014 20:43	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-12		280-244187		09/17/2014 08:16	1	TAL DEN	PS

Client: Waste Management

Job Number: 280-60149-1

Laboratory Chronicle

Lab ID: 280-60149-13 **Client ID:** 3406-MW04D

Sample Date/Time: 09/17/2014 09:46 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-E-13		280-245649		10/01/2014 05:54	1	TAL DEN	EC
A:8260B	280-60149-E-13		280-245649		10/01/2014 05:54	1	TAL DEN	EC
P:3005A	280-60149-A-13-A		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60149-A-13-A		280-244680	280-244289	09/23/2014 23:30	1	TAL DEN	SJS
P:3005A	280-60149-A-13-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-13-B		280-244760	280-244309	09/23/2014 20:46	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-13		280-244187		09/17/2014 07:46	1	TAL DEN	PS

Lab ID: 280-60149-14 **Client ID:** 3406-MW04

Sample Date/Time: 09/17/2014 09:18 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-14		280-245649		10/01/2014 06:17	1	TAL DEN	EC
A:8260B	280-60149-D-14		280-245649		10/01/2014 06:17	1	TAL DEN	EC
P:3005A	280-60149-A-14-A		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60149-A-14-A		280-244680	280-244289	09/23/2014 23:33	1	TAL DEN	SJS
P:3005A	280-60149-A-14-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-14-B		280-244760	280-244309	09/23/2014 20:49	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-14		280-244187		09/17/2014 07:18	1	TAL DEN	PS

Lab ID: 280-60149-15 **Client ID:** 3406-MW12

Sample Date/Time: 09/17/2014 08:47 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-C-15		280-245649		10/01/2014 06:41	1	TAL DEN	EC
A:8260B	280-60149-C-15		280-245649		10/01/2014 06:41	1	TAL DEN	EC
P:3005A	280-60149-A-15-A		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60149-A-15-A		280-244680	280-244289	09/23/2014 23:36	1	TAL DEN	SJS
P:3005A	280-60149-A-15-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-15-B		280-244760	280-244309	09/23/2014 20:52	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-15		280-244187		09/17/2014 06:47	1	TAL DEN	PS

Client: Waste Management

Job Number: 280-60149-1

Laboratory Chronicle

Lab ID: **280-60149-16** **Client ID:** **3406-MW12D**

Sample Date/Time: 09/17/2014 08:19 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-16		280-245649		10/01/2014 07:04	1	TAL DEN	EC
A:8260B	280-60149-D-16		280-245649		10/01/2014 07:04	1	TAL DEN	EC
P:3005A	280-60149-A-16-A		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60149-A-16-A		280-244680	280-244289	09/23/2014 23:38	1	TAL DEN	SJS
P:3005A	280-60149-A-16-B		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60149-A-16-B		280-244760	280-244309	09/23/2014 20:55	1	TAL DEN	LRD
A:Field Sampling	280-60149-A-16		280-244187		09/17/2014 06:19	1	TAL DEN	PS

Lab ID: **280-60149-17** **Client ID:** **TRIP BLANK**

Sample Date/Time: 09/17/2014 00:00 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-17		280-245649		09/30/2014 23:17	1	TAL DEN	EC
A:8260B	280-60149-D-17		280-245649		09/30/2014 23:17	1	TAL DEN	EC

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-245649/5		280-245649		09/30/2014 22:27	1	TAL DEN	EC
A:8260B	MB 280-245649/5		280-245649		09/30/2014 22:27	1	TAL DEN	EC
P:3005A	MB 280-244288/1-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	MB 280-244288/1-A		280-244641	280-244288	09/23/2014 16:20	1	TAL DEN	CRR
P:3005A	MB 280-244289/1-A		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	MB 280-244289/1-A		280-244680	280-244289	09/23/2014 22:59	1	TAL DEN	SJS
P:3005A	MB 280-244308/1-A		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	MB 280-244308/1-A		280-244760	280-244308	09/23/2014 18:53	1	TAL DEN	LRD
P:3005A	MB 280-244309/1-A		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	MB 280-244309/1-A		280-244760	280-244309	09/23/2014 20:00	1	TAL DEN	LRD

Client: Waste Management

Job Number: 280-60149-1

Laboratory Chronicle

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-245649/4		280-245649		09/30/2014 22:03	1	TAL DEN	EC
A:8260B	LCS 280-245649/4		280-245649		09/30/2014 22:03	1	TAL DEN	EC
P:3005A	LCS 280-244288/2-A		280-244641	280-244288	09/23/2014 09:00	1	TAL DEN	WDS
A:6010C	LCS 280-244288/2-A		280-244641	280-244288	09/23/2014 16:23	1	TAL DEN	CRR
P:3005A	LCS 280-244289/2-A		280-244680	280-244289	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	LCS 280-244289/2-A		280-244680	280-244289	09/23/2014 23:02	1	TAL DEN	SJS
P:3005A	LCS 280-244308/2-A		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	LCS 280-244308/2-A		280-244760	280-244308	09/23/2014 18:56	1	TAL DEN	LRD
P:3005A	LCS 280-244309/2-A		280-244760	280-244309	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	LCS 280-244309/2-A		280-244760	280-244309	09/23/2014 20:03	1	TAL DEN	LRD

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

Sample Date/Time: 09/17/2014 12:05 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-60137-A-1-E MS		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60137-A-1-E MS		280-244760	280-244308	09/23/2014 19:08	1	TAL DEN	LRD

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

Sample Date/Time: 09/17/2014 12:05 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-60137-A-1-F MSD		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60137-A-1-F MSD		280-244760	280-244308	09/23/2014 19:11	1	TAL DEN	LRD

Lab References:

TAL DEN = TestAmerica Denver

0.1,4.1 FOIR-6
9/18/14 LO

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custoc

280-60149 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	COC No: 280-19344-8874.1
Client Contact: Mr. Al Lacsamana	Phone: 235.907.4060	E-Mail: betsy.sara@testamericainc.com	Page:
Company: Waste Management			Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:		
City: Atlanta	TAT Requested (days):		
State, Zip: GA, 30339			
Phone: 770-805-3366(Tel)	PO #: Purchase Order not required		
Email: alacsama@wm.com	WO #		
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Sep		
Site: North Carolina	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOA	Total Metals	Dissolved Metals (optional - put on hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	D		
MW09R	9-17	1130	G	W	N		3	1			ANALYZE DISS. METALS
MW06	9-17	1032	G	W	N		3	1			FOR DETECTED
MW01	9-17	1000	G	W	N		3	1			TOTAL METALS ONLY
MW08	9-17	0927	G	W	N		3	1	1		
MW05	9-17	0850	G	W	N		3	1			
01FB	9-17	1255	G	W	N		3	1			
MW03	9-17	1235	G	W	N		3	1			
MW07	9-17	1205	G	W	N		3	1			
MW10	9-17	1137	G	W	N		3	1			
MW11D	9-17	1110	G	W	N		3	1			
MW11	9-17	1043	G	W	N		3	1			

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9-17-14 / 1800	Company: PRO-TECH	Received by:	Date/Time: 9/18/14 930	Company: TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-19344-8874.1
Client Contact: Mr. Al Lacsamana	Phone: 225,907,4060	E-Mail: betsy.sara@testamericainc.com		Page:
Company: Waste Management				Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 770-805-3366(Tel)	PO #: Purchase Order not required			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Sep			
Site: North Carolina	SSOW#			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOA	Total Metals	Dissolved Metals (optional - put on hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	D		
MW02	9-17	1016	G	W	N		3	1			ANALYZE DISS. METALS
MW04D	9-17	0946	G	W	Y		3	1	1		FOR DETECTED
MW04	9-17	0918	G	W	N		3	1			TOTAL METALS ONLY
MW12	9-17	0847	G	W	N		3	1			
MW12D	9-17	0819	G	W	N		3	1			
TRIP	9-17	—	G	W	N		✓				

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time.	Method of Shipment:		
Relinquished by:	Date/Time: 9-17-14 / 1800	Company: PRO-TECH	Received by:	Date/Time: 9/18/14 930	Company: TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time.	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

MW 09 - 32.70

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:

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 17 14	1110	0020	26	20	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

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): 26.85 (ft)

Groundwater Elevation (site datum, from TOC): 738.10 (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)
1120	1.0 1st	5.94 1st	391	1.85	13	1.2	-239	27.5
1123	1.0 2nd	5.93 2nd	389	1.89	13	1.2	-156	27.5
1126	1.0 3rd	5.92 3rd	391	1.88	12	1.2	-125	27.5
1129	1.0 4th	5.90 4th	390	1.84	09	1.2	-105	27.5
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
09 17 14	5.90	390	1.84	09	1.2	-105	

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: _____ Color: NONE Other: _____

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

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

FIELD COMMENTS

CALC: 42.95 - 26.85 = 16.10 X 0.163 = 2.62 GAL.

FLOW: 154 X 4 = 616 ÷ 60 = 10.27 MIN/GAL = 0.10 gpm.

VOL: 20.00 ÷ 10.27 = 1.95 GAL.

SAMPLE TIME: 1130

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
09/17/14	BEN RAMNEAWAN	Ben Ramneawan	PRO-TECH

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW06 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	1011	0021	09	20	2.3

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): 80087 (ft/msl)

Depth to Water (DTW) (from TOC): 2426 (ft)

Groundwater Elevation (site datum, from TOC): 87661 (ft/msl) BK

Total Well Depth (from TOC): 2960 (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)
1022	.09	1st 5.15	1st 3.8	16.1	1.3	3.8	799	24.4
1025	.09	2nd 5.14	2nd 3.8	16.2	1.4	3.6	821	24.4
1028	.09	3rd 5.15	3rd 3.8	16.3	1.3	3.7	816	24.4
1031	.09	4th 5.15	4th 3.9	16.4	1.1	3.6	821	24.4
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 ____
091714	5.15	3.9	16.4	1.1	3.6	821	

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: ____ Color: NONE Other: ____

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

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

FIELD COMMENTS

CALC: 29.60 - 24.26 = 5.34 X 0.163 = 0.87 GAL

FLOW: 158 X 4 = 632 ÷ 60 = 10.53 ML/GAL = 0.09 gpm

VOL: 21.00 ÷ 10.53 = 1.99 GAL

SAMPLE TIME: 1032

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
09/17/14	BEN RAMJEAWAN	Ben Ramjeawan	PRO-TECH

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW01 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	0940	00:20	08	17	2.1

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): 823.93 (ft/msl)

Depth to Water (DTW) (from TOC): 43.88 (ft)

Groundwater Elevation (site datum, from TOC): 780.05 (ft/msl)

Total Well Depth (from TOC): 49.00 (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)
0950	.09 1st	5.86 1st	71	16.4	44	2.1	145	43.9
0953	.09 2nd	5.83 2nd	70	16.6	43	2.1	157	43.9
0956	.09 3rd	5.82 3rd	70	16.6	40	2.0	162	43.9
0959	.09 4th	5.81 4th	73	16.6	37	2.0	163	43.9
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	1/- 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
091714	581	73	166	37	20	163	

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: _____ Color: NONE Other: _____

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

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

FIELD COMMENTS

CALC: 49.00 − 43.88 = 5.12 X 0.163 = 0.83 GAL.

FLOW: 172 X 4 = 688 ÷ 60 = 11.47 MIN/GAL = 0.09 gpm

VOL: 20.00 ÷ 11.47 = 1.74 GAL.

SAMPLE TIME: 1000

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
09/17/14	BEN RAMJEAWAN	Ben Ramjeawan	PRO-TECH

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW08 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	0905	0022	1.5	2.2	1.4

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: D 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 — 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): 74895 (ft/msl)

Depth to Water (DTW) (from TOC): 9.38 (ft)

Groundwater Elevation (site datum, from TOC): 73957 (ft/msl)

Total Well Depth (from TOC): 1880 (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)
0917	1.0 1st	5.40 1st	110	16.7	15.1	3.8	193	10.4
0920	1.0 2nd	5.37 2nd	110	16.7	14.7	3.6	198	10.4
0923	1.0 3rd	5.38 3rd	110	16.8	14.3	3.8	198	10.4
0926	1.0 4th	5.37 4th	110	16.9	14.0	3.7	200	10.4
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 ____
091714	5.37	110	16.9	14.0	3.7	200	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 68F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 18.80 − 9.38 = 9.42 x 0.163 = 1.54 GAL.
FLOW: 152 x 4 = 608 ÷ 60 = 10.13 MIN/GAL = 0.1 gpm
VOL: 22.00 ÷ 10.13 = 2.17 GAL.
SAMPLE TIME: 0927

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
09/17/14	BEN RAMNEAWAN	Ben Ramneawan	PRO-TECH

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW-5 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	0830	00:20	25	22	0.9

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): 74317 (ft/msl)

Depth to Water (DTW) (from TOC): 550 (ft)

Groundwater Elevation (site datum, from TOC): 73767 (ft/msl)

Total Well Depth (from TOC): 2050 (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)
08:40	.11	1st 5.81	1st 363	15.2	0.9	0.5	202	5.6
08:43	.11	2nd 5.80	2nd 363	15.3	0.8	0.4	206	5.6
08:46	.11	3rd 5.81	3rd 363	15.2	0.5	0.5	208	5.6
08:49	.11	4th 5.78	4th 362	15.2	0.5	0.5	214	5.6
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
091714	5.78	362	15.2	0.5	0.5	214	

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:** **Color:** NONE **Other:**

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

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

FIELD COMMENTS

CALC: 20.50 − 5.50 = 15.00 X 0.163 = 2.45 GAL.

FLOW: 139 X 4 = 556 ÷ 60 = 9.27 MIN/GAL = 0.11 gpm.

VOL: 20.00 ÷ 9.27 = 2.16 GAL.

SAMPLE TIME: 0850

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
09/17/14	BEN RAMJEAWAN	Ben Ramjeawan	PRO-TECH

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

TAL-8029WM (1013)

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:

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
091714	—	—	—	—	—

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)
1255	NA	1st 7.49	1st 1	22.3	0.0	0.9	119	
		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
091714	7.49	1	223	0.0	0.9	119	

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: _____ Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

01FB COMPLETED USING D.I. H_2O PROVIDED BY TEST AMERICA

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
__/__/__			

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW03 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	1217	18	19	16	0.8

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): 770.08 (ft/msl)

Depth to Water (DTW) (from TOC): 26.15 (ft)

Groundwater Elevation (site datum, from TOC): 743.93 (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)
1228	0.09 1st	5.86 1st	170	14.9	15	4.7	159	27.7
1230	0.09 2nd	5.84 2nd	170	15.0	19	4.8	160	27.7
1232	0.09 3rd	5.86 3rd	172	15.0	16	4.8	163	27.8
1234	0.09 4th	5.87 4th	171	14.9	16	4.8	164	27.8
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
091714	5.87	171	14.9	16	4.8	164	

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: _____ Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 38.00 - 26.15 = 11.85 x 0.163 = 1.93 gal

FLOW: 164 sec/gt x 4 gt/gal = 656 ÷ 60 = 10.93 ∴ 0.091 gpm

ACTUAL: 18 min x 0.091 gpm = 1.64 gal

SAMPLE TIME: 1235

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
/ /			

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

TAL-8029WM (1013)

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:

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 17 14	1147	1 18	0.8	1.6	1.9

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): 7157 (ft/msl)

Depth to Water (DTW) (from TOC): 2613 (ft)

Groundwater Elevation (site datum, from TOC): 7454 (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)
1158	0.09 1st	5.93 1st	168 1st	15.3	2.5	5.0	166	27.3
1200	0.09 2nd	5.94 2nd	169 2nd	15.3	2.2	5.0	169	27.3
1202	0.09 3rd	5.93 3rd	169 3rd	15.3	2.3	5.0	169	27.3
1204	0.09 4th	5.91 4th	169 4th	15.3	2.0	5.0	170	27.3
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 17 14	5.91	169	15.3	2.0	5.0	170	

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: _____ Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 31.30 - 26.13 = 5.17 x 0.163 = 0.84 gal

FLOW: 168 oz/qt x 4 qt/gal = 672 ÷ 60 = 11.20 ∴ 0.089 gpm

ACTUAL: 18 min x 0.089 gpm = 1.60 gallon

SAMPLE TIME: 1205

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
__/__/__			

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

TAL-8029WM (1013)

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:

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
091714	1120	17	08	13	1.6

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
77720 (ft/msl)	3293 (ft)	74427 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
3800 (ft)	(ft)	2 (in)	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)
1130	0.08 1st	5.75 1st	116	15.8	47	3.1	186	33.0
1132	0.08 2nd	5.78 2nd	116	15.8	38	3.1	187	33.0
1134	0.08 3rd	5.78 3rd	116	15.8	35	3.1	190	33.0
1136	0.08 4th	5.77 4th	117	15.7	36	3.1	189	33.0
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
091714	5.97	117	15.7	36	3.1	189	

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: _____ Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 38.00 - 32.93 = 5.07 x 0.163 = 0.83 gal

FLOW: 192 sec/gt x 4 gt/gal = 768 ÷ 60 = 12.80 ∴ 0.078 gpm

ACTUAL: 17 min x 0.078 gpm = 1.33 gal

SAMPLE TIME: 1137

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
9/17/14	DAN ARMOIA	[signature]	PRO-TECH
/ /			

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

TAL-8029WM (1013)

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:

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
091714	1052	18	104	18	6.2

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): 77636 (ft/msl)

Depth to Water (DTW) (from TOC): 2956 (ft)

Groundwater Elevation (site datum, from TOC): 74680 (ft/msl)

Total Well Depth (from TOC): 9350 (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)
1103	0.1 1st	6.42 1st	76	14.9	52	3.0	161	31.4
1105	0.1 2nd	6.41 2nd	75	15.0	53	3.1	158	31.4
1107	0.1 3rd	6.41 3rd	75	15.0	57	3.1	159	31.4
1109	0.1 4th	6.41 4th	74	15.0	59	3.1	160	31.4
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 ____
091714	6.41	74	15.0	59	3.1	160	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 93.50 − 29.56 = 63.94 × 0.163 = 10.42 gallon

FLOW: 151 ozz/gt × 4 gt/gal = 604 ÷ 60 = 10.07 ∴ 0.099 gpm

ACTUAL: 18 min × 0.099 gpm = 1.78 gallon

SAMPLE TIME: 1110

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
__/__/__			

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Piedmont

Site No.:

Sample Point: MW11 (Sample ID)

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

Laboratory Use Only/Lab ID.

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	1026	17	09	15	1.7

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): 7680 (ft/msl)

Depth to Water (DTW) (from TOC): 2968 (ft)

Groundwater Elevation (site datum, from TOC): 7471.2 (ft/msl)

Total Well Depth (from TOC): 3500 (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)
1036	0.09	1st 5.54	1st 173	15.2	35	1.0	264	297
1038	0.09	2nd 5.55	2nd 174	15.2	36	0.9	261	297
1040	0.09	3rd 5.54	3rd 174	15.2	38	1.0	258	298
1042	0.09	4th 5.53	4th 174	15.2	36	0.9	259	298
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
091714	5.58	174	15.2	36	0.9	259	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 35.00 - 29.68 = 5.32 x 0.163 = 0.87 gallon

FLOW: 171 mL/min x 4 min/gal = 684 ÷ 60 = 11.40 ∴ 0.088 gpm

ACTUAL: 17 min x 0.088 = 1.50 gallon

SAMPLE TIME: 1043

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
9/17/14	DAN ARMOUR		PRO-TEAM
/ /			

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

TAL-8029WM (1013)

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.

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:mm)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	0958	18	09	15	1.6

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): 7804 (ft/msl)

Depth to Water (DTW) (from TOC): 2990 (ft)

Groundwater Elevation (site datum, from TOC): 7484 (ft/msl)

Total Well Depth (from TOC): 3550 (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)
1009	0.08	1st 5.25	1st 173	150	2.8	2.3	202	30.0
1011	0.08	2nd 5.24	2nd 177	150	2.9	2.3	203	30.0
1013	0.08	3rd 5.25	3rd 177	150	2.4	2.4	204	30.0
1015	0.08	4th 5.24	4th 175	151	2.5	2.4	205	30.0
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 ____
091714	524	195	151	25	24	205	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or N

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

CALC: 35.50 - 29.90 = 5.60 x 0.163 = 0.91 gallon

FLOW: 180 mL/gt x 4 gt/min = 720 ÷ 60 = 12.00 ∴ 0.083 gpm

ACTUAL: 18 min x 0.083 gpm = 1.49 gallon

SAMPLE TIME: 1016

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
/ /			

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Piedmont

Site No.:

Sample Point: MW04D (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	0928	1:18	97	14	0.2

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

Filter Type: A — 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): 75733 (ft/msl)

Depth to Water (DTW) (from TOC): 15.02 (ft)

Groundwater Elevation (site datum, from TOC): 74231 (ft/msl)

Total Well Depth (from TOC): 62.00 (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)
0939	0.08 1st	6.01 1st	120	15.6	10.7	4.5	181	15.1
0941	0.08 2nd	6.03 2nd	120	15.7	11.4	4.4	182	15.1
0943	0.08 3rd	6.03 3rd	120	15.7	11.4	4.4	183	15.1
0945	0.08 4th	6.04 4th	122	15.7	11.9	4.4	184	15.1
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
091714	604	122	157	119	44	184	

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: Yg. slt. cloudy Odor: Color: Whitish tint Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 62.00 − 15.02 = 46.98 × 0.163 = 7.66 gallon

FLOW: 188 mm/ft × 4 ft/gal = 752 ÷ 60 = 12.53 ∴ 0.08 gpm

ACTUAL: 18 min × 0.08 gpm = 1.44 gal

SAMPLE TIME: 0946

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
/ /			

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

TAL-8029WM (1013)

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:

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
091714	0900	18	20	17	0.9

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
756.92 (ft/msl)	14.52 (ft)	742.40 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
27.00 (ft)	(ft)	2 (in)	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)
0911	0.1 1st	5.96 1st	92	15.5	36	0.3	202	15.4
0913	0.1 2nd	5.48 2nd	92	15.5	31	0.3	204	15.5
0915	0.1 3rd	5.50 3rd	93	15.4	32	0.4	206	15.5
0917	0.1 4th	5.49 4th	93	15.4	34	0.4	207	15.5
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
091714	5.49	93	15.4	34	0.4	207	

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: _____ Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 27.00 - 14.52 = 12.48 x 0.163 = 2.03 gal

FLOW: 157 sec/qt x 4 qt/gal = 628 ÷ 60 = 10.47 ∴ 0.096 gpm

ACTUAL: 18 min x 0.096 gpm = 1.73 gal

SAMPLE TIME: 0918

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
/ /			

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

TAL-8029WM (1013)

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:

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
091714	0827	20	18	16	0.9

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): 751.48 (ft/msl)

Depth to Water (DTW) (from TOC): 6.86 (ft)

Groundwater Elevation (site datum, from TOC): 744.62 (ft/msl)

Total Well Depth (from TOC): 18.00 (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)
0840	0.08 1st	6.09 1st	168 1st	15.2	6.9	0.7	152	7.0
0842	0.08 2nd	6.08 2nd	169 2nd	15.2	5.2	0.7	155	7.0
0844	0.08 3rd	6.09 3rd	169 3rd	15.2	4.8	0.7	156	7.0
0846	0.08 4th	6.07 4th	169 4th	15.2	4.9	0.7	156	7.0
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
091714	6.07	169	15.2	4.9	0.7	156	

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

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 18.00 - 6.86 = 11.14 x 0.163 = 1.82 gal

FLOW: 184 oz/gt x 4 gt/gal = 736 ÷ 60 = 12.27 ∴ 0.082 gpm

ACTUAL: 20 min x 0.082 gpm = 1.64 gal

SAMPLE TIME: 0847

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
__/__/__			

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW12D (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	0801	18	6.0	16	0.3

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): 75148 (ft/msl)

Depth to Water (DTW) (from TOC): 660 (ft)

Groundwater Elevation (site datum, from TOC): 74488 (ft/msl)

Total Well Depth (from TOC): 4330 (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 200	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0812	0.09 1st	6.54 1st	266	15.2	28	0.5	149	6.8
0814	0.09 2nd	6.55 2nd	266	15.2	24	0.5	145	6.8
0816	0.09 3rd	6.56 3rd	266	15.2	24	0.5	143	6.8
0818	0.09 4th	6.56 4th	267	15.2	24	0.5	142	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
091714	6.56	267	15.2	24	0.5	142	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. Precipitation: Y or N

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

FIELD COMMENTS

CALC: 43.30 − 6.60 = 36.70 x 0.163 = 5.98 gal

FLOW: 172 cm/pt x 4 pt/gal = 688 cm/gal ÷ 60 sec/min = 11.47 min/gal ∴ 0.087 gpm

ACTUAL: 18 min x 0.087 gpm = 1.57 gal

SAMPLE TIME: 0819

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
9/17/14	DAN ARMOUR	[signature]	PRO-TECH
/ /			

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

TAL-8029WM (1013)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-60149-1

Login Number: 60149

List Source: TestAmerica Denver

List Number: 1

Creator: Orfield, Tayler C

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
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	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 280-60137-1

Job Description: 134|Piedmont Landfill

For:
Waste Management
1850 Parkway Place
Suite 600
Marietta, GA 30067

Attention: Mr. Al Lacsamana

Approved for release.
Janice S Collins
Project Management Assistant I
10/6/2014 3:35 PM

Designee for
Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
10/06/2014

cc: Mr. Van Burbach

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

The Lab Certification ID# is 4025.

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

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CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-60137-1

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

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

Sample Receiving

The samples were received on 09/18/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.8 C.

Holding Times

The holding times were within established control limits.

Trip Blanks

Methylene Chloride was detected in the trip blank sample at a level below the requested reporting limit, however, Methylene Chloride was not detected in any other samples, and therefore, no corrective action was performed.

Method Blanks

Methylene Chloride Method 8260B and Total Barium Method 6010C were detected in the Method Blanks below the project established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

All MS/MSD samples were within established control limits.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60137-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-60137-1	**3406-S02**					
Field pH		7.22			SU	Field Sampling
Field Conductivity		151			umhos/cm	Field Sampling
Field Temperature		18.9			Degrees C	Field Sampling
Field Turbidity		6.2			NTU	Field Sampling
Field Dissolved Oxygen		5.0			mg/L	Field Sampling
Field EH/ORP		-47.1			millivolts	Field Sampling
Total Recoverable						
Barium		37	J B	100	ug/L	6010C
Thallium		0.081	J	5.5	ug/L	6020A
Zinc		2.7	J	10	ug/L	6020A
280-60137-2	**3406-S03**					
Field pH		7.45			SU	Field Sampling
Field Conductivity		107			umhos/cm	Field Sampling
Field Temperature		20.3			Degrees C	Field Sampling
Field Turbidity		11.3			NTU	Field Sampling
Field Dissolved Oxygen		5.2			mg/L	Field Sampling
Field EH/ORP		-8.1			millivolts	Field Sampling
Total Recoverable						
Barium		33	J B	100	ug/L	6010C
Chromium		1.4	J	10	ug/L	6010C
Vanadium		2.9	J	25	ug/L	6010C
Copper		1.2	J	10	ug/L	6020A
Zinc		4.1	J	10	ug/L	6020A
280-60137-3	**3406-S04**					
Field pH		7.00			SU	Field Sampling
Field Conductivity		116			umhos/cm	Field Sampling
Field Temperature		21.2			Degrees C	Field Sampling
Field Turbidity		12.3			NTU	Field Sampling
Field Dissolved Oxygen		2.8			mg/L	Field Sampling
Field EH/ORP		43.9			millivolts	Field Sampling
Total Recoverable						
Barium		28	J B	100	ug/L	6010C
Vanadium		1.5	J	25	ug/L	6010C
Copper		0.56	J	10	ug/L	6020A
Zinc		2.4	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60137-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-60137-4	**3406-S05**					
Field pH		7.48			SU	Field Sampling
Field Conductivity		145			umhos/cm	Field Sampling
Field Temperature		19.1			Degrees C	Field Sampling
Field Turbidity		3.1			NTU	Field Sampling
Field Dissolved Oxygen		5.7			mg/L	Field Sampling
Field EH/ORP		-40.0			millivolts	Field Sampling
Total Recoverable						
Barium		32	J B	100	ug/L	6010C
Vanadium		1.9	J	25	ug/L	6010C
Copper		0.76	J	10	ug/L	6020A
Zinc		2.4	J	10	ug/L	6020A
280-60137-5TB	**TRIP BLANK**					
Methylene Chloride		0.38	J B	1.0	ug/L	8260B

METHOD SUMMARY

Client: Waste Management

Job Number: 280-60137-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Metals (ICP)	TAL DEN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Field Sampling	TAL DEN	EPA Field Sampling	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-60137-1

Method	Analyst	Analyst ID
SW846 8260B	Contreras, Evan	EC
SW846 6010C	Scott, Samantha J	SJS
SW846 6020A	Diaz, Luis R	LRD
EPA Field Sampling	Saraubon, Phakchaya	PS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-60137-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-60137-1	3406-S02	Water	09/17/2014 1205	09/18/2014 0930
280-60137-2	3406-S03	Water	09/17/2014 1220	09/18/2014 0930
280-60137-3	3406-S04	Water	09/17/2014 1238	09/18/2014 0930
280-60137-4	3406-S05	Water	09/17/2014 1150	09/18/2014 0930
280-60137-5TB	TRIP BLANK	Water	09/17/2014 0000	09/18/2014 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-60137-1

Client Matrix: Water

Date Sampled: 09/17/2014 1205

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C1515.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1754			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1754				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-60137-1

Client Matrix: Water

Date Sampled: 09/17/2014 1205

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C1515.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1754			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1754				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78		70 - 127
4-Bromofluorobenzene (Surr)	90		78 - 120
Dibromofluoromethane (Surr)	81		77 - 120
Toluene-d8 (Surr)	91		80 - 125

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-60137-2

Client Matrix: Water

Date Sampled: 09/17/2014 1220

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C1518.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1855			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1855				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-60137-2

Client Matrix: Water

Date Sampled: 09/17/2014 1220

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C1518.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1855			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1855				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
4-Bromofluorobenzene (Surr)	91		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120
Toluene-d8 (Surr)	91		80 - 125

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-60137-3

Client Matrix: Water

Date Sampled: 09/17/2014 1238

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C1519.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1915			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1915				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-60137-3

Client Matrix: Water

Date Sampled: 09/17/2014 1238

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C1519.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1915			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1915				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 127
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120
Toluene-d8 (Surr)	88		80 - 125

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-60137-4

Client Matrix: Water

Date Sampled: 09/17/2014 1150

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C1520.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1935			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1935				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-60137-4

Client Matrix: Water

Date Sampled: 09/17/2014 1150

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C1520.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1935			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1935				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 127
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	87		77 - 120
Toluene-d8 (Surr)	87		80 - 125

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-60137-5TB

Client Matrix: Water

Date Sampled: 09/17/2014 0000

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9908.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2253			Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2253				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.38	J B	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-60137-5TB

Client Matrix: Water

Date Sampled: 09/17/2014 0000

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9908.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2253			Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2253				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 127
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	97		77 - 120
Toluene-d8 (Surr)	109		80 - 125

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-60137-1

Client Matrix: Water

Date Sampled: 09/17/2014 1205

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2218			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	37	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	022AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1859			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	0.081	J	0.050	5.5
Zinc	2.7	J	2.0	10

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-60137-2

Client Matrix: Water

Date Sampled: 09/17/2014 1220

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2241			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	33	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.4	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	2.9	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	030SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1924			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.2	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	4.1	J	2.0	10

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-60137-3

Client Matrix: Water

Date Sampled: 09/17/2014 1238

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2244			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	28	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	1.5	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	031SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1927			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	0.56	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.4	J	2.0	10

Client: Waste Management

Job Number: 280-60137-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-60137-4

Client Matrix: Water

Date Sampled: 09/17/2014 1150

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2246			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	32	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	1.9	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-244308	Lab File ID:	032SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1930			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	0.76	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.4	J	2.0	10

Field Service / Mobile Lab

Client Sample ID: **3406-S02**

Lab Sample ID: 280-60137-1 Date Sampled: 09/17/2014 1205

Client Matrix: Water Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.22		SU	1.0	Field Sampling	280-244187	09/17/2014 1005
Field Conductivity	151		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 1005
Field Temperature	18.9		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 1005
Field Turbidity	6.2		NTU	1.0	Field Sampling	280-244187	09/17/2014 1005
Field Dissolved Oxygen	5.0		mg/L	1.0	Field Sampling	280-244187	09/17/2014 1005
Field EH/ORP	-47.1		millivolts	1.0	Field Sampling	280-244187	09/17/2014 1005

Field Service / Mobile Lab

Client Sample ID: **3406-S03**

Lab Sample ID: 280-60137-2 Date Sampled: 09/17/2014 1220

Client Matrix: Water Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.45		SU	1.0	Field Sampling	280-244187	09/17/2014 1020
Field Conductivity	107		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 1020
Field Temperature	20.3		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 1020
Field Turbidity	11.3		NTU	1.0	Field Sampling	280-244187	09/17/2014 1020
Field Dissolved Oxygen	5.2		mg/L	1.0	Field Sampling	280-244187	09/17/2014 1020
Field EH/ORP	-8.1		millivolts	1.0	Field Sampling	280-244187	09/17/2014 1020

Field Service / Mobile Lab

Client Sample ID: **3406-S04**

Lab Sample ID: 280-60137-3 Date Sampled: 09/17/2014 1238

Client Matrix: Water Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.00		SU	1.0	Field Sampling	280-244187	09/17/2014 1038
Field Conductivity	116		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 1038
Field Temperature	21.2		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 1038
Field Turbidity	12.3		NTU	1.0	Field Sampling	280-244187	09/17/2014 1038
Field Dissolved Oxygen	2.8		mg/L	1.0	Field Sampling	280-244187	09/17/2014 1038
Field EH/ORP	43.9		millivolts	1.0	Field Sampling	280-244187	09/17/2014 1038

Field Service / Mobile Lab

Client Sample ID: **3406-S05**

Lab Sample ID: 280-60137-4

Client Matrix: Water

Date Sampled: 09/17/2014 1150

Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.48		SU	1.0	Field Sampling	280-244187	09/17/2014 0950
Field Conductivity	145		umhos/cm	1.0	Field Sampling	280-244187	09/17/2014 0950
Field Temperature	19.1		Degrees C	1.0	Field Sampling	280-244187	09/17/2014 0950
Field Turbidity	3.1		NTU	1.0	Field Sampling	280-244187	09/17/2014 0950
Field Dissolved Oxygen	5.7		mg/L	1.0	Field Sampling	280-244187	09/17/2014 0950
Field EH/ORP	-40.0		millivolts	1.0	Field Sampling	280-244187	09/17/2014 0950

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-60137-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-60137-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-245649					
LCS 280-245649/4	Lab Control Sample	T	Water	8260B	
MB 280-245649/5	Method Blank	T	Water	8260B	
280-60137-5TB	TRIP BLANK	T	Water	8260B	
280-60149-D-1 MS	Matrix Spike	T	Water	8260B	
280-60149-D-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:280-245779					
LCS 280-245779/17	Lab Control Sample	T	Water	8260B	
MB 280-245779/18	Method Blank	T	Water	8260B	
280-60137-1	3406-S02	T	Water	8260B	
280-60137-1MS	Matrix Spike	T	Water	8260B	
280-60137-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-60137-2	3406-S03	T	Water	8260B	
280-60137-3	3406-S04	T	Water	8260B	
280-60137-4	3406-S05	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-60137-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-244286					
LCS 280-244286/2-A	Lab Control Sample	R	Water	3005A	
MB 280-244286/1-A	Method Blank	R	Water	3005A	
280-60137-1	3406-S02	R	Water	3005A	
280-60137-1MS	Matrix Spike	R	Water	3005A	
280-60137-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-60137-2	3406-S03	R	Water	3005A	
280-60137-3	3406-S04	R	Water	3005A	
280-60137-4	3406-S05	R	Water	3005A	
Prep Batch: 280-244308					
LCS 280-244308/2-A	Lab Control Sample	R	Water	3005A	
MB 280-244308/1-A	Method Blank	R	Water	3005A	
280-60137-1	3406-S02	R	Water	3005A	
280-60137-1MS	Matrix Spike	R	Water	3005A	
280-60137-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-60137-2	3406-S03	R	Water	3005A	
280-60137-3	3406-S04	R	Water	3005A	
280-60137-4	3406-S05	R	Water	3005A	
Analysis Batch:280-244680					
LCS 280-244286/2-A	Lab Control Sample	R	Water	6010C	280-244286
MB 280-244286/1-A	Method Blank	R	Water	6010C	280-244286
280-60137-1	3406-S02	R	Water	6010C	280-244286
280-60137-1MS	Matrix Spike	R	Water	6010C	280-244286
280-60137-1MSD	Matrix Spike Duplicate	R	Water	6010C	280-244286
280-60137-2	3406-S03	R	Water	6010C	280-244286
280-60137-3	3406-S04	R	Water	6010C	280-244286
280-60137-4	3406-S05	R	Water	6010C	280-244286
Analysis Batch:280-244760					
LCS 280-244308/2-A	Lab Control Sample	R	Water	6020A	280-244308
MB 280-244308/1-A	Method Blank	R	Water	6020A	280-244308
280-60137-1	3406-S02	R	Water	6020A	280-244308
280-60137-1MS	Matrix Spike	R	Water	6020A	280-244308
280-60137-1MSD	Matrix Spike Duplicate	R	Water	6020A	280-244308
280-60137-2	3406-S03	R	Water	6020A	280-244308
280-60137-3	3406-S04	R	Water	6020A	280-244308
280-60137-4	3406-S05	R	Water	6020A	280-244308

Report Basis

R = Total Recoverable

Client: Waste Management

Job Number: 280-60137-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-244187					
280-60137-1	3406-S02	T	Water	Field Sampling	
280-60137-2	3406-S03	T	Water	Field Sampling	
280-60137-3	3406-S04	T	Water	Field Sampling	
280-60137-4	3406-S05	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-60137-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
280-60137-1	3406-S02	78	90	81	91
280-60137-2	3406-S03	96	91	90	91
280-60137-3	3406-S04	97	93	91	88
280-60137-4	3406-S05	95	89	87	87
280-60137-5	TRIP BLANK	90	100	97	109
MB 280-245649/5		100	95	103	100
MB 280-245779/18		105	101	103	103
LCS 280-245649/4		95	94	96	91
LCS 280-245779/17		103	99	103	103
280-60137-1 MS	3406-S02 MS	94	96	93	95
280-60149-D-1 MS		104	99	102	99
280-60137-1 MSD	3406-S02 MSD	109	106	103	104
280-60149-D-1 MSD		105	101	105	98

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
BFB = 4-Bromofluorobenzene (Surr)	78-120
DBFM = Dibromofluoromethane (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-125

Client: Waste Management

Job Number: 280-60137-1

Method Blank - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-245649/5	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9907.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2227	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2227				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.631	J	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-60137-1

Method Blank - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-245649/5	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9907.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2227	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2227				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	70 - 127
4-Bromofluorobenzene (Surr)	95	78 - 120
Dibromofluoromethane (Surr)	103	77 - 120
Toluene-d8 (Surr)	100	80 - 125

Lab Control Sample - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-245649/4	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9906.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2203	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2203				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	4.99	100	70 - 135	
1,1-Dichloroethane	5.00	5.28	106	75 - 135	
1,1-Dichloroethene	5.00	4.93	99	71 - 136	J
1,2-Dichloropropane	5.00	5.19	104	71 - 120	
1,3-Dichlorobenzene	5.00	4.95	99	74 - 135	
Benzene	5.00	5.26	105	74 - 135	
Bromodichloromethane	5.00	4.75	95	73 - 135	
Carbon tetrachloride	5.00	5.03	101	67 - 135	
Chlorobenzene	5.00	4.79	96	76 - 135	
Chloroform	5.00	4.97	99	76 - 120	J
Ethylbenzene	5.00	4.72	94	72 - 120	
Methylene Chloride	5.00	4.97	99	54 - 141	
Tetrachloroethene	5.00	4.90	98	70 - 135	
Toluene	5.00	5.28	106	73 - 120	
trans-1,2-Dichloroethene	5.00	5.21	104	75 - 135	
Trichloroethene	5.00	5.03	101	73 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	70 - 127
4-Bromofluorobenzene (Surr)	94	78 - 120
Dibromofluoromethane (Surr)	96	77 - 120
Toluene-d8 (Surr)	91	80 - 125

Client: Waste Management

Job Number: 280-60137-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-245649

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-60149-D-1 MS	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9913.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0050			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0050				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-60149-D-1 MSD	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9914.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0114			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0114				20 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	102	103	70 - 135	1	20		
1,1-Dichloroethane	110	110	75 - 135	0	21		
1,1-Dichloroethene	97	98	71 - 136	1	20	J	J
1,2-Dichloropropane	103	107	71 - 120	4	20		
1,3-Dichlorobenzene	99	99	74 - 135	0	20		
Benzene	106	107	74 - 135	1	20		
Bromodichloromethane	94	98	73 - 135	4	20		
Carbon tetrachloride	101	100	67 - 135	1	21		
Chlorobenzene	98	99	76 - 135	1	20		
Chloroform	103	106	76 - 120	2	20		
Ethylbenzene	95	97	72 - 120	2	26		
Methylene Chloride	90	98	54 - 141	7	20		
Tetrachloroethene	98	95	70 - 135	3	20		
Toluene	102	106	73 - 120	4	20		
trans-1,2-Dichloroethene	104	107	75 - 135	3	24		
Trichloroethene	98	101	73 - 135	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	105	70 - 127
4-Bromofluorobenzene (Surr)	99	101	78 - 120
Dibromofluoromethane (Surr)	102	105	77 - 120
Toluene-d8 (Surr)	99	98	80 - 125

Client: Waste Management

Job Number: 280-60137-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-245649

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-60149-D-1 MS	Units:	ug/L	MSD Lab Sample ID:	280-60149-D-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/01/2014 0050			Analysis Date:	10/01/2014 0114
Prep Date:	10/01/2014 0050			Prep Date:	10/01/2014 0114
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND		5.00	5.00	5.10		5.14	
1,1-Dichloroethane	1.3	J	5.00	5.00	6.77		6.78	
1,1-Dichloroethene	ND		5.00	5.00	4.84	J	4.90	J
1,2-Dichloropropane	ND		5.00	5.00	5.16		5.35	
1,3-Dichlorobenzene	ND		5.00	5.00	4.96		4.95	
Benzene	ND		5.00	5.00	5.32		5.37	
Bromodichloromethane	ND		5.00	5.00	4.71		4.91	
Carbon tetrachloride	ND		5.00	5.00	5.07		5.02	
Chlorobenzene	ND		5.00	5.00	4.88		4.94	
Chloroform	ND		5.00	5.00	5.17		5.28	
Ethylbenzene	ND		5.00	5.00	4.75		4.85	
Methylene Chloride	0.42	J	5.00	5.00	4.93		5.30	
Tetrachloroethene	ND		5.00	5.00	4.90		4.73	
Toluene	ND		5.00	5.00	5.12		5.31	
trans-1,2-Dichloroethene	ND		5.00	5.00	5.20		5.37	
Trichloroethene	ND		5.00	5.00	4.92		5.04	

Client: Waste Management

Job Number: 280-60137-1

Method Blank - Batch: 280-245779

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-245779/18	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C1514.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1730	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1730				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-60137-1

Method Blank - Batch: 280-245779

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-245779/18	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C1514.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1730	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1730				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	70 - 127
4-Bromofluorobenzene (Surr)	101	78 - 120
Dibromofluoromethane (Surr)	103	77 - 120
Toluene-d8 (Surr)	103	80 - 125

Lab Control Sample - Batch: 280-245779

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-245779/17	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C1513.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1710	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1710				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	4.82	96	70 - 135	
1,1-Dichloroethane	5.00	4.79	96	75 - 135	J
1,1-Dichloroethene	5.00	4.73	95	71 - 136	J
1,2-Dichloropropane	5.00	4.54	91	71 - 120	
1,3-Dichlorobenzene	5.00	4.50	90	74 - 135	
Benzene	5.00	4.71	94	74 - 135	
Bromodichloromethane	5.00	4.34	87	73 - 135	
Carbon tetrachloride	5.00	4.93	99	67 - 135	
Chlorobenzene	5.00	4.59	92	76 - 135	
Chloroform	5.00	4.71	94	76 - 120	J
Ethylbenzene	5.00	4.59	92	72 - 120	
Methylene Chloride	5.00	4.55	91	54 - 141	
Tetrachloroethene	5.00	4.55	91	70 - 135	
Toluene	5.00	4.67	93	73 - 120	
trans-1,2-Dichloroethene	5.00	4.89	98	75 - 135	J
Trichloroethene	5.00	4.75	95	73 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 127
4-Bromofluorobenzene (Surr)	99	78 - 120
Dibromofluoromethane (Surr)	103	77 - 120
Toluene-d8 (Surr)	103	80 - 125

Client: Waste Management

Job Number: 280-60137-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-245779

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-60137-1	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C1516.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1814			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1814				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-60137-1	Analysis Batch:	280-245779	Instrument ID:	VMS_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C1517.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 1835			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 1835				20 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	92	96	70 - 135	4	20		
1,1-Dichloroethane	91	98	75 - 135	7	21	J	J
1,1-Dichloroethene	87	87	71 - 136	0	20	J	J
1,2-Dichloropropane	86	90	71 - 120	5	20		
1,3-Dichlorobenzene	88	90	74 - 135	3	20		
Benzene	87	90	74 - 135	4	20		
Bromodichloromethane	80	89	73 - 135	10	20		
Carbon tetrachloride	93	94	67 - 135	1	21		
Chlorobenzene	88	90	76 - 135	2	20		
Chloroform	90	93	76 - 120	3	20	J	J
Ethylbenzene	86	85	72 - 120	0	26		
Methylene Chloride	77	85	54 - 141	10	20		
Tetrachloroethene	84	83	70 - 135	1	20		
Toluene	90	94	73 - 120	5	20		
trans-1,2-Dichloroethene	92	92	75 - 135	0	24	J	J
Trichloroethene	88	91	73 - 135	4	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	109	70 - 127
4-Bromofluorobenzene (Surr)	96	106	78 - 120
Dibromofluoromethane (Surr)	93	103	77 - 120
Toluene-d8 (Surr)	95	104	80 - 125

Client: Waste Management

Job Number: 280-60137-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-245779

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-60137-1	Units:	ug/L	MSD Lab Sample ID:	280-60137-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/01/2014 1814			Analysis Date:	10/01/2014 1835
Prep Date:	10/01/2014 1814			Prep Date:	10/01/2014 1835
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND	5.00	5.00	4.60		4.78	
1,1-Dichloroethane	ND	5.00	5.00	4.53	J	4.88	J
1,1-Dichloroethene	ND	5.00	5.00	4.37	J	4.36	J
1,2-Dichloropropane	ND	5.00	5.00	4.28		4.52	
1,3-Dichlorobenzene	ND	5.00	5.00	4.40		4.52	
Benzene	ND	5.00	5.00	4.34		4.52	
Bromodichloromethane	ND	5.00	5.00	4.01		4.45	
Carbon tetrachloride	ND	5.00	5.00	4.66		4.72	
Chlorobenzene	ND	5.00	5.00	4.40		4.50	
Chloroform	ND	5.00	5.00	4.51	J	4.63	J
Ethylbenzene	ND	5.00	5.00	4.29		4.27	
Methylene Chloride	ND	5.00	5.00	3.85		4.26	
Tetrachloroethene	ND	5.00	5.00	4.21		4.16	
Toluene	ND	5.00	5.00	4.50		4.71	
trans-1,2-Dichloroethene	ND	5.00	5.00	4.62	J	4.61	J
Trichloroethene	ND	5.00	5.00	4.38		4.57	

Client: Waste Management

Job Number: 280-60137-1

Method Blank - Batch: 280-244286

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-244286/1-A	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2210	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	0.930	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

Lab Control Sample - Batch: 280-244286

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-244286/2-A	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2213	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2140	107	90 - 112	
Beryllium	50.0	49.5	99	89 - 113	
Chromium	200	210	105	90 - 113	
Cobalt	500	516	103	89 - 111	
Lead	500	526	105	89 - 110	
Nickel	500	513	103	89 - 111	
Vanadium	500	525	105	90 - 111	
Silver	50.0	55.0	110	86 - 115	

Client: Waste Management

Job Number: 280-60137-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244286

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60137-1	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2223			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60137-1	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2226			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	106	108	85 - 120	1	20		
Beryllium	100	101	79 - 121	1	20		
Chromium	104	107	73 - 135	2	20		
Cobalt	102	104	82 - 119	2	20		
Lead	103	106	89 - 121	2	20		
Nickel	101	103	84 - 120	2	20		
Vanadium	105	107	85 - 120	2	20		
Silver	110	111	75 - 141	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244286

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60137-1	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/23/2014 2223		
Prep Date:	09/23/2014 1430		
Leach Date:	N/A		

MSD Lab Sample ID:	280-60137-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/23/2014 2226
Prep Date:	09/23/2014 1430
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Barium	37	J	2000	2000	2160	2190
Beryllium	ND		50.0	50.0	49.8	50.5
Chromium	ND		200	200	209	213
Cobalt	ND		500	500	510	519
Lead	ND		500	500	515	528
Nickel	ND		500	500	506	516
Vanadium	ND		500	500	524	535
Silver	ND		50.0	50.0	55.1	55.5

Client: Waste Management

Job Number: 280-60137-1

Method Blank - Batch: 280-244308

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-244308/1-A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244308	Lab File ID:	020_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1853	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Lab Control Sample - Batch: 280-244308

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-244308/2-A	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244308	Lab File ID:	021_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1856	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	40.0	100	85 - 115	
Arsenic	40.0	40.8	102	85 - 117	
Cadmium	40.0	41.0	102	85 - 115	
Copper	40.0	42.6	106	85 - 119	
Selenium	40.0	42.0	105	77 - 122	
Thallium	40.0	41.9	105	85 - 118	
Zinc	40.0	42.4	106	83 - 122	

Client: Waste Management

Job Number: 280-60137-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244308

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60137-1	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244308	Lab File ID:	025_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1908			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60137-1	Analysis Batch:	280-244760	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-244308	Lab File ID:	026_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1911			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 0900				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	104	103	85 - 115	1	20		
Arsenic	102	102	85 - 117	0	20		
Cadmium	105	103	85 - 115	2	20		
Copper	107	107	85 - 119	1	20		
Selenium	105	105	77 - 122	1	20		
Thallium	105	104	85 - 118	1	20		
Zinc	102	106	83 - 122	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244308

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60137-1	Units:	ug/L	MSD Lab Sample ID:	280-60137-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/23/2014 1908			Analysis Date:	09/23/2014 1911
Prep Date:	09/23/2014 0900			Prep Date:	09/23/2014 0900
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	ND		40.0	40.0	41.5	41.2
Arsenic	ND		40.0	40.0	41.0	40.8
Cadmium	ND		40.0	40.0	41.9	41.2
Copper	ND		40.0	40.0	43.0	42.6
Selenium	ND		40.0	40.0	42.1	41.9
Thallium	0.081	J	40.0	40.0	42.1	41.8
Zinc	2.7	J	40.0	40.0	43.6	45.0

Client: Waste Management

Job Number: 280-60137-1

Laboratory Chronicle

Lab ID: **280-60137-1** **Client ID:** **3406-S02**

Sample Date/Time: 09/17/2014 12:05 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60137-B-1		280-245779		10/01/2014 17:54	1	TAL DEN	EC
A:8260B	280-60137-B-1		280-245779		10/01/2014 17:54	1	TAL DEN	EC
P:3005A	280-60137-A-1-A		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60137-A-1-A		280-244680	280-244286	09/23/2014 22:18	1	TAL DEN	SJS
P:3005A	280-60137-A-1-D		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60137-A-1-D		280-244760	280-244308	09/23/2014 18:59	1	TAL DEN	LRD
A:Field Sampling	280-60137-A-1		280-244187		09/17/2014 10:05	1	TAL DEN	PS

Lab ID: **280-60137-1 MS** **Client ID:** **3406-S02**

Sample Date/Time: 09/17/2014 12:05 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60137-C-1 MS		280-245779		10/01/2014 18:14	1	TAL DEN	EC
A:8260B	280-60137-C-1 MS		280-245779		10/01/2014 18:14	1	TAL DEN	EC
P:3005A	280-60137-A-1-B MS		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60137-A-1-B MS		280-244680	280-244286	09/23/2014 22:23	1	TAL DEN	SJS
P:3005A	280-60137-A-1-E MS		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60137-A-1-E MS		280-244760	280-244308	09/23/2014 19:08	1	TAL DEN	LRD

Lab ID: **280-60137-1 MSD** **Client ID:** **3406-S02**

Sample Date/Time: 09/17/2014 12:05 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60137-C-1 MSD		280-245779		10/01/2014 18:35	1	TAL DEN	EC
A:8260B	280-60137-C-1 MSD		280-245779		10/01/2014 18:35	1	TAL DEN	EC
P:3005A	280-60137-A-1-C MSD		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60137-A-1-C MSD		280-244680	280-244286	09/23/2014 22:26	1	TAL DEN	SJS
P:3005A	280-60137-A-1-F MSD		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60137-A-1-F MSD		280-244760	280-244308	09/23/2014 19:11	1	TAL DEN	LRD

Client: Waste Management

Job Number: 280-60137-1

Laboratory Chronicle

Lab ID: 280-60137-2 **Client ID:** 3406-S03

Sample Date/Time: 09/17/2014 12:20 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60137-D-2		280-245779		10/01/2014 18:55	1	TAL DEN	EC
A:8260B	280-60137-D-2		280-245779		10/01/2014 18:55	1	TAL DEN	EC
P:3005A	280-60137-A-2-A		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60137-A-2-A		280-244680	280-244286	09/23/2014 22:41	1	TAL DEN	SJS
P:3005A	280-60137-A-2-B		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60137-A-2-B		280-244760	280-244308	09/23/2014 19:24	1	TAL DEN	LRD
A:Field Sampling	280-60137-A-2		280-244187		09/17/2014 10:20	1	TAL DEN	PS

Lab ID: 280-60137-3 **Client ID:** 3406-S04

Sample Date/Time: 09/17/2014 12:38 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60137-C-3		280-245779		10/01/2014 19:15	1	TAL DEN	EC
A:8260B	280-60137-C-3		280-245779		10/01/2014 19:15	1	TAL DEN	EC
P:3005A	280-60137-A-3-A		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60137-A-3-A		280-244680	280-244286	09/23/2014 22:44	1	TAL DEN	SJS
P:3005A	280-60137-A-3-B		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60137-A-3-B		280-244760	280-244308	09/23/2014 19:27	1	TAL DEN	LRD
A:Field Sampling	280-60137-A-3		280-244187		09/17/2014 10:38	1	TAL DEN	PS

Lab ID: 280-60137-4 **Client ID:** 3406-S05

Sample Date/Time: 09/17/2014 11:50 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60137-D-4		280-245779		10/01/2014 19:35	1	TAL DEN	EC
A:8260B	280-60137-D-4		280-245779		10/01/2014 19:35	1	TAL DEN	EC
P:3005A	280-60137-A-4-A		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60137-A-4-A		280-244680	280-244286	09/23/2014 22:46	1	TAL DEN	SJS
P:3005A	280-60137-A-4-B		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60137-A-4-B		280-244760	280-244308	09/23/2014 19:30	1	TAL DEN	LRD
A:Field Sampling	280-60137-A-4		280-244187		09/17/2014 09:50	1	TAL DEN	PS

Lab ID: 280-60137-5 **Client ID:** TRIP BLANK

Sample Date/Time: 09/17/2014 00:00 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60137-A-5		280-245649		09/30/2014 22:53	1	TAL DEN	EC
A:8260B	280-60137-A-5		280-245649		09/30/2014 22:53	1	TAL DEN	EC

Client: Waste Management

Job Number: 280-60137-1

Laboratory Chronicle

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-245649/5		280-245649		09/30/2014 22:27	1	TAL DEN	EC
A:8260B	MB 280-245649/5		280-245649		09/30/2014 22:27	1	TAL DEN	EC
P:5030B	MB 280-245779/18		280-245779		10/01/2014 17:30	1	TAL DEN	EC
A:8260B	MB 280-245779/18		280-245779		10/01/2014 17:30	1	TAL DEN	EC
P:3005A	MB 280-244286/1-A		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	MB 280-244286/1-A		280-244680	280-244286	09/23/2014 22:10	1	TAL DEN	SJS
P:3005A	MB 280-244308/1-A		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	MB 280-244308/1-A		280-244760	280-244308	09/23/2014 18:53	1	TAL DEN	LRD

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-245649/4		280-245649		09/30/2014 22:03	1	TAL DEN	EC
A:8260B	LCS 280-245649/4		280-245649		09/30/2014 22:03	1	TAL DEN	EC
P:5030B	LCS 280-245779/17		280-245779		10/01/2014 17:10	1	TAL DEN	EC
A:8260B	LCS 280-245779/17		280-245779		10/01/2014 17:10	1	TAL DEN	EC
P:3005A	LCS 280-244286/2-A		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	LCS 280-244286/2-A		280-244680	280-244286	09/23/2014 22:13	1	TAL DEN	SJS
P:3005A	LCS 280-244308/2-A		280-244760	280-244308	09/23/2014 09:00	1	TAL DEN	WDS
A:6020A	LCS 280-244308/2-A		280-244760	280-244308	09/23/2014 18:56	1	TAL DEN	LRD

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

Sample Date/Time: 09/17/2014 11:30 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-1 MS		280-245649		10/01/2014 00:50	1	TAL DEN	EC
A:8260B	280-60149-D-1 MS		280-245649		10/01/2014 00:50	1	TAL DEN	EC

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

Sample Date/Time: 09/17/2014 11:30 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-1 MSD		280-245649		10/01/2014 01:14	1	TAL DEN	EC
A:8260B	280-60149-D-1 MSD		280-245649		10/01/2014 01:14	1	TAL DEN	EC

Lab References:

TAL DEN = TestAmerica Denver

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody

280-60137 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Dan Armour	Lab PM: Sara, Betsy A	COC No: 280-15241-5755.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com	Page: Page 1 of 1
Company: Waste Management			Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:		
City: Atlanta	TAT Requested (days):		
State, Zip: GA, 30339			
Phone: 770-805-3366(Tel)	PO #: Purchase Order not requir		
Email: alacsama@wm.com	WO #:		
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA Surface Water Mar Sep		
Site: North Carolina	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Metals	8260B - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A		
SD2	9-17	1205	G	W	N		1	3		
SD3	9-17	1220	G	W	N		1	3		
SD4	9-17	1238	G	W	N		1	3		
SD5	9-17	1150	G	W	N		1	3		
TRIP	9-17	–	G	W	N			✓		

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by	Date/Time: 9-17-14 / 1800	Company: PRO-TECH	Received by:	Date/Time: 9/18/14 9:30	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.8 IR6 0.0 Transfed by MOT 9/18/14		

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: S02 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	1205				

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

PURGE/SAMPLE EQUIPMENT

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

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

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

Sampling Device: F

X-Other:

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

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

WELL DATA

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

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st					-471	
	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 ____
091714	7.22	1511	18.9	62	5.0	-471	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: W/0-5 Outlook: P. CLOUDY, 72°F Precipitation: Y or (N)

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

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
09/17/14	BEN RAMJEAWAN	Ben Ramjeawan	PRO-TECH

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

10/06/2014
TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: S03 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	1230	—	—	—	—

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

PURGE/SAMPLE EQUIPMENT

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

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

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

Sampling Device: F

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: ____

X-Other:

WELL DATA

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

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

STABILIZATION DATA (Optional)

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

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091714	7.45	107	20.3	113	5.2	-81	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P. CLOUDY, 72°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
09/17/14	BEN RAMGEAWAN	Ben Ramgeawan	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:

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
09/17/14	12:38	—	—	—	—

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: P

X-Other:

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

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

WELL DATA

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

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

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

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

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

STABILIZATION DATA (Optional)

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

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
09/17/14	7.00	116	21.2	123	2.8	439	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 72°F Precipitation: Y or (N)

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

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
09/17/14	BEN RAMSEAWAN	Ben Ramseawan	PRO-TECH

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

10/06/2014
TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: S05 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091714	1150	—	—	—	—

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

PURGE/SAMPLE EQUIPMENT

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

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

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

Sampling Device: F

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:

X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

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

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

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

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

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
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 ____
091714	7.48	145	19.1	3.1	5.7	-400	

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: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P. CLOUDY, 72°F Precipitation: Y or N

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

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
09/17/14	BEN RAMNEARAN	Ben Ramnearan	PRO-TECH

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

10/06/2014
TAL-8029WM (1013)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-60137-1

Login Number: 60137

List Source: TestAmerica Denver

List Number: 1

Creator: Dedio, Michael T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
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.	True	
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	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	NA: No analysis requiring residual chlorine check assigned

ANALYTICAL REPORT

Job Number: 280-60102-1

Job Description: 134|Piedmont Landfill

For:
Waste Management
1850 Parkway Place
Suite 600
Marietta, GA 30067

Attention: Mr. Al Lacsamana

Approved for release.
Julieann L Kramer
Project Management Assistant II
10/3/2014 11:00 AM

Designee for
Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
10/03/2014

cc: Mr. Van Burbach

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

The Lab Certification ID# is 4025.

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

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CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-60102-1

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

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

Sample Receiving

The samples were received on 09/18/2014; the samples arrived in good condition, properly preserved and on ice. The temperatures of the cooler at receipt was 0.3º C.

Holding Times

The holding times were within established control limits.

Method Blanks

Methylene Chloride Method 8260B was detected in the Method Blank below the project established reporting limit. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits.

Total Alkalinity and Bicarbonate Alkalinity Method 2320B, Total Phosphorus Method 365.1, and Total Suspended Solids Method 2540D were detected in the Method Blanks above the project established reporting limits, however, the requested reporting limits for Total Alkalinity and Bicarbonate Alkalinity are below TestAmerica Denver's standard reporting limits and, therefore, no corrective action has been taken for this anomaly. It must be noted that results reported below TestAmerica Denver's standard reporting limits may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations.

Total Phosphorus Method 365.1 and Total Suspended Solids Method 2540D were detected in the Method Blanks below the project established reporting limit. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits.

Total Barium and Total Sodium Method 6010C were detected in the Method Blanks below the project established reporting limit. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits.

All other Method Blanks were within established control limits.

Trip Blanks

Methylene Chloride and Toluene were detected in the trip blank sample at a level below the requested reporting limit, however, Methylene Chloride and Toluene were not detected in any other samples, and therefore, no corrective action was performed.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

Sample 3406-T01 was selected to fulfill the laboratory batch quality control requirements for Method 6020A. Analysis of the MS/MSD for this sample exhibited recoveries of Total Antimony and Total Arsenic below the lower control limit indicating the possible presence of matrix interference. It was noted that the analytes were present in the original sample at a concentration greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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

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

Organics

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60102-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-60102-1	**3406-T01**					
1,4-Dichlorobenzene		2.2	J	3.0	ug/L	8260B
2-Hexanone		18	J	50	ug/L	8260B
4-Methyl-2-pentanone (MIBK)		2.2	J	100	ug/L	8260B
Acetone		15	J	100	ug/L	8260B
Benzene		0.43	J	3.0	ug/L	8260B
Methylene Chloride		0.46	J B	5.5	ug/L	8260B
Toluene		0.29	J	5.0	ug/L	8260B
Xylenes, Total		3.9	J	4.0	ug/L	8260B
Mercury		0.25		0.20	ug/L	7470A
Field pH		7.23			SU	Field Sampling
Field Conductivity		9053			umhos/cm	Field Sampling
Field Temperature		2.10			Degrees C	Field Sampling
Field Turbidity		538			NTU	Field Sampling
Chloride		970		1.5	mg/L	300.0
Sulfate		13	J	25	mg/L	300.0
Ammonia		230		8.0	mg/L	350.1
Phosphorus, Total		1.3	B	0.10	mg/L	365.1
Chemical Oxygen Demand		410	J	500	mg/L	410.4
Total Alkalinity		900	B	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		900	B	5.0	mg/L	SM 2320B
Total Dissolved Solids		720		20	mg/L	SM 2540C
Total Suspended Solids		960	B	50	mg/L	SM 2540D
Total Organic Carbon - Average		47		1.0	mg/L	SM 5310B
Biochemical Oxygen Demand		70		50	mg/L	SM5210B
Total Recoverable						
Barium		1500	B	100	ug/L	6010C
Chromium		32		10	ug/L	6010C
Cobalt		39		10	ug/L	6010C
Calcium		73000		200	ug/L	6010C
Copper		500		15	ug/L	6010C
Lead		25		10	ug/L	6010C
Nickel		88		50	ug/L	6010C
Iron		270000		100	ug/L	6010C
Zinc		1200		20	ug/L	6010C
Vanadium		39		25	ug/L	6010C
Magnesium		18000		200	ug/L	6010C
Manganese		4900		10	ug/L	6010C
Potassium		65000		3000	ug/L	6010C
Sodium		260000	B	5000	ug/L	6010C
Antimony		180		2.0	ug/L	6020A
Arsenic		200		5.0	ug/L	6020A
Beryllium		0.43	J	1.0	ug/L	6020A
Cadmium		0.40	J	1.0	ug/L	6020A
Thallium		0.21	J	1.0	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-60102-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-60102-2TB	**TRIP BLANK**					
Methylene Chloride		0.35	J B	5.5	ug/L	8260B
Toluene		0.52	J	5.0	ug/L	8260B

METHOD SUMMARY

Client: Waste Management

Job Number: 280-60102-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Metals (ICP)	TAL DEN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Mercury (CVAA)	TAL DEN	SW846 7470A	
Preparation, Mercury	TAL DEN		SW846 7470A
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Phosphorus, Total	TAL DEN	EPA 365.1	
Phosphorus, Total	TAL DEN		MCAWW 365.2/365.3/365
COD	TAL DEN	MCAWW 410.4	
Nitrogen, Nitrate-Nitrite	TAL DEN	SM Nitrate by calc	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540D	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
BOD, 5 Day	TAL DEN	SM SM5210B	
Field Sampling	TAL DEN	EPA Field Sampling	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

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

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

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

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-60102-1

Method	Analyst	Analyst ID
SW846 8260B	Contreras, Evan	EC
SW846 6010C	Scott, Samantha J	SJS
SW846 6020A	Trudell, Lynn-Anne M	LMT
SW846 7470A	Grisdale, Christopher G	CGG
EPA Field Sampling	Saraubon, Phakchaya	PS
MCAWW 300.0	Birdsell, Matthew R	MRB
MCAWW 350.1	Lawrence, Caitlyn M	CML
EPA 365.1	Schwemin, Andrew J	AJS
MCAWW 410.4	Jewell, Connie C	CCJ
SM Nitrate by calc	Sullivan, Roxanne K	RKS
SM SM 2320B	Hoefler, Alexandra F	AFH
SM SM 2540C	Schultz, Cassandra M	CMS
SM SM 2540D	Lawrence, Caitlyn M	CML
SM SM 5310B	Jewell, Connie C	CCJ
SM SM5210B	Simons, Nicole A	NAS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-60102-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-60102-1	3406-T01	Water	09/17/2014 1300	09/18/2014 0930
280-60102-2TB	TRIP BLANK	Water	09/17/2014 0000	09/18/2014 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-60102-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-60102-1

Client Matrix: Water

Date Sampled: 09/17/2014 1300

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9911.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0003			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	5.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	8.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	3.0
1,2-Dichlorobenzene	ND		0.15	10
1,2-Dichloroethane	ND		0.13	3.0
1,2-Dichloropropane	ND		0.18	3.0
1,4-Dichlorobenzene	2.2	J	0.16	3.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	18	J	1.7	50
4-Methyl-2-pentanone (MIBK)	2.2	J	0.98	100
Acetone	15	J	1.9	100
Acrylonitrile	ND		1.4	200
Benzene	0.43	J	0.16	3.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	3.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	5.5
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	5.5
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	5.5
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	5.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.46	J B	0.32	5.5
Styrene	ND		0.17	10
Tetrachloroethene	ND		0.20	3.0
Toluene	0.29	J	0.17	5.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	5.5
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	3.0
Trichlorofluoromethane	ND		0.29	5.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	5.5

Client: Waste Management

Job Number: 280-60102-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-60102-1

Client Matrix: Water

Date Sampled: 09/17/2014 1300

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9911.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0003			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	3.9	J	0.19	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 127
4-Bromofluorobenzene (Surr)	109		78 - 120
Dibromofluoromethane (Surr)	112		77 - 120
Toluene-d8 (Surr)	115		80 - 125

Client: Waste Management

Job Number: 280-60102-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-60102-2TB

Client Matrix: Water

Date Sampled: 09/17/2014 0000

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9910.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2340			Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	5.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	8.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	3.0
1,2-Dichlorobenzene	ND		0.15	10
1,2-Dichloroethane	ND		0.13	3.0
1,2-Dichloropropane	ND		0.18	3.0
1,4-Dichlorobenzene	ND		0.16	3.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	3.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	3.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	5.5
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	5.5
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	5.5
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	5.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.35	J B	0.32	5.5
Styrene	ND		0.17	10
Tetrachloroethene	ND		0.20	3.0
Toluene	0.52	J	0.17	5.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	5.5
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	3.0
Trichlorofluoromethane	ND		0.29	5.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	5.5

Client: Waste Management

Job Number: 280-60102-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-60102-2TB

Client Matrix: Water

Date Sampled: 09/17/2014 0000

Date Received: 09/18/2014 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9910.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2340			Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120
Toluene-d8 (Surr)	106		80 - 125

Client: Waste Management

Job Number: 280-60102-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-60102-1

Client Matrix: Water

Date Sampled: 09/17/2014 1300

Date Received: 09/18/2014 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-244680	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2215			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	1500	B	0.58	100
Chromium	32		0.66	10
Cobalt	39		1.2	10
Calcium	73000		35	200
Copper	500		1.4	15
Lead	25		2.6	10
Nickel	88		1.3	50
Iron	270000		22	100
Zinc	1200		4.5	20
Vanadium	39		1.1	25
Magnesium	18000		11	200
Manganese	4900		0.25	10
Selenium	ND		4.9	15
Silver	ND		0.93	10
Potassium	65000		240	3000
Sodium	260000	B	92	5000

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-244448	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-244096	Lab File ID:	209SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 0136			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	180		0.40	2.0
Arsenic	200		0.33	5.0
Beryllium	0.43	J	0.080	1.0
Cadmium	0.40	J	0.10	1.0
Thallium	0.21	J	0.050	1.0

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	280-244486	Instrument ID:	MT_034
Prep Method:	7470A	Prep Batch:	280-243988	Lab File ID:	140922bb.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/23/2014 0019			Final Weight/Volume:	30 mL
Prep Date:	09/22/2014 1600				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.25		0.027	0.20

General Chemistry

Client Sample ID: **3406-T01**

Lab Sample ID: 280-60102-1 Date Sampled: 09/17/2014 1300
Client Matrix: Water Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	970		mg/L	1.3	1.5	5.0	300.0
Analysis Batch: 280-244374	Analysis Date: 09/22/2014 2327						
Sulfate	13	J	mg/L	1.2	25	5.0	300.0
Analysis Batch: 280-244374	Analysis Date: 09/22/2014 2327						
Ammonia	230		mg/L	4.4	8.0	200	350.1
Analysis Batch: 280-244418	Analysis Date: 09/22/2014 1910						
Phosphorus, Total	1.3	B	mg/L	0.010	0.10	2.0	365.1
Analysis Batch: 280-244172	Analysis Date: 09/20/2014 1048						
Prep Batch: 280-244136	Prep Date: 09/19/2014 1638						
Chemical Oxygen Demand	410	J	mg/L	41	500	10	410.4
Analysis Batch: 280-244081	Analysis Date: 09/19/2014 1105						
Nitrate as N	ND		mg/L	0.019	0.50	1.0	Nitrate by calc
Analysis Batch: 280-245335	Analysis Date: 09/18/2014 1702						
Total Alkalinity	900	B	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-244783	Analysis Date: 09/24/2014 1338						
Bicarbonate Alkalinity as CaCO3	900	B	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-244783	Analysis Date: 09/24/2014 1338						
Carbonate Alkalinity as CaCO3	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-244783	Analysis Date: 09/24/2014 1338						
Total Dissolved Solids	720		mg/L	9.4	20	1.0	SM 2540C
Analysis Batch: 280-244145	Analysis Date: 09/19/2014 1914						
Total Suspended Solids	960	B	mg/L	14	50	1.0	SM 2540D
Analysis Batch: 280-244449	Analysis Date: 09/23/2014 0802						
Total Organic Carbon - Average	47		mg/L	0.16	1.0	1.0	SM 5310B
Analysis Batch: 280-244766	Analysis Date: 09/23/2014 2115						
Biochemical Oxygen Demand	70		mg/L	5.9	50	5.0	SM5210B
Analysis Batch: 280-243905	Analysis Date: 09/18/2014 1457						

Field Service / Mobile Lab

Client Sample ID: **3406-T01**

Lab Sample ID: 280-60102-1 Date Sampled: 09/17/2014 1300

Client Matrix: Water Date Received: 09/18/2014 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.23		SU	1.0	Field Sampling	280-243974	09/17/2014 1100
Field Conductivity	9053		umhos/cm	1.0	Field Sampling	280-243974	09/17/2014 1100
Field Temperature	2.10		Degrees C	1.0	Field Sampling	280-243974	09/17/2014 1100
Field Turbidity	538		NTU	1.0	Field Sampling	280-243974	09/17/2014 1100

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-60102-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	F1	MS and/or MSD Recovery exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-60102-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-245649					
LCS 280-245649/4	Lab Control Sample	T	Water	8260B	
MB 280-245649/5	Method Blank	T	Water	8260B	
280-60102-1	3406-T01	T	Water	8260B	
280-60102-2TB	TRIP BLANK	T	Water	8260B	
280-60149-D-1 MS	Matrix Spike	T	Water	8260B	
280-60149-D-1 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis

T = Total

Metals					
Prep Batch: 280-243988					
LCS 280-243988/2-A	Lab Control Sample	T	Water	7470A	
MB 280-243988/1-A	Method Blank	T	Water	7470A	
280-60102-1	3406-T01	T	Water	7470A	
280-60102-1MS	Matrix Spike	T	Water	7470A	
280-60102-1MSD	Matrix Spike Duplicate	T	Water	7470A	
Prep Batch: 280-244096					
LCS 280-244096/2-A	Lab Control Sample	R	Water	3005A	
MB 280-244096/1-A	Method Blank	R	Water	3005A	
280-60102-1	3406-T01	R	Water	3005A	
280-60102-1MS	Matrix Spike	R	Water	3005A	
280-60102-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 280-244286					
LCS 280-244286/2-A	Lab Control Sample	R	Water	3005A	
MB 280-244286/1-A	Method Blank	R	Water	3005A	
280-60102-1	3406-T01	R	Water	3005A	
280-60137-A-1-B MS	Matrix Spike	R	Water	3005A	
280-60137-A-1-C MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-244448					
LCS 280-244096/2-A	Lab Control Sample	R	Water	6020A	280-244096
MB 280-244096/1-A	Method Blank	R	Water	6020A	280-244096
280-60102-1	3406-T01	R	Water	6020A	280-244096
280-60102-1MS	Matrix Spike	R	Water	6020A	280-244096
280-60102-1MSD	Matrix Spike Duplicate	R	Water	6020A	280-244096
Analysis Batch:280-244486					
LCS 280-243988/2-A	Lab Control Sample	T	Water	7470A	280-243988
MB 280-243988/1-A	Method Blank	T	Water	7470A	280-243988
280-60102-1	3406-T01	T	Water	7470A	280-243988
280-60102-1MS	Matrix Spike	T	Water	7470A	280-243988

Client: Waste Management

Job Number: 280-60102-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-244486					
280-60102-1MSD	Matrix Spike Duplicate	T	Water	7470A	280-243988
Analysis Batch:280-244680					
LCS 280-244286/2-A	Lab Control Sample	R	Water	6010C	280-244286
MB 280-244286/1-A	Method Blank	R	Water	6010C	280-244286
280-60102-1	3406-T01	R	Water	6010C	280-244286
280-60137-A-1-B MS	Matrix Spike	R	Water	6010C	280-244286
280-60137-A-1-C MSD	Matrix Spike Duplicate	R	Water	6010C	280-244286

Report Basis

R = Total Recoverable

T = Total

Field Service / Mobile Lab					
Analysis Batch:280-243974					
280-60102-1	3406-T01	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-60102-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-243905					
LCS 280-243905/4	Lab Control Sample	T	Water	SM5210B	
LCSD 280-243905/5	Lab Control Sample Duplicate	T	Water	SM5210B	
MB 280-243905/6	Method Blank	T	Water	SM5210B	
280-60102-1	3406-T01	T	Water	SM5210B	
280-60103-C-5 DU	Duplicate	T	Water	SM5210B	
Analysis Batch:280-244081					
LCS 280-244081/3	Lab Control Sample	T	Water	410.4	
LCSD 280-244081/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-244081/5	Method Blank	T	Water	410.4	
280-60102-1	3406-T01	T	Water	410.4	
280-60143-F-1 MS	Matrix Spike	T	Water	410.4	
280-60143-F-1 MSD	Matrix Spike Duplicate	T	Water	410.4	
Prep Batch: 280-244136					
LCS 280-244136/3-A	Lab Control Sample	T	Water	365.2/365.3/365	
LCSD 280-244136/4-A	Lab Control Sample Duplicate	T	Water	365.2/365.3/365	
MB 280-244136/5-A	Method Blank	T	Water	365.2/365.3/365	
280-60102-1	3406-T01	T	Water	365.2/365.3/365	
280-60143-G-1-B MS	Matrix Spike	T	Water	365.2/365.3/365	
280-60143-G-1-C MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
Analysis Batch:280-244145					
LCS 280-244145/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-244145/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-244145/1	Method Blank	T	Water	SM 2540C	
280-60102-1	3406-T01	T	Water	SM 2540C	
280-60143-C-1 DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-244172					
LCS 280-244136/3-A	Lab Control Sample	T	Water	365.1	280-244136
LCSD 280-244136/4-A	Lab Control Sample Duplicate	T	Water	365.1	280-244136
MB 280-244136/5-A	Method Blank	T	Water	365.1	280-244136
280-60102-1	3406-T01	T	Water	365.1	280-244136
280-60143-G-1-B MS	Matrix Spike	T	Water	365.1	280-244136
280-60143-G-1-C MSD	Matrix Spike Duplicate	T	Water	365.1	280-244136

Client: Waste Management

Job Number: 280-60102-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-244374					
LCS 280-244374/4	Lab Control Sample	T	Water	300.0	
LCSD 280-244374/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-244374/6	Method Blank	T	Water	300.0	
280-59923-E-7 DU	Duplicate	T	Water	300.0	
280-59923-E-7 MS	Matrix Spike	T	Water	300.0	
280-59923-E-7 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-60102-1	3406-T01	T	Water	300.0	
280-60143-C-1 MS	Matrix Spike	T	Water	300.0	
280-60143-C-1 MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-244418					
MB 280-244418/189	Method Blank	T	Water	350.1	
280-60102-1	3406-T01	T	Water	350.1	
Analysis Batch:280-244449					
LCS 280-244449/2	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-244449/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-244449/1	Method Blank	T	Water	SM 2540D	
280-60035-A-4 DU	Duplicate	T	Water	SM 2540D	
280-60102-1	3406-T01	T	Water	SM 2540D	
Analysis Batch:280-244766					
LCS 280-244766/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-244766/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-244766/5	Method Blank	T	Water	SM 5310B	
280-60102-1	3406-T01	T	Water	SM 5310B	
280-60214-B-2 MS	Matrix Spike	T	Water	SM 5310B	
280-60214-B-2 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-244767					
LCS 280-244767/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-244767/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-244767/5	Method Blank	T	Water	SM 5310B	
280-60102-1	3406-T01	T	Water	SM 5310B	
280-60214-B-2 MS	Matrix Spike	T	Water	SM 5310B	
280-60214-B-2 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-244783					
LCS 280-244783/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-244783/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-244783/6	Method Blank	T	Water	SM 2320B	
280-60014-A-6 DU	Duplicate	T	Water	SM 2320B	
280-60102-1	3406-T01	T	Water	SM 2320B	

Client: Waste Management

Job Number: 280-60102-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-244975					
LCS 280-244975/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-244975/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-244975/6	Method Blank	T	Water	SM 2320B	
280-60102-1	3406-T01	T	Water	SM 2320B	
280-60316-A-1 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-245335					
MB 280-245335/1	Method Blank	T	Water	Nitrate by calc	
280-60102-1	3406-T01	T	Water	Nitrate by calc	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-60102-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
280-60102-1	3406-T01	114	109	112	115
280-60102-2	TRIP BLANK	103	97	105	106
MB 280-245649/5		100	95	103	100
LCS 280-245649/4		95	94	96	91
280-60149-D-1 MS		104	99	102	99
280-60149-D-1 MSD		105	101	105	98

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
BFB = 4-Bromofluorobenzene (Surr)	78-120
DBFM = Dibromofluoromethane (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-125

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-245649/5	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9907.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2227	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2227				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	5.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	8.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	3.0
1,2-Dichlorobenzene	ND		0.15	10
1,2-Dichloroethane	ND		0.13	3.0
1,2-Dichloropropane	ND		0.18	3.0
1,4-Dichlorobenzene	ND		0.16	3.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	3.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	3.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	5.5
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	5.5
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	5.5
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	5.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.631	J	0.32	5.5
Styrene	ND		0.17	10
Tetrachloroethene	ND		0.20	3.0
Toluene	ND		0.17	5.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	5.5
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	3.0
Trichlorofluoromethane	ND		0.29	5.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-245649/5	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9907.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2227	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2227				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	5.5
Xylenes, Total	ND		0.19	4.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	70 - 127
4-Bromofluorobenzene (Surr)	95	78 - 120
Dibromofluoromethane (Surr)	103	77 - 120
Toluene-d8 (Surr)	100	80 - 125

Lab Control Sample - Batch: 280-245649

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-245649/4	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9906.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/30/2014 2203	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/30/2014 2203				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	4.99	100	70 - 135	J
1,1-Dichloroethane	5.00	5.28	106	75 - 135	
1,1-Dichloroethene	5.00	4.93	99	71 - 136	J
1,2-Dichloropropane	5.00	5.19	104	71 - 120	
1,3-Dichlorobenzene	5.00	4.95	99	74 - 135	
Benzene	5.00	5.26	105	74 - 135	
Bromodichloromethane	5.00	4.75	95	73 - 135	
Carbon tetrachloride	5.00	5.03	101	67 - 135	J
Chlorobenzene	5.00	4.79	96	76 - 135	
Chloroform	5.00	4.97	99	76 - 120	J
Ethylbenzene	5.00	4.72	94	72 - 120	J
Methylene Chloride	5.00	4.97	99	54 - 141	J
Tetrachloroethene	5.00	4.90	98	70 - 135	
Toluene	5.00	5.28	106	73 - 120	
trans-1,2-Dichloroethene	5.00	5.21	104	75 - 135	
Trichloroethene	5.00	5.03	101	73 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	70 - 127
4-Bromofluorobenzene (Surr)	94	78 - 120
Dibromofluoromethane (Surr)	96	77 - 120
Toluene-d8 (Surr)	91	80 - 125

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-245649

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-60149-D-1 MS	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9913.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0050			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0050				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-60149-D-1 MSD	Analysis Batch:	280-245649	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9914.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	10/01/2014 0114			Final Weight/Volume:	20 mL
Prep Date:	10/01/2014 0114				20 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	102	103	70 - 135	1	20		
1,1-Dichloroethane	110	110	75 - 135	0	21		
1,1-Dichloroethene	97	98	71 - 136	1	20	J	J
1,2-Dichloropropane	103	107	71 - 120	4	20		
1,3-Dichlorobenzene	99	99	74 - 135	0	20		
Benzene	106	107	74 - 135	1	20		
Bromodichloromethane	94	98	73 - 135	4	20		
Carbon tetrachloride	101	100	67 - 135	1	21	J	J
Chlorobenzene	98	99	76 - 135	1	20		
Chloroform	103	106	76 - 120	2	20		
Ethylbenzene	95	97	72 - 120	2	26	J	J
Methylene Chloride	90	98	54 - 141	7	20	J	J
Tetrachloroethene	98	95	70 - 135	3	20		
Toluene	102	106	73 - 120	4	20		
trans-1,2-Dichloroethene	104	107	75 - 135	3	24		
Trichloroethene	98	101	73 - 135	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	105	70 - 127
4-Bromofluorobenzene (Surr)	99	101	78 - 120
Dibromofluoromethane (Surr)	102	105	77 - 120
Toluene-d8 (Surr)	99	98	80 - 125

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-245649

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-60149-D-1 MS	Units:	ug/L	MSD Lab Sample ID:	280-60149-D-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/01/2014 0050			Analysis Date:	10/01/2014 0114
Prep Date:	10/01/2014 0050			Prep Date:	10/01/2014 0114
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND		5.00	5.00	5.10		5.14	
1,1-Dichloroethane	1.3	J	5.00	5.00	6.77		6.78	
1,1-Dichloroethene	ND		5.00	5.00	4.84	J	4.90	J
1,2-Dichloropropane	ND		5.00	5.00	5.16		5.35	
1,3-Dichlorobenzene	ND		5.00	5.00	4.96		4.95	
Benzene	ND		5.00	5.00	5.32		5.37	
Bromodichloromethane	ND		5.00	5.00	4.71		4.91	
Carbon tetrachloride	ND		5.00	5.00	5.07	J	5.02	J
Chlorobenzene	ND		5.00	5.00	4.88		4.94	
Chloroform	ND		5.00	5.00	5.17		5.28	
Ethylbenzene	ND		5.00	5.00	4.75	J	4.85	J
Methylene Chloride	0.42	J	5.00	5.00	4.93	J	5.30	J
Tetrachloroethene	ND		5.00	5.00	4.90		4.73	
Toluene	ND		5.00	5.00	5.12		5.31	
trans-1,2-Dichloroethene	ND		5.00	5.00	5.20		5.37	
Trichloroethene	ND		5.00	5.00	4.92		5.04	

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244286

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-244286/1-A	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2210	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	0.930	J	0.58	100
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Calcium	ND		35	200
Copper	ND		1.4	15
Lead	ND		2.6	10
Nickel	ND		1.3	50
Iron	ND		22	100
Zinc	ND		4.5	20
Vanadium	ND		1.1	25
Magnesium	ND		11	200
Manganese	ND		0.25	10
Selenium	ND		4.9	15
Silver	ND		0.93	10
Potassium	ND		240	3000
Sodium	98.3	J	92	5000

Client: Waste Management

Job Number: 280-60102-1

Lab Control Sample - Batch: 280-244286

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-244286/2-A	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2213	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2140	107	90 - 112	
Chromium	200	210	105	90 - 113	
Cobalt	500	516	103	89 - 111	
Calcium	50000	50400	101	90 - 111	
Copper	250	258	103	86 - 112	
Lead	500	526	105	89 - 110	
Nickel	500	513	103	89 - 111	
Iron	1000	999	100	89 - 115	
Zinc	500	529	106	85 - 111	
Vanadium	500	525	105	90 - 111	
Magnesium	50000	52500	105	90 - 113	
Manganese	500	521	104	90 - 110	
Selenium	2000	2040	102	85 - 112	
Silver	50.0	55.0	110	86 - 115	
Potassium	50000	53200	106	89 - 114	
Sodium	50000	56300	113	90 - 115	

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244286

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60137-A-1-B MS	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2223			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60137-A-1-C MSD	Analysis Batch:	280-244680	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-244286	Lab File ID:	26d092314.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 2226			Final Weight/Volume:	50 mL
Prep Date:	09/23/2014 1430				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	106	108	85 - 120	1	20		
Chromium	104	107	73 - 135	2	20		
Cobalt	102	104	82 - 119	2	20		
Calcium	101	103	48 - 153	2	20		
Copper	102	104	82 - 129	2	20		
Lead	103	106	89 - 121	2	20		
Nickel	101	103	84 - 120	2	20		
Iron	93	95	52 - 155	1	20		
Zinc	105	108	60 - 137	2	20		
Vanadium	105	107	85 - 120	2	20		
Magnesium	104	106	62 - 146	2	20		
Manganese	102	105	79 - 121	2	20		
Selenium	98	101	71 - 140	3	20		
Silver	110	111	75 - 141	1	20		
Potassium	106	108	76 - 132	2	20		
Sodium	112	115	70 - 203	2	20		

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244286

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60137-A-1-B MS	Units:	ug/L	MSD Lab Sample ID:	280-60137-A-1-C MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/23/2014 2223			Analysis Date:	09/23/2014 2226
Prep Date:	09/23/2014 1430			Prep Date:	09/23/2014 1430
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Barium	37	J	2000	2000	2160	2190
Chromium	ND		200	200	209	213
Cobalt	ND		500	500	510	519
Calcium	14000		50000	50000	64000	65200
Copper	1.8	J	250	250	258	262
Lead	ND		500	500	515	528
Nickel	ND		500	500	506	516
Iron	1100		1000	1000	2000	2030
Zinc	ND		500	500	526	539
Vanadium	ND		500	500	524	535
Magnesium	5300		50000	50000	57400	58500
Manganese	190		500	500	700	714
Selenium	ND		2000	2000	1960	2020
Silver	ND		50.0	50.0	55.1	55.5
Potassium	2900	J	50000	50000	55900	56900
Sodium	8400		50000	50000	64500	65700

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244096

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-244096/1-A	Analysis Batch:	280-244448	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-244096	Lab File ID:	207_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 0128	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	2.0
Arsenic	ND		0.33	5.0
Beryllium	ND		0.080	1.0
Cadmium	ND		0.10	1.0
Thallium	ND		0.050	1.0

Lab Control Sample - Batch: 280-244096

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-244096/2-A	Analysis Batch:	280-244448	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-244096	Lab File ID:	208_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 0132	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	38.0	95	85 - 115	
Arsenic	40.0	41.3	103	85 - 117	
Beryllium	40.0	40.1	100	80 - 125	
Cadmium	40.0	42.8	107	85 - 115	
Thallium	40.0	42.2	105	85 - 118	

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244096

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60102-1	Analysis Batch:	280-244448	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-244096	Lab File ID:	211SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 0143			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60102-1	Analysis Batch:	280-244448	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-244096	Lab File ID:	212SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 0147			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0900				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	67	57	85 - 115	2	20	4	4
Arsenic	63	59	85 - 117	1	20	4	4
Beryllium	98	103	80 - 125	5	20		
Cadmium	96	101	85 - 115	5	20		
Thallium	99	101	85 - 118	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244096

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-60102-1	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/23/2014 0143		
Prep Date:	09/22/2014 0900		
Leach Date:	N/A		

MSD Lab Sample ID:	280-60102-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/23/2014 0147
Prep Date:	09/22/2014 0900
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	180		40.0	40.0	210	4	205	4
Arsenic	200		40.0	40.0	229	4	228	4
Beryllium	0.43	J	40.0	40.0	39.6		41.7	
Cadmium	0.40	J	40.0	40.0	38.8		40.8	
Thallium	0.21	J	40.0	40.0	39.9		40.8	

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-243988

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 280-243988/1-A	Analysis Batch:	280-244486	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-243988	Lab File ID:	140922bb.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/23/2014 0014	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	09/22/2014 1600				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.027	0.20

Lab Control Sample - Batch: 280-243988

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 280-243988/2-A	Analysis Batch:	280-244486	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-243988	Lab File ID:	140922bb.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/23/2014 0017	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	09/22/2014 1600				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.91	98	84 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-243988

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	280-60102-1	Analysis Batch:	280-244486	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-243988	Lab File ID:	140922bb.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/23/2014 0021			Final Weight/Volume:	30 mL
Prep Date:	09/22/2014 1600				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60102-1	Analysis Batch:	280-244486	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-243988	Lab File ID:	140922bb.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	09/23/2014 0024			Final Weight/Volume:	30 mL
Prep Date:	09/22/2014 1600				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	74	71	75 - 125	4	20	F1	F1

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-243988

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	280-60102-1	Units:	ug/L	MSD Lab Sample ID:	280-60102-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/23/2014 0021			Analysis Date:	09/23/2014 0024
Prep Date:	09/22/2014 1600			Prep Date:	09/22/2014 1600
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury	0.25	5.00	5.00	3.94	F1	3.79	F1

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244374

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-244374/6	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	13.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/22/2014 1708	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride	ND		0.25	0.30
Sulfate	ND		0.23	5.0

Method Reporting Limit Check - Batch: 280-244374

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-244374/3	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	10.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/22/2014 1615	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	2.50	2.66	107	50 - 150	J
Sulfate	2.50	3.28	131	50 - 150	J

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-244374

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244374/4	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/22/2014 1633	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-244374/5	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	12.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/22/2014 1651	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	93	92	90 - 110	1	10		
Sulfate	98	100	90 - 110	2	10		

Client: Waste Management

Job Number: 280-60102-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-244374

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244374/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-244374/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/22/2014 1633			Analysis Date:	09/22/2014 1651
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	100	100	92.8	92.3
Sulfate	100	100	97.6	99.5

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244374

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-60143-C-1 MS	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	27.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/22/2014 2252			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-60143-C-1 MSD	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	28.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/22/2014 2310			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	103	103	80 - 120	0	20		
Sulfate	89	88	80 - 120	0	20	4	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244374

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-59923-E-7 MS	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	41.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 0300			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-59923-E-7 MSD	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	42.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 0318			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	97	102	80 - 120	3	20		
Sulfate	96	100	80 - 120	2	20		

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244374

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-60143-C-1 MS	Units: mg/L	MSD Lab Sample ID:	280-60143-C-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	09/22/2014 2252		Analysis Date:	09/22/2014 2310	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	1.6	25.0	25.0	27.3	27.4
Sulfate	120	25.0	25.0	143 4	143 4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244374

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-59923-E-7 MS	Units: mg/L	MSD Lab Sample ID:	280-59923-E-7 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	09/23/2014 0300		Analysis Date:	09/23/2014 0318	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	14	25.0	25.0	38.4	39.7
Sulfate	28	25.0	25.0	51.8	52.8

Duplicate - Batch: 280-244374

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-59923-E-7 DU	Analysis Batch:	280-244374	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	40.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 0242	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	14	14.1	0.03	15	
Sulfate	28	28.4	2	15	

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244418

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-244418/189	Analysis Batch:	280-244418	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\092214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	09/22/2014 2045	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia	ND		0.022	0.040

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244136

Method: 365.1
Preparation: 365.2/365.3/365

Lab Sample ID:	MB 280-244136/5-A	Analysis Batch:	280-244172	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-244136	Lab File ID:	092014TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2014 0924	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/19/2014 1638				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	0.00617	J	0.0050	0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-244136

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-244136/3-A	Analysis Batch:	280-244172	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-244136	Lab File ID:	092014TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2014 0924	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/19/2014 1638				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-244136/4-A	Analysis Batch:	280-244172	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-244136	Lab File ID:	092014TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2014 0924	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/19/2014 1638				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phosphorus, Total	97	102	90 - 110	4	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-244136

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-244136/3-A	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/20/2014 0924		
Prep Date:	09/19/2014 1638		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-244136/4-A
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/20/2014 0924
Prep Date:	09/19/2014 1638
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Phosphorus, Total	0.500	0.500	0.486	0.508

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244136

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-60143-G-1-B MS	Analysis Batch:	280-244172	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-244136	Lab File ID:	092014TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2014 0924			Final Weight/Volume:	50 mL
Prep Date:	09/19/2014 1638				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60143-G-1-C MSD	Analysis Batch:	280-244172	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-244136	Lab File ID:	092014TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/20/2014 0924			Final Weight/Volume:	50 mL
Prep Date:	09/19/2014 1638				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phosphorus, Total	97	97	90 - 110	0	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244136

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-60143-G-1-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/20/2014 0924		
Prep Date:	09/19/2014 1638		
Leach Date:	N/A		

MSD Lab Sample ID:	280-60143-G-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/20/2014 0924
Prep Date:	09/19/2014 1638
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Phosphorus, Total	0.035	J	0.500	0.500	0.521	0.520

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244081

Method: 410.4
Preparation: N/A

Lab Sample ID:	MB 280-244081/5	Analysis Batch:	280-244081	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	09/19/2014 1105	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	ND		4.1	50

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-244081

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244081/3	Analysis Batch:	280-244081	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/19/2014 1105	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-244081/4	Analysis Batch:	280-244081	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/19/2014 1105	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chemical Oxygen Demand	91	100	90 - 110	9	11		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-244081

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244081/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-244081/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/19/2014 1105			Analysis Date:	09/19/2014 1105
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chemical Oxygen Demand	100	100	91.3	99.7

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244081

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-60143-F-1 MS	Analysis Batch:	280-244081	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/19/2014 1105			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60143-F-1 MSD	Analysis Batch:	280-244081	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/19/2014 1105			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chemical Oxygen Demand	108	107	90 - 110	1	11		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244081

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-60143-F-1 MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/19/2014 1105		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-60143-F-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/19/2014 1105
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chemical Oxygen Demand	6.1	J	50.0	50.0	60.0	59.7

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-245335

Method: Nitrate by calc
Preparation: N/A

Lab Sample ID:	MB 280-245335/1	Analysis Batch:	280-245335	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/18/2014 1702	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate as N	ND		0.019	0.50

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244783

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-244783/6	Analysis Batch:	280-244783	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092414a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/24/2014 1159	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Alkalinity	1.56	J	1.1	5.0
Bicarbonate Alkalinity as CaCO3	1.56	J	1.1	5.0
Carbonate Alkalinity as CaCO3	ND		1.1	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-244783

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244783/4	Analysis Batch:	280-244783	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092414a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/24/2014 1150	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-244783/5	Analysis Batch:	280-244783	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092414a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/24/2014 1155	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Alkalinity	100	97	90 - 110	2	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-244783

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244783/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-244783/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/24/2014 1150			Analysis Date:	09/24/2014 1155
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Alkalinity	200	200	199	194

Client: Waste Management

Job Number: 280-60102-1

Duplicate - Batch: 280-244783

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-60014-A-6 DU	Analysis Batch:	280-244783	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092414a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/24/2014 1210	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	990	985	0.3	10	

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244975

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-244975/6	Analysis Batch:	280-244975	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092514.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/25/2014 1325	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Alkalinity	1.46	J	1.1	5.0
Bicarbonate Alkalinity as CaCO3	1.46	J	1.1	5.0
Carbonate Alkalinity as CaCO3	ND		1.1	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-244975

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244975/4	Analysis Batch:	280-244975	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092514.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/25/2014 1316	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-244975/5	Analysis Batch:	280-244975	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092514.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/25/2014 1321	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Alkalinity	98	97	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-244975

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244975/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-244975/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/25/2014 1316			Analysis Date:	09/25/2014 1321
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

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

Client: Waste Management

Job Number: 280-60102-1

Duplicate - Batch: 280-244975

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-60316-A-1 DU	Analysis Batch:	280-244975	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092514.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/25/2014 1412	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	5.1	4.37	16	10	J

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244145

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-244145/1	Analysis Batch:	280-244145	Instrument ID:	WC_Cond_Orion
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/19/2014 1914	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Dissolved Solids	ND		4.7	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-244145

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244145/2	Analysis Batch:	280-244145	Instrument ID:	WC_Cond_Orion
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/19/2014 1914	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-244145/3	Analysis Batch:	280-244145	Instrument ID:	WC_Cond_Orion		
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A		
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL		
Analysis Date:	09/19/2014 1914	Units:	mg/L	Final Weight/Volume:	100 mL		
Prep Date:	N/A						
Leach Date:	N/A						

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids	98	98	86 - 110	0	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-244145

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244145/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-244145/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/19/2014 1914			Analysis Date:	09/19/2014 1914
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	503	503	493	491

Client: Waste Management

Job Number: 280-60102-1

Duplicate - Batch: 280-244145

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-60143-C-1 DU	Analysis Batch:	280-244145	Instrument ID:	WC_Cond_Orion
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/19/2014 1914	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	530	537	1	10	

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244449

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 280-244449/1	Analysis Batch:	280-244449	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	09/23/2014 0802	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	1.20	J	1.1	4.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-244449

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244449/2	Analysis Batch:	280-244449	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/23/2014 0802	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-244449/3	Analysis Batch:	280-244449	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/23/2014 0802	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Suspended Solids	105	92	86 - 114	13	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-244449

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244449/2	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/23/2014 0802		
Prep Date:	N/A		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-244449/3
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/23/2014 0802
Prep Date:	N/A
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Suspended Solids	100	100	105	92.0

Client: Waste Management

Job Number: 280-60102-1

Duplicate - Batch: 280-244449

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-60035-A-4 DU	Analysis Batch:	280-244449	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	09/23/2014 0802	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Total Suspended Solids	2.0	J	2.00	0	10	J

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-244766

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-244766/5	Analysis Batch:	280-244766	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092314.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/23/2014 1456	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Organic Carbon - Average	ND		0.16	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-244766

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244766/3	Analysis Batch:	280-244766	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092314.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/23/2014 1427	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-244766/4	Analysis Batch:	280-244766	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092314.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/23/2014 1442	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	98	97	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-244766

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-244766/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-244766/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/23/2014 1427			Analysis Date:	09/23/2014 1442
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.4	24.4

Client: Waste Management

Job Number: 280-60102-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244766

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-60214-B-2 MS	Analysis Batch:	280-244766	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092314.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/23/2014 1946			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-60214-B-2 MSD	Analysis Batch:	280-244766	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092314.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/23/2014 2000			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	98	98	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-244766

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-60214-B-2 MS	Units:	mg/L	MSD Lab Sample ID:	280-60214-B-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/23/2014 1946			Analysis Date:	09/23/2014 2000
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	0.55	J	25.0	25.0	25.1	25.1

Client: Waste Management

Job Number: 280-60102-1

Method Blank - Batch: 280-243905

Method: SM5210B
Preparation: N/A

Lab Sample ID:	MB 280-243905/6	Analysis Batch:	280-243905	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/18/2014 1456	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	ND		0.24	2.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-243905

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-243905/4	Analysis Batch:	280-243905	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/18/2014 1456	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-243905/5	Analysis Batch:	280-243905	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/18/2014 1456	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Biochemical Oxygen Demand	103	108	85 - 115	5	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-243905

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-243905/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-243905/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/18/2014 1456			Analysis Date:	09/18/2014 1456
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Biochemical Oxygen Demand	198	198	203	214

Client: Waste Management

Job Number: 280-60102-1

Duplicate - Batch: 280-243905

Method: SM5210B
Preparation: N/A

Lab Sample ID:	280-60103-C-5 DU	Analysis Batch:	280-243905	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/18/2014 1457	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Biochemical Oxygen Demand	ND	ND	NC	20	

Client: Waste Management

Job Number: 280-60102-1

Laboratory Chronicle

Lab ID: **280-60102-1** **Client ID:** **3406-T01**

Sample Date/Time: 09/17/2014 13:00 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60102-I-1		280-245649		10/01/2014 00:03	1	TAL DEN	EC
A:8260B	280-60102-I-1		280-245649		10/01/2014 00:03	1	TAL DEN	EC
P:3005A	280-60102-F-1-G		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60102-F-1-G		280-244680	280-244286	09/23/2014 22:15	1	TAL DEN	SJS
P:3005A	280-60102-F-1-D		280-244448	280-244096	09/22/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60102-F-1-D		280-244448	280-244096	09/23/2014 01:36	1	TAL DEN	LMT
P:7470A	280-60102-F-1-A		280-244486	280-243988	09/22/2014 16:00	1	TAL DEN	CGG
A:7470A	280-60102-F-1-A		280-244486	280-243988	09/23/2014 00:19	1	TAL DEN	CGG
A:300.0	280-60102-C-1		280-244374		09/22/2014 23:27	5	TAL DEN	MRB
A:350.1	280-60102-E-1		280-244418		09/22/2014 19:10	200	TAL DEN	CML
P:365.2/365.3/365	280-60102-H-1-A		280-244172	280-244136	09/19/2014 16:38	2	TAL DEN	AJS
A:365.1	280-60102-H-1-A		280-244172	280-244136	09/20/2014 10:48	2	TAL DEN	AJS
A:410.4	280-60102-E-1		280-244081		09/19/2014 11:05	10	TAL DEN	CCJ
A:Nitrate by calc	280-60102-A-1		280-245335		09/18/2014 17:02	1	TAL DEN	RKS
A:SM 2320B	280-60102-B-1		280-244783		09/24/2014 13:38	1	TAL DEN	AFH
A:SM 2540C	280-60102-B-1		280-244145		09/19/2014 19:14	1	TAL DEN	CMS
A:SM 2540D	280-60102-B-1		280-244449		09/23/2014 08:02	1	TAL DEN	CML
A:SM 5310B	280-60102-G-1		280-244766		09/23/2014 21:15	1	TAL DEN	CCJ
A:SM5210B	280-60102-A-1		280-243905		09/18/2014 14:57	5	TAL DEN	NAS
A:Field Sampling	280-60102-A-1		280-243974		09/17/2014 11:00	1	TAL DEN	PS

Lab ID: **280-60102-1 MS** **Client ID:** **3406-T01**

Sample Date/Time: 09/17/2014 13:00 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-60102-F-1-E MS		280-244448	280-244096	09/22/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60102-F-1-E MS		280-244448	280-244096	09/23/2014 01:43	1	TAL DEN	LMT
P:7470A	280-60102-F-1-B MS		280-244486	280-243988	09/22/2014 16:00	1	TAL DEN	CGG
A:7470A	280-60102-F-1-B MS		280-244486	280-243988	09/23/2014 00:21	1	TAL DEN	CGG

Lab ID: **280-60102-1 MSD** **Client ID:** **3406-T01**

Sample Date/Time: 09/17/2014 13:00 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-60102-F-1-F MSD		280-244448	280-244096	09/22/2014 09:00	1	TAL DEN	WDS
A:6020A	280-60102-F-1-F MSD		280-244448	280-244096	09/23/2014 01:47	1	TAL DEN	LMT
P:7470A	280-60102-F-1-C MSD		280-244486	280-243988	09/22/2014 16:00	1	TAL DEN	CGG
A:7470A	280-60102-F-1-C MSD		280-244486	280-243988	09/23/2014 00:24	1	TAL DEN	CGG

Client: Waste Management

Job Number: 280-60102-1

Laboratory Chronicle

Lab ID: **280-60102-2** **Client ID:** **TRIP BLANK**

Sample Date/Time: 09/17/2014 00:00 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60102-A-2		280-245649		09/30/2014 23:40	1	TAL DEN	EC
A:8260B	280-60102-A-2		280-245649		09/30/2014 23:40	1	TAL DEN	EC

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-245649/5		280-245649		09/30/2014 22:27	1	TAL DEN	EC
A:8260B	MB 280-245649/5		280-245649		09/30/2014 22:27	1	TAL DEN	EC
P:3005A	MB 280-244286/1-A		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	MB 280-244286/1-A		280-244680	280-244286	09/23/2014 22:10	1	TAL DEN	SJS
P:3005A	MB 280-244096/1-A		280-244448	280-244096	09/22/2014 09:00	1	TAL DEN	WDS
A:6020A	MB 280-244096/1-A		280-244448	280-244096	09/23/2014 01:28	1	TAL DEN	LMT
P:7470A	MB 280-243988/1-A		280-244486	280-243988	09/22/2014 16:00	1	TAL DEN	CGG
A:7470A	MB 280-243988/1-A		280-244486	280-243988	09/23/2014 00:14	1	TAL DEN	CGG
A:300.0	MB 280-244374/6		280-244374		09/22/2014 17:08	1	TAL DEN	MRB
A:350.1	MB 280-244418/189		280-244418		09/22/2014 20:45	1	TAL DEN	CML
P:365.2/365.3/365	MB 280-244136/5-A		280-244172	280-244136	09/19/2014 16:38	1	TAL DEN	AJS
A:365.1	MB 280-244136/5-A		280-244172	280-244136	09/20/2014 09:24	1	TAL DEN	AJS
A:410.4	MB 280-244081/5		280-244081		09/19/2014 11:05	1	TAL DEN	CCJ
A:Nitrate by calc	MB 280-245335/1		280-245335		09/18/2014 17:02	1	TAL DEN	RKS
A:SM 2320B	MB 280-244783/6		280-244783		09/24/2014 11:59	1	TAL DEN	AFH
A:SM 2320B	MB 280-244975/6		280-244975		09/25/2014 13:25	1	TAL DEN	AFH
A:SM 2540C	MB 280-244145/1		280-244145		09/19/2014 19:14	1	TAL DEN	CMS
A:SM 2540D	MB 280-244449/1		280-244449		09/23/2014 08:02	1	TAL DEN	CML
A:SM 5310B	MB 280-244766/5		280-244766		09/23/2014 14:56	1	TAL DEN	CCJ
A:SM5210B	MB 280-243905/6		280-243905		09/18/2014 14:56	1	TAL DEN	NAS

Client: Waste Management

Job Number: 280-60102-1

Laboratory Chronicle

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-245649/4		280-245649		09/30/2014 22:03	1	TAL DEN	EC
A:8260B	LCS 280-245649/4		280-245649		09/30/2014 22:03	1	TAL DEN	EC
P:3005A	LCS 280-244286/2-A		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	LCS 280-244286/2-A		280-244680	280-244286	09/23/2014 22:13	1	TAL DEN	SJS
P:3005A	LCS 280-244096/2-A		280-244448	280-244096	09/22/2014 09:00	1	TAL DEN	WDS
A:6020A	LCS 280-244096/2-A		280-244448	280-244096	09/23/2014 01:32	1	TAL DEN	LMT
P:7470A	LCS 280-243988/2-A		280-244486	280-243988	09/22/2014 16:00	1	TAL DEN	CGG
A:7470A	LCS 280-243988/2-A		280-244486	280-243988	09/23/2014 00:17	1	TAL DEN	CGG
A:300.0	LCS 280-244374/4		280-244374		09/22/2014 16:33	1	TAL DEN	MRB
P:365.2/365.3/365	LCS 280-244136/3-A		280-244172	280-244136	09/19/2014 16:38	1	TAL DEN	AJS
A:365.1	LCS 280-244136/3-A		280-244172	280-244136	09/20/2014 09:24	1	TAL DEN	AJS
A:410.4	LCS 280-244081/3		280-244081		09/19/2014 11:05	1	TAL DEN	CCJ
A:SM 2320B	LCS 280-244783/4		280-244783		09/24/2014 11:50	1	TAL DEN	AFH
A:SM 2320B	LCS 280-244975/4		280-244975		09/25/2014 13:16	1	TAL DEN	AFH
A:SM 2540C	LCS 280-244145/2		280-244145		09/19/2014 19:14	1	TAL DEN	CMS
A:SM 2540D	LCS 280-244449/2		280-244449		09/23/2014 08:02	1	TAL DEN	CML
A:SM 5310B	LCS 280-244766/3		280-244766		09/23/2014 14:27	1	TAL DEN	CCJ
A:SM5210B	LCS 280-243905/4		280-243905		09/18/2014 14:56	1	TAL DEN	NAS

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCSD 280-244374/5		280-244374		09/22/2014 16:51	1	TAL DEN	MRB
P:365.2/365.3/365	LCSD 280-244136/4-A		280-244172	280-244136	09/19/2014 16:38	1	TAL DEN	AJS
A:365.1	LCSD 280-244136/4-A		280-244172	280-244136	09/20/2014 09:24	1	TAL DEN	AJS
A:410.4	LCSD 280-244081/4		280-244081		09/19/2014 11:05	1	TAL DEN	CCJ
A:SM 2320B	LCSD 280-244783/5		280-244783		09/24/2014 11:55	1	TAL DEN	AFH
A:SM 2320B	LCSD 280-244975/5		280-244975		09/25/2014 13:21	1	TAL DEN	AFH
A:SM 2540C	LCSD 280-244145/3		280-244145		09/19/2014 19:14	1	TAL DEN	CMS
A:SM 2540D	LCSD 280-244449/3		280-244449		09/23/2014 08:02	1	TAL DEN	CML
A:SM 5310B	LCSD 280-244766/4		280-244766		09/23/2014 14:42	1	TAL DEN	CCJ
A:SM5210B	LCSD 280-243905/5		280-243905		09/18/2014 14:56	1	TAL DEN	NAS

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-244374/3		280-244374		09/22/2014 16:15	1	TAL DEN	MRB

Client: Waste Management

Job Number: 280-60102-1

Laboratory Chronicle

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

Sample Date/Time: 09/17/2014 11:30 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-1 MS		280-245649		10/01/2014 00:50	1	TAL DEN	EC
A:8260B	280-60149-D-1 MS		280-245649		10/01/2014 00:50	1	TAL DEN	EC
P:3005A	280-60137-A-1-B MS		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60137-A-1-B MS		280-244680	280-244286	09/23/2014 22:23	1	TAL DEN	SJS
A:300.0	280-60143-C-1 MS		280-244374		09/22/2014 22:52	1	TAL DEN	MRB
A:300.0	280-59923-E-7 MS		280-244374		09/23/2014 03:00	1	TAL DEN	MRB
P:365.2/365.3/365	280-60143-G-1-B MS		280-244172	280-244136	09/19/2014 16:38	1	TAL DEN	AJS
A:365.1	280-60143-G-1-B MS		280-244172	280-244136	09/20/2014 09:24	1	TAL DEN	AJS
A:410.4	280-60143-F-1 MS		280-244081		09/19/2014 11:05	1	TAL DEN	CCJ
A:SM 5310B	280-60214-B-2 MS		280-244766		09/23/2014 19:46	1	TAL DEN	CCJ

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

Sample Date/Time: 09/17/2014 11:30 Received Date/Time: 09/18/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-60149-D-1 MSD		280-245649		10/01/2014 01:14	1	TAL DEN	EC
A:8260B	280-60149-D-1 MSD		280-245649		10/01/2014 01:14	1	TAL DEN	EC
P:3005A	280-60137-A-1-C MSD		280-244680	280-244286	09/23/2014 14:30	1	TAL DEN	WDS
A:6010C	280-60137-A-1-C MSD		280-244680	280-244286	09/23/2014 22:26	1	TAL DEN	SJS
A:300.0	280-60143-C-1 MSD		280-244374		09/22/2014 23:10	1	TAL DEN	MRB
A:300.0	280-59923-E-7 MSD		280-244374		09/23/2014 03:18	1	TAL DEN	MRB
P:365.2/365.3/365	280-60143-G-1-C MSD		280-244172	280-244136	09/19/2014 16:38	1	TAL DEN	AJS
A:365.1	280-60143-G-1-C MSD		280-244172	280-244136	09/20/2014 09:24	1	TAL DEN	AJS
A:410.4	280-60143-F-1 MSD		280-244081		09/19/2014 11:05	1	TAL DEN	CCJ
A:SM 5310B	280-60214-B-2 MSD		280-244766		09/23/2014 20:00	1	TAL DEN	CCJ

Client: Waste Management

Job Number: 280-60102-1

Laboratory Chronicle

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

Sample Date/Time: 09/11/2014 12:15 Received Date/Time: 09/12/2014 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-59923-E-7 DU		280-244374		09/23/2014 02:42	1	TAL DEN	MRB
A:SM 2320B	280-60014-A-6 DU		280-244783		09/24/2014 12:10	1	TAL DEN	AFH
A:SM 2320B	280-60316-A-1 DU		280-244975		09/25/2014 14:12	1	TAL DEN	AFH
A:SM 2540C	280-60143-C-1 DU		280-244145		09/19/2014 19:14	1	TAL DEN	CMS
A:SM 2540D	280-60035-A-4 DU		280-244449		09/23/2014 08:02	1	TAL DEN	CML
A:SM5210B	280-60103-C-5 DU		280-243905		09/18/2014 14:57	1	TAL DEN	NAS

Lab References:

TAL DEN = TestAmerica Denver

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Cust

280-60102 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	COC No: 280-15243-2289.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4062	E-Mail: betsy.sara@testamericainc.com	Page: Page 1 of 1
Company: Waste Management			Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:		
City: Atlanta	TAT Requested (days):		
State, Zip: GA, 30339			
Phone: 770-805-3366(Tel)	PO #: Purchase Order not requir		
Email: alacsama@wm.com	WO #:		
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA Leachate Mon Mar Sep		
Site: North Carolina	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Chloride/Sulfate/NO3(353.2)/Alks/TDS	Total Metals	Ammonia/COD	Total Phos/TOC	8260B-VOA	TSS	BOD						Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	S	A	N	N							
TOI	9-17	1300	G	W	N		1	1	2	2	3	1	1							Short Holds: NO3(calc), BOD
TRIP	9-17	-	G	W	N						✓									

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	9-17-14 1800	PRO-TECH	Maria Soto	9/18/14 930	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: Transfer by MS. 0.3 · IR6 +.0 9/18/14

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:

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
091714	1300	—	—	—	—

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

PURGE/SAMPLE EQUIPMENT

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

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

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

Sampling Device: F

X-Other:

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

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

WELL DATA

Well Elevation (at TOC) (ft/msl)

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

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

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

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

STABILIZATION DATA (Optional)

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

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091714	7.23	9053	21.0	53.8			

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: CLOUDY Odor: ____ Color: BROWN Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 72°F Precipitation: Y or (N)

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

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
09/17/14	BEN RAMSEAWAN	Ben Ramseawan	PRO-TECH
__/__/__			

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

10/03/2014

TAL-8029WM (1013)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-60102-1

Login Number: 60102

List Source: TestAmerica Denver

List Number: 1

Creator: Soto, Mayra A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
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	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

APPENDIX B

GROUNDWATER FLOW REGIME REPORT

Piedmont Landfill & Recycling Center
Permit 34-06

APPENDIX B:
Groundwater Flow Regime Report – September 2014 Event

On behalf of Waste Management, Joyce Engineering has reviewed groundwater flow rates and flow directions at the Piedmont Landfill and Recycling Center for the second semiannual groundwater sampling event of 2014. The groundwater flow and direction calculations presented in this report are based on groundwater elevation data obtained by ProTech on September 17, 2014. 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 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 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 0.011 ft/ft to 0.028 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 flow rate calculations are presented in *Table 4*.

As shown on *Drawing 1*, groundwater flow at the site is generally west to northwest. Segment i_1 was 20.8 feet/year to the north-northwest; Segment i_2 was 4.8 feet/year to the northwest; Segment i_3 was 10.8 feet/year to the west. The average groundwater flow rate for September 2014 was approximately 12.1 feet/year. These groundwater flow directions and velocities are consistent with those calculated during other recent events.

The groundwater measurements obtained during the September 2014 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.

Piedmont Landfill & Recycling Center – Permit No. 34-06
Groundwater Flow Regime Report – September 2014 Event

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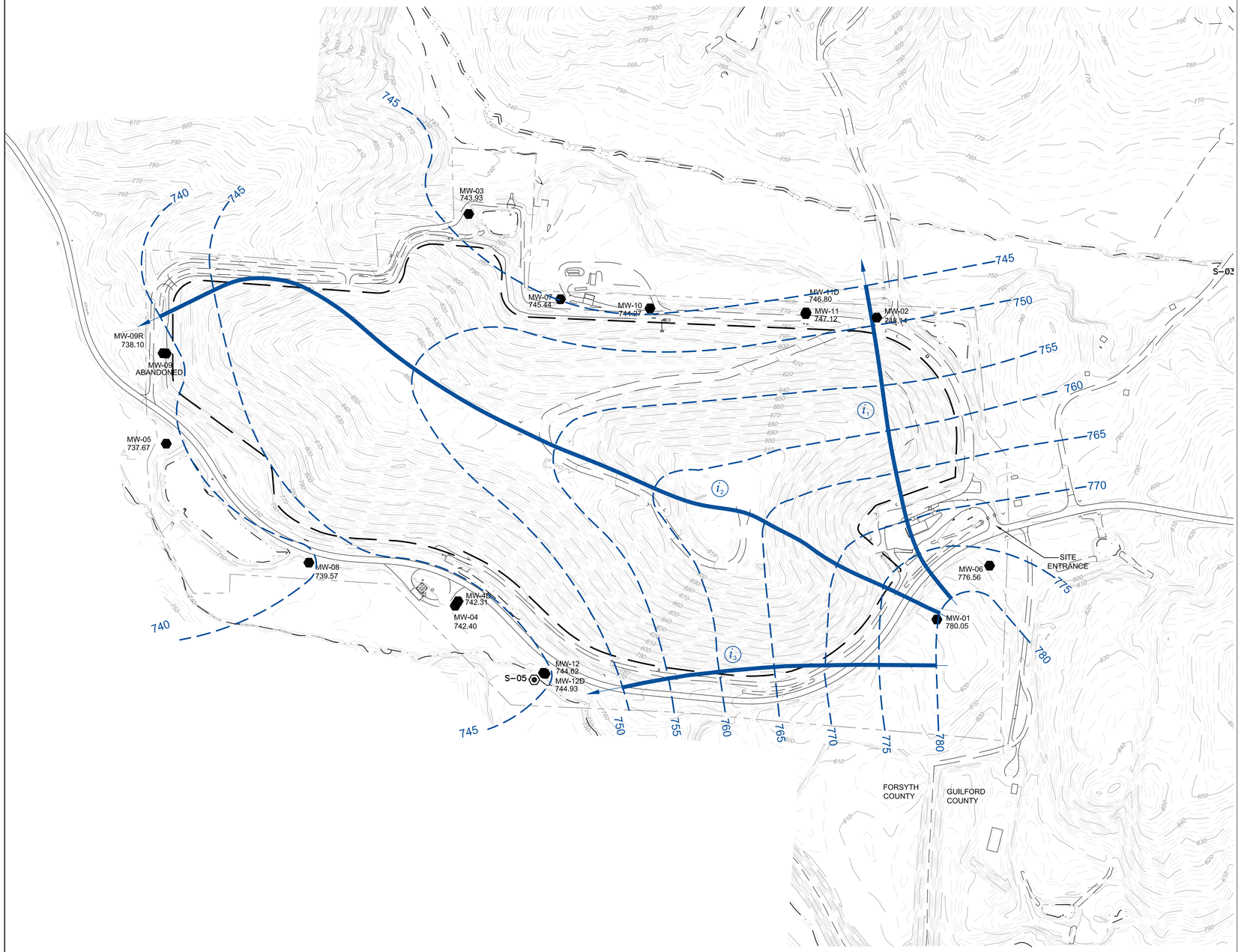
Attachments: Drawing 1 – Groundwater Surface Map
Table 2 – Historical Groundwater Elevations
Table 3 – Groundwater Flow Rate Calculations



LEGEND

- EXISTING 10' TOPOGRAPHIC CONTOUR — 850
- EXISTING 2' TOPOGRAPHIC CONTOUR
- APPROXIMATE LIMITS OF WASTE
- GROUNDWATER SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)] — 740
- GROUNDWATER FLOW DIRECTION
- EXISTING ROAD
- CENTERLINE OF STREAM
- PROPERTY LINE
- GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL) — MW-9R 738.10
- SURFACE WATER MONITORING POINTS — S-03
- SEGMENT USED FOR GRADIENT CALCULATIONS — i_4

FLOW PATH LENGTH

i_1 = 1,233 LF

i_2 = 3,259 LF

i_3 = 1,180 LF

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET.
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 5 FEET.
3. STATIC WATER LEVELS MEASURED ON 09/17/14.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
5. TOPOGRAPHIC MAP AND SURVEYED WELL LOCATIONS PROVIDED TO JOYCE ENGINEERING, INC. BY PIEDMONT LANDFILL.
6. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.
7. THE LOCATIONS OF SURFACE WATER MONITORING POINTS ARE APPROXIMATE AS SHOWN.

GRAPHIC SCALE

0 100 200 400

(FEET)

Well ID	Installation Date	Location Relative to Waste	Screened Interval (feet BGS)	Lithology of Screened Interval	Monitoring Program *
MW-01	07/13/89	Upgradient	44.0 - 49.0	WEATHERED GNEISS BEDROCK	Detection
MW-02	08/05/89	Downgradient	20.2 - 35.5	SILTY SAND	Detection
MW-03	08/06/89	Downgradient	32.5 - 37.5	SILTY SAND	Detection
MW-04	07/14/89	Downgradient	20.0 - 25.0	SILTY SAND	Detection
MW-04D	02/18/94	Downgradient	53.25-58.25	SAPROLITE/BEDROCK	Detection
MW-05	08/02/89	Downgradient	14.45 - 19.45	SILTY SAND	Detection
MW-06	08/09/93	Upgradient	20.9 - 25.9	SILTY SAND	Detection
MW-07	08/25/94	Downgradient	17.0 - 32.4	SILTY SAND	Detection
MW-08	08/31/94	Downgradient	5.0 - 20.0	SILTY SAND	Detection
MW-09	08/30/94	Downgradient	19.81 - 34.22	SAND/SAPROLITE BEDROCK	Abandoned
MW-09R	11/09/99	Downgradient	32.0 - 42.5	BEDROCK	Detection
MW-10	10/24/94	Downgradient	20.0 - 36.99	CLAYEY SILT/SILT	Detection
MW-11	11/17/94	Downgradient	19.01 - 34.22	SILT/SANDY SILT	Detection
MW-11D	11/15/94	Downgradient	81.82 - 91.79	SANDY SILT/GRAVELY SILT	Detection
MW-12	10/21/94	Downgradient	3.33 - 17.22	SILTY CLAY/SILTY SAND/SANDY SILT	Detection
MW-12D	10/27/94	Downgradient	31.98 - 42.2	SILTY GRAVEL	Detection

BGS = below ground surface.

* Monitoring Program = status as of April 2012

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED ACE
DRAWN RWH
CHECKED ACE
APPROVED GVB
DATE 10/24/14

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PIEDMONT LANDFILL AND RECYCLING CENTER
KERNERSVILLE, NORTH CAROLINA

GROUNDWATER SURFACE MAP
SEPTEMBER 17, 2014
PERMIT NO. 34-06

PROJECT NO.
392

SCALE
AS NOTED

DRAWING NO.
1

N:\Dwgs\Drawings-Current\WM\Piedmont\GW EVENT MAPS\GW EVENT 09-14.dwg Layout=Layout1

TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS

DATA	MONITORING WELL WATER LEVEL ELEVATIONS															
Well ID:	**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**
TOC Elevation:	823.93	778.04	770.08	756.92	757.33	743.17	800.82	771.57	748.95	770.62	764.95	777.20	776.80	776.36	751.48	751.53
Well Depth:	49.0	35.5	38.0	27.0	62.0	20.5	29.6	31.3	18.8	35.0	43.0	38.0	35.0	93.5	18.0	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	736.92	775.93	743.93	739.86	NA	736.89	743.55	746.55	746.14	744.54	744.65
11-Mar-2009	779.55	749.34	744.67	743.91	744.14	737.96	777.02	745.84	743.52	NA	738.35	747.67	748.13	747.76	745.37	746.01
16-Sep-2009	780.08	747.87	743.28	741.69	741.56	736.64	775.82	744.64	738.49	NA	737.13	743.37	746.84	746.36	744.41	744.38
10-Mar-2010	781.45	750.17	745.87	744.22	744.21	738.17	779.04	748.14	743.24	NA	741.16	748.24	749.06	748.61	745.33	746.23
16-Sep-2010	781.85	748.47	744.64	742.51	742.53	737.22	777.86	745.57	740.03	NA	737.90	744.90	747.42	747.07	744.86	745.08
15-Mar-2011	780.68	749.36	745.05	743.89	744.35	738.29	778.17	746.17	743.74	NA	738.35	745.14	748.42	747.47	744.91	745.63
14-Sep-2011	779.51	747.58	742.58	742.01	741.95	736.34	775.42	744.48	739.28	NA	736.20	742.70	746.64	746.26	744.35	744.66
14-Mar-2012	779.74	748.97	744.85	743.92	743.91	738.05	777.61	746.82	742.95	NA	738.28	746.07	748.02	747.48	745.37	745.72
12-Sep-2012	779.25	748.01	743.26	742.42	742.35	737.39	775.87	744.70	740.40	NA	737.13	744.40	746.82	746.53	744.57	744.91
20-Mar-2013	778.80	749.52	744.09	744.22	744.15	738.26	777.37	746.86	743.31	NA	738.28	747.16	748.46	748.05	745.25	746.10
18-Sep-2013	780.36	748.53	744.23	742.68	742.60	737.61	777.12	745.97	740.20	NA	737.95	744.95	747.49	747.11	744.72	745.23
19-Mar-2014	779.73	749.82	744.80	744.73	744.65	738.97	777.92	748.47	744.45	NA	738.93	747.67	748.84	748.42	745.61	746.40
17-Sep-2014	780.05	748.14	743.93	742.40	742.31	737.67	776.56	745.44	739.57	NA	738.10	744.27	747.12	746.80	744.62	744.93

Notes:
TOC = Top of PVC casing.
All depths in feet measured from TOC.
TOC elevation for MW-02 is revised reflecting improvements were made to the well in July 2001 prior to sampling.
All water level elevations are reported in feet above mean sea level.
NA = data 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 17, 2014		
						Elevation (ft AMSL)	**Gradient** (**i**, ft/ft)	**Velocity** (**V**, ft/yr)
i_1	2.90E-04	9.51E-06	0.41	1233	NNW	780 745	0.028	20.8
i_2	1.70E-04	5.58E-06	0.41	3560	NW	780 740	0.011	4.8
i_3	1.70E-04	5.58E-06	0.41	1194	W	780 750	0.025	10.8
						AVERAGE:	0.022	12.1

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