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	March 18-19, 2015

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

Alexander Lacsamana — 5/1/2015

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. 770-590-2936

May 1, 2015

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: First Semiannual Water Quality Monitoring Report of 2015
Piedmont Landfill and Recycling Center, Kernersville, North Carolina
Permit Number 34-06

Dear Ms. Drummond:

Please find enclosed a report documenting the first semiannual water quality monitoring event of 2015 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 March 18-19, 2015. All samples were transported to the Test America, Inc. laboratory in Arvada, Colorado for analysis.

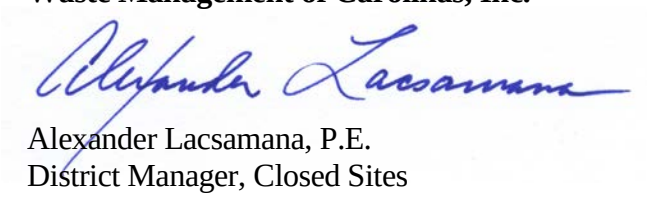
The Piedmont Landfill and Recycling Center is a closed municipal solid waste facility that last received waste in 2004 and entered into post closure care in accordance with Rule .1627(d) of the North Carolina Solid Waste Management Regulations (NCSWMR) as of October 29, 2004. All points at the facility 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 NC 2L 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 third 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

FIRST SEMIANNUAL
WATER QUALITY MONITORING REPORT OF 2015

APRIL 2015

***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. 00392.1501.12

PIEDMONT LANDFILL & RECYCLING CENTER
PERMIT # 34-06

FIRST SEMIANNUAL
WATER QUALITY MONITORING REPORT OF 2015

APRIL 2015

Signature Page and Limitations

This Water Quality Monitoring Report was prepared in accordance with the requirements of the North Carolina Solid Waste Management Regulations (15A NCAC 13B § .1630 through .1633) and generally accepted standards of environmental practice for the exclusive use of and reliance upon by the referenced client, for specific application to the referenced site. No other warranty is either expressed or implied.

Reuse and reliance of this document by other parties, or for purposes other than those specified, without written authorization, will be at the sole risk of the party or parties utilizing this document. Joyce Engineering shall incur no liability resulting from claims, damages, losses, and expenses that might arise from unauthorized use and reliance of this document.

Conclusions presented in this report are based upon a review of available information, results of chemical analyses, and professional judgment. Our conclusions do not reflect variations in subsurface groundwater quality that might exist between or beyond sampling points or between specific sampling events.

To the best of our knowledge, information provided by others is true and accurate, unless otherwise noted.

Prepared by: _____

G. Van Ness Burbach, Ph.D., P.G.
NC License # 1349

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST VAN NESS BURBACH

JOYCE ENGINEERING

2211 West Meadowview Road, Suite 101
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April 30, 2015

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

RE: First Semiannual Water Quality Monitoring Report of 2015
Piedmont Landfill & Recycling Center, Permit No. 34-06
JOYCE Project No. 392.1501.12, 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 first semiannual groundwater monitoring event of 2015. 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 March 18-19, 2015, by ProTech. 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 NETWORK:

The current monitoring network for this facility consists of 15 monitoring wells: 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. MW-01 and MW-06 are upgradient background wells and the others are downgradient compliance wells. There are also four surface water points currently sampled at this facility S-02, S-03, S-04, and S-05. The locations of the monitoring wells are shown on Drawing 1 (presented in Appendix B). Table 1 presents the construction data for the monitoring wells. The monitoring wells are sampled semiannually in accordance with the North Carolina Solid Waste Management regulations (NCSWMR) and the Water Quality Monitoring Plan for this facility.

Surface water at the facility is monitored semiannually in conjunction with the groundwater sampling events. Samples are collected from four surface water monitoring points: S-02, S-03, S-04, and S-05. Surface point S-01 was removed from the monitoring program as approved in a letter from DENR dated July 15, 2010. The locations of the surface water points are shown on Drawing 1.

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

The first semiannual sampling event of 2015 was conducted by ProTech on March 18-19, 2015. Fifteen 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 March 2015 event are provided in *Appendix A* of this report. Table 2 presents the quantified detections above the NC-DENR Solid Waste Section Reporting limits (SWSL) for the March 2015 sampling event. Table 3 presents the exceedances of 15A NCAC 2L.0202 Groundwater Standards (NC 2L Standards) or the NC-DENR Solid Waste Section Groundwater Protection Standards (GWPS) for the March 2015 sampling event. Table 4 presents the field parameter data for the March 2015 sampling event.

Organic Constituents

There were no quantified detections (above the SWSL) of any Appendix I organic constituents in any of the monitoring wells or surface water points during the March 2015 sampling event.

Inorganic Constituents

Three inorganic constituents had quantified detections (above the SWSL) in one or more monitoring wells. These included barium in MW-02, chromium in MW-03 and MW-4D, and Zinc in MW-04D and MW-10. Chromium was detected above the NC 2L Standard 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 regulatory 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 monitoring well or surface water point during the March 2015 sampling event.

SUBMITTAL OF LEACHATE ANALYTICAL DATA:

Appendix A to this report contains the leachate monitoring results for March 2015 sampling event 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 potentiometric surface map (Drawing 1) and groundwater flow rates for this event. In summary, the March 2015 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 March 2015 monitoring event. Three 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 third 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
Appendix A – Laboratory Analytical Reports
Appendix B – Groundwater Flow Regime Report

TABLES

TABLE 1: MONITORING WELL CONSTRUCTION DATA

WELL ID	INSTAL. DATE	WELL LOCATION		WELL ELEVATIONS		CASING DIAMETER	TOTAL DEPTH		TOP OF BEDROCK		SCREENED INTERVAL				GROUNDWATER *		LITHOLOGY OF SCREENED INTERVAL
		LATITUDE	LONGITUDE	Ground Surface	TOC		Depth (feet BGS)	Elevation (feet AMSL)	Depth (feet BGS)	Elevation (feet AMSL)	Depth (feet BGS)		Elevation (feet AMSL)		Depth to Water (feet below TOC)	Water Table Elevation (feet AMSL)	
				(feet AMSL)		(inches)					Top	Bottom	Top	Bottom			
MW-01	07/13/89	N36° 11' 39.28"	W80° 02' 15.38"	821.40	823.93	2.00	49.00	772.40	47.00	774.40	44.00	49.00	777.4	772.40	45.70	778.23	WEATHERED GNEISS BEDROCK
MW-02	08/05/89	N36° 11' 50.38"	W80° 02' 18.24"	767.30	778.04	2.00	25.50	741.80	-	-	20.20	25.20	747.1	742.10	28.81	749.23	SAPROLITE (SILTY SAND)
MW-03	08/06/89	N36° 11' 54.05"	W80° 02' 36.88"	767.30	770.08	2.00	38.00	729.30	-	-	32.50	37.50	734.8	729.80	25.73	744.35	SAPROLITE (SILTY SAND)
MW-04	07/14/89	N36° 11' 39.58"	W80° 02' 37.28"	754.50	756.92	2.00	27.00	727.50	-	-	20.00	25.00	734.5	729.50	12.73	744.19	SAPROLITE (SILTY SAND)
MW-04D#	02/18/94	N36° 11' 39.77"	W80° 02' 37.18"	754.30	757.33	2.00	62.00	692.30	62.00	692.30	53.25	58.25	701.05	696.05	13.20	744.13	SAPROLITE/WEATHERED BEDROCK
MW-05	08/02/89	N36° 11' 45.46"	W80° 02' 50.50"	740.40	743.17	2.00	20.50	719.90	-	-	14.45	19.45	725.95	720.95	4.68	738.49	SAPROLITE (SILTY SAND)
MW-06	08/09/93	N36° 11' 41.27"	W80° 02' 13.01"	798.00	800.82	2.00	26.80	771.20	-	-	20.90	25.90	777.1	772.10	24.17	776.65	SAPROLITE (SILTY SAND)
MW-07	08/25/94	N36° 11' 50.96"	W80° 02' 32.64"	768.87	771.57	2.00	33.50	735.37	-	-	17.00	32.40	751.87	736.47	24.98	746.59	SAPROLITE (SILTY SAND)
MW-08	08/31/94	N36° 11' 41.12"	W80° 02' 43.97"	746.15	748.95	2.00	22.00	724.15	-	-	5.00	20.00	741.15	726.15	5.59	743.36	SAPROLITE (SILTY SAND)
MW-09	08/30/94	N36° 11' 48.79"	W80° 02' 50.54"	767.82	770.62	2.00	35.00	732.82	-	-	19.81	34.81	748.01	733.01	-	-	SAPROLITE (SAND)/BEDROCK
MW-09R	11/09/99	N36° 11' 48.82"	W80° 02' 50.74"	762.95	764.95	2.00	41.20	721.75	28.00	734.95	32.00	42.50	730.95	720.45	26.23	738.72	BEDROCK
MW-10	10/24/94	N36° 11' 50.64"	W80° 02' 28.61"	774.20	777.20	2.00	38.00	736.20	-	-	20.00	36.99	754.2	737.21	30.48	746.72	SAPROLITE (CLAYEY SILT/SILT)
MW-11	11/17/94	N36° 11' 50.44"	W80° 02' 21.49"	774.30	776.80	2.00	35.00	739.30	-	-	19.01	34.22	755.29	740.08	28.60	748.20	SAPROLITE (SILT/SANDY SILT)
MW-11D	11/15/94	N36° 11' 50.56"	W80° 02' 21.46"	773.86	776.36	2.00	93.50	680.36	-	-	81.82	91.79	692.04	682.07	28.61	747.75	SAPROLITE (SANDY SILT/GRAVELY SILT)
MW-12	10/21/94	N36° 11' 37.16"	W80° 02' 33.26"	748.58	751.48	2.00	18.00	730.58	-	-	3.33	17.22	745.25	731.36	6.08	745.40	SAPROLITE (SILTY CLAY/SANDY SILT)
MW-12D	10/27/94	N36° 11' 37.11"	W80° 02' 33.16"	748.73	751.53	2.00	43.30	705.43	-	-	31.98	42.20	716.75	706.53	5.50	746.03	SAPRILITE (SILTY GRAVEL)

TOC = Top of PVC Well Casing. BGS = Below ground surface. AMSL = Above mean sea level. # MW-4D originally called PZ-13. * Groundwater data from March 18, 2015.

TABLE 2: Quantified Detections for the March 2015 Sampling Event

WELL ID	PARAMETER	RESULTS		UNITS	METHOD	MDL	MRL	SWSL	NC 2L	SAMPLE DATE
MW-02	Barium, Total Recoverable	160		µg/L	SW846 6010C	0.58	100	100	700	03/18/2015
MW-03	Chromium, Total Recoverable	10		µg/L	SW846 6010C	0.66	10	10	10	03/19/2015
MW-04D	Chromium, Total Recoverable	12		µg/L	SW846 6010C	0.66	10	10	10	03/18/2015
MW-04D	Zinc, Total Recoverable	18		µg/L	SW846 6020A	2	10	10	1000	03/18/2015
MW-10	Zinc, Total Recoverable	10		µg/L	SW846 6020A	2	10	10	1000	03/18/2015

TABLE 3: Exceedances for the March 2015 Sampling Event

WELL ID	PARAMETER	RESULTS		UNITS	METHOD	MDL	MRL	SWSL	NC 2L	SAMPLE DATE
MW-03	Chromium, Total Recoverable	10		µg/L	SW846 6010C	0.66	10	10	10	03/19/2015
MW-04D	Chromium, Total Recoverable	12		µg/L	SW846 6010C	0.66	10	10	10	03/18/2015

An ASD for chromium was approved by DENR in a letter dated April 28, 2011.

Concentrations in micrograms per liter (µg/L).
MDL = Method Detection Limit.
MRL = Method Reporting Limit.
SWSL = NC DENR Solid Waste Section Reporting Limit.
NC 2L = 15A NCAC 2L.0202 Groundwater Standards.

TABLE 4: Field Parameters

WELL ID	PARAMETER	RESULT	Units	Date
MW-01	Well Elevation	823.93	Ft-AMSL	3/18/2015
MW-01	Depth to Water	45.71	Ft-TOC	3/18/2015
MW-01	Groundwater Elevation	778.22	Ft-AMSL	3/18/2015
MW-01	Water Temperature (Field)	14	º C	3/18/2015
MW-01	Turbidity (Field)	3.2	NTU	3/18/2015
MW-01	pH (Field)	5.87	SU	3/18/2015
MW-01	Specific Conductance (Field)	65	µmhos/cm	3/18/2015
MW-01	Field eH (Redox)	133	mV	3/18/2015
MW-01	Dissolved Oxygen (Field)	1.8	mg/L	3/18/2015
MW-02	Well Elevation	778.04	Ft-AMSL	3/18/2015
MW-02	Depth to Water	28.81	Ft-TOC	3/18/2015
MW-02	Groundwater Elevation	749.23	Ft-AMSL	3/18/2015
MW-02	Water Temperature (Field)	14.7	º C	3/18/2015
MW-02	Turbidity (Field)	2.5	NTU	3/18/2015
MW-02	pH (Field)	5.26	SU	3/18/2015
MW-02	Specific Conductance (Field)	179	µmhos/cm	3/18/2015
MW-02	Field eH (Redox)	181	mV	3/18/2015
MW-02	Dissolved Oxygen (Field)	2.4	mg/L	3/18/2015
MW-03	Well Elevation	770.08	Ft-AMSL	3/19/2015
MW-03	Depth to Water	25.73	Ft-TOC	3/19/2015
MW-03	Groundwater Elevation	744.35	Ft-AMSL	3/19/2015
MW-03	Water Temperature (Field)	14.3	º C	3/19/2015
MW-03	Turbidity (Field)	1.6	NTU	3/19/2015
MW-03	pH (Field)	5.89	SU	3/19/2015
MW-03	Specific Conductance (Field)	171	µmhos/cm	3/19/2015
MW-03	Field eH (Redox)	178	mV	3/19/2015
MW-03	Dissolved Oxygen (Field)	4.7	mg/L	3/19/2015
MW-04	Well Elevation	756.92	Ft-AMSL	3/18/2015
MW-04	Depth to Water	12.73	Ft-TOC	3/18/2015
MW-04	Groundwater Elevation	744.19	Ft-AMSL	3/18/2015
MW-04	Water Temperature (Field)	14.6	º C	3/18/2015
MW-04	Turbidity (Field)	3.5	NTU	3/18/2015
MW-04	pH (Field)	5.48	SU	3/18/2015
MW-04	Specific Conductance (Field)	94	µmhos/cm	3/18/2015
MW-04	Field eH (Redox)	147	mV	3/18/2015
MW-04	Dissolved Oxygen (Field)	0.3	mg/L	3/18/2015
MW-04D	Well Elevation	757.33	Ft-AMSL	3/18/2015
MW-04D	Depth to Water	13.2	Ft-TOC	3/18/2015
MW-04D	Groundwater Elevation	744.13	Ft-AMSL	3/18/2015
MW-04D	Water Temperature (Field)	15	º C	3/18/2015
MW-04D	Turbidity (Field)	12.2	NTU	3/18/2015
MW-04D	pH (Field)	6.08	SU	3/18/2015
MW-04D	Specific Conductance (Field)	125	µmhos/cm	3/18/2015
MW-04D	Field eH (Redox)	128	mV	3/18/2015
MW-04D	Dissolved Oxygen (Field)	4.4	mg/L	3/18/2015

TABLE 4: Field Parameters

WELL ID	PARAMETER	RESULT	Units	Date
MW-05	Well Elevation	743.17	Ft-AMSL	3/18/2015
MW-05	Depth to Water	4.68	Ft-TOC	3/18/2015
MW-05	Groundwater Elevation	738.49	Ft-AMSL	3/18/2015
MW-05	Water Temperature (Field)	12.7	º C	3/18/2015
MW-05	Turbidity (Field)	1.3	NTU	3/18/2015
MW-05	pH (Field)	5.88	SU	3/18/2015
MW-05	Specific Conductance (Field)	353	µmhos/cm	3/18/2015
MW-05	Field eH (Redox)	104	mV	3/18/2015
MW-05	Dissolved Oxygen (Field)	0.5	mg/L	3/18/2015
MW-06	Well Elevation	800.87	Ft-AMSL	3/18/2015
MW-06	Depth to Water	24.17	Ft-TOC	3/18/2015
MW-06	Groundwater Elevation	776.7	Ft-AMSL	3/18/2015
MW-06	Water Temperature (Field)	14	º C	3/18/2015
MW-06	Turbidity (Field)	1.6	NTU	3/18/2015
MW-06	pH (Field)	5.18	SU	3/18/2015
MW-06	Specific Conductance (Field)	37	µmhos/cm	3/18/2015
MW-06	Field eH (Redox)	124	mV	3/18/2015
MW-06	Dissolved Oxygen (Field)	3.7	mg/L	3/18/2015
MW-07	Well Elevation	771.57	Ft-AMSL	3/18/2015
MW-07	Depth to Water	24.98	Ft-TOC	3/18/2015
MW-07	Groundwater Elevation	746.59	Ft-AMSL	3/18/2015
MW-07	Water Temperature (Field)	15.2	º C	3/18/2015
MW-07	Turbidity (Field)	2.2	NTU	3/18/2015
MW-07	pH (Field)	5.87	SU	3/18/2015
MW-07	Specific Conductance (Field)	135	µmhos/cm	3/18/2015
MW-07	Field eH (Redox)	138	mV	3/18/2015
MW-07	Dissolved Oxygen (Field)	4.9	mg/L	3/18/2015
MW-08	Well Elevation	748.95	Ft-AMSL	3/18/2015
MW-08	Depth to Water	5.59	Ft-TOC	3/18/2015
MW-08	Groundwater Elevation	743.36	Ft-AMSL	3/18/2015
MW-08	Water Temperature (Field)	9.3	º C	3/18/2015
MW-08	Turbidity (Field)	4.5	NTU	3/18/2015
MW-08	pH (Field)	5.47	SU	3/18/2015
MW-08	Specific Conductance (Field)	105	µmhos/cm	3/18/2015
MW-08	Field eH (Redox)	144	mV	3/18/2015
MW-08	Dissolved Oxygen (Field)	3.4	mg/L	3/18/2015
MW-09R	Well Elevation	764.95	Ft-AMSL	3/19/2015
MW-09R	Depth to Water	26.23	Ft-TOC	3/19/2015
MW-09R	Groundwater Elevation	738.72	Ft-AMSL	3/19/2015
MW-09R	Water Temperature (Field)	15.2	º C	3/19/2015
MW-09R	Turbidity (Field)	1.4	NTU	3/19/2015
MW-09R	pH (Field)	6.02	SU	3/19/2015
MW-09R	Specific Conductance (Field)	310	µmhos/cm	3/19/2015
MW-09R	Field eH (Redox)	-17	mV	3/19/2015
MW-09R	Dissolved Oxygen (Field)	1	mg/L	3/19/2015

TABLE 4: Field Parameters

WELL ID	PARAMETER	RESULT	Units	Date
MW-10	Well Elevation	777.2	Ft-AMSL	3/18/2015
MW-10	Depth to Water	30.48	Ft-TOC	3/18/2015
MW-10	Groundwater Elevation	746.72	Ft-AMSL	3/18/2015
MW-10	Water Temperature (Field)	15.7	º C	3/18/2015
MW-10	Turbidity (Field)	3.8	NTU	3/18/2015
MW-10	pH (Field)	6.8	SU	3/18/2015
MW-10	Specific Conductance (Field)	125	µmhos/cm	3/18/2015
MW-10	Field eH (Redox)	138	mV	3/18/2015
MW-10	Dissolved Oxygen (Field)	3	mg/L	3/18/2015
MW-11	Well Elevation	776.8	Ft-AMSL	3/18/2015
MW-11	Depth to Water	28.6	Ft-TOC	3/18/2015
MW-11	Groundwater Elevation	748.2	Ft-AMSL	3/18/2015
MW-11	Water Temperature (Field)	15	º C	3/18/2015
MW-11	Turbidity (Field)	3.3	NTU	3/18/2015
MW-11	pH (Field)	5.52	SU	3/18/2015
MW-11	Specific Conductance (Field)	178	µmhos/cm	3/18/2015
MW-11	Field eH (Redox)	154	mV	3/18/2015
MW-11	Dissolved Oxygen (Field)	0.9	mg/L	3/18/2015
MW-11D	Well Elevation	776.36	Ft-AMSL	3/18/2015
MW-11D	Depth to Water	28.61	Ft-TOC	3/18/2015
MW-11D	Groundwater Elevation	747.75	Ft-AMSL	3/18/2015
MW-11D	Water Temperature (Field)	14.6	º C	3/18/2015
MW-11D	Turbidity (Field)	4.6	NTU	3/18/2015
MW-11D	pH (Field)	6.49	SU	3/18/2015
MW-11D	Specific Conductance (Field)	77	µmhos/cm	3/18/2015
MW-11D	Field eH (Redox)	100	mV	3/18/2015
MW-11D	Dissolved Oxygen (Field)	3.1	mg/L	3/18/2015
MW-12	Well Elevation	751.48	Ft-AMSL	3/18/2015
MW-12	Depth to Water	6.08	Ft-TOC	3/18/2015
MW-12	Groundwater Elevation	745.4	Ft-AMSL	3/18/2015
MW-12	Water Temperature (Field)	12.4	º C	3/18/2015
MW-12	Turbidity (Field)	8.3	NTU	3/18/2015
MW-12	pH (Field)	6.11	SU	3/18/2015
MW-12	Specific Conductance (Field)	167	µmhos/cm	3/18/2015
MW-12	Field eH (Redox)	171	mV	3/18/2015
MW-12	Dissolved Oxygen (Field)	0.6	mg/L	3/18/2015
MW-12D	Well Elevation	751.48	Ft-AMSL	3/18/2015
MW-12D	Depth to Water	5.5	Ft-TOC	3/18/2015
MW-12D	Groundwater Elevation	745.98	Ft-AMSL	3/18/2015
MW-12D	Water Temperature (Field)	14	º C	3/18/2015
MW-12D	Turbidity (Field)	2.7	NTU	3/18/2015
MW-12D	pH (Field)	6.45	SU	3/18/2015
MW-12D	Specific Conductance (Field)	238	µmhos/cm	3/18/2015
MW-12D	Field eH (Redox)	185	mV	3/18/2015
MW-12D	Dissolved Oxygen (Field)	0.5	mg/L	3/18/2015

TABLE 4: Field Parameters

WELL ID	PARAMETER	RESULT	Units	Date
S-02	Water Temperature (Field)	8.4	º C	3/19/2015
S-02	Turbidity (Field)	5.7	NTU	3/19/2015
S-02	pH (Field)	7.36	SU	3/19/2015
S-02	Specific Conductance (Field)	121	µmhos/cm	3/19/2015
S-02	Field eH (Redox)	-15	mV	3/19/2015
S-02	Dissolved Oxygen (Field)	5.8	mg/L	3/19/2015
S-03	Water Temperature (Field)	8.1	º C	3/19/2015
S-03	Turbidity (Field)	5.5	NTU	3/19/2015
S-03	pH (Field)	7.29	SU	3/19/2015
S-03	Specific Conductance (Field)	98	µmhos/cm	3/19/2015
S-03	Field eH (Redox)	-31	mV	3/19/2015
S-03	Dissolved Oxygen (Field)	6.1	mg/L	3/19/2015
S-04	Water Temperature (Field)	8	º C	3/19/2015
S-04	Turbidity (Field)	8.2	NTU	3/19/2015
S-04	pH (Field)	7.25	SU	3/19/2015
S-04	Specific Conductance (Field)	99	µmhos/cm	3/19/2015
S-04	Field eH (Redox)	12	mV	3/19/2015
S-04	Dissolved Oxygen (Field)	3.3	mg/L	3/19/2015
S-05	Water Temperature (Field)	8.4	º C	3/19/2015
S-05	Turbidity (Field)	2.8	NTU	3/19/2015
S-05	pH (Field)	7.44	SU	3/19/2015
S-05	Specific Conductance (Field)	125	µmhos/cm	3/19/2015
S-05	Field eH (Redox)	-64	mV	3/19/2015
S-05	Dissolved Oxygen (Field)	5.8	mg/L	3/19/2015

Ft-AMSL = Feet above Mean Sea Level
Ft-TOC = Feet below Top of Casing
º C = degrees Centigrade
NTU = Nephelometric Turbidity Unit
SU = Standard Units
µmhos/cm = micro-mhos per centimeter
mV = millivolts
mg/L = milligrams per liter

APPENDIX A

LABORATORY ANALYTICAL REPORTS

Including Field Data Logs and Chains of Custody

ANALYTICAL REPORT

Job Number: 280-66872-1

Job Description: 134|Piedmont Landfill

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

Attention: Mr. Al Lacsamana

Approved for release.
Danielle M Harrington
Project Manager II
3/30/2015 12:24 PM

Designee for
Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
03/30/2015

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.

CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-66872-1

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 03/20/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.6C and 1.0C.

Holding Times

The holding times were within established control limits.

Method Blanks

Methylene Chloride Method 8260B and Total Silver 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)

The Matrix Spike and Matrix Spike Duplicate performed on sample 3406-MW12 exhibited recoveries outside control limits for Antimony Method 6020A. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

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

Organics

The Method 8260B surrogate recoveries of 1,2-Dichloroethane-d4, 4-Bromofluorobenzene and/or Dibromofluoromethane were above control limits for samples 3406-MW01, 3406-MW08, 3406-MW02, 3406-MW05, 3406-MW07, 3406-MW10, 3406-MW11D, and TRIP BLANK. Because the data are considered to be biased high and all target analytes in the sample were non-detect, corrective action was deemed unnecessary.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66872-1	**3406-MW12D**					
Well Elevation		751.48			ft/msl	Field Sampling
Depth to water		5.50			ft	Field Sampling
Groundwater Elevation		745.98			ft/msl	Field Sampling
Field pH		6.45			SU	Field Sampling
Field Conductivity		238			umhos/cm	Field Sampling
Field Temperature		14.0			Degrees C	Field Sampling
Field Turbidity		2.7			NTU	Field Sampling
Field Dissolved Oxygen		0.5			mg/L	Field Sampling
Field EH/ORP		185			millivolts	Field Sampling
Total Recoverable						
Barium		6.3	J	100	ug/L	6010C
Chromium		1.0	J	10	ug/L	6010C
Vanadium		2.0	J	25	ug/L	6010C
Silver		1.4	J B	10	ug/L	6010C
280-66872-2	**3406-MW12**					
Well Elevation		751.48			ft/msl	Field Sampling
Depth to water		6.08			ft	Field Sampling
Groundwater Elevation		745.40			ft/msl	Field Sampling
Field pH		6.11			SU	Field Sampling
Field Conductivity		167			umhos/cm	Field Sampling
Field Temperature		12.4			Degrees C	Field Sampling
Field Turbidity		8.3			NTU	Field Sampling
Field Dissolved Oxygen		0.6			mg/L	Field Sampling
Field EH/ORP		171			millivolts	Field Sampling
Total Recoverable						
Barium		23	J	100	ug/L	6010C
Chromium		2.2	J	10	ug/L	6010C
Vanadium		3.8	J	25	ug/L	6010C
Silver		1.6	J B	10	ug/L	6010C
Copper		1.0	J	10	ug/L	6020A
Zinc		3.0	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66872-3	**3406-MW01**					
Well Elevation		823.93			ft/msl	Field Sampling
Depth to water		45.71			ft	Field Sampling
Groundwater Elevation		778.22			ft/msl	Field Sampling
Field pH		5.87			SU	Field Sampling
Field Conductivity		65			umhos/cm	Field Sampling
Field Temperature		14.0			Degrees C	Field Sampling
Field Turbidity		3.2			NTU	Field Sampling
Field Dissolved Oxygen		1.8			mg/L	Field Sampling
Field EH/ORP		133			millivolts	Field Sampling
Total Recoverable						
Barium		50	J	100	ug/L	6010C
Chromium		2.4	J	10	ug/L	6010C
Nickel		2.2	J	50	ug/L	6010C
Vanadium		1.1	J	25	ug/L	6010C
Silver		2.0	J B	10	ug/L	6010C
Antimony		0.91	J	6.0	ug/L	6020A
Copper		5.1	J	10	ug/L	6020A
Thallium		0.18	J	5.5	ug/L	6020A
Zinc		6.5	J	10	ug/L	6020A
280-66872-4	**3406-MW06**					
Well Elevation		800.87			ft/msl	Field Sampling
Depth to water		24.17			ft	Field Sampling
Groundwater Elevation		776.70			ft/msl	Field Sampling
Field pH		5.18			SU	Field Sampling
Field Conductivity		37			umhos/cm	Field Sampling
Field Temperature		14.0			Degrees C	Field Sampling
Field Turbidity		1.6			NTU	Field Sampling
Field Dissolved Oxygen		3.7			mg/L	Field Sampling
Field EH/ORP		124			millivolts	Field Sampling
Total Recoverable						
Barium		39	J	100	ug/L	6010C
Chromium		3.7	J	10	ug/L	6010C
Silver		1.4	J B	10	ug/L	6010C
Copper		1.2	J	10	ug/L	6020A
Zinc		9.8	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66872-5	**3406-MW04**					
Well Elevation		756.92			ft/msl	Field Sampling
Depth to water		12.73			ft	Field Sampling
Groundwater Elevation		744.19			ft/msl	Field Sampling
Field pH		5.48			SU	Field Sampling
Field Conductivity		94			umhos/cm	Field Sampling
Field Temperature		14.6			Degrees C	Field Sampling
Field Turbidity		3.5			NTU	Field Sampling
Field Dissolved Oxygen		0.3			mg/L	Field Sampling
Field EH/ORP		147			millivolts	Field Sampling
Total Recoverable						
Barium		75	J	100	ug/L	6010C
Beryllium		0.67	J	1.0	ug/L	6010C
Cobalt		1.7	J	10	ug/L	6010C
Silver		1.5	J B	10	ug/L	6010C
Zinc		7.4	J	10	ug/L	6020A
280-66872-6	**3406-MW04D**					
Well Elevation		757.33			ft/msl	Field Sampling
Depth to water		13.20			ft	Field Sampling
Groundwater Elevation		744.13			ft/msl	Field Sampling
Field pH		6.08			SU	Field Sampling
Field Conductivity		125			umhos/cm	Field Sampling
Field Temperature		15.0			Degrees C	Field Sampling
Field Turbidity		12.2			NTU	Field Sampling
Field Dissolved Oxygen		4.4			mg/L	Field Sampling
Field EH/ORP		128			millivolts	Field Sampling
Total Recoverable						
Barium		48	J	100	ug/L	6010C
Beryllium		0.52	J	1.0	ug/L	6010C
Chromium		12		10	ug/L	6010C
Nickel		1.6	J	50	ug/L	6010C
Vanadium		7.1	J	25	ug/L	6010C
Silver		1.6	J B	10	ug/L	6010C
Arsenic		0.45	J	10	ug/L	6020A
Copper		0.64	J	10	ug/L	6020A
Thallium		0.054	J	5.5	ug/L	6020A
Zinc		18		10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66872-7	**3406-MW05**					
Well Elevation		743.17			ft/msl	Field Sampling
Depth to water		4.68			ft	Field Sampling
Groundwater Elevation		738.49			ft/msl	Field Sampling
Field pH		5.88			SU	Field Sampling
Field Conductivity		353			umhos/cm	Field Sampling
Field Temperature		12.7			Degrees C	Field Sampling
Field Turbidity		1.3			NTU	Field Sampling
Field Dissolved Oxygen		0.5			mg/L	Field Sampling
Field EH/ORP		104			millivolts	Field Sampling
Total Recoverable						
Barium		34	J	100	ug/L	6010C
Chromium		3.9	J	10	ug/L	6010C
Nickel		2.2	J	50	ug/L	6010C
Vanadium		5.7	J	25	ug/L	6010C
Silver		1.6	J B	10	ug/L	6010C
Zinc		2.6	J	10	ug/L	6020A
280-66872-8	**3406-MW08**					
Well Elevation		748.95			ft/msl	Field Sampling
Depth to water		5.59			ft	Field Sampling
Groundwater Elevation		743.36			ft/msl	Field Sampling
Field pH		5.47			SU	Field Sampling
Field Conductivity		105			umhos/cm	Field Sampling
Field Temperature		9.3			Degrees C	Field Sampling
Field Turbidity		4.5			NTU	Field Sampling
Field Dissolved Oxygen		3.4			mg/L	Field Sampling
Field EH/ORP		144			millivolts	Field Sampling
Total Recoverable						
Barium		67	J	100	ug/L	6010C
Silver		1.6	J B	10	ug/L	6010C
Zinc		2.0	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66872-9	**3406-MW11**					
1,1-Dichloroethane		0.48	J	5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.33	J	5.0	ug/L	8260B
Well Elevation		776.80			ft/msl	Field Sampling
Depth to water		28.60			ft	Field Sampling
Groundwater Elevation		748.20			ft/msl	Field Sampling
Field pH		5.52			SU	Field Sampling
Field Conductivity		178			umhos/cm	Field Sampling
Field Temperature		15.0			Degrees C	Field Sampling
Field Turbidity		3.3			NTU	Field Sampling
Field Dissolved Oxygen		0.9			mg/L	Field Sampling
Field EH/ORP		154			millivolts	Field Sampling
Total Recoverable						
Barium		60	J	100	ug/L	6010C
Cobalt		1.3	J	10	ug/L	6010C
Nickel		1.3	J	50	ug/L	6010C
Vanadium		1.4	J	25	ug/L	6010C
Silver		1.4	J B	10	ug/L	6010C
Copper		0.84	J	10	ug/L	6020A
Zinc		7.6	J	10	ug/L	6020A
280-66872-10	**3406-MW02**					
Well Elevation		778.04			ft/msl	Field Sampling
Depth to water		28.81			ft	Field Sampling
Groundwater Elevation		749.23			ft/msl	Field Sampling
Field pH		5.26			SU	Field Sampling
Field Conductivity		179			umhos/cm	Field Sampling
Field Temperature		14.7			Degrees C	Field Sampling
Field Turbidity		2.5			NTU	Field Sampling
Field Dissolved Oxygen		2.4			mg/L	Field Sampling
Field EH/ORP		181			millivolts	Field Sampling
Total Recoverable						
Barium		160		100	ug/L	6010C
Beryllium		0.47	J	1.0	ug/L	6010C
Silver		1.3	J B	10	ug/L	6010C
Selenium		0.79	J	10	ug/L	6020A
Zinc		3.6	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66872-11	**3406-MW07**					
Well Elevation		771.57			ft/msl	Field Sampling
Depth to water		24.98			ft	Field Sampling
Groundwater Elevation		746.59			ft/msl	Field Sampling
Field pH		5.87			SU	Field Sampling
Field Conductivity		135			umhos/cm	Field Sampling
Field Temperature		15.2			Degrees C	Field Sampling
Field Turbidity		2.2			NTU	Field Sampling
Field Dissolved Oxygen		4.9			mg/L	Field Sampling
Field EH/ORP		138			millivolts	Field Sampling
Total Recoverable						
Barium		9.4	J	100	ug/L	6010C
Chromium		1.2	J	10	ug/L	6010C
Nickel		1.4	J	50	ug/L	6010C
Vanadium		9.3	J	25	ug/L	6010C
Silver		1.3	J B	10	ug/L	6010C
Copper		9.5	J	10	ug/L	6020A
Zinc		5.3	J	10	ug/L	6020A
280-66872-12	**3406-MW10**					
Well Elevation		777.20			ft/msl	Field Sampling
Depth to water		30.48			ft	Field Sampling
Groundwater Elevation		746.72			ft/msl	Field Sampling
Field pH		6.80			SU	Field Sampling
Field Conductivity		125			umhos/cm	Field Sampling
Field Temperature		15.7			Degrees C	Field Sampling
Field Turbidity		3.8			NTU	Field Sampling
Field Dissolved Oxygen		3.0			mg/L	Field Sampling
Field EH/ORP		138			millivolts	Field Sampling
Total Recoverable						
Barium		17	J	100	ug/L	6010C
Chromium		7.7	J	10	ug/L	6010C
Nickel		2.7	J	50	ug/L	6010C
Vanadium		6.3	J	25	ug/L	6010C
Copper		1.0	J	10	ug/L	6020A
Zinc		10		10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66872-13	**3406-MW11D**					
Well Elevation		776.36			ft/msl	Field Sampling
Depth to water		28.61			ft	Field Sampling
Groundwater Elevation		747.75			ft/msl	Field Sampling
Field pH		6.49			SU	Field Sampling
Field Conductivity		77			umhos/cm	Field Sampling
Field Temperature		14.6			Degrees C	Field Sampling
Field Turbidity		4.6			NTU	Field Sampling
Field Dissolved Oxygen		3.1			mg/L	Field Sampling
Field EH/ORP		100			millivolts	Field Sampling
Total Recoverable						
Barium		22	J	100	ug/L	6010C
Chromium		6.0	J	10	ug/L	6010C
Nickel		1.5	J	50	ug/L	6010C
Vanadium		10	J	25	ug/L	6010C
Silver		1.1	J B	10	ug/L	6010C
Copper		4.2	J	10	ug/L	6020A
Zinc		3.8	J	10	ug/L	6020A
280-66872-14	**3406-MW09R**					
1,1-Dichloroethane		0.73	J	5.0	ug/L	8260B
Well Elevation		764.95			ft/msl	Field Sampling
Depth to water		26.23			ft	Field Sampling
Groundwater Elevation		738.72			ft/msl	Field Sampling
Field pH		6.02			SU	Field Sampling
Field Conductivity		310			umhos/cm	Field Sampling
Field Temperature		15.2			Degrees C	Field Sampling
Field Turbidity		1.4			NTU	Field Sampling
Field Dissolved Oxygen		1.0			mg/L	Field Sampling
Field EH/ORP		-17			millivolts	Field Sampling
Total Recoverable						
Barium		10	J	100	ug/L	6010C
Vanadium		7.4	J	25	ug/L	6010C
Silver		1.2	J B	10	ug/L	6010C
Copper		0.85	J	10	ug/L	6020A
Zinc		2.2	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66872-15	**3406-MW03**					
1,1-Dichloroethane		0.35	J	5.0	ug/L	8260B
Well Elevation		770.08			ft/msl	Field Sampling
Depth to water		25.73			ft	Field Sampling
Groundwater Elevation		744.35			ft/msl	Field Sampling
Field pH		5.89			SU	Field Sampling
Field Conductivity		171			umhos/cm	Field Sampling
Field Temperature		14.3			Degrees C	Field Sampling
Field Turbidity		1.6			NTU	Field Sampling
Field Dissolved Oxygen		4.7			mg/L	Field Sampling
Field EH/ORP		178			millivolts	Field Sampling
Total Recoverable						
Barium		18	J	100	ug/L	6010C
Chromium		10		10	ug/L	6010C
Nickel		1.5	J	50	ug/L	6010C
Vanadium		7.7	J	25	ug/L	6010C
Silver		1.3	J B	10	ug/L	6010C
280-66872-16FB	**3406-01FB**					
Field pH		8.15			SU	Field Sampling
Field Conductivity		5			umhos/cm	Field Sampling
Field Temperature		14.3			Degrees C	Field Sampling
Field Turbidity		0.0			NTU	Field Sampling
Field Dissolved Oxygen		0.8			mg/L	Field Sampling
Field EH/ORP		-32			millivolts	Field Sampling
Total Recoverable						
Barium		1.0	J	100	ug/L	6010C
Silver		1.1	J B	10	ug/L	6010C
Antimony		0.45	J	6.0	ug/L	6020A
Thallium		0.077	J	5.5	ug/L	6020A

METHOD SUMMARY

Client: Waste Management

Job Number: 280-66872-1

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: 280-66872-1

Method	Analyst	Analyst ID
SW846 8260B	Berger, Brent B	BBB
SW846 8260B	Lines, Jeremy N	JNL
SW846 6010C	Rhoades, Chris R	CRR
SW846 6020A	Trudell, Lynn-Anne M	LMT
EPA Field Sampling	Promduang, Thaweesin	TP

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-66872-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-66872-1	3406-MW12D	Water	03/18/2015 0722	03/20/2015 0930
280-66872-2	3406-MW12	Water	03/18/2015 0757	03/20/2015 0930
280-66872-3	3406-MW01	Water	03/18/2015 0939	03/20/2015 0930
280-66872-4	3406-MW06	Water	03/18/2015 1022	03/20/2015 0930
280-66872-5	3406-MW04	Water	03/18/2015 1223	03/20/2015 0930
280-66872-6	3406-MW04D	Water	03/18/2015 1153	03/20/2015 0930
280-66872-7	3406-MW05	Water	03/18/2015 1427	03/20/2015 0930
280-66872-8	3406-MW08	Water	03/18/2015 1358	03/20/2015 0930
280-66872-9	3406-MW11	Water	03/18/2015 1529	03/20/2015 0930
280-66872-10	3406-MW02	Water	03/18/2015 1457	03/20/2015 0930
280-66872-11	3406-MW07	Water	03/18/2015 1705	03/20/2015 0930
280-66872-12	3406-MW10	Water	03/18/2015 1631	03/20/2015 0930
280-66872-13	3406-MW11D	Water	03/18/2015 1600	03/20/2015 0930
280-66872-14	3406-MW09R	Water	03/19/2015 0818	03/20/2015 0930
280-66872-15	3406-MW03	Water	03/19/2015 0743	03/20/2015 0930
280-66872-16FB	3406-01FB	Water	03/19/2015 0838	03/20/2015 0930
280-66872-17TB	TRIP BLANK	Water	03/19/2015 0000	03/20/2015 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-66872-1

Client Matrix: Water

Date Sampled: 03/18/2015 0722

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4115.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2159			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2159				

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	F2	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: 280-66872-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-66872-1

Client Matrix: Water

Date Sampled: 03/18/2015 0722

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4115.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2159			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2159				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		70 - 127
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	120		77 - 120
Toluene-d8 (Surr)	111		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-66872-2

Client Matrix: Water

Date Sampled: 03/18/2015 0757

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4116.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2219			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2219				

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: 280-66872-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-66872-2

Client Matrix: Water

Date Sampled: 03/18/2015 0757

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4116.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2219			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2219				

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)	102		78 - 120
Dibromofluoromethane (Surr)	120		77 - 120
Toluene-d8 (Surr)	108		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-66872-3

Client Matrix: Water

Date Sampled: 03/18/2015 0939

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4117.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2239			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2239				

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: 280-66872-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-66872-3

Client Matrix: Water

Date Sampled: 03/18/2015 0939

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4117.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2239			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2239				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	123		70 - 127
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	123	X	77 - 120
Toluene-d8 (Surr)	110		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-66872-4

Client Matrix: Water

Date Sampled: 03/18/2015 1022

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4118.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2259			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2259				

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: 280-66872-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-66872-4

Client Matrix: Water

Date Sampled: 03/18/2015 1022

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4118.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2259			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2259				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	118		77 - 120
Toluene-d8 (Surr)	107		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-66872-5

Client Matrix: Water

Date Sampled: 03/18/2015 1223

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4124.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0107			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0107				

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: 280-66872-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-66872-5

Client Matrix: Water

Date Sampled: 03/18/2015 1223

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4124.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0107			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0107				

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)	98		78 - 120
Dibromofluoromethane (Surr)	114		77 - 120
Toluene-d8 (Surr)	111		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-66872-6

Client Matrix: Water

Date Sampled: 03/18/2015 1153

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4125.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0126			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0126				

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: 280-66872-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-66872-6

Client Matrix: Water

Date Sampled: 03/18/2015 1153

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4125.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0126			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0126				

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)	115		77 - 120
Toluene-d8 (Surr)	105		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-66872-7

Client Matrix: Water

Date Sampled: 03/18/2015 1427

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4126.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0146			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0146				

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: 280-66872-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-66872-7

Client Matrix: Water

Date Sampled: 03/18/2015 1427

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4126.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0146			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0146				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	123		70 - 127
4-Bromofluorobenzene (Surr)	109		78 - 120
Dibromofluoromethane (Surr)	125	X	77 - 120
Toluene-d8 (Surr)	119		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-66872-8

Client Matrix: Water

Date Sampled: 03/18/2015 1358

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4127.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0205			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0205				

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: 280-66872-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-66872-8

Client Matrix: Water

Date Sampled: 03/18/2015 1358

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4127.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0205			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0205				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	151	X	70 - 127
4-Bromofluorobenzene (Surr)	135	X	78 - 120
Dibromofluoromethane (Surr)	152	X	77 - 120
Toluene-d8 (Surr)	146	X	80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-66872-9

Client Matrix: Water

Date Sampled: 03/18/2015 1529

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0505.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2354			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2354				

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	0.48	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	0.33	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	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: 280-66872-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-66872-9

Client Matrix: Water

Date Sampled: 03/18/2015 1529

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0505.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2354			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2354				

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)	98		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
Toluene-d8 (Surr)	99		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-66872-10

Client Matrix: Water

Date Sampled: 03/18/2015 1457

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4129.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0245			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0245				

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: 280-66872-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-66872-10

Client Matrix: Water

Date Sampled: 03/18/2015 1457

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4129.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0245			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0245				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	123		70 - 127
4-Bromofluorobenzene (Surr)	107		78 - 120
Dibromofluoromethane (Surr)	127	X	77 - 120
Toluene-d8 (Surr)	113		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-66872-11

Client Matrix: Water

Date Sampled: 03/18/2015 1705

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4130.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0305			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0305				

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: 280-66872-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-66872-11

Client Matrix: Water

Date Sampled: 03/18/2015 1705

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4130.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0305			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0305				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		70 - 127
4-Bromofluorobenzene (Surr)	112		78 - 120
Dibromofluoromethane (Surr)	124	X	77 - 120
Toluene-d8 (Surr)	115		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-66872-12

Client Matrix: Water

Date Sampled: 03/18/2015 1631

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4131.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0324			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0324				

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: 280-66872-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-66872-12

Client Matrix: Water

Date Sampled: 03/18/2015 1631

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4131.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0324			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0324				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	121		70 - 127
4-Bromofluorobenzene (Surr)	106		78 - 120
Dibromofluoromethane (Surr)	123	X	77 - 120
Toluene-d8 (Surr)	116		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-66872-13

Client Matrix: Water

Date Sampled: 03/18/2015 1600

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4132.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0344			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0344				

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: 280-66872-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-66872-13

Client Matrix: Water

Date Sampled: 03/18/2015 1600

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4132.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0344			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0344				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		70 - 127
4-Bromofluorobenzene (Surr)	108		78 - 120
Dibromofluoromethane (Surr)	122	X	77 - 120
Toluene-d8 (Surr)	116		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-66872-14

Client Matrix: Water

Date Sampled: 03/19/2015 0818

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0506.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/26/2015 0016			Final Weight/Volume:	20 mL
Prep Date:	03/26/2015 0016				

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	0.73	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	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: 280-66872-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-66872-14

Client Matrix: Water

Date Sampled: 03/19/2015 0818

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0506.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/26/2015 0016			Final Weight/Volume:	20 mL
Prep Date:	03/26/2015 0016				

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)	95		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120
Toluene-d8 (Surr)	98		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-66872-15

Client Matrix: Water

Date Sampled: 03/19/2015 0743

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0507.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/26/2015 0039			Final Weight/Volume:	20 mL
Prep Date:	03/26/2015 0039				

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	0.35	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	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: 280-66872-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-66872-15

Client Matrix: Water

Date Sampled: 03/19/2015 0743

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0507.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/26/2015 0039			Final Weight/Volume:	20 mL
Prep Date:	03/26/2015 0039				

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)	98		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
Toluene-d8 (Surr)	100		80 - 125

Client: Waste Management

Job Number: 280-66872-1

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

Lab Sample ID: 280-66872-16FB

Client Matrix: Water

Date Sampled: 03/19/2015 0838

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4135.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0443			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 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	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: 280-66872-1

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

Lab Sample ID: 280-66872-16FB

Client Matrix: Water

Date Sampled: 03/19/2015 0838

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4135.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0443			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 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)	120		70 - 127
4-Bromofluorobenzene (Surr)	107		78 - 120
Dibromofluoromethane (Surr)	120		77 - 120
Toluene-d8 (Surr)	114		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-66872-17TB

Client Matrix: Water

Date Sampled: 03/19/2015 0000

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4136.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0503			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0503				

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: 280-66872-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-66872-17TB

Client Matrix: Water

Date Sampled: 03/19/2015 0000

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R4136.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0503			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0503				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	125		70 - 127
4-Bromofluorobenzene (Surr)	111		78 - 120
Dibromofluoromethane (Surr)	126	X	77 - 120
Toluene-d8 (Surr)	113		80 - 125

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-66872-1

Client Matrix: Water

Date Sampled: 03/18/2015 0722

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0309			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	6.3	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.0	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	2.0	J	1.1	25
Silver	1.4	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	076SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1531			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	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: 280-66872-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-66872-2

Client Matrix: Water

Date Sampled: 03/18/2015 0757

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0331			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	23	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	2.2	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	3.8	J	1.1	25
Silver	1.6	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	080SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1546			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND	F1	0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	1.0	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	3.0	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-66872-3

Client Matrix: Water

Date Sampled: 03/18/2015 0939

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0333			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	50	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	2.4	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	2.2	J	1.3	50
Vanadium	1.1	J	1.1	25
Silver	2.0	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	085SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1604			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.91	J	0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	5.1	J	0.56	10
Selenium	ND		0.70	10
Thallium	0.18	J	0.050	5.5
Zinc	6.5	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-66872-4

Client Matrix: Water

Date Sampled: 03/18/2015 1022

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0336			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	39	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	ND		1.3	50
Vanadium	ND		1.1	25
Silver	1.4	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	089SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1621			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	1.2	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	9.8	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-66872-5

Client Matrix: Water

Date Sampled: 03/18/2015 1223

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0338			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	75	J	0.58	100
Beryllium	0.67	J	0.47	1.0
Chromium	ND		0.66	10
Cobalt	1.7	J	1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	1.5	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	090SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1624			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	7.4	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-66872-6

Client Matrix: Water

Date Sampled: 03/18/2015 1153

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0341			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	48	J	0.58	100
Beryllium	0.52	J	0.47	1.0
Chromium	12		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	1.6	J	1.3	50
Vanadium	7.1	J	1.1	25
Silver	1.6	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	091SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1628			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	0.45	J	0.33	10
Cadmium	ND		0.27	1.0
Copper	0.64	J	0.56	10
Selenium	ND		0.70	10
Thallium	0.054	J	0.050	5.5
Zinc	18		2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-66872-7

Client Matrix: Water

Date Sampled: 03/18/2015 1427

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0343			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	34	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	3.9	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	2.2	J	1.3	50
Vanadium	5.7	J	1.1	25
Silver	1.6	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	092SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1632			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	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: 280-66872-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-66872-8

Client Matrix: Water

Date Sampled: 03/18/2015 1358

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0346			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

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	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	1.6	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	093SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1635			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.0	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-66872-9

Client Matrix: Water

Date Sampled: 03/18/2015 1529

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0349			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	60	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	1.3	J	1.2	10
Lead	ND		2.6	10
Nickel	1.3	J	1.3	50
Vanadium	1.4	J	1.1	25
Silver	1.4	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	094SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1639			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	0.84	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	7.6	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-66872-10

Client Matrix: Water

Date Sampled: 03/18/2015 1457

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0351			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160		0.58	100
Beryllium	0.47	J	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	1.3	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	095SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1642			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	ND		0.56	10
Selenium	0.79	J	0.70	10
Thallium	ND		0.050	5.5
Zinc	3.6	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-66872-11

Client Matrix: Water

Date Sampled: 03/18/2015 1705

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0354			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	9.4	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.2	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	1.4	J	1.3	50
Vanadium	9.3	J	1.1	25
Silver	1.3	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	099SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1657			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	9.5	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	5.3	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-66872-12

Client Matrix: Water

Date Sampled: 03/18/2015 1631

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0406			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	17	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	7.7	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	2.7	J	1.3	50
Vanadium	6.3	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	100SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1701			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	1.0	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	10		2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-66872-13

Client Matrix: Water

Date Sampled: 03/18/2015 1600

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0409			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	22	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	1.5	J	1.3	50
Vanadium	10	J	1.1	25
Silver	1.1	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	101SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1704			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	4.2	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	3.8	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-66872-14

Client Matrix: Water

Date Sampled: 03/19/2015 0818

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0411			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	7.4	J	1.1	25
Silver	1.2	J B	0.93	10

Analysis Method:	6010C	Analysis Batch:	280-269804	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26D032515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 2217			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	10	J	0.58	100
Beryllium	ND		0.47	1.0

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	102SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1708			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	0.85	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.2	J	2.0	10

Client: Waste Management

Job Number: 280-66872-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-66872-15

Client Matrix: Water

Date Sampled: 03/19/2015 0743

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0414			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chromium	10		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	1.5	J	1.3	50
Vanadium	7.7	J	1.1	25
Silver	1.3	J B	0.93	10

Analysis Method:	6010C	Analysis Batch:	280-269804	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26D032515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 2219			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	18	J	0.58	100
Beryllium	ND		0.47	1.0

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	103SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1712			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	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: 280-66872-1

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

Lab Sample ID: 280-66872-16FB

Client Matrix: Water

Date Sampled: 03/19/2015 0838

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0416			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	1.1	J B	0.93	10

Analysis Method:	6010C	Analysis Batch:	280-269804	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26D032515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 2222			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	1.0	J	0.58	100
Beryllium	ND		0.47	1.0

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	106SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1722			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.45	J	0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	0.077	J	0.050	5.5
Zinc	ND		2.0	10

Field Service / Mobile Lab

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-66872-1

Client Matrix: Water

Date Sampled: 03/18/2015 0722

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	751.48		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0522
Depth to water	5.50		ft	1.0	Field Sampling	280-269364	03/18/2015 0522
Groundwater Elevation	745.98		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0522
Field pH	6.45		SU	1.0	Field Sampling	280-269364	03/18/2015 0522
Field Conductivity	238		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 0522
Field Temperature	14.0		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 0522
Field Turbidity	2.7		NTU	1.0	Field Sampling	280-269364	03/18/2015 0522
Field Dissolved Oxygen	0.5		mg/L	1.0	Field Sampling	280-269364	03/18/2015 0522
Field EH/ORP	185		millivolts	1.0	Field Sampling	280-269364	03/18/2015 0522

Field Service / Mobile Lab

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-66872-2

Client Matrix: Water

Date Sampled: 03/18/2015 0757

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	751.48		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0557
Depth to water	6.08		ft	1.0	Field Sampling	280-269364	03/18/2015 0557
Groundwater Elevation	745.40		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0557
Field pH	6.11		SU	1.0	Field Sampling	280-269364	03/18/2015 0557
Field Conductivity	167		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 0557
Field Temperature	12.4		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 0557
Field Turbidity	8.3		NTU	1.0	Field Sampling	280-269364	03/18/2015 0557
Field Dissolved Oxygen	0.6		mg/L	1.0	Field Sampling	280-269364	03/18/2015 0557
Field EH/ORP	171		millivolts	1.0	Field Sampling	280-269364	03/18/2015 0557

Field Service / Mobile Lab

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-66872-3

Client Matrix: Water

Date Sampled: 03/18/2015 0939

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	823.93		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0739
Depth to water	45.71		ft	1.0	Field Sampling	280-269364	03/18/2015 0739
Groundwater Elevation	778.22		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0739
Field pH	5.87		SU	1.0	Field Sampling	280-269364	03/18/2015 0739
Field Conductivity	65		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 0739
Field Temperature	14.0		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 0739
Field Turbidity	3.2		NTU	1.0	Field Sampling	280-269364	03/18/2015 0739
Field Dissolved Oxygen	1.8		mg/L	1.0	Field Sampling	280-269364	03/18/2015 0739
Field EH/ORP	133		millivolts	1.0	Field Sampling	280-269364	03/18/2015 0739

Field Service / Mobile Lab

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-66872-4

Client Matrix: Water

Date Sampled: 03/18/2015 1022

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	800.87		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0822
Depth to water	24.17		ft	1.0	Field Sampling	280-269364	03/18/2015 0822
Groundwater Elevation	776.70		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0822
Field pH	5.18		SU	1.0	Field Sampling	280-269364	03/18/2015 0822
Field Conductivity	37		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 0822
Field Temperature	14.0		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 0822
Field Turbidity	1.6		NTU	1.0	Field Sampling	280-269364	03/18/2015 0822
Field Dissolved Oxygen	3.7		mg/L	1.0	Field Sampling	280-269364	03/18/2015 0822
Field EH/ORP	124		millivolts	1.0	Field Sampling	280-269364	03/18/2015 0822

Field Service / Mobile Lab

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-66872-5

Client Matrix: Water

Date Sampled: 03/18/2015 1223

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	756.92		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1023
Depth to water	12.73		ft	1.0	Field Sampling	280-269364	03/18/2015 1023
Groundwater Elevation	744.19		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1023
Field pH	5.48		SU	1.0	Field Sampling	280-269364	03/18/2015 1023
Field Conductivity	94		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 1023
Field Temperature	14.6		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 1023
Field Turbidity	3.5		NTU	1.0	Field Sampling	280-269364	03/18/2015 1023
Field Dissolved Oxygen	0.3		mg/L	1.0	Field Sampling	280-269364	03/18/2015 1023
Field EH/ORP	147		millivolts	1.0	Field Sampling	280-269364	03/18/2015 1023

Field Service / Mobile Lab

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-66872-6

Client Matrix: Water

Date Sampled: 03/18/2015 1153

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	757.33		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0953
Depth to water	13.20		ft	1.0	Field Sampling	280-269364	03/18/2015 0953
Groundwater Elevation	744.13		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 0953
Field pH	6.08		SU	1.0	Field Sampling	280-269364	03/18/2015 0953
Field Conductivity	125		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 0953
Field Temperature	15.0		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 0953
Field Turbidity	12.2		NTU	1.0	Field Sampling	280-269364	03/18/2015 0953
Field Dissolved Oxygen	4.4		mg/L	1.0	Field Sampling	280-269364	03/18/2015 0953
Field EH/ORP	128		millivolts	1.0	Field Sampling	280-269364	03/18/2015 0953

Field Service / Mobile Lab

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-66872-7

Client Matrix: Water

Date Sampled: 03/18/2015 1427

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	743.17		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1227
Depth to water	4.68		ft	1.0	Field Sampling	280-269364	03/18/2015 1227
Groundwater Elevation	738.49		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1227
Field pH	5.88		SU	1.0	Field Sampling	280-269364	03/18/2015 1227
Field Conductivity	353		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 1227
Field Temperature	12.7		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 1227
Field Turbidity	1.3		NTU	1.0	Field Sampling	280-269364	03/18/2015 1227
Field Dissolved Oxygen	0.5		mg/L	1.0	Field Sampling	280-269364	03/18/2015 1227
Field EH/ORP	104		millivolts	1.0	Field Sampling	280-269364	03/18/2015 1227

Field Service / Mobile Lab

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-66872-8

Client Matrix: Water

Date Sampled: 03/18/2015 1358

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	748.95		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1158
Depth to water	5.59		ft	1.0	Field Sampling	280-269364	03/18/2015 1158
Groundwater Elevation	743.36		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1158
Field pH	5.47		SU	1.0	Field Sampling	280-269364	03/18/2015 1158
Field Conductivity	105		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 1158
Field Temperature	9.3		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 1158
Field Turbidity	4.5		NTU	1.0	Field Sampling	280-269364	03/18/2015 1158
Field Dissolved Oxygen	3.4		mg/L	1.0	Field Sampling	280-269364	03/18/2015 1158
Field EH/ORP	144		millivolts	1.0	Field Sampling	280-269364	03/18/2015 1158

Field Service / Mobile Lab

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-66872-9

Client Matrix: Water

Date Sampled: 03/18/2015 1529

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	776.80		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1329
Depth to water	28.60		ft	1.0	Field Sampling	280-269364	03/18/2015 1329
Groundwater Elevation	748.20		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1329
Field pH	5.52		SU	1.0	Field Sampling	280-269364	03/18/2015 1329
Field Conductivity	178		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 1329
Field Temperature	15.0		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 1329
Field Turbidity	3.3		NTU	1.0	Field Sampling	280-269364	03/18/2015 1329
Field Dissolved Oxygen	0.9		mg/L	1.0	Field Sampling	280-269364	03/18/2015 1329
Field EH/ORP	154		millivolts	1.0	Field Sampling	280-269364	03/18/2015 1329

Field Service / Mobile Lab

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-66872-10

Client Matrix: Water

Date Sampled: 03/18/2015 1457

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	778.04		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1257
Depth to water	28.81		ft	1.0	Field Sampling	280-269364	03/18/2015 1257
Groundwater Elevation	749.23		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1257
Field pH	5.26		SU	1.0	Field Sampling	280-269364	03/18/2015 1257
Field Conductivity	179		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 1257
Field Temperature	14.7		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 1257
Field Turbidity	2.5		NTU	1.0	Field Sampling	280-269364	03/18/2015 1257
Field Dissolved Oxygen	2.4		mg/L	1.0	Field Sampling	280-269364	03/18/2015 1257
Field EH/ORP	181		millivolts	1.0	Field Sampling	280-269364	03/18/2015 1257

Field Service / Mobile Lab

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-66872-11

Client Matrix: Water

Date Sampled: 03/18/2015 1705

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	771.57		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1505
Depth to water	24.98		ft	1.0	Field Sampling	280-269364	03/18/2015 1505
Groundwater Elevation	746.59		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1505
Field pH	5.87		SU	1.0	Field Sampling	280-269364	03/18/2015 1505
Field Conductivity	135		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 1505
Field Temperature	15.2		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 1505
Field Turbidity	2.2		NTU	1.0	Field Sampling	280-269364	03/18/2015 1505
Field Dissolved Oxygen	4.9		mg/L	1.0	Field Sampling	280-269364	03/18/2015 1505
Field EH/ORP	138		millivolts	1.0	Field Sampling	280-269364	03/18/2015 1505

Field Service / Mobile Lab

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-66872-12

Client Matrix: Water

Date Sampled: 03/18/2015 1631

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	777.20		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1431
Depth to water	30.48		ft	1.0	Field Sampling	280-269364	03/18/2015 1431
Groundwater Elevation	746.72		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1431
Field pH	6.80		SU	1.0	Field Sampling	280-269364	03/18/2015 1431
Field Conductivity	125		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 1431
Field Temperature	15.7		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 1431
Field Turbidity	3.8		NTU	1.0	Field Sampling	280-269364	03/18/2015 1431
Field Dissolved Oxygen	3.0		mg/L	1.0	Field Sampling	280-269364	03/18/2015 1431
Field EH/ORP	138		millivolts	1.0	Field Sampling	280-269364	03/18/2015 1431

Field Service / Mobile Lab

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-66872-13

Client Matrix: Water

Date Sampled: 03/18/2015 1600

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	776.36		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1400
Depth to water	28.61		ft	1.0	Field Sampling	280-269364	03/18/2015 1400
Groundwater Elevation	747.75		ft/msl	1.0	Field Sampling	280-269364	03/18/2015 1400
Field pH	6.49		SU	1.0	Field Sampling	280-269364	03/18/2015 1400
Field Conductivity	77		umhos/cm	1.0	Field Sampling	280-269364	03/18/2015 1400
Field Temperature	14.6		Degrees C	1.0	Field Sampling	280-269364	03/18/2015 1400
Field Turbidity	4.6		NTU	1.0	Field Sampling	280-269364	03/18/2015 1400
Field Dissolved Oxygen	3.1		mg/L	1.0	Field Sampling	280-269364	03/18/2015 1400
Field EH/ORP	100		millivolts	1.0	Field Sampling	280-269364	03/18/2015 1400

Field Service / Mobile Lab

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-66872-14

Client Matrix: Water

Date Sampled: 03/19/2015 0818

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	764.95		ft/msl	1.0	Field Sampling	280-269364	03/19/2015 0618
Depth to water	26.23		ft	1.0	Field Sampling	280-269364	03/19/2015 0618
Groundwater Elevation	738.72		ft/msl	1.0	Field Sampling	280-269364	03/19/2015 0618
Field pH	6.02		SU	1.0	Field Sampling	280-269364	03/19/2015 0618
Field Conductivity	310		umhos/cm	1.0	Field Sampling	280-269364	03/19/2015 0618
Field Temperature	15.2		Degrees C	1.0	Field Sampling	280-269364	03/19/2015 0618
Field Turbidity	1.4		NTU	1.0	Field Sampling	280-269364	03/19/2015 0618
Field Dissolved Oxygen	1.0		mg/L	1.0	Field Sampling	280-269364	03/19/2015 0618
Field EH/ORP	-17		millivolts	1.0	Field Sampling	280-269364	03/19/2015 0618

Field Service / Mobile Lab

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-66872-15

Client Matrix: Water

Date Sampled: 03/19/2015 0743

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	770.08		ft/msl	1.0	Field Sampling	280-269364	03/19/2015 0543
Depth to water	25.73		ft	1.0	Field Sampling	280-269364	03/19/2015 0543
Groundwater Elevation	744.35		ft/msl	1.0	Field Sampling	280-269364	03/19/2015 0543
Field pH	5.89		SU	1.0	Field Sampling	280-269364	03/19/2015 0543
Field Conductivity	171		umhos/cm	1.0	Field Sampling	280-269364	03/19/2015 0543
Field Temperature	14.3		Degrees C	1.0	Field Sampling	280-269364	03/19/2015 0543
Field Turbidity	1.6		NTU	1.0	Field Sampling	280-269364	03/19/2015 0543
Field Dissolved Oxygen	4.7		mg/L	1.0	Field Sampling	280-269364	03/19/2015 0543
Field EH/ORP	178		millivolts	1.0	Field Sampling	280-269364	03/19/2015 0543

Field Service / Mobile Lab

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

Lab Sample ID: 280-66872-16FB

Client Matrix: Water

Date Sampled: 03/19/2015 0838

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	8.15		SU	1.0	Field Sampling	280-269364	03/19/2015 0638
Field Conductivity	5		umhos/cm	1.0	Field Sampling	280-269364	03/19/2015 0638
Field Temperature	14.3		Degrees C	1.0	Field Sampling	280-269364	03/19/2015 0638
Field Turbidity	0.0		NTU	1.0	Field Sampling	280-269364	03/19/2015 0638
Field Dissolved Oxygen	0.8		mg/L	1.0	Field Sampling	280-269364	03/19/2015 0638
Field EH/ORP	-32		millivolts	1.0	Field Sampling	280-269364	03/19/2015 0638

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-66872-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F2	MS/MSD RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
Metals		
	B	Compound was found in the blank and sample.
	F1	MS and/or MSD Recovery exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-66872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-269553					
LCS 280-269553/4	Lab Control Sample	T	Water	8260B	
MB 280-269553/5	Method Blank	T	Water	8260B	
280-66872-1	3406-MW12D	T	Water	8260B	
280-66872-1MS	Matrix Spike	T	Water	8260B	
280-66872-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-66872-2	3406-MW12	T	Water	8260B	
280-66872-2MS	Matrix Spike	T	Water	8260B	
280-66872-2MSD	Matrix Spike Duplicate	T	Water	8260B	
280-66872-3	3406-MW01	T	Water	8260B	
280-66872-4	3406-MW06	T	Water	8260B	
280-66872-5	3406-MW04	T	Water	8260B	
280-66872-6	3406-MW04D	T	Water	8260B	
280-66872-7	3406-MW05	T	Water	8260B	
280-66872-8	3406-MW08	T	Water	8260B	
280-66872-10	3406-MW02	T	Water	8260B	
280-66872-11	3406-MW07	T	Water	8260B	
280-66872-12	3406-MW10	T	Water	8260B	
280-66872-13	3406-MW11D	T	Water	8260B	
280-66872-16FB	3406-01FB	T	Water	8260B	
280-66872-17TB	TRIP BLANK	T	Water	8260B	
Analysis Batch:280-269715					
LCS 280-269715/4	Lab Control Sample	T	Water	8260B	
MB 280-269715/6	Method Blank	T	Water	8260B	
280-66870-B-1 MS	Matrix Spike	T	Water	8260B	
280-66870-B-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-66872-9	3406-MW11	T	Water	8260B	
280-66872-14	3406-MW09R	T	Water	8260B	
280-66872-15	3406-MW03	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-66872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-269170					
LCS 280-269170/2-A	Lab Control Sample	R	Water	3005A	
MB 280-269170/1-A	Method Blank	R	Water	3005A	
280-66872-1	3406-MW12D	R	Water	3005A	
280-66872-2	3406-MW12	R	Water	3005A	
280-66872-2MS	Matrix Spike	R	Water	3005A	
280-66872-2MSD	Matrix Spike Duplicate	R	Water	3005A	
280-66872-3	3406-MW01	R	Water	3005A	
280-66872-4	3406-MW06	R	Water	3005A	
280-66872-5	3406-MW04	R	Water	3005A	
280-66872-6	3406-MW04D	R	Water	3005A	
280-66872-7	3406-MW05	R	Water	3005A	
280-66872-8	3406-MW08	R	Water	3005A	
280-66872-9	3406-MW11	R	Water	3005A	
280-66872-10	3406-MW02	R	Water	3005A	
280-66872-11	3406-MW07	R	Water	3005A	
280-66872-12	3406-MW10	R	Water	3005A	
280-66872-13	3406-MW11D	R	Water	3005A	
280-66872-14	3406-MW09R	R	Water	3005A	
280-66872-15	3406-MW03	R	Water	3005A	
280-66872-15MS	Matrix Spike	R	Water	3005A	
280-66872-15MSD	Matrix Spike Duplicate	R	Water	3005A	
280-66872-16FB	3406-01FB	R	Water	3005A	

Client: Waste Management

Job Number: 280-66872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-269174					
LCS 280-269174/2-A	Lab Control Sample	R	Water	3005A	
MB 280-269174/1-A	Method Blank	R	Water	3005A	
280-66872-1	3406-MW12D	R	Water	3005A	
280-66872-1MS	Matrix Spike	R	Water	3005A	
280-66872-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-66872-2	3406-MW12	R	Water	3005A	
280-66872-3	3406-MW01	R	Water	3005A	
280-66872-4	3406-MW06	R	Water	3005A	
280-66872-5	3406-MW04	R	Water	3005A	
280-66872-6	3406-MW04D	R	Water	3005A	
280-66872-7	3406-MW05	R	Water	3005A	
280-66872-8	3406-MW08	R	Water	3005A	
280-66872-9	3406-MW11	R	Water	3005A	
280-66872-10	3406-MW02	R	Water	3005A	
280-66872-11	3406-MW07	R	Water	3005A	
280-66872-12	3406-MW10	R	Water	3005A	
280-66872-13	3406-MW11D	R	Water	3005A	
280-66872-14	3406-MW09R	R	Water	3005A	
280-66872-15	3406-MW03	R	Water	3005A	
280-66872-16FB	3406-01FB	R	Water	3005A	
280-66872-16MS	Matrix Spike	R	Water	3005A	
280-66872-16MSD	Matrix Spike Duplicate	R	Water	3005A	

Client: Waste Management

Job Number: 280-66872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-269605					
LCS 280-269170/2-A	Lab Control Sample	R	Water	6020A	280-269170
MB 280-269170/1-A	Method Blank	R	Water	6020A	280-269170
280-66872-1	3406-MW12D	R	Water	6020A	280-269170
280-66872-2	3406-MW12	R	Water	6020A	280-269170
280-66872-2MS	Matrix Spike	R	Water	6020A	280-269170
280-66872-2MSD	Matrix Spike Duplicate	R	Water	6020A	280-269170
280-66872-3	3406-MW01	R	Water	6020A	280-269170
280-66872-4	3406-MW06	R	Water	6020A	280-269170
280-66872-5	3406-MW04	R	Water	6020A	280-269170
280-66872-6	3406-MW04D	R	Water	6020A	280-269170
280-66872-7	3406-MW05	R	Water	6020A	280-269170
280-66872-8	3406-MW08	R	Water	6020A	280-269170
280-66872-9	3406-MW11	R	Water	6020A	280-269170
280-66872-10	3406-MW02	R	Water	6020A	280-269170
280-66872-11	3406-MW07	R	Water	6020A	280-269170
280-66872-12	3406-MW10	R	Water	6020A	280-269170
280-66872-13	3406-MW11D	R	Water	6020A	280-269170
280-66872-14	3406-MW09R	R	Water	6020A	280-269170
280-66872-15	3406-MW03	R	Water	6020A	280-269170
280-66872-15MS	Matrix Spike	R	Water	6020A	280-269170
280-66872-15MSD	Matrix Spike Duplicate	R	Water	6020A	280-269170
280-66872-16FB	3406-01FB	R	Water	6020A	280-269170

Client: Waste Management

Job Number: 280-66872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-269636					
LCS 280-269174/2-A	Lab Control Sample	R	Water	6010C	280-269174
MB 280-269174/1-A	Method Blank	R	Water	6010C	280-269174
280-66872-1	3406-MW12D	R	Water	6010C	280-269174
280-66872-1MS	Matrix Spike	R	Water	6010C	280-269174
280-66872-1MSD	Matrix Spike Duplicate	R	Water	6010C	280-269174
280-66872-2	3406-MW12	R	Water	6010C	280-269174
280-66872-3	3406-MW01	R	Water	6010C	280-269174
280-66872-4	3406-MW06	R	Water	6010C	280-269174
280-66872-5	3406-MW04	R	Water	6010C	280-269174
280-66872-6	3406-MW04D	R	Water	6010C	280-269174
280-66872-7	3406-MW05	R	Water	6010C	280-269174
280-66872-8	3406-MW08	R	Water	6010C	280-269174
280-66872-9	3406-MW11	R	Water	6010C	280-269174
280-66872-10	3406-MW02	R	Water	6010C	280-269174
280-66872-11	3406-MW07	R	Water	6010C	280-269174
280-66872-12	3406-MW10	R	Water	6010C	280-269174
280-66872-13	3406-MW11D	R	Water	6010C	280-269174
280-66872-14	3406-MW09R	R	Water	6010C	280-269174
280-66872-15	3406-MW03	R	Water	6010C	280-269174
280-66872-16FB	3406-01FB	R	Water	6010C	280-269174
280-66872-16MS	Matrix Spike	R	Water	6010C	280-269174
280-66872-16MSD	Matrix Spike Duplicate	R	Water	6010C	280-269174
Analysis Batch:280-269804					
280-66872-14	3406-MW09R	R	Water	6010C	280-269174
280-66872-15	3406-MW03	R	Water	6010C	280-269174
280-66872-16FB	3406-01FB	R	Water	6010C	280-269174
280-66872-16MS	Matrix Spike	R	Water	6010C	280-269174
280-66872-16MSD	Matrix Spike Duplicate	R	Water	6010C	280-269174

Report Basis

R = Total Recoverable

Client: Waste Management

Job Number: 280-66872-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-269364					
280-66872-1	3406-MW12D	T	Water	Field Sampling	
280-66872-2	3406-MW12	T	Water	Field Sampling	
280-66872-3	3406-MW01	T	Water	Field Sampling	
280-66872-4	3406-MW06	T	Water	Field Sampling	
280-66872-5	3406-MW04	T	Water	Field Sampling	
280-66872-6	3406-MW04D	T	Water	Field Sampling	
280-66872-7	3406-MW05	T	Water	Field Sampling	
280-66872-8	3406-MW08	T	Water	Field Sampling	
280-66872-9	3406-MW11	T	Water	Field Sampling	
280-66872-10	3406-MW02	T	Water	Field Sampling	
280-66872-11	3406-MW07	T	Water	Field Sampling	
280-66872-12	3406-MW10	T	Water	Field Sampling	
280-66872-13	3406-MW11D	T	Water	Field Sampling	
280-66872-14	3406-MW09R	T	Water	Field Sampling	
280-66872-15	3406-MW03	T	Water	Field Sampling	
280-66872-16FB	3406-01FB	T	Water	Field Sampling	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-66872-1

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
280-66872-1	3406-MW12D	118	102	120	111
280-66872-2	3406-MW12	119	102	120	108
280-66872-3	3406-MW01	123	101	123X	110
280-66872-4	3406-MW06	116	97	118	107
280-66872-5	3406-MW04	109	98	114	111
280-66872-6	3406-MW04D	113	103	115	105
280-66872-7	3406-MW05	123	109	125X	119
280-66872-8	3406-MW08	151X	135X	152X	146X
280-66872-9	3406-MW11	110	98	106	99
280-66872-10	3406-MW02	123	107	127X	113
280-66872-11	3406-MW07	122	112	124X	115
280-66872-12	3406-MW10	121	106	123X	116
280-66872-13	3406-MW11D	120	108	122X	116
280-66872-14	3406-MW09R	110	95	105	98
280-66872-15	3406-MW03	110	98	106	100
280-66872-16	3406-01FB	120	107	120	114
280-66872-17	TRIP BLANK	125	111	126X	113
MB 280-269553/5		119	108	119	114
MB 280-269715/6		110	101	107	100
LCS 280-269553/4		103	89	103	104
LCS 280-269715/4		114	103	108	110
280-66872-1 MS	3406-MW12D MS	103	90	104	104
280-66872-2 MS	3406-MW12 MS	111	100	111	109
280-66870-B-1 MS		108	95	103	110
280-66872-1 MSD	3406-MW12D MSD	112	96	112	111
280-66872-2 MSD	3406-MW12 MSD	112	99	114	114
280-66870-B-1 MSD		108	100	103	105

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: 280-66872-1

Method Blank - Batch: 280-269553

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-269553/5	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R4114.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2139	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2139				
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	0.432	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: 280-66872-1

Method Blank - Batch: 280-269553

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-269553/5	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R4114.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2139	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2139				
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)	119	70 - 127
4-Bromofluorobenzene (Surr)	108	78 - 120
Dibromofluoromethane (Surr)	119	77 - 120
Toluene-d8 (Surr)	114	80 - 125

Lab Control Sample - Batch: 280-269553

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-269553/4	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R4113.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2120	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2120				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	5.61	112	65 - 135	
1,1-Dichloroethane	5.00	5.65	113	65 - 135	
1,1-Dichloroethene	5.00	5.33	107	65 - 136	
1,2-Dichloropropane	5.00	5.25	105	64 - 135	
1,3-Dichlorobenzene	5.00	4.96	99	65 - 135	
Benzene	5.00	5.17	103	65 - 135	
Bromodichloromethane	5.00	4.93	99	65 - 135	
Carbon tetrachloride	5.00	5.81	116	65 - 135	
Chlorobenzene	5.00	4.84	97	65 - 135	
Chloroform	5.00	5.29	106	65 - 135	
Ethylbenzene	5.00	4.98	100	65 - 135	
Methylene Chloride	5.00	5.64	113	54 - 141	
Tetrachloroethene	5.00	5.16	103	65 - 135	
Toluene	5.00	5.45	109	65 - 135	
trans-1,2-Dichloroethene	5.00	5.62	112	65 - 135	
Trichloroethene	5.00	5.29	106	65 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 127
4-Bromofluorobenzene (Surr)	89	78 - 120
Dibromofluoromethane (Surr)	103	77 - 120
Toluene-d8 (Surr)	104	80 - 125

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269553

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66872-1	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R4120.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/24/2015 2348			Final Weight/Volume:	20 mL
Prep Date:	03/24/2015 2348				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-1	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R4121.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0008			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0008				20 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	113	118	65 - 135	4	20		
1,1-Dichloroethane	111	120	65 - 135	7	21		
1,1-Dichloroethene	106	111	65 - 136	4	20		
1,2-Dichloropropane	101	110	64 - 135	8	20		
1,3-Dichlorobenzene	99	104	65 - 135	5	20		
Benzene	103	109	65 - 135	5	20		
Bromodichloromethane	96	104	65 - 135	8	20		
Carbon tetrachloride	118	122	65 - 135	3	21		
Chlorobenzene	97	102	65 - 135	5	20		
Chloroform	105	112	65 - 135	7	20		
Ethylbenzene	98	104	65 - 135	5	20		
Methylene Chloride	99	108	54 - 141	9	26		
Tetrachloroethene	102	107	65 - 135	4	20		
Toluene	108	113	65 - 135	4	20		
trans-1,2-Dichloroethene	109	116	65 - 135	6	24		
Trichloroethene	104	109	65 - 135	5	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	112	70 - 127
4-Bromofluorobenzene (Surr)	90	96	78 - 120
Dibromofluoromethane (Surr)	104	112	77 - 120
Toluene-d8 (Surr)	104	111	80 - 125

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269553

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66872-2	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R4122.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0028			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0028				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-2	Analysis Batch:	280-269553	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R4123.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 0047			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 0047				20 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	114	119	65 - 135	5	20		
1,1-Dichloroethane	117	122	65 - 135	5	21		
1,1-Dichloroethene	110	116	65 - 136	5	20		
1,2-Dichloropropane	107	113	64 - 135	5	20		
1,3-Dichlorobenzene	106	107	65 - 135	1	20		
Benzene	108	111	65 - 135	3	20		
Bromodichloromethane	106	107	65 - 135	2	20		
Carbon tetrachloride	118	123	65 - 135	4	21		
Chlorobenzene	101	103	65 - 135	2	20		
Chloroform	109	114	65 - 135	5	20		
Ethylbenzene	102	104	65 - 135	2	20		
Methylene Chloride	104	111	54 - 141	6	26		
Tetrachloroethene	102	107	65 - 135	5	20		
Toluene	115	120	65 - 135	4	20		
trans-1,2-Dichloroethene	113	118	65 - 135	4	24		
Trichloroethene	109	109	65 - 135	0	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111	112	70 - 127
4-Bromofluorobenzene (Surr)	100	99	78 - 120
Dibromofluoromethane (Surr)	111	114	77 - 120
Toluene-d8 (Surr)	109	114	80 - 125

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269553

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66872-1	Units: ug/L		MSD Lab Sample ID:	280-66872-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/24/2015 2348			Analysis Date:	03/25/2015 0008
Prep Date:	03/24/2015 2348			Prep Date:	03/25/2015 0008
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	5.67	5.89
1,1-Dichloroethane	ND	5.00	5.00	5.57	5.99
1,1-Dichloroethene	ND	5.00	5.00	5.31	5.55
1,2-Dichloropropane	ND	5.00	5.00	5.07	5.48
1,3-Dichlorobenzene	ND	5.00	5.00	4.95	5.19
Benzene	ND	5.00	5.00	5.14	5.43
Bromodichloromethane	ND	5.00	5.00	4.82	5.20
Carbon tetrachloride	ND	5.00	5.00	5.92	6.12
Chlorobenzene	ND	5.00	5.00	4.86	5.09
Chloroform	ND	5.00	5.00	5.23	5.59
Ethylbenzene	ND	5.00	5.00	4.92	5.18
Methylene Chloride	ND	5.00	5.00	4.93	5.41
Tetrachloroethene	ND	5.00	5.00	5.11	5.33
Toluene	ND	5.00	5.00	5.42	5.66
trans-1,2-Dichloroethene	ND	5.00	5.00	5.46	5.82
Trichloroethene	ND	5.00	5.00	5.20	5.47

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269553

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66872-2	Units: ug/L		MSD Lab Sample ID:	280-66872-2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/25/2015 0028			Analysis Date:	03/25/2015 0047
Prep Date:	03/25/2015 0028			Prep Date:	03/25/2015 0047
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	5.70	5.97
1,1-Dichloroethane	ND	5.00	5.00	5.83	6.12
1,1-Dichloroethene	ND	5.00	5.00	5.52	5.80
1,2-Dichloropropane	ND	5.00	5.00	5.37	5.64
1,3-Dichlorobenzene	ND	5.00	5.00	5.28	5.33
Benzene	ND	5.00	5.00	5.39	5.57
Bromodichloromethane	ND	5.00	5.00	5.28	5.37
Carbon tetrachloride	ND	5.00	5.00	5.88	6.14
Chlorobenzene	ND	5.00	5.00	5.07	5.17
Chloroform	ND	5.00	5.00	5.44	5.72
Ethylbenzene	ND	5.00	5.00	5.11	5.20
Methylene Chloride	ND	5.00	5.00	5.20	5.53
Tetrachloroethene	ND	5.00	5.00	5.12	5.37
Toluene	ND	5.00	5.00	5.75	5.98
trans-1,2-Dichloroethene	ND	5.00	5.00	5.66	5.89
Trichloroethene	ND	5.00	5.00	5.47	5.47

Client: Waste Management

Job Number: 280-66872-1

Method Blank - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-269715/6	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0497.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2055	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2055				
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: 280-66872-1

Method Blank - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-269715/6	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0497.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2055	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2055				
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)	110	70 - 127
4-Bromofluorobenzene (Surr)	101	78 - 120
Dibromofluoromethane (Surr)	107	77 - 120
Toluene-d8 (Surr)	100	80 - 125

Lab Control Sample - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-269715/4	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0495.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2010	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2010				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	5.82	116	65 - 135	
1,1-Dichloroethane	5.00	5.55	111	65 - 135	
1,1-Dichloroethene	5.00	5.10	102	65 - 136	
1,2-Dichloropropane	5.00	5.32	106	64 - 135	
1,3-Dichlorobenzene	5.00	4.76	95	65 - 135	
Benzene	5.00	5.12	102	65 - 135	
Bromodichloromethane	5.00	5.38	108	65 - 135	
Carbon tetrachloride	5.00	5.54	111	65 - 135	
Chlorobenzene	5.00	4.85	97	65 - 135	
Chloroform	5.00	5.57	111	65 - 135	
Ethylbenzene	5.00	4.82	96	65 - 135	
Methylene Chloride	5.00	4.94	99	54 - 141	
Tetrachloroethene	5.00	5.07	101	65 - 135	
Toluene	5.00	5.11	102	65 - 135	
trans-1,2-Dichloroethene	5.00	5.24	105	65 - 135	
Trichloroethene	5.00	5.37	107	65 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114	70 - 127
4-Bromofluorobenzene (Surr)	103	78 - 120
Dibromofluoromethane (Surr)	108	77 - 120
Toluene-d8 (Surr)	110	80 - 125

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269715

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66870-B-1 MS	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0499.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2140			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2140				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-66870-B-1 MSD	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0500.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2203			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2203				20 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	124	109	65 - 135	13	20		
1,1-Dichloroethane	119	105	65 - 135	12	21		
1,1-Dichloroethene	108	94	65 - 136	14	20		J
1,2-Dichloropropane	109	100	64 - 135	8	20		
1,3-Dichlorobenzene	98	87	65 - 135	11	20		
Benzene	109	97	65 - 135	11	20		
Bromodichloromethane	115	107	65 - 135	7	20		
Carbon tetrachloride	116	106	65 - 135	9	21		
Chlorobenzene	103	90	65 - 135	14	20		
Chloroform	116	107	65 - 135	8	20		
Ethylbenzene	104	91	65 - 135	13	20		
Methylene Chloride	98	88	54 - 141	11	26		
Tetrachloroethene	108	93	65 - 135	15	20		
Toluene	107	99	65 - 135	8	20		
trans-1,2-Dichloroethene	112	100	65 - 135	11	24		
Trichloroethene	113	103	65 - 135	10	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108	108	70 - 127
4-Bromofluorobenzene (Surr)	95	100	78 - 120
Dibromofluoromethane (Surr)	103	103	77 - 120
Toluene-d8 (Surr)	110	105	80 - 125

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269715

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66870-B-1 MS	Units:	ug/L	MSD Lab Sample ID:	280-66870-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/25/2015 2140			Analysis Date:	03/25/2015 2203
Prep Date:	03/25/2015 2140			Prep Date:	03/25/2015 2203
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	6.22	5.47	
1,1-Dichloroethane	ND	5.00	5.00	5.95	5.27	
1,1-Dichloroethene	ND	5.00	5.00	5.41	4.72	J
1,2-Dichloropropane	ND	5.00	5.00	5.46	5.02	
1,3-Dichlorobenzene	ND	5.00	5.00	4.88	4.35	
Benzene	ND	5.00	5.00	5.43	4.87	
Bromodichloromethane	ND	5.00	5.00	5.75	5.37	
Carbon tetrachloride	ND	5.00	5.00	5.78	5.30	
Chlorobenzene	ND	5.00	5.00	5.17	4.51	
Chloroform	ND	5.00	5.00	5.81	5.36	
Ethylbenzene	ND	5.00	5.00	5.18	4.55	
Methylene Chloride	ND	5.00	5.00	4.91	4.38	
Tetrachloroethene	ND	5.00	5.00	5.39	4.64	
Toluene	ND	5.00	5.00	5.34	4.93	
trans-1,2-Dichloroethene	ND	5.00	5.00	5.59	5.02	
Trichloroethene	ND	5.00	5.00	5.66	5.13	

Client: Waste Management

Job Number: 280-66872-1

Method Blank - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-269174/1-A	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0244	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
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	1.82	J	0.93	10

Lab Control Sample - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-269174/2-A	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0246	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	1930	96	90 - 112	
Beryllium	50.0	48.1	96	89 - 113	
Chromium	200	190	95	90 - 113	
Cobalt	500	488	98	89 - 111	
Lead	500	503	101	89 - 110	
Nickel	500	472	94	89 - 111	
Vanadium	500	489	98	90 - 111	
Silver	50.0	55.3	111	86 - 115	

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-1	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0314			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-1	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0316			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	96	97	85 - 120	1	20		
Beryllium	95	97	79 - 121	1	20		
Chromium	94	95	73 - 135	1	20		
Cobalt	95	96	82 - 119	1	20		
Lead	97	98	89 - 121	1	20		
Nickel	93	94	84 - 120	1	20		
Vanadium	96	98	85 - 120	1	20		
Silver	106	108	75 - 141	2	20		

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-16	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0419			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-16	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0421			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium	99	97	73 - 135	2	20		
Cobalt	100	97	82 - 119	3	20		
Lead	102	99	89 - 121	3	20		
Nickel	98	96	84 - 120	3	20		
Vanadium	100	97	85 - 120	3	20		
Silver	109	105	75 - 141	4	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-16	Analysis Batch:	280-269804	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26D032515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 2225			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-16	Analysis Batch:	280-269804	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26D032515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 2227			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	100	98	85 - 120	2	20		
Beryllium	101	99	79 - 121	2	20		

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-1	Units:	ug/L	MSD Lab Sample ID:	280-66872-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/25/2015 0314			Analysis Date:	03/25/2015 0316
Prep Date:	03/24/2015 0800			Prep Date:	03/24/2015 0800
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	6.3	J	2000	2000	1920	1940
Beryllium	ND		50.0	50.0	47.6	48.3
Chromium	1.0	J	200	200	189	190
Cobalt	ND		500	500	477	482
Lead	ND		500	500	487	491
Nickel	ND		500	500	464	468
Vanadium	2.0	J	500	500	484	490
Silver	1.4	J	50.0	50.0	54.2	55.1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-16	Units:	ug/L	MSD Lab Sample ID:	280-66872-16
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/25/2015 0419			Analysis Date:	03/25/2015 0421
Prep Date:	03/24/2015 0800			Prep Date:	03/24/2015 0800
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chromium	ND		200	200	198	193
Cobalt	ND		500	500	500	487
Lead	ND		500	500	510	497
Nickel	ND		500	500	491	478
Vanadium	ND		500	500	498	485
Silver	1.1	J	50.0	50.0	55.6	53.6

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-16	Units:	ug/L	MSD Lab Sample ID:	280-66872-16
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/25/2015 2225			Analysis Date:	03/25/2015 2227
Prep Date:	03/24/2015 0800			Prep Date:	03/24/2015 0800
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	1.0	J	2000	2000	2000	1950
Beryllium	ND		50.0	50.0	50.4	49.3

Client: Waste Management

Job Number: 280-66872-1

Method Blank - Batch: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-269170/1-A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	070_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1509	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	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: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-269170/2-A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	071_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1513	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	35.4	89	85 - 115	
Arsenic	40.0	38.6	96	85 - 117	
Cadmium	40.0	40.1	100	85 - 115	
Copper	40.0	38.9	97	85 - 119	
Selenium	40.0	41.1	103	77 - 122	
Thallium	40.0	41.0	103	85 - 118	
Zinc	40.0	41.8	105	83 - 122	

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-2	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	082SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1553			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-2	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	083SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1557			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	77	82	85 - 115	6	20	F1	F1
Arsenic	97	98	85 - 117	2	20		
Cadmium	97	96	85 - 115	1	20		
Copper	99	98	85 - 119	0	20		
Selenium	102	99	77 - 122	2	20		
Thallium	100	101	85 - 118	0	20		
Zinc	102	103	83 - 122	1	20		

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-15	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	104SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1715			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-15	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	105SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1719			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	100	98	85 - 115	3	20		
Arsenic	96	98	85 - 117	2	20		
Cadmium	98	93	85 - 115	5	20		
Copper	97	98	85 - 119	1	20		
Selenium	96	95	77 - 122	2	20		
Thallium	102	101	85 - 118	1	20		
Zinc	101	97	83 - 122	5	20		

Client: Waste Management

Job Number: 280-66872-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-2	Units:	ug/L	MSD Lab Sample ID:	280-66872-2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/24/2015 1553			Analysis Date:	03/24/2015 1557
Prep Date:	03/24/2015 0800			Prep Date:	03/24/2015 0800
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	30.8	F1	32.8	F1
Arsenic	ND		40.0	40.0	38.6		39.3	
Cadmium	ND		40.0	40.0	38.7		38.3	
Copper	1.0	J	40.0	40.0	40.6		40.4	
Selenium	ND		40.0	40.0	40.6		39.7	
Thallium	ND		40.0	40.0	40.1		40.2	
Zinc	3.0	J	40.0	40.0	43.7		44.1	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-15	Units:	ug/L	MSD Lab Sample ID:	280-66872-15
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/24/2015 1715			Analysis Date:	03/24/2015 1719
Prep Date:	03/24/2015 0800			Prep Date:	03/24/2015 0800
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	40.0	39.0
Arsenic	ND	40.0	40.0	38.5	39.3
Cadmium	ND	40.0	40.0	39.2	37.3
Copper	ND	40.0	40.0	38.9	39.4
Selenium	ND	40.0	40.0	38.5	37.8
Thallium	ND	40.0	40.0	40.8	40.4
Zinc	ND	40.0	40.0	40.4	38.6

Client: Waste Management

Job Number: 280-66872-1

Laboratory Chronicle

Lab ID: 280-66872-1 **Client ID:** 3406-MW12D

Sample Date/Time: 03/18/2015 07:22 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-C-1		280-269553		03/24/2015 21:59	1	TAL DEN	JNL
A:8260B	280-66872-C-1		280-269553		03/24/2015 21:59	1	TAL DEN	JNL
P:3005A	280-66872-A-1-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-1-B		280-269636	280-269174	03/25/2015 03:09	1	TAL DEN	CRR
P:3005A	280-66872-A-1-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-1-A		280-269605	280-269170	03/24/2015 15:31	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-1		280-269364		03/18/2015 05:22	1	TAL DEN	TP

Lab ID: 280-66872-1 MS **Client ID:** 3406-MW12D

Sample Date/Time: 03/18/2015 07:22 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-D-1 MS		280-269553		03/24/2015 23:48	1	TAL DEN	JNL
A:8260B	280-66872-D-1 MS		280-269553		03/24/2015 23:48	1	TAL DEN	JNL
P:3005A	280-66872-A-1-C MS		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-1-C MS		280-269636	280-269174	03/25/2015 03:14	1	TAL DEN	CRR

Lab ID: 280-66872-1 MSD **Client ID:** 3406-MW12D

Sample Date/Time: 03/18/2015 07:22 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-D-1 MSD		280-269553		03/25/2015 00:08	1	TAL DEN	JNL
A:8260B	280-66872-D-1 MSD		280-269553		03/25/2015 00:08	1	TAL DEN	JNL
P:3005A	280-66872-A-1-D MSD		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-1-D MSD		280-269636	280-269174	03/25/2015 03:16	1	TAL DEN	CRR

Lab ID: 280-66872-2 **Client ID:** 3406-MW12

Sample Date/Time: 03/18/2015 07:57 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-2		280-269553		03/24/2015 22:19	1	TAL DEN	JNL
A:8260B	280-66872-B-2		280-269553		03/24/2015 22:19	1	TAL DEN	JNL
P:3005A	280-66872-A-2-D		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-2-D		280-269636	280-269174	03/25/2015 03:31	1	TAL DEN	CRR
P:3005A	280-66872-A-2-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-2-A		280-269605	280-269170	03/24/2015 15:46	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-2		280-269364		03/18/2015 05:57	1	TAL DEN	TP

Client: Waste Management

Job Number: 280-66872-1

Laboratory Chronicle

Lab ID: **280-66872-2 MS** **Client ID:** **3406-MW12**

Sample Date/Time: 03/18/2015 07:57 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-C-2 MS		280-269553		03/25/2015 00:28	1	TAL DEN	JNL
A:8260B	280-66872-C-2 MS		280-269553		03/25/2015 00:28	1	TAL DEN	JNL
P:3005A	280-66872-A-2-B MS		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-2-B MS		280-269605	280-269170	03/24/2015 15:53	1	TAL DEN	LMT

Lab ID: **280-66872-2 MSD** **Client ID:** **3406-MW12**

Sample Date/Time: 03/18/2015 07:57 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-2 MSD		280-269553		03/25/2015 00:47	1	TAL DEN	JNL
A:8260B	280-66872-B-2 MSD		280-269553		03/25/2015 00:47	1	TAL DEN	JNL
P:3005A	280-66872-A-2-C MSD		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-2-C MSD		280-269605	280-269170	03/24/2015 15:57	1	TAL DEN	LMT

Lab ID: **280-66872-3** **Client ID:** **3406-MW01**

Sample Date/Time: 03/18/2015 09:39 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-3		280-269553		03/24/2015 22:39	1	TAL DEN	JNL
A:8260B	280-66872-B-3		280-269553		03/24/2015 22:39	1	TAL DEN	JNL
P:3005A	280-66872-A-3-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-3-B		280-269636	280-269174	03/25/2015 03:33	1	TAL DEN	CRR
P:3005A	280-66872-A-3-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-3-A		280-269605	280-269170	03/24/2015 16:04	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-3		280-269364		03/18/2015 07:39	1	TAL DEN	TP

Lab ID: **280-66872-4** **Client ID:** **3406-MW06**

Sample Date/Time: 03/18/2015 10:22 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-4		280-269553		03/24/2015 22:59	1	TAL DEN	JNL
A:8260B	280-66872-B-4		280-269553		03/24/2015 22:59	1	TAL DEN	JNL
P:3005A	280-66872-A-4-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-4-B		280-269636	280-269174	03/25/2015 03:36	1	TAL DEN	CRR
P:3005A	280-66872-A-4-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-4-A		280-269605	280-269170	03/24/2015 16:21	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-4		280-269364		03/18/2015 08:22	1	TAL DEN	TP

Client: Waste Management

Job Number: 280-66872-1

Laboratory Chronicle

Lab ID: 280-66872-5 **Client ID:** 3406-MW04

Sample Date/Time: 03/18/2015 12:23 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-5		280-269553		03/25/2015 01:07	1	TAL DEN	JNL
A:8260B	280-66872-B-5		280-269553		03/25/2015 01:07	1	TAL DEN	JNL
P:3005A	280-66872-A-5-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-5-B		280-269636	280-269174	03/25/2015 03:38	1	TAL DEN	CRR
P:3005A	280-66872-A-5-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-5-A		280-269605	280-269170	03/24/2015 16:24	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-5		280-269364		03/18/2015 10:23	1	TAL DEN	TP

Lab ID: 280-66872-6 **Client ID:** 3406-MW04D

Sample Date/Time: 03/18/2015 11:53 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-C-6		280-269553		03/25/2015 01:26	1	TAL DEN	JNL
A:8260B	280-66872-C-6		280-269553		03/25/2015 01:26	1	TAL DEN	JNL
P:3005A	280-66872-A-6-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-6-B		280-269636	280-269174	03/25/2015 03:41	1	TAL DEN	CRR
P:3005A	280-66872-A-6-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-6-A		280-269605	280-269170	03/24/2015 16:28	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-6		280-269364		03/18/2015 09:53	1	TAL DEN	TP

Lab ID: 280-66872-7 **Client ID:** 3406-MW05

Sample Date/Time: 03/18/2015 14:27 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-7		280-269553		03/25/2015 01:46	1	TAL DEN	JNL
A:8260B	280-66872-B-7		280-269553		03/25/2015 01:46	1	TAL DEN	JNL
P:3005A	280-66872-A-7-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-7-B		280-269636	280-269174	03/25/2015 03:43	1	TAL DEN	CRR
P:3005A	280-66872-A-7-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-7-A		280-269605	280-269170	03/24/2015 16:32	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-7		280-269364		03/18/2015 12:27	1	TAL DEN	TP

Client: Waste Management

Job Number: 280-66872-1

Laboratory Chronicle

Lab ID: 280-66872-8 **Client ID:** 3406-MW08

Sample Date/Time: 03/18/2015 13:58 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-8		280-269553		03/25/2015 02:05	1	TAL DEN	JNL
A:8260B	280-66872-B-8		280-269553		03/25/2015 02:05	1	TAL DEN	JNL
P:3005A	280-66872-A-8-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-8-B		280-269636	280-269174	03/25/2015 03:46	1	TAL DEN	CRR
P:3005A	280-66872-A-8-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-8-A		280-269605	280-269170	03/24/2015 16:35	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-8		280-269364		03/18/2015 11:58	1	TAL DEN	TP

Lab ID: 280-66872-9 **Client ID:** 3406-MW11

Sample Date/Time: 03/18/2015 15:29 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-C-9		280-269715		03/25/2015 23:54	1	TAL DEN	BBB
A:8260B	280-66872-C-9		280-269715		03/25/2015 23:54	1	TAL DEN	BBB
P:3005A	280-66872-A-9-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-9-B		280-269636	280-269174	03/25/2015 03:49	1	TAL DEN	CRR
P:3005A	280-66872-A-9-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-9-A		280-269605	280-269170	03/24/2015 16:39	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-9		280-269364		03/18/2015 13:29	1	TAL DEN	TP

Lab ID: 280-66872-10 **Client ID:** 3406-MW02

Sample Date/Time: 03/18/2015 14:57 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-10		280-269553		03/25/2015 02:45	1	TAL DEN	JNL
A:8260B	280-66872-B-10		280-269553		03/25/2015 02:45	1	TAL DEN	JNL
P:3005A	280-66872-A-10-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-10-B		280-269636	280-269174	03/25/2015 03:51	1	TAL DEN	CRR
P:3005A	280-66872-A-10-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-10-A		280-269605	280-269170	03/24/2015 16:42	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-10		280-269364		03/18/2015 12:57	1	TAL DEN	TP

Client: Waste Management

Job Number: 280-66872-1

Laboratory Chronicle

Lab ID: **280-66872-11** **Client ID:** **3406-MW07**

Sample Date/Time: 03/18/2015 17:05 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-C-11		280-269553		03/25/2015 03:05	1	TAL DEN	JNL
A:8260B	280-66872-C-11		280-269553		03/25/2015 03:05	1	TAL DEN	JNL
P:3005A	280-66872-A-11-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-11-B		280-269636	280-269174	03/25/2015 03:54	1	TAL DEN	CRR
P:3005A	280-66872-A-11-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-11-A		280-269605	280-269170	03/24/2015 16:57	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-11		280-269364		03/18/2015 15:05	1	TAL DEN	TP

Lab ID: **280-66872-12** **Client ID:** **3406-MW10**

Sample Date/Time: 03/18/2015 16:31 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-12		280-269553		03/25/2015 03:24	1	TAL DEN	JNL
A:8260B	280-66872-B-12		280-269553		03/25/2015 03:24	1	TAL DEN	JNL
P:3005A	280-66872-A-12-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-12-B		280-269636	280-269174	03/25/2015 04:06	1	TAL DEN	CRR
P:3005A	280-66872-A-12-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-12-A		280-269605	280-269170	03/24/2015 17:01	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-12		280-269364		03/18/2015 14:31	1	TAL DEN	TP

Lab ID: **280-66872-13** **Client ID:** **3406-MW11D**

Sample Date/Time: 03/18/2015 16:00 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-13		280-269553		03/25/2015 03:44	1	TAL DEN	JNL
A:8260B	280-66872-B-13		280-269553		03/25/2015 03:44	1	TAL DEN	JNL
P:3005A	280-66872-A-13-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-13-B		280-269636	280-269174	03/25/2015 04:09	1	TAL DEN	CRR
P:3005A	280-66872-A-13-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-13-A		280-269605	280-269170	03/24/2015 17:04	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-13		280-269364		03/18/2015 14:00	1	TAL DEN	TP

Client: Waste Management

Job Number: 280-66872-1

Laboratory Chronicle

Lab ID: **280-66872-14** **Client ID:** **3406-MW09R**

Sample Date/Time: 03/19/2015 08:18 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-C-14		280-269715		03/26/2015 00:16	1	TAL DEN	BBB
A:8260B	280-66872-C-14		280-269715		03/26/2015 00:16	1	TAL DEN	BBB
P:3005A	280-66872-A-14-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-14-B		280-269636	280-269174	03/25/2015 04:11	1	TAL DEN	CRR
P:3005A	280-66872-A-14-B		280-269804	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-14-B		280-269804	280-269174	03/25/2015 22:17	1	TAL DEN	CRR
P:3005A	280-66872-A-14-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-14-A		280-269605	280-269170	03/24/2015 17:08	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-14		280-269364		03/19/2015 06:18	1	TAL DEN	TP

Lab ID: **280-66872-15** **Client ID:** **3406-MW03**

Sample Date/Time: 03/19/2015 07:43 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-C-15		280-269715		03/26/2015 00:39	1	TAL DEN	BBB
A:8260B	280-66872-C-15		280-269715		03/26/2015 00:39	1	TAL DEN	BBB
P:3005A	280-66872-A-15-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-15-B		280-269636	280-269174	03/25/2015 04:14	1	TAL DEN	CRR
P:3005A	280-66872-A-15-B		280-269804	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-15-B		280-269804	280-269174	03/25/2015 22:19	1	TAL DEN	CRR
P:3005A	280-66872-A-15-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-15-A		280-269605	280-269170	03/24/2015 17:12	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-15		280-269364		03/19/2015 05:43	1	TAL DEN	TP

Lab ID: **280-66872-15 MS** **Client ID:** **3406-MW03**

Sample Date/Time: 03/19/2015 07:43 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-66872-A-15-C MS		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-15-C MS		280-269605	280-269170	03/24/2015 17:15	1	TAL DEN	LMT

Lab ID: **280-66872-15 MSD** **Client ID:** **3406-MW03**

Sample Date/Time: 03/19/2015 07:43 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-66872-A-15-D MSD		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-15-D MSD		280-269605	280-269170	03/24/2015 17:19	1	TAL DEN	LMT

Client: Waste Management

Job Number: 280-66872-1

Laboratory Chronicle

Lab ID: **280-66872-16** **Client ID:** **3406-01FB**

Sample Date/Time: 03/19/2015 08:38 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-B-16		280-269553		03/25/2015 04:43	1	TAL DEN	JNL
A:8260B	280-66872-B-16		280-269553		03/25/2015 04:43	1	TAL DEN	JNL
P:3005A	280-66872-A-16-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-16-B		280-269636	280-269174	03/25/2015 04:16	1	TAL DEN	CRR
P:3005A	280-66872-A-16-B		280-269804	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-16-B		280-269804	280-269174	03/25/2015 22:22	1	TAL DEN	CRR
P:3005A	280-66872-A-16-E		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-16-E		280-269605	280-269170	03/24/2015 17:22	1	TAL DEN	LMT
A:Field Sampling	280-66872-A-16		280-269364		03/19/2015 06:38	1	TAL DEN	TP

Lab ID: **280-66872-16 MS** **Client ID:** **3406-01FB**

Sample Date/Time: 03/19/2015 08:38 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-66872-A-16-C MS		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-16-C MS		280-269636	280-269174	03/25/2015 04:19	1	TAL DEN	CRR
P:3005A	280-66872-A-16-C MS		280-269804	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-16-C MS		280-269804	280-269174	03/25/2015 22:25	1	TAL DEN	CRR

Lab ID: **280-66872-16 MSD** **Client ID:** **3406-01FB**

Sample Date/Time: 03/19/2015 08:38 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-66872-A-16-D MSD		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-16-D MSD		280-269636	280-269174	03/25/2015 04:21	1	TAL DEN	CRR
P:3005A	280-66872-A-16-D MSD		280-269804	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-16-D MSD		280-269804	280-269174	03/25/2015 22:27	1	TAL DEN	CRR

Lab ID: **280-66872-17** **Client ID:** **TRIP BLANK**

Sample Date/Time: 03/19/2015 00:00 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66872-A-17		280-269553		03/25/2015 05:03	1	TAL DEN	JNL
A:8260B	280-66872-A-17		280-269553		03/25/2015 05:03	1	TAL DEN	JNL

Client: Waste Management

Job Number: 280-66872-1

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 280-269553/5		280-269553		03/24/2015 21:39	1	TAL DEN	JNL
A:8260B	MB 280-269553/5		280-269553		03/24/2015 21:39	1	TAL DEN	JNL
P:5030B	MB 280-269715/6		280-269715		03/25/2015 20:55	1	TAL DEN	BBB
A:8260B	MB 280-269715/6		280-269715		03/25/2015 20:55	1	TAL DEN	BBB
P:3005A	MB 280-269174/1-A		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	MB 280-269174/1-A		280-269636	280-269174	03/25/2015 02:44	1	TAL DEN	CRR
P:3005A	MB 280-269170/1-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	MB 280-269170/1-A		280-269605	280-269170	03/24/2015 15:09	1	TAL DEN	LMT

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 280-269553/4		280-269553		03/24/2015 21:20	1	TAL DEN	JNL
A:8260B	LCS 280-269553/4		280-269553		03/24/2015 21:20	1	TAL DEN	JNL
P:5030B	LCS 280-269715/4		280-269715		03/25/2015 20:10	1	TAL DEN	BBB
A:8260B	LCS 280-269715/4		280-269715		03/25/2015 20:10	1	TAL DEN	BBB
P:3005A	LCS 280-269174/2-A		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	LCS 280-269174/2-A		280-269636	280-269174	03/25/2015 02:46	1	TAL DEN	CRR
P:3005A	LCS 280-269170/2-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	LCS 280-269170/2-A		280-269605	280-269170	03/24/2015 15:13	1	TAL DEN	LMT

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

Sample Date/Time: 03/19/2015 10:15 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-B-1 MS		280-269715		03/25/2015 21:40	1	TAL DEN	BBB
A:8260B	280-66870-B-1 MS		280-269715		03/25/2015 21:40	1	TAL DEN	BBB

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

Sample Date/Time: 03/19/2015 10:15 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-B-1 MSD		280-269715		03/25/2015 22:03	1	TAL DEN	BBB
A:8260B	280-66870-B-1 MSD		280-269715		03/25/2015 22:03	1	TAL DEN	BBB

Lab References:

TAL DEN = TestAmerica Denver

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

280-66872 Chain of Custody

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: 280-15240-4080.1
Client Contact: Mr. Al Lacsamana	Phone: 225-907-4060	E-Mail: betsy.sara@testamericainc.com		Page:
Company: WM-Southern Area				Job #:
Address: 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 609-434-5622	PO #:			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Mar			
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)	Total Metals	8260B - VOA	DISS. METALS										Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A												
MW12D	3-18	0722	G	W	N		1	3												ANALYSED DISS.
MW12	3-18	0757	G	W	N		1	3												METALS ONLY IF
MW01	3-18	0939	G	W	N		1	3												TOTAL METALS
MW06	3-18	1022	G	W	N		1	3												ARE EXCEEDED
MW04	3-18	1223	G	W	N		1	3												
MW04D	3-18	1153	G	W	Y		1	3	1											
MW05	3-18	1427	G	W	N		1	3												
MW08	3-18	1358	G	W	N		1	3												
MW11	3-18	1529	G	W	N		1	3												
MW02	3-18	1457	G	W	N		1	3												
MW07	3-18	1705	G	W	N		1	3												

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
	3-19-15 / 1800	PRO-TECH		0930 20Mar15	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: 0.4 0.8 RESTOR 20MAR15 Transferred by

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: 280-15240-4080.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com		Page:
Company: WM-Southern Area				Job #:
Address: 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 609-434-5622	PO #:			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Mar			
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)	Total Metals	8260B - VOA										Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A											
MW10	3-18	1631	G	W	N		1	3											
MW11D	3-18	1600	G	W	N		1	3											
MW09R	3-19	0818	G	W	N		1	3											
MW03	3-19	0743	G	W	N		1	3											
OIFB	3-19	0838	G	W	N		1	3											
TRIP	3-19	—	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: 3-19-15 / 1800	Company: PRO-TECH	Received by:	Date/Time: 0930 20 March	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: 040.8 IR Stor 20 March Transferred by

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
031815	0704	2:1	62	19	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

Purging Device: C

Sampling Device: C

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

X-Other:

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

Filter Type: —

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

Sample Tube Type: A

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

WELL DATA

Well Elevation (at TOC): 7514.8 (ft/msl)

Depth to Water (DTW) (from TOC): 556 (ft)

Groundwater Elevation (site datum, from TOC): 7459.8 (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 ~~gpm~~	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0715	0.09 1st	6.42 1st	238	14.0	26	0.6	191	56
0717	0.09 2nd	6.44 2nd	238	14.0	29	0.5	188	57
0719	0.09 3rd	6.45 3rd	238	14.0	26	0.5	186	57
0721	0.09 4th	6.45 4th	238	14.0	27	0.5	185	57
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 ____
031815	6.45	238	14.0	27	0.5	185	

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: 43.30 - 5.50 = 37.80 x 0.163 = 6.16 gal

FLOW: 170 cm/gt x 4 gt/gal = 680 cm/gal ÷ 60 cm/min = 11.33 min/gal ∴ 0.088 gpm

ACTUAL: 21 min x 0.088 gpm = 1.85 gal

SAMPLE TIME: 0722

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
3/18/15	DAN ARMONK	[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: MW 12 (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
031815	0735	22	19	18	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): 7514.8 (ft/msl)

Depth to Water (DTW) (from TOC): 6.08 (ft)

Groundwater Elevation (site datum, from TOC): 745.40 (ft/msl)

Total Well Depth (from TOC): 1800 (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)
0750	0.08 1st	6.04 1st	167 1st	123	88	06	179	6.2
0752	0.08 2nd	6.09 2nd	166 2nd	124	85	06	174	6.3
0754	0.08 3rd	6.10 3rd	166 3rd	124	82	06	172	6.3
0756	0.08 4th	6.11 4th	167 4th	124	83	06	171	6.3
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 ____
031815	6.11	167	124	83	06	171	

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: ____ Other: NONE

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: 18.00 - 6.08 = 11.92 x 0.163 = 1.94 gal

FLOW: 181 cc/gal x 4 gal/gal = 724 cc/gal ÷ 60 cc/gal = 12.07 min/gal ∴ 0.083 gpm

ACTUAL: 22 min x 0.083 = 1.83 gal

SAMPLE TIME: 0757

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
3/18/15	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: 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
031815	0922	17	05	14	2.7

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

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

Sampling Device: C

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
823.93 (ft/msl)	45.71 (ft)	778.22 (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)
0932	0.09 1st	5.91 1st	67 1st	14.0	4.6	1.9	130	45.7
0934	0.09 2nd	5.88 2nd	66 2nd	14.0	4.1	1.9	132	45.7
0936	0.09 3rd	5.87 3rd	66 3rd	14.0	3.5	1.8	134	45.7
0938	0.09 4th	5.87 4th	65 4th	14.0	3.2	1.8	133	45.7
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
031815	5.87	65	14.0	3.2	1.8	133	

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: 49.00 - 45.71 = 3.29 x 0.163 = 0.54 gal

FLOW: 176 cc/gt x 4 gt/gal = 704 cc/gal ÷ 60 cc/min = 11.73 min/gal ∴ 0.085 gpm

ACTUAL: 17 min x 0.085 gpm = 1.44 gal

SAMPLE TIME: 0939

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
3/18/15	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: 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
031815	1004	18	09	17	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

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

Sampling Device: C

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 8087 (ft/msl)

Depth to Water (DTW) (from TOC): 2417 (ft)

Groundwater Elevation (site datum, from TOC): ~~7976~~ 776.70 (ft/msl)

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)
1015	0.09 1st	5.21 1st	39	14.0	18	39	127	24.3
1017	0.09 2nd	5.19 2nd	39	14.0	14	37	125	24.3
1019	0.09 3rd	5.18 3rd	37	14.0	19	37	125	24.3
1021	0.09 4th	5.18 4th	37	14.0	16	37	124	24.3
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
031815	5.18	37	14.0	16	37	124	

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: 29.60 - 24.19 = 5.43 x 0.163 = 0.89 gal

FLOW: 162 x 4 ft/gal = 648 sec/gal ÷ 60 sec/min = 10.80 min/gal ∴ 0.093 gpm

ACTUAL: 18 min x 0.093 gpm = 1.67 gal

SAMPLE TIME: 1022

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
3/18/15	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
03/18/15	1205	18	2.3	1.7	0.7

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

Purging Device: C

Sampling Device: C

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

X-Other:

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

Filter Type: —

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

Sample Tube Type: A

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

WELL DATA

Well Elevation (at TOC): 756.92 (ft/msl)

Depth to Water (DTW) (from TOC): 12.73 (ft)

Groundwater Elevation (site datum, from TOC): 744.19 (ft/msl)

Total Well Depth (from TOC): 27.00 (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)
1216	0.09 1st	5.47 1st	95	14.6	33	0.3	143	13.5
1218	0.09 2nd	5.47 2nd	94	14.6	31	0.3	146	13.5
1220	0.09 3rd	5.48 3rd	94	14.6	30	0.3	147	13.6
1222	0.09 4th	5.48 4th	94	14.6	35	0.3	147	13.6
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
03/18/15	5.48	94	14.6	35	0.3	147	

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 Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 27.00 - 12.73 = 14.27 x 0.163 = 2.33 gal

FLOW: 161 sec/gal x 4 gal/gal = 644 sec/gal ÷ 60 sec/min = 10.73 min/gal ≈ 0.093 gpm

ACTUAL: 18 min x 0.093 gpm = 1.67 gal

SAMPLE TIME: 1223

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
3/18/15	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
03/18/15	1135	18	80	15	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

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

Purging Device: C

Sampling Device: C

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

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
757.33 (ft/msl)	13.20 (ft)	744.13 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
62.00 (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)
1146	0.08 1st	6.12 1st	125	15.1	126	4.6	125	13.3
1148	0.08 2nd	6.09 2nd	124	15.0	118	4.4	128	13.3
1150	0.08 3rd	6.08 3rd	124	15.0	121	4.4	129	13.3
1152	0.08 4th	6.08 4th	125	15.0	122	4.4	128	13.3
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
03/18/15	6.08	125	15.0	122	4.4	128	

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: slt cloudy Odor: _____ Color: slt whitish tint Other: _____

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

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

CALC: 62.00 - 13.20 = 48.8 x 0.163 = 7.95 gal

FLOW: 184 sec/qt x 4 qt/gal = 736 sec/gal ÷ 60 sec/min = 12.27 min/gal ∴ 0.082 gpm

ACTUAL: 18 min x 0.082 gpm = 1.48 gal

SAMPLE TIME: 1153

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
3/18/15	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: MW05 (Sample ID)

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

Laboratory Use Only/Lab ID:

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
031815	1411	17	26	18	0.7

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

Purging Device: C

Sampling Device: C

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

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 7317 (ft/msl)

Depth to Water (DTW) (from TOC): 468 (ft)

Groundwater Elevation (site datum, from TOC): 73849 (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)
1421	0.1 1st	5.92 1st	353	12.7	13	0.6	97	4.8
1423	0.1 2nd	5.89 2nd	355	12.8	10	0.5	101	4.8
1425	0.1 3rd	5.88 3rd	355	12.7	12	0.5	102	4.8
1426	0.1 4th	5.88 4th	353	12.7	13	0.5	104	4.8
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 ____
031815	5.88	353	12.7	13	0.5	104	

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 Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 20.50 - 4.68 = 15.82 X 0.163 = 2.58 gal

FLOW: 144 oz/st x 4 st/gal = 576 oz/gal ÷ 60 oz/min = 9.6 min/gal ≈ 0.104 gpm

ACTUAL: 17 min x 0.104 gpm = 1.77 gal

SAMPLE TIME: 1427

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
3/18/15	~~PRO~~ 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: 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
031815	1340	18	22	17	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

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

Sampling Device: C

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 748.95 (ft/msl)

Depth to Water (DTW) (from TOC): 5.59 (ft)

Groundwater Elevation (site datum, from TOC): 743.36 (ft/msl)

Total Well Depth (from TOC): 18.80 (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)
1351	0.09 1st	5.51 1st	104	9.2	42	3.6	139	6.7
1353	0.09 2nd	5.46 2nd	106	9.3	46	3.4	142	6.7
1355	0.09 3rd	5.47 3rd	106	9.3	47	3.4	143	6.7
1359	0.09 4th	5.47 4th	105	9.3	45	3.4	144	6.7
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
031815	5.47	105	9.3	45	3.4	144	

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 Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 18.80 - 5.59 = 13.21 x 0.163 = 2.15 gal

FLOW: 161 x 4 ml/gal = 644 ml/gal ÷ 60 ml/min = 10.73 min/gal ∴ 0.093 gpm

ACTUAL: ~~135~~ 18 min x 0.093 gpm = 1.67 gal

SAMPLE TIME: 1358

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
3/18/15	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
031815	1511	18	10	16	1.5

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)
776.80 (ft/msl)	28.60 (ft)	748.20 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
35.00 (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)
1522	0.09 1st	5.53 1st	177	15.0	3.3	0.8	149	28.6
1524	0.09 2nd	5.51 2nd	177	15.0	3.1	0.9	152	28.6
1526	0.09 3rd	5.51 3rd	177	15.0	3.6	0.9	152	28.6
1528	0.09 4th	5.52 4th	178	15.0	3.3	0.9	154	28.6
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
031815	5.52	178	15.0	3.3	0.9	154	

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: 35.00 - 28.60 = 6.40 x 0.163 = 1.04 gal

FLOW: 169 sec/qt x 4 qt/gal = 676 sec/gal ÷ 60 sec/min = 11.27 min/gal ∴ 0.089 gpm

ACTUAL: 18 min x 0.089 = 1.60 gal

SAMPLE TIME: 1529

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
3/18/15	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: 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:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
03 18 15	1440	17	11	14	1.3

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

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

Sampling Device: C

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 778.04 (ft/msl)

Depth to Water (DTW) (from TOC): 28.81 (ft)

Groundwater Elevation (site datum, from TOC): 749.23 (ft/msl)

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

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (Gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1450	0.08 1st	5.27 1st	178	14.8	22	2.5	179	28.9
1452	0.08 2nd	5.26 2nd	179	14.7	20	2.4	181	28.9
1454	0.08 3rd	5.27 3rd	179	14.7	24	2.4	180	28.9
1456	0.08 4th	5.26 4th	179	14.7	25	2.4	181	28.9
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
03 18 15	5.26	179	14.7	25	2.4	181	

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 Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 35.50 - 28.81 = 6.69 x 0.163 = 1.09 gal

FLOW: 184 mL/s x 4 s/gal = 736 mL/gal ÷ 60 mL/min = 12.27 min/gal ∴ 0.082 gpm

ACTUAL: 17 min x 0.082 gpm = 1.39 gal

SAMPLE TIME: 1457

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
3/18/15	R. 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.: [illegible]

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
031815	1648	1:17	10	15	1.5

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
Sampling Device: C

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

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
77157 (ft/msl)	2498 (ft)	74659 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
3130 (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)
1658	0.09 1st	587 1st	139	151	26	4.8	133	260
1700	0.09 2nd	586 2nd	136	152	25	4.9	136	261
1702	0.09 3rd	587 3rd	136	151	24	4.8	138	261
1704	0.09 4th	587 4th	135	152	22	4.9	138	261
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 _____
031815	587	135	152	22	4.9	138	

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 - 24.98 = 6.32 X 0.163 = 1.03 gal

FLOW: 170 cm/ft x 4 ft/gal = 680 cm/gal ÷ 60 cm/min = 11.33 min/gal ∴ 0.09 gpm

ACTUAL: 17 min X 0.09 gpm = 1.53 gal

SAMPLE TIME: 1705

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
3/18/15	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
031815	1614	1:17	12	14	1.1

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

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

Sampling Device: C

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 7720 (ft/msl)

Depth to Water (DTW) (from TOC): 3048 (ft)

Groundwater Elevation (site datum, from TOC): 7467.2 (ft/msl)

Total Well Depth (from TOC): 3800 (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)
1624	0.08 1st	6.81 1st	126	15.6	37	30	135	30.5
1626	0.08 2nd	6.82 2nd	126	15.6	33	30	137	30.5
1628	0.08 3rd	6.81 3rd	125	15.7	35	30	139	30.6
1630	0.08 4th	6.80 4th	125	15.7	38	30	138	30.6
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 ____
031815	6.80	125	15.7	38	30	138	

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 - 30.48 = 7.52 x 0.163 = 1.23 gallon

FLOW: 188 sec/qt x 4 qt/gal = 752 sec/gal ÷ 60 sec/min = 12.53 min/gal ∴ 0.08 gpm

ACTUAL: 17 min x 0.08 gpm = 1.36 gal

SAMPLE TIME: 1631

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
3/18/15	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: 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
031815	1542	18	106	18	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: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

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

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

WELL DATA

Well Elevation (at TOC): 776.36 (ft/msl)

Depth to Water (DTW) (from TOC): 28.61 (ft)

Groundwater Elevation (site datum, from TOC): 747.75 (ft/msl)

Total Well Depth (from TOC): 93.50 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1553	0.1	1st 6.52	1st 78	14.6	49	3.2	95	30.3
1555	0.1	2nd 6.50	2nd 78	14.6	44	3.1	98	30.3
1557	0.1	3rd 6.50	3rd 78	14.6	47	3.1	99	30.3
1559	0.1	4th 6.49	4th 77	14.6	46	3.1	100	30.3
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 ____
031815	6.49	77	14.6	4.6	3.1	100	

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 - 28.61 = 64.89 x 0.163 = 10.57 gal

FLOW: 149 sec/qt x 4 qt/gal = 596 sec/gal ÷ 60 sec/min = 9.93 min/gal ∴ 0.10 gpm

ACTUAL: 18 min x 0.10 gpm = 1.8 gal

SAMPLE TIME: 1600

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
3/18/15	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: 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
03 19 15	0800	18	27	17	0.6

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): 7649.5 (ft/msl)

Depth to Water (DTW) (from TOC): 26.23 (ft)

Groundwater Elevation (site datum, from TOC): 738.72 (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)
0811	0.09 1st	6.00 1st	307	15.2	12	1.0	-14	26.9
0813	0.09 2nd	5.99 2nd	308	15.2	17	1.0	-16	27.0
0815	0.09 3rd	6.01 3rd	310	15.2	16	0.9	-16	27.0
0817	0.09 4th	6.02 4th	310	15.2	14	1.0	-17	27.0
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
03 19 15	6.02	310	15.2	14	1.0	-17	

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: Cloudy Precipitation: Y or (N)

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

CALC: 42.95 - 26.23 = 16.72 x 0.163 = 2.73 gal

FLOW: 159 sec/gt x 4 gt/gal = 636 sec/gal ÷ 60 sec/min = 10.6 min/gal ≈ 0.094 gpm

ACTUAL: 18 min x 0.094 gpm = 1.69 gal

SAMPLE TIME: 0818

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
3/19/15	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
031915	0725	1:18	20	17	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): 25.73 (ft)

Groundwater Elevation (site datum, from TOC): 744.35 (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)
0736	0.09 1st	5.89 1st	171	14.3	12	4.8	181	27.1
0738	0.09 2nd	5.89 2nd	171	14.3	17	4.7	179	27.1
0740	0.09 3rd	5.88 3rd	170	14.3	13	4.7	178	27.1
0742	0.09 4th	5.89 4th	171	14.3	16	4.7	178	27.2
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 ____
031915	5.89	171	14.3	16	4.7	178	

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: Cloudy Precipitation: Y or (N)

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

CALC: 38.00 - 25.73 = 12.27 x 0.163 = 2.00 gal

FLOW: 161 cc/gt x 4 gt/gal = 644 cc/gal ÷ 60 cc/min = 10.73 min/gal ∴ 0.093 gpm

ACTUAL: 18 min x 0.093 gpm = 1.67 gal

SAMPLE TIME: 0743

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
3/19/15	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: 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
031915	—	—	—	—	—

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: —

Sampling Device: X

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

X-Other: SAMPLE BOTTLES

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

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

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

WELL DATA

Well Elevation (at TOC): — (ft/msl)

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

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

Total Well Depth (from TOC): — (ft)

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

Casing ID: — (in)

Casing Material: —

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0838	NA	1st 815	1st 5	143	00	08	-32	
		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 ____
031915	815	5	143	00	08	-32	

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: CLOUDY Precipitation: Y or N

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

FIELD COMMENTS

01FB COMPLETED WITH 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
3/19/15	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: 280-66872-1

Login Number: 66872

List Source: TestAmerica Denver

List Number: 1

Creator: Muniz, Ashley T

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	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	

ANALYTICAL REPORT

Job Number: 280-66870-1

Job Description: 134|Piedmont Landfill

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

Attention: Mr. Al Lacsamana

Approved for release.
Danielle M Harrington
Project Manager II
3/30/2015 11:18 AM

Designee for
Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
03/30/2015

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.

CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-66870-1

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 03/20/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.6C and 1.0C.

Holding Times

The holding times were within established control limits.

Method Blanks

Total Silver Method 6010C 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.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66870-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66870-1	**3406-S02**					
Carbon disulfide		0.60	J	100	ug/L	8260B
Field pH		7.36			SU	Field Sampling
Field Conductivity		121			umhos/cm	Field Sampling
Field Temperature		8.4			Degrees C	Field Sampling
Field Turbidity		5.7			NTU	Field Sampling
Field Dissolved Oxygen		5.8			mg/L	Field Sampling
Field EH/ORP		-15			millivolts	Field Sampling
Total Recoverable						
Barium		32	J	100	ug/L	6010C
Vanadium		1.4	J	25	ug/L	6010C
Silver		1.7	J B	10	ug/L	6010C
Antimony		1.4	J	6.0	ug/L	6020A
Copper		0.67	J	10	ug/L	6020A
Thallium		0.12	J	5.5	ug/L	6020A
Zinc		2.3	J	10	ug/L	6020A
280-66870-2	**3406-S03**					
Carbon disulfide		1.9	J	100	ug/L	8260B
Field pH		7.29			SU	Field Sampling
Field Conductivity		98			umhos/cm	Field Sampling
Field Temperature		8.1			Degrees C	Field Sampling
Field Turbidity		5.5			NTU	Field Sampling
Field Dissolved Oxygen		6.1			mg/L	Field Sampling
Field EH/ORP		-31			millivolts	Field Sampling
Total Recoverable						
Barium		30	J	100	ug/L	6010C
Chromium		0.83	J	10	ug/L	6010C
Vanadium		2.4	J	25	ug/L	6010C
Silver		1.7	J B	10	ug/L	6010C
Copper		0.87	J	10	ug/L	6020A
Zinc		2.3	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66870-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66870-3	**3406-S04**					
Field pH		7.25			SU	Field Sampling
Field Conductivity		99			umhos/cm	Field Sampling
Field Temperature		8.0			Degrees C	Field Sampling
Field Turbidity		8.2			NTU	Field Sampling
Field Dissolved Oxygen		3.3			mg/L	Field Sampling
Field EH/ORP		12			millivolts	Field Sampling
Total Recoverable						
Barium		30	J	100	ug/L	6010C
Chromium		0.84	J	10	ug/L	6010C
Vanadium		2.3	J	25	ug/L	6010C
Silver		1.8	J B	10	ug/L	6010C
Copper		0.90	J	10	ug/L	6020A
Zinc		2.6	J	10	ug/L	6020A
280-66870-4	**3406-S05**					
cis-1,2-Dichloroethene		0.29	J	5.0	ug/L	8260B
Field pH		7.44			SU	Field Sampling
Field Conductivity		125			umhos/cm	Field Sampling
Field Temperature		8.4			Degrees C	Field Sampling
Field Turbidity		2.8			NTU	Field Sampling
Field Dissolved Oxygen		5.8			mg/L	Field Sampling
Field EH/ORP		-64			millivolts	Field Sampling
Total Recoverable						
Barium		33	J	100	ug/L	6010C
Chromium		0.66	J	10	ug/L	6010C
Vanadium		1.9	J	25	ug/L	6010C
Silver		1.7	J B	10	ug/L	6010C
Copper		0.67	J	10	ug/L	6020A

METHOD SUMMARY

Client: Waste Management

Job Number: 280-66870-1

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: 280-66870-1

Method	Analyst	Analyst ID
SW846 8260B	Berger, Brent B	BBB
SW846 6010C	Rhoades, Chris R	CRR
SW846 6020A	Trudell, Lynn-Anne M	LMT
EPA Field Sampling	Promduang, Thaweesin	TP

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-66870-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-66870-1	3406-S02	Water	03/19/2015 1015	03/20/2015 0930
280-66870-2	3406-S03	Water	03/19/2015 0940	03/20/2015 0930
280-66870-3	3406-S04	Water	03/19/2015 0955	03/20/2015 0930
280-66870-4	3406-S05	Water	03/19/2015 0920	03/20/2015 0930
280-66870-5TB	TRIP BLANK	Water	03/19/2015 0000	03/20/2015 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-66870-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-66870-1

Client Matrix: Water

Date Sampled: 03/19/2015 1015

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0498.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2118			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2118				

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	0.60	J	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: 280-66870-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-66870-1

Client Matrix: Water

Date Sampled: 03/19/2015 1015

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0498.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2118			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2118				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120
Toluene-d8 (Surr)	103		80 - 125

Client: Waste Management

Job Number: 280-66870-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-66870-2

Client Matrix: Water

Date Sampled: 03/19/2015 0940

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0501.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2225			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2225				

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	1.9	J	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: 280-66870-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-66870-2

Client Matrix: Water

Date Sampled: 03/19/2015 0940

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0501.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2225			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2225				

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)	100		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120
Toluene-d8 (Surr)	99		80 - 125

Client: Waste Management

Job Number: 280-66870-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-66870-3

Client Matrix: Water

Date Sampled: 03/19/2015 0955

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0502.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2247			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2247				

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: 280-66870-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-66870-3

Client Matrix: Water

Date Sampled: 03/19/2015 0955

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0502.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2247			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2247				

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)	97		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
Toluene-d8 (Surr)	99		80 - 125

Client: Waste Management

Job Number: 280-66870-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-66870-4

Client Matrix: Water

Date Sampled: 03/19/2015 0920

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0503.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2310			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2310				

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	0.29	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	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: 280-66870-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-66870-4

Client Matrix: Water

Date Sampled: 03/19/2015 0920

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0503.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2310			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2310				

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

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120
Toluene-d8 (Surr)	97		80 - 125

Client: Waste Management

Job Number: 280-66870-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-66870-5TB

Client Matrix: Water

Date Sampled: 03/19/2015 0000

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0504.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2332			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2332				

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: 280-66870-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-66870-5TB

Client Matrix: Water

Date Sampled: 03/19/2015 0000

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0504.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2332			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2332				

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)	99		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
Toluene-d8 (Surr)	99		80 - 125

Client: Waste Management

Job Number: 280-66870-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-66870-1

Client Matrix: Water

Date Sampled: 03/19/2015 1015

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0249			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	32	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	1.4	J	1.1	25
Silver	1.7	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	072SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1516			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	1.4	J	0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	0.67	J	0.56	10
Selenium	ND		0.70	10
Thallium	0.12	J	0.050	5.5
Zinc	2.3	J	2.0	10

Client: Waste Management

Job Number: 280-66870-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-66870-2

Client Matrix: Water

Date Sampled: 03/19/2015 0940

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0251			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	30	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	0.83	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	2.4	J	1.1	25
Silver	1.7	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	073SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1520			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	0.87	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.3	J	2.0	10

Client: Waste Management

Job Number: 280-66870-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-66870-3

Client Matrix: Water

Date Sampled: 03/19/2015 0955

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0254			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	30	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	0.84	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	2.3	J	1.1	25
Silver	1.8	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	074SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1524			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	0.90	J	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: 280-66870-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-66870-4

Client Matrix: Water

Date Sampled: 03/19/2015 0920

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269636	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0256			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	33	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	0.66	J	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	1.7	J B	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269170	Lab File ID:	075SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1528			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	1.0
Copper	0.67	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Field Service / Mobile Lab

Client Sample ID: **3406-S02**

Lab Sample ID: 280-66870-1

Client Matrix: Water

Date Sampled: 03/19/2015 1015

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.36		SU	1.0	Field Sampling	280-269364	03/19/2015 0815
Field Conductivity	121		umhos/cm	1.0	Field Sampling	280-269364	03/19/2015 0815
Field Temperature	8.4		Degrees C	1.0	Field Sampling	280-269364	03/19/2015 0815
Field Turbidity	5.7		NTU	1.0	Field Sampling	280-269364	03/19/2015 0815
Field Dissolved Oxygen	5.8		mg/L	1.0	Field Sampling	280-269364	03/19/2015 0815
Field EH/ORP	-15		millivolts	1.0	Field Sampling	280-269364	03/19/2015 0815

Field Service / Mobile Lab

Client Sample ID: **3406-S03**

Lab Sample ID: 280-66870-2

Client Matrix: Water

Date Sampled: 03/19/2015 0940

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.29		SU	1.0	Field Sampling	280-269364	03/19/2015 0740
Field Conductivity	98		umhos/cm	1.0	Field Sampling	280-269364	03/19/2015 0740
Field Temperature	8.1		Degrees C	1.0	Field Sampling	280-269364	03/19/2015 0740
Field Turbidity	5.5		NTU	1.0	Field Sampling	280-269364	03/19/2015 0740
Field Dissolved Oxygen	6.1		mg/L	1.0	Field Sampling	280-269364	03/19/2015 0740
Field EH/ORP	-31		millivolts	1.0	Field Sampling	280-269364	03/19/2015 0740

Field Service / Mobile Lab

Client Sample ID: **3406-S04**

Lab Sample ID: 280-66870-3

Client Matrix: Water

Date Sampled: 03/19/2015 0955

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.25		SU	1.0	Field Sampling	280-269364	03/19/2015 0755
Field Conductivity	99		umhos/cm	1.0	Field Sampling	280-269364	03/19/2015 0755
Field Temperature	8.0		Degrees C	1.0	Field Sampling	280-269364	03/19/2015 0755
Field Turbidity	8.2		NTU	1.0	Field Sampling	280-269364	03/19/2015 0755
Field Dissolved Oxygen	3.3		mg/L	1.0	Field Sampling	280-269364	03/19/2015 0755
Field EH/ORP	12		millivolts	1.0	Field Sampling	280-269364	03/19/2015 0755

Field Service / Mobile Lab

Client Sample ID: **3406-S05**

Lab Sample ID: 280-66870-4

Client Matrix: Water

Date Sampled: 03/19/2015 0920

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.44		SU	1.0	Field Sampling	280-269364	03/19/2015 0720
Field Conductivity	125		umhos/cm	1.0	Field Sampling	280-269364	03/19/2015 0720
Field Temperature	8.4		Degrees C	1.0	Field Sampling	280-269364	03/19/2015 0720
Field Turbidity	2.8		NTU	1.0	Field Sampling	280-269364	03/19/2015 0720
Field Dissolved Oxygen	5.8		mg/L	1.0	Field Sampling	280-269364	03/19/2015 0720
Field EH/ORP	-64		millivolts	1.0	Field Sampling	280-269364	03/19/2015 0720

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-66870-1

Lab Section	Qualifier	Description
GC/MS VOA		
	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: 280-66870-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-269715					
LCS 280-269715/4	Lab Control Sample	T	Water	8260B	
MB 280-269715/6	Method Blank	T	Water	8260B	
280-66870-1	3406-S02	T	Water	8260B	
280-66870-1MS	Matrix Spike	T	Water	8260B	
280-66870-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-66870-2	3406-S03	T	Water	8260B	
280-66870-3	3406-S04	T	Water	8260B	
280-66870-4	3406-S05	T	Water	8260B	
280-66870-5TB	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

Metals					
Prep Batch: 280-269170					
LCS 280-269170/2-A	Lab Control Sample	R	Water	3005A	
MB 280-269170/1-A	Method Blank	R	Water	3005A	
280-66870-1	3406-S02	R	Water	3005A	
280-66870-2	3406-S03	R	Water	3005A	
280-66870-3	3406-S04	R	Water	3005A	
280-66870-4	3406-S05	R	Water	3005A	
280-66872-A-15-C MS	Matrix Spike	R	Water	3005A	
280-66872-A-15-D MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 280-269174					
LCS 280-269174/2-A	Lab Control Sample	R	Water	3005A	
MB 280-269174/1-A	Method Blank	R	Water	3005A	
280-66870-1	3406-S02	R	Water	3005A	
280-66870-2	3406-S03	R	Water	3005A	
280-66870-3	3406-S04	R	Water	3005A	
280-66870-4	3406-S05	R	Water	3005A	
280-66872-A-1-C MS	Matrix Spike	R	Water	3005A	
280-66872-A-1-D MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-269605					
LCS 280-269170/2-A	Lab Control Sample	R	Water	6020A	280-269170
MB 280-269170/1-A	Method Blank	R	Water	6020A	280-269170
280-66870-1	3406-S02	R	Water	6020A	280-269170
280-66870-2	3406-S03	R	Water	6020A	280-269170
280-66870-3	3406-S04	R	Water	6020A	280-269170
280-66870-4	3406-S05	R	Water	6020A	280-269170
280-66872-A-15-C MS	Matrix Spike	R	Water	6020A	280-269170
280-66872-A-15-D MSD	Matrix Spike Duplicate	R	Water	6020A	280-269170

Analysis Batch:280-269636

Client: Waste Management

Job Number: 280-66870-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-269636					
LCS 280-269174/2-A	Lab Control Sample	R	Water	6010C	280-269174
MB 280-269174/1-A	Method Blank	R	Water	6010C	280-269174
280-66870-1	3406-S02	R	Water	6010C	280-269174
280-66870-2	3406-S03	R	Water	6010C	280-269174
280-66870-3	3406-S04	R	Water	6010C	280-269174
280-66870-4	3406-S05	R	Water	6010C	280-269174
280-66872-A-1-C MS	Matrix Spike	R	Water	6010C	280-269174
280-66872-A-1-D MSD	Matrix Spike Duplicate	R	Water	6010C	280-269174

Report Basis

R = Total Recoverable

Field Service / Mobile Lab					
Analysis Batch:280-269364					
280-66870-1	3406-S02	T	Water	Field Sampling	
280-66870-2	3406-S03	T	Water	Field Sampling	
280-66870-3	3406-S04	T	Water	Field Sampling	
280-66870-4	3406-S05	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-66870-1

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
280-66870-1	3406-S02	102	100	103	103
280-66870-2	3406-S03	108	100	105	99
280-66870-3	3406-S04	109	97	106	99
280-66870-4	3406-S05	103	95	103	97
280-66870-5	TRIP BLANK	108	99	106	99
MB 280-269715/6		110	101	107	100
LCS 280-269715/4		114	103	108	110
280-66870-1 MS	3406-S02 MS	108	95	103	110
280-66870-1 MSD	3406-S02 MSD	108	100	103	105

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: 280-66870-1

Method Blank - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-269715/6	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0497.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2055	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2055				
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: 280-66870-1

Method Blank - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-269715/6	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0497.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2055	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2055				
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)	110	70 - 127
4-Bromofluorobenzene (Surr)	101	78 - 120
Dibromofluoromethane (Surr)	107	77 - 120
Toluene-d8 (Surr)	100	80 - 125

Lab Control Sample - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-269715/4	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0495.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2010	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2010				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	5.82	116	65 - 135	
1,1-Dichloroethane	5.00	5.55	111	65 - 135	
1,1-Dichloroethene	5.00	5.10	102	65 - 136	
1,2-Dichloropropane	5.00	5.32	106	64 - 135	
1,3-Dichlorobenzene	5.00	4.76	95	65 - 135	
Benzene	5.00	5.12	102	65 - 135	
Bromodichloromethane	5.00	5.38	108	65 - 135	
Carbon tetrachloride	5.00	5.54	111	65 - 135	
Chlorobenzene	5.00	4.85	97	65 - 135	
Chloroform	5.00	5.57	111	65 - 135	
Ethylbenzene	5.00	4.82	96	65 - 135	
Methylene Chloride	5.00	4.94	99	54 - 141	
Tetrachloroethene	5.00	5.07	101	65 - 135	
Toluene	5.00	5.11	102	65 - 135	
trans-1,2-Dichloroethene	5.00	5.24	105	65 - 135	
Trichloroethene	5.00	5.37	107	65 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114	70 - 127
4-Bromofluorobenzene (Surr)	103	78 - 120
Dibromofluoromethane (Surr)	108	77 - 120
Toluene-d8 (Surr)	110	80 - 125

Client: Waste Management

Job Number: 280-66870-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269715

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66870-1	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0499.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2140			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2140				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-66870-1	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0500.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2203			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2203				20 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	124	109	65 - 135	13	20		
1,1-Dichloroethane	119	105	65 - 135	12	21		
1,1-Dichloroethene	108	94	65 - 136	14	20		J
1,2-Dichloropropane	109	100	64 - 135	8	20		
1,3-Dichlorobenzene	98	87	65 - 135	11	20		
Benzene	109	97	65 - 135	11	20		
Bromodichloromethane	115	107	65 - 135	7	20		
Carbon tetrachloride	116	106	65 - 135	9	21		
Chlorobenzene	103	90	65 - 135	14	20		
Chloroform	116	107	65 - 135	8	20		
Ethylbenzene	104	91	65 - 135	13	20		
Methylene Chloride	98	88	54 - 141	11	26		
Tetrachloroethene	108	93	65 - 135	15	20		
Toluene	107	99	65 - 135	8	20		
trans-1,2-Dichloroethene	112	100	65 - 135	11	24		
Trichloroethene	113	103	65 - 135	10	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108	108	70 - 127
4-Bromofluorobenzene (Surr)	95	100	78 - 120
Dibromofluoromethane (Surr)	103	103	77 - 120
Toluene-d8 (Surr)	110	105	80 - 125

Client: Waste Management

Job Number: 280-66870-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269715

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66870-1	Units: ug/L		MSD Lab Sample ID:	280-66870-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/25/2015 2140			Analysis Date:	03/25/2015 2203
Prep Date:	03/25/2015 2140			Prep Date:	03/25/2015 2203
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	6.22	5.47	
1,1-Dichloroethane	ND	5.00	5.00	5.95	5.27	
1,1-Dichloroethene	ND	5.00	5.00	5.41	4.72	J
1,2-Dichloropropane	ND	5.00	5.00	5.46	5.02	
1,3-Dichlorobenzene	ND	5.00	5.00	4.88	4.35	
Benzene	ND	5.00	5.00	5.43	4.87	
Bromodichloromethane	ND	5.00	5.00	5.75	5.37	
Carbon tetrachloride	ND	5.00	5.00	5.78	5.30	
Chlorobenzene	ND	5.00	5.00	5.17	4.51	
Chloroform	ND	5.00	5.00	5.81	5.36	
Ethylbenzene	ND	5.00	5.00	5.18	4.55	
Methylene Chloride	ND	5.00	5.00	4.91	4.38	
Tetrachloroethene	ND	5.00	5.00	5.39	4.64	
Toluene	ND	5.00	5.00	5.34	4.93	
trans-1,2-Dichloroethene	ND	5.00	5.00	5.59	5.02	
Trichloroethene	ND	5.00	5.00	5.66	5.13	

Client: Waste Management

Job Number: 280-66870-1

Method Blank - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-269174/1-A	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0244	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
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	1.82	J	0.93	10

Lab Control Sample - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-269174/2-A	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0246	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	1930	96	90 - 112	
Beryllium	50.0	48.1	96	89 - 113	
Chromium	200	190	95	90 - 113	
Cobalt	500	488	98	89 - 111	
Lead	500	503	101	89 - 110	
Nickel	500	472	94	89 - 111	
Vanadium	500	489	98	90 - 111	
Silver	50.0	55.3	111	86 - 115	

Client: Waste Management

Job Number: 280-66870-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-A-1-C MS	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0314			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-A-1-D MSD	Analysis Batch:	280-269636	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269174	Lab File ID:	26F032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/25/2015 0316			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	96	97	85 - 120	1	20		
Beryllium	95	97	79 - 121	1	20		
Chromium	94	95	73 - 135	1	20		
Cobalt	95	96	82 - 119	1	20		
Lead	97	98	89 - 121	1	20		
Nickel	93	94	84 - 120	1	20		
Vanadium	96	98	85 - 120	1	20		
Silver	106	108	75 - 141	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269174

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-A-1-C MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/25/2015 0314		
Prep Date:	03/24/2015 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-66872-A-1-D MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/25/2015 0316
Prep Date:	03/24/2015 0800
Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Barium	6.3	J	2000	2000	1920	1940
Beryllium	ND		50.0	50.0	47.6	48.3
Chromium	1.0	J	200	200	189	190
Cobalt	ND		500	500	477	482
Lead	ND		500	500	487	491
Nickel	ND		500	500	464	468
Vanadium	2.0	J	500	500	484	490
Silver	1.4	J	50.0	50.0	54.2	55.1

Client: Waste Management

Job Number: 280-66870-1

Method Blank - Batch: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-269170/1-A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	070_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1509	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.27	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: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-269170/2-A	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	071_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1513	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	35.4	89	85 - 115	
Arsenic	40.0	38.6	96	85 - 117	
Cadmium	40.0	40.1	100	85 - 115	
Copper	40.0	38.9	97	85 - 119	
Selenium	40.0	41.1	103	77 - 122	
Thallium	40.0	41.0	103	85 - 118	
Zinc	40.0	41.8	105	83 - 122	

Client: Waste Management

Job Number: 280-66870-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-A-15-C MS	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	104SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1715			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66872-A-15-D MSD	Analysis Batch:	280-269605	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269170	Lab File ID:	105SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1719			Final Weight/Volume:	50 mL
Prep Date:	03/24/2015 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	100	98	85 - 115	3	20		
Arsenic	96	98	85 - 117	2	20		
Cadmium	98	93	85 - 115	5	20		
Copper	97	98	85 - 119	1	20		
Selenium	96	95	77 - 122	2	20		
Thallium	102	101	85 - 118	1	20		
Zinc	101	97	83 - 122	5	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269170

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66872-A-15-C MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/24/2015 1715		
Prep Date:	03/24/2015 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-66872-A-15-D MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/24/2015 1719
Prep Date:	03/24/2015 0800
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	40.0	39.0
Arsenic	ND	40.0	40.0	38.5	39.3
Cadmium	ND	40.0	40.0	39.2	37.3
Copper	ND	40.0	40.0	38.9	39.4
Selenium	ND	40.0	40.0	38.5	37.8
Thallium	ND	40.0	40.0	40.8	40.4
Zinc	ND	40.0	40.0	40.4	38.6

Client: Waste Management

Job Number: 280-66870-1

Laboratory Chronicle

Lab ID: 280-66870-1 **Client ID:** 3406-S02

Sample Date/Time: 03/19/2015 10:15 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-B-1		280-269715		03/25/2015 21:18	1	TAL DEN	BBB
A:8260B	280-66870-B-1		280-269715		03/25/2015 21:18	1	TAL DEN	BBB
P:3005A	280-66870-A-1-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66870-A-1-B		280-269636	280-269174	03/25/2015 02:49	1	TAL DEN	CRR
P:3005A	280-66870-A-1-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66870-A-1-A		280-269605	280-269170	03/24/2015 15:16	1	TAL DEN	LMT
A:Field Sampling	280-66870-A-1		280-269364		03/19/2015 08:15	1	TAL DEN	TP

Lab ID: 280-66870-1 MS **Client ID:** 3406-S02

Sample Date/Time: 03/19/2015 10:15 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-B-1 MS		280-269715		03/25/2015 21:40	1	TAL DEN	BBB
A:8260B	280-66870-B-1 MS		280-269715		03/25/2015 21:40	1	TAL DEN	BBB

Lab ID: 280-66870-1 MSD **Client ID:** 3406-S02

Sample Date/Time: 03/19/2015 10:15 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-B-1 MSD		280-269715		03/25/2015 22:03	1	TAL DEN	BBB
A:8260B	280-66870-B-1 MSD		280-269715		03/25/2015 22:03	1	TAL DEN	BBB

Lab ID: 280-66870-2 **Client ID:** 3406-S03

Sample Date/Time: 03/19/2015 09:40 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-C-2		280-269715		03/25/2015 22:25	1	TAL DEN	BBB
A:8260B	280-66870-C-2		280-269715		03/25/2015 22:25	1	TAL DEN	BBB
P:3005A	280-66870-A-2-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66870-A-2-B		280-269636	280-269174	03/25/2015 02:51	1	TAL DEN	CRR
P:3005A	280-66870-A-2-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66870-A-2-A		280-269605	280-269170	03/24/2015 15:20	1	TAL DEN	LMT
A:Field Sampling	280-66870-A-2		280-269364		03/19/2015 07:40	1	TAL DEN	TP

Client: Waste Management

Job Number: 280-66870-1

Laboratory Chronicle

Lab ID: 280-66870-3 **Client ID:** 3406-S04

Sample Date/Time: 03/19/2015 09:55 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-C-3		280-269715		03/25/2015 22:47	1	TAL DEN	BBB
A:8260B	280-66870-C-3		280-269715		03/25/2015 22:47	1	TAL DEN	BBB
P:3005A	280-66870-A-3-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66870-A-3-B		280-269636	280-269174	03/25/2015 02:54	1	TAL DEN	CRR
P:3005A	280-66870-A-3-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66870-A-3-A		280-269605	280-269170	03/24/2015 15:24	1	TAL DEN	LMT
A:Field Sampling	280-66870-A-3		280-269364		03/19/2015 07:55	1	TAL DEN	TP

Lab ID: 280-66870-4 **Client ID:** 3406-S05

Sample Date/Time: 03/19/2015 09:20 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-C-4		280-269715		03/25/2015 23:10	1	TAL DEN	BBB
A:8260B	280-66870-C-4		280-269715		03/25/2015 23:10	1	TAL DEN	BBB
P:3005A	280-66870-A-4-B		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66870-A-4-B		280-269636	280-269174	03/25/2015 02:56	1	TAL DEN	CRR
P:3005A	280-66870-A-4-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66870-A-4-A		280-269605	280-269170	03/24/2015 15:28	1	TAL DEN	LMT
A:Field Sampling	280-66870-A-4		280-269364		03/19/2015 07:20	1	TAL DEN	TP

Lab ID: 280-66870-5 **Client ID:** TRIP BLANK

Sample Date/Time: 03/19/2015 00:00 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-A-5		280-269715		03/25/2015 23:32	1	TAL DEN	BBB
A:8260B	280-66870-A-5		280-269715		03/25/2015 23:32	1	TAL DEN	BBB

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 280-269715/6		280-269715		03/25/2015 20:55	1	TAL DEN	BBB
A:8260B	MB 280-269715/6		280-269715		03/25/2015 20:55	1	TAL DEN	BBB
P:3005A	MB 280-269174/1-A		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	MB 280-269174/1-A		280-269636	280-269174	03/25/2015 02:44	1	TAL DEN	CRR
P:3005A	MB 280-269170/1-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	MB 280-269170/1-A		280-269605	280-269170	03/24/2015 15:09	1	TAL DEN	LMT

Client: Waste Management

Job Number: 280-66870-1

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 280-269715/4		280-269715		03/25/2015 20:10	1	TAL DEN	BBB
A:8260B	LCS 280-269715/4		280-269715		03/25/2015 20:10	1	TAL DEN	BBB
P:3005A	LCS 280-269174/2-A		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	LCS 280-269174/2-A		280-269636	280-269174	03/25/2015 02:46	1	TAL DEN	CRR
P:3005A	LCS 280-269170/2-A		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	LCS 280-269170/2-A		280-269605	280-269170	03/24/2015 15:13	1	TAL DEN	LMT

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

Sample Date/Time: 03/18/2015 07:22 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-66872-A-1-C MS		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-1-C MS		280-269636	280-269174	03/25/2015 03:14	1	TAL DEN	CRR
P:3005A	280-66872-A-15-C MS		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-15-C MS		280-269605	280-269170	03/24/2015 17:15	1	TAL DEN	LMT

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

Sample Date/Time: 03/18/2015 07:22 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-66872-A-1-D MSD		280-269636	280-269174	03/24/2015 08:00	1	TAL DEN	WDS
A:6010C	280-66872-A-1-D MSD		280-269636	280-269174	03/25/2015 03:16	1	TAL DEN	CRR
P:3005A	280-66872-A-15-D MSD		280-269605	280-269170	03/24/2015 08:00	1	TAL DEN	WDS
A:6020A	280-66872-A-15-D MSD		280-269605	280-269170	03/24/2015 17:19	1	TAL DEN	LMT

Lab References:

TAL DEN = TestAmerica Denver

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

280-66870 Chain of Custody

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: 280-15241-5755.1
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, 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)	Total Metals	8260B - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A		
S02	3-19	1015	G	W	N		1	3		
S03	3-19	0940	G	W	N		1	3		
S04	3-19	0955	G	W	N		1	3		
S05	3-19	0920	G	W	N		1	3		
TRIP	3-19	-	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: 3-19-15 / 1800	Company: PRO-TECH	Received by:	Date/Time: 093020Mar15	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: 04.0.8 IR=40.2 20Mar15 Transferred by

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
03 19 15	—	—	—	—	—

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 (N circled)

Purging Device: —

Sampling Device: F

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

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC) (ft/msl)

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

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

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1015	NA	1st 736	1st 121	84	57	58	-15	
		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 ____
03 19 15	736	121	84	57	58	-15	

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: cloudy Precipitation: Y or N (N circled)

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
3/19/15	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: 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
031915	—	—	—	—	—

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: —

Sampling Device: F

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

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC) (ft/msl)

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

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

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0940	NA 1st	7.29 1st	98 1st	8.1	55	6.1	-31	
	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
031915	7.29	98	8.1	55	6.1	-31	

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: Cloudy 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
3/19/15	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: 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
031915	–	–	–	–	–

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

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0955	NA	1st 7.25	1st 99	8.0	82	3.3	12	
		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
031915	7.25	99	8.0	82	3.3	12	

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: Cloudy 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
3/19/15	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: 505 (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
031915	–	–	–	–	–

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: –

Sampling Device: F

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

X-Other:

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

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

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

WELL DATA

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

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

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

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

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

Casing ID: – (in)

Casing Material: \

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0920	–	1st 7.44	1st 125	8.4	2.8	5.8	-64	
		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 ____
031915	7.44	125	8.4	2.8	5.8	-64	

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: Cloudy 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
3/19/15	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: 280-66870-1

Login Number: 66870

List Source: TestAmerica Denver

List Number: 1

Creator: Muniz, Ashley T

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	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	

ANALYTICAL REPORT

Job Number: 280-66772-1

Job Description: 134|Piedmont Landfill

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

Attention: Mr. Al Lacsamana

Approved for release.
Danielle M Harrington
Project Manager II
3/30/2015 11:08 AM

Designee for
Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
03/30/2015

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.

CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-66772-1

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 03/20/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the cooler at receipt were 0.4º C.

Please note, one of two hydrochloric preserved VOA vials for the TRIP BLANK was broken in transit. The remaining vial contained a bubble greater than 6mm. The client was notified on 3/20/2015.

Holding Times

The holding times were within established control limits.

Method Blanks

Total Alkalinity and Bicarbonate Alkalinity Method 2320B 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

Toluene was detected in the trip blank sample at a level below the requested reporting limit. Toluene was detected in the other sample below the requested reporting limit, therefore indicating the possibility of field or laboratory contamination of Toluene in these samples.

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 6010C. Analysis of the MS/MSD for this sample exhibited recoveries of Total Iron and Total Sodium above the upper 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 6010C. Analysis of the MS/MSD for this sample exhibited RPD and spike recoveries of Total Copper above the upper control limit indicating the possible presence of matrix interference.

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 spike recoveries of Total Beryllium below the lower control limit indicating the possible presence of matrix interference.

A laboratory generated sample was selected to fulfill the laboratory batch quality control requirements for Method 410.4. Analysis of the MS/MSD for this sample exhibited spike recoveries of Chemical Oxygen Demand below the lower control limit indicating the possible presence of matrix interference.

Sample 3406-T01 was selected to fulfill the laboratory batch quality control requirements for Method SM 5310B. Analysis of the MS/MSD for this sample exhibited spike recoveries of Total Organic Carbon below the lower control limit indicating the possible presence of matrix interference.

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

Organics

Analyst notated that the sample 3406-T01 was received at neutral pH for the VOA vials due to the nature of the sample. The laboratory did not preserve additionally.

General Chemistry

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

Due to matrix interferences, sample 3406-T01 was prepped at a dilution. The reporting limits have been adjusted relative to the volume used.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66772-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66772-1	**3406-T01**					
1,4-Dichlorobenzene		1.4	J	6.0	ug/L	8260B
2-Butanone (MEK)		230		200	ug/L	8260B
4-Methyl-2-pentanone (MIBK)		13	J	200	ug/L	8260B
Acetone		220		200	ug/L	8260B
Benzene		1.0	J	6.0	ug/L	8260B
Ethylbenzene		4.5	J	10	ug/L	8260B
Toluene		5.1	J	10	ug/L	8260B
Xylenes, Total		10		8.0	ug/L	8260B
Mercury		0.31		0.20	ug/L	7470A
Field pH		7.30			SU	Field Sampling
Field Conductivity		3422			umhos/cm	Field Sampling
Field Temperature		8.4			Degrees C	Field Sampling
Field Turbidity		487.2			NTU	Field Sampling
Chloride		1300		6.0	mg/L	300.0
Sulfate		67		10	mg/L	300.0
Ammonia		440		16	mg/L	350.1
Phosphorus, Total		4.3		0.50	mg/L	365.1
Chemical Oxygen Demand		640		500	mg/L	410.4
Total Alkalinity		4400	B	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		4400	B	5.0	mg/L	SM 2320B
Total Dissolved Solids		8000		100	mg/L	SM 2540C
Total Suspended Solids		150		20	mg/L	SM 2540D
Total Organic Carbon - Average		170	F1	4.6	mg/L	SM 5310B
Biochemical Oxygen Demand		54		25	mg/L	SM5210B
Total Recoverable						
Barium		300		100	ug/L	6010C
Chromium		110		10	ug/L	6010C
Cobalt		34		10	ug/L	6010C
Calcium		17000		200	ug/L	6010C
Copper		120	F1 F2	15	ug/L	6010C
Lead		6.6	J	10	ug/L	6010C
Nickel		230		50	ug/L	6010C
Iron		12000		100	ug/L	6010C
Zinc		78		20	ug/L	6010C
Vanadium		71		25	ug/L	6010C
Magnesium		13000		200	ug/L	6010C
Manganese		420		10	ug/L	6010C
Potassium		250000		3000	ug/L	6010C
Sodium		1400000		5000	ug/L	6010C
Antimony		100		2.0	ug/L	6020A
Arsenic		80		5.0	ug/L	6020A
Beryllium		0.29	J F1	1.0	ug/L	6020A
Thallium		0.19	J	1.0	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-66772-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-66772-2TB	**TRIP BLANK**					
Toluene		0.43	J	5.0	ug/L	8260B

METHOD SUMMARY

Client: Waste Management

Job Number: 280-66772-1

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: 280-66772-1

Method	Analyst	Analyst ID
SW846 8260B	Berger, Brent B	BBB
SW846 6010C	Rhoades, Chris R	CRR
SW846 6010C	Scott, Samantha J	SJS
SW846 6020A	Trudell, Lynn-Anne M	LMT
SW846 7470A	Grisdale, Christopher G	CGG
EPA Field Sampling	Promduang, Thaweesin	TP
MCAWW 300.0	Benson, Alex F	AFB
MCAWW 350.1	Lawrence, Caitlyn M	CML
EPA 365.1	Schwemin, Andrew J	AJS
MCAWW 410.4	Shaheen, Scott W	SWS
SM Nitrate by calc	Allen, Andrew J	AJA
SM SM 2320B	Jewell, Connie C	CCJ
SM SM 2540C	Cherry, Scott V	SVC
SM SM 2540D	Schultz, Cassandra M	CMS
SM SM 5310B	Jewell, Connie C	CCJ
SM SM5210B	Bland, Morgan R	MRB

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-66772-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-66772-1	3406-T01	Water	03/19/2015 0900	03/20/2015 0930
280-66772-2TB	TRIP BLANK	Water	03/19/2015 0000	03/20/2015 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-66772-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-66772-1

Client Matrix: Water

Date Sampled: 03/19/2015 0900

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0508.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	03/26/2015 0101			Final Weight/Volume:	20 mL
Prep Date:	03/26/2015 0101				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.42	10
1,1,1-Trichloroethane	ND		0.32	10
1,1,2,2-Tetrachloroethane	ND		0.42	6.0
1,1,2-Trichloroethane	ND		0.54	10
1,1-Dichloroethane	ND		0.44	10
1,1-Dichloroethene	ND		0.46	10
1,2,3-Trichloropropane	ND		0.66	16
1,2-Dibromo-3-Chloropropane	ND		0.94	26
1,2-Dibromoethane	ND		0.36	6.0
1,2-Dichlorobenzene	ND		0.30	20
1,2-Dichloroethane	ND		0.26	6.0
1,2-Dichloropropane	ND		0.36	6.0
1,4-Dichlorobenzene	1.4	J	0.32	6.0
2-Butanone (MEK)	230		4.0	200
2-Hexanone	ND		3.4	100
4-Methyl-2-pentanone (MIBK)	13	J	2.0	200
Acetone	220		3.8	200
Acrylonitrile	ND		2.8	400
Benzene	1.0	J	0.32	6.0
Bromochloromethane	ND		0.20	6.0
Bromodichloromethane	ND		0.34	6.0
Bromoform	ND		0.38	6.0
Bromomethane	ND		0.42	20
Carbon disulfide	ND		0.90	200
Carbon tetrachloride	ND		0.38	11
Chlorobenzene	ND		0.34	6.0
Chloroethane	ND		0.82	20
Chloroform	ND		0.32	10
Chloromethane	ND		0.60	11
cis-1,2-Dichloroethene	ND		0.30	10
cis-1,3-Dichloropropene	ND		0.32	11
Dibromochloromethane	ND		0.34	6.0
Dibromomethane	ND		0.34	20
Ethylbenzene	4.5	J	0.32	10
Iodomethane	ND		0.46	20
Methylene Chloride	ND		0.64	11
Styrene	ND		0.34	20
Tetrachloroethene	ND		0.40	6.0
Toluene	5.1	J	0.34	10
trans-1,2-Dichloroethene	ND		0.30	10
trans-1,3-Dichloropropene	ND		0.38	11
trans-1,4-Dichloro-2-butene	ND		1.6	200
Trichloroethene	ND		0.32	6.0
Trichlorofluoromethane	ND		0.58	10
Vinyl acetate	ND		1.9	100
Vinyl chloride	ND		0.20	11

Client: Waste Management

Job Number: 280-66772-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-66772-1

Client Matrix: Water

Date Sampled: 03/19/2015 0900

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0508.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	03/26/2015 0101			Final Weight/Volume:	20 mL
Prep Date:	03/26/2015 0101				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	10		0.38	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120
Toluene-d8 (Surr)	97		80 - 125

Client: Waste Management

Job Number: 280-66772-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-66772-2TB

Client Matrix: Water

Date Sampled: 03/19/2015 0000

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0509.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/26/2015 0123			Final Weight/Volume:	20 mL
Prep Date:	03/26/2015 0123				

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	ND		0.32	5.5
Styrene	ND		0.17	10
Tetrachloroethene	ND		0.20	3.0
Toluene	0.43	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: 280-66772-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-66772-2TB

Client Matrix: Water

Date Sampled: 03/19/2015 0000

Date Received: 03/20/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H0509.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/26/2015 0123			Final Weight/Volume:	20 mL
Prep Date:	03/26/2015 0123				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
Toluene-d8 (Surr)	101		80 - 125

Client: Waste Management

Job Number: 280-66772-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-66772-1

Client Matrix: Water

Date Sampled: 03/19/2015 0900

Date Received: 03/20/2015 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-269415	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269042	Lab File ID:	26f032315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 0349			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	300		0.58	100
Chromium	110		0.66	10
Cobalt	34		1.2	10
Calcium	17000		35	200
Copper	120	F1 F2	1.4	15
Lead	6.6	J	2.6	10
Nickel	230		1.3	50
Iron	12000		22	100
Zinc	78		4.5	20
Vanadium	71		1.1	25
Magnesium	13000		11	200
Manganese	420		0.25	10
Silver	ND		0.93	10
Potassium	250000		240	3000
Sodium	1400000		92	5000

Analysis Method:	6010C	Analysis Batch:	280-269627	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-269042	Lab File ID:	26A032415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1449			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Selenium	ND		4.9	15

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269390	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269039	Lab File ID:	164SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2203			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	80		0.33	5.0
Beryllium	0.29	J F1	0.080	1.0
Cadmium	ND		0.27	1.0
Thallium	0.19	J	0.050	1.0

Client: Waste Management

Job Number: 280-66772-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-66772-1

Client Matrix: Water

Date Sampled: 03/19/2015 0900

Date Received: 03/20/2015 0930

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-269517	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-269039	Lab File ID:	033SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1252			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	100		0.40	2.0

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	280-270036	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-269206	Lab File ID:	150325aaa.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	03/25/2015 2006			Final Weight/Volume:	30 mL
Prep Date:	03/25/2015 1230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.31		0.027	0.20

General Chemistry

Client Sample ID: **3406-T01**

Lab Sample ID: 280-66772-1 Date Sampled: 03/19/2015 0900
Client Matrix: Water Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	1300		mg/L	5.1	6.0	20	300.0
Analysis Batch: 280-269235	Analysis Date: 03/23/2015 2100						
Sulfate	67		mg/L	0.46	10	2.0	300.0
Analysis Batch: 280-269235	Analysis Date: 03/23/2015 1809						
Ammonia	440		mg/L	8.8	16	400	350.1
Analysis Batch: 280-269567	Analysis Date: 03/24/2015 1326						
Phosphorus, Total	4.3		mg/L	0.050	0.50	10	365.1
Analysis Batch: 280-269968	Analysis Date: 03/26/2015 2213						
Prep Batch: 280-269901	Prep Date: 03/26/2015 1527						
Chemical Oxygen Demand	640		mg/L	41	500	10	410.4
Analysis Batch: 280-269019	Analysis Date: 03/20/2015 1542						
Nitrate as N	ND		mg/L	0.019	0.50	1.0	Nitrate by calc
Analysis Batch: 280-270039	Analysis Date: 03/27/2015 0948						
Total Alkalinity	4400	B	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-269477	Analysis Date: 03/24/2015 1214						
Bicarbonate Alkalinity as CaCO3	4400	B	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-269477	Analysis Date: 03/24/2015 1214						
Carbonate Alkalinity as CaCO3	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-269477	Analysis Date: 03/24/2015 1214						
Total Dissolved Solids	8000		mg/L	47	100	1.0	SM 2540C
Analysis Batch: 280-269473	Analysis Date: 03/24/2015 1212						
Total Suspended Solids	150		mg/L	5.5	20	1.0	SM 2540D
Analysis Batch: 280-269336	Analysis Date: 03/23/2015 1655						
Total Organic Carbon - Average	170	F1	mg/L	0.71	4.6	4.55	SM 5310B
Analysis Batch: 280-269501	Analysis Date: 03/23/2015 2338						
Biochemical Oxygen Demand	54		mg/L	3.0	25	5.0	SM5210B
Analysis Batch: 280-269002	Analysis Date: 03/20/2015 1354						

Field Service / Mobile Lab

Client Sample ID: **3406-T01**

Lab Sample ID: 280-66772-1

Client Matrix: Water

Date Sampled: 03/19/2015 0900

Date Received: 03/20/2015 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.30		SU	1.0	Field Sampling	280-269216	03/19/2015 0700
Field Conductivity	3422		umhos/cm	1.0	Field Sampling	280-269216	03/19/2015 0700
Field Temperature	8.4		Degrees C	1.0	Field Sampling	280-269216	03/19/2015 0700
Field Turbidity	487.2		NTU	1.0	Field Sampling	280-269216	03/19/2015 0700

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-66772-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	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.
	F2	MS/MSD RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	F1	MS and/or MSD Recovery exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-66772-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-269715					
LCS 280-269715/4	Lab Control Sample	T	Water	8260B	
MB 280-269715/6	Method Blank	T	Water	8260B	
280-66772-1	3406-T01	T	Water	8260B	
280-66772-2TB	TRIP BLANK	T	Water	8260B	
280-66870-B-1 MS	Matrix Spike	T	Water	8260B	
280-66870-B-1 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis

T = Total

Metals					
Prep Batch: 280-269039					
LCS 280-269039/2-A	Lab Control Sample	R	Water	3005A	
MB 280-269039/1-A	Method Blank	R	Water	3005A	
280-66772-1	3406-T01	R	Water	3005A	
280-66772-1MS	Matrix Spike	R	Water	3005A	
280-66772-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 280-269042					
LCS 280-269042/2-A	Lab Control Sample	R	Water	3005A	
MB 280-269042/1-A	Method Blank	R	Water	3005A	
280-66772-1	3406-T01	R	Water	3005A	
280-66772-1MS	Matrix Spike	R	Water	3005A	
280-66772-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 280-269206					
LCS 280-269206/2-A	Lab Control Sample	T	Water	7470A	
MB 280-269206/1-A	Method Blank	T	Water	7470A	
280-66772-1	3406-T01	T	Water	7470A	
280-66853-G-4-D MS	Matrix Spike	T	Water	7470A	
280-66853-G-4-E MSD	Matrix Spike Duplicate	T	Water	7470A	
Analysis Batch:280-269390					
LCS 280-269039/2-A	Lab Control Sample	R	Water	6020A	280-269039
MB 280-269039/1-A	Method Blank	R	Water	6020A	280-269039
280-66772-1	3406-T01	R	Water	6020A	280-269039
280-66772-1MS	Matrix Spike	R	Water	6020A	280-269039
280-66772-1MSD	Matrix Spike Duplicate	R	Water	6020A	280-269039
Analysis Batch:280-269415					
LCS 280-269042/2-A	Lab Control Sample	R	Water	6010C	280-269042
MB 280-269042/1-A	Method Blank	R	Water	6010C	280-269042
280-66772-1	3406-T01	R	Water	6010C	280-269042
280-66772-1MS	Matrix Spike	R	Water	6010C	280-269042

Client: Waste Management

Job Number: 280-66772-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-269415					
280-66772-1MSD	Matrix Spike Duplicate	R	Water	6010C	280-269042
Analysis Batch:280-269517					
LCS 280-269039/2-A	Lab Control Sample	R	Water	6020A	280-269039
MB 280-269039/1-A	Method Blank	R	Water	6020A	280-269039
280-66772-1	3406-T01	R	Water	6020A	280-269039
280-66772-1MS	Matrix Spike	R	Water	6020A	280-269039
280-66772-1MSD	Matrix Spike Duplicate	R	Water	6020A	280-269039
Analysis Batch:280-269627					
LCS 280-269042/2-A	Lab Control Sample	R	Water	6010C	280-269042
MB 280-269042/1-A	Method Blank	R	Water	6010C	280-269042
280-66772-1	3406-T01	R	Water	6010C	280-269042
280-66772-1MS	Matrix Spike	R	Water	6010C	280-269042
280-66772-1MSD	Matrix Spike Duplicate	R	Water	6010C	280-269042
Analysis Batch:280-270036					
LCS 280-269206/2-A	Lab Control Sample	T	Water	7470A	280-269206
MB 280-269206/1-A	Method Blank	T	Water	7470A	280-269206
280-66772-1	3406-T01	T	Water	7470A	280-269206
280-66853-G-4-D MS	Matrix Spike	T	Water	7470A	280-269206
280-66853-G-4-E MSD	Matrix Spike Duplicate	T	Water	7470A	280-269206

Report Basis

R = Total Recoverable

T = Total

Field Service / Mobile Lab					
Analysis Batch:280-269216					
280-66772-1	3406-T01	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-66772-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-269002					
LCS 280-269002/3	Lab Control Sample	T	Water	SM5210B	
MB 280-269002/5	Method Blank	T	Water	SM5210B	
280-66772-1	3406-T01	T	Water	SM5210B	
280-66772-1DU	Duplicate	T	Water	SM5210B	
Analysis Batch:280-269019					
LCS 280-269019/3	Lab Control Sample	T	Water	410.4	
MB 280-269019/4	Method Blank	T	Water	410.4	
280-66450-I-9 MS	Matrix Spike	T	Water	410.4	
280-66450-I-9 MSD	Matrix Spike Duplicate	T	Water	410.4	
280-66772-1	3406-T01	T	Water	410.4	
Analysis Batch:280-269235					
LCS 280-269235/4	Lab Control Sample	T	Water	300.0	
LCSD 280-269235/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-269235/6	Method Blank	T	Water	300.0	
160-10968-H-20 DU	Duplicate	T	Water	300.0	
160-10968-H-20 MS	Matrix Spike	T	Water	300.0	
160-10968-H-20 MSD	Matrix Spike Duplicate	T	Water	300.0	
160-10968-G-23 DU	Duplicate	T	Water	300.0	
160-10968-G-23 MS	Matrix Spike	T	Water	300.0	
160-10968-G-23 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-66772-1	3406-T01	T	Water	300.0	
Analysis Batch:280-269336					
LCS 280-269336/1	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-269336/2	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-269336/3	Method Blank	T	Water	SM 2540D	
280-66753-A-1 DU	Duplicate	T	Water	SM 2540D	
280-66772-1	3406-T01	T	Water	SM 2540D	
Analysis Batch:280-269473					
LCS 280-269473/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-269473/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-269473/1	Method Blank	T	Water	SM 2540C	
280-66772-1	3406-T01	T	Water	SM 2540C	
280-66803-A-1 DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-269477					
LCS 280-269477/4	Lab Control Sample	T	Water	SM 2320B	
MB 280-269477/5	Method Blank	T	Water	SM 2320B	
280-66622-B-1 DU	Duplicate	T	Water	SM 2320B	
280-66772-1	3406-T01	T	Water	SM 2320B	

Client: Waste Management

Job Number: 280-66772-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-269501					
LCS 280-269501/3	Lab Control Sample	T	Water	SM 5310B	
MB 280-269501/4	Method Blank	T	Water	SM 5310B	
280-66772-1	3406-T01	T	Water	SM 5310B	
280-66772-1MS	Matrix Spike	T	Water	SM 5310B	
280-66772-1MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-269502					
LCS 280-269502/3	Lab Control Sample	T	Water	SM 5310B	
MB 280-269502/4	Method Blank	T	Water	SM 5310B	
280-66772-1	3406-T01	T	Water	SM 5310B	
280-66772-1MS	Matrix Spike	T	Water	SM 5310B	
280-66772-1MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-269567					
LCS 280-269567/105	Lab Control Sample	T	Water	350.1	
LCSD 280-269567/106	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-269567/107	Method Blank	T	Water	350.1	
280-66772-1	3406-T01	T	Water	350.1	
280-66850-B-2 MS	Matrix Spike	T	Water	350.1	
280-66850-B-2 MSD	Matrix Spike Duplicate	T	Water	350.1	
Prep Batch: 280-269901					
LCS 280-269901/1-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 280-269901/2-A	Method Blank	T	Water	365.2/365.3/365	
280-66763-E-2-B MS	Matrix Spike	T	Water	365.2/365.3/365	
280-66763-E-2-C MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
280-66772-1	3406-T01	T	Water	365.2/365.3/365	
Analysis Batch:280-269968					
LCS 280-269901/1-A	Lab Control Sample	T	Water	365.1	280-269901
MB 280-269901/2-A	Method Blank	T	Water	365.1	280-269901
280-66763-E-2-B MS	Matrix Spike	T	Water	365.1	280-269901
280-66763-E-2-C MSD	Matrix Spike Duplicate	T	Water	365.1	280-269901
280-66772-1	3406-T01	T	Water	365.1	280-269901
Analysis Batch:280-270039					
MB 280-270039/1	Method Blank	T	Water	Nitrate by calc	
280-66772-1	3406-T01	T	Water	Nitrate by calc	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-66772-1

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
280-66772-1	3406-T01	110	97	105	97
280-66772-2	TRIP BLANK	109	103	106	101
MB 280-269715/6		110	101	107	100
LCS 280-269715/4		114	103	108	110
280-66870-B-1 MS		108	95	103	110
280-66870-B-1 MSD		108	100	103	105

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: 280-66772-1

Method Blank - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-269715/6	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0497.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2055	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2055				
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	ND		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: 280-66772-1

Method Blank - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-269715/6	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0497.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2055	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2055				
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)	110	70 - 127
4-Bromofluorobenzene (Surr)	101	78 - 120
Dibromofluoromethane (Surr)	107	77 - 120
Toluene-d8 (Surr)	100	80 - 125

Lab Control Sample - Batch: 280-269715

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-269715/4	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0495.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2010	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2010				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	5.82	116	65 - 135	
1,1-Dichloroethane	5.00	5.55	111	65 - 135	
1,1-Dichloroethene	5.00	5.10	102	65 - 136	
1,2-Dichloropropane	5.00	5.32	106	64 - 135	
1,3-Dichlorobenzene	5.00	4.76	95	65 - 135	
Benzene	5.00	5.12	102	65 - 135	
Bromodichloromethane	5.00	5.38	108	65 - 135	
Carbon tetrachloride	5.00	5.54	111	65 - 135	
Chlorobenzene	5.00	4.85	97	65 - 135	
Chloroform	5.00	5.57	111	65 - 135	
Ethylbenzene	5.00	4.82	96	65 - 135	J
Methylene Chloride	5.00	4.94	99	54 - 141	J
Tetrachloroethene	5.00	5.07	101	65 - 135	
Toluene	5.00	5.11	102	65 - 135	
trans-1,2-Dichloroethene	5.00	5.24	105	65 - 135	
Trichloroethene	5.00	5.37	107	65 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114	70 - 127
4-Bromofluorobenzene (Surr)	103	78 - 120
Dibromofluoromethane (Surr)	108	77 - 120
Toluene-d8 (Surr)	110	80 - 125

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269715

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66870-B-1 MS	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0499.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2140			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2140				20 mL
Leach Date:	N/A				

MSD Lab Sample ID:	280-66870-B-1 MSD	Analysis Batch:	280-269715	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H0500.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/25/2015 2203			Final Weight/Volume:	20 mL
Prep Date:	03/25/2015 2203				20 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	124	109	65 - 135	13	20		
1,1-Dichloroethane	119	105	65 - 135	12	21		
1,1-Dichloroethene	108	94	65 - 136	14	20		J
1,2-Dichloropropane	109	100	64 - 135	8	20		
1,3-Dichlorobenzene	98	87	65 - 135	11	20		
Benzene	109	97	65 - 135	11	20		
Bromodichloromethane	115	107	65 - 135	7	20		
Carbon tetrachloride	116	106	65 - 135	9	21		J
Chlorobenzene	103	90	65 - 135	14	20		
Chloroform	116	107	65 - 135	8	20		
Ethylbenzene	104	91	65 - 135	13	20		J
Methylene Chloride	98	88	54 - 141	11	26	J	J
Tetrachloroethene	108	93	65 - 135	15	20		
Toluene	107	99	65 - 135	8	20		J
trans-1,2-Dichloroethene	112	100	65 - 135	11	24		
Trichloroethene	113	103	65 - 135	10	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108	108	70 - 127
4-Bromofluorobenzene (Surr)	95	100	78 - 120
Dibromofluoromethane (Surr)	103	103	77 - 120
Toluene-d8 (Surr)	110	105	80 - 125

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269715

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-66870-B-1 MS	Units:	ug/L	MSD Lab Sample ID:	280-66870-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/25/2015 2140			Analysis Date:	03/25/2015 2203
Prep Date:	03/25/2015 2140			Prep Date:	03/25/2015 2203
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	6.22		5.47	
1,1-Dichloroethane	ND	5.00	5.00	5.95		5.27	
1,1-Dichloroethene	ND	5.00	5.00	5.41		4.72	J
1,2-Dichloropropane	ND	5.00	5.00	5.46		5.02	
1,3-Dichlorobenzene	ND	5.00	5.00	4.88		4.35	
Benzene	ND	5.00	5.00	5.43		4.87	
Bromodichloromethane	ND	5.00	5.00	5.75		5.37	
Carbon tetrachloride	ND	5.00	5.00	5.78		5.30	J
Chlorobenzene	ND	5.00	5.00	5.17		4.51	
Chloroform	ND	5.00	5.00	5.81		5.36	
Ethylbenzene	ND	5.00	5.00	5.18		4.55	J
Methylene Chloride	ND	5.00	5.00	4.91	J	4.38	J
Tetrachloroethene	ND	5.00	5.00	5.39		4.64	
Toluene	ND	5.00	5.00	5.34		4.93	J
trans-1,2-Dichloroethene	ND	5.00	5.00	5.59		5.02	
Trichloroethene	ND	5.00	5.00	5.66		5.13	

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269042

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-269042/1-A	Analysis Batch:	280-269415	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269042	Lab File ID:	26f032315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 0344	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	ND		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
Silver	ND		0.93	10
Potassium	ND		240	3000
Sodium	ND		92	5000

Method Blank - Batch: 280-269042

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-269042/1-A	Analysis Batch:	280-269627	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269042	Lab File ID:	26A032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1444	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Selenium	ND		4.9	15

Client: Waste Management

Job Number: 280-66772-1

Lab Control Sample - Batch: 280-269042

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-269042/2-A	Analysis Batch:	280-269415	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269042	Lab File ID:	26f032315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 0346	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2080	104	90 - 112	
Chromium	200	211	105	90 - 113	
Cobalt	500	511	102	89 - 111	
Calcium	50000	49500	99	90 - 111	
Copper	250	270	108	86 - 112	
Lead	500	505	101	89 - 110	
Nickel	500	517	103	89 - 111	
Iron	1000	958	96	89 - 115	
Zinc	500	494	99	85 - 111	
Vanadium	500	502	100	90 - 111	
Magnesium	50000	51400	103	90 - 113	
Manganese	500	499	100	90 - 110	
Silver	50.0	51.7	103	86 - 115	
Potassium	50000	52400	105	89 - 114	
Sodium	50000	52600	105	90 - 115	

Lab Control Sample - Batch: 280-269042

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-269042/2-A	Analysis Batch:	280-269627	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269042	Lab File ID:	26A032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1446	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Selenium	2000	2150	107	85 - 112	

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269042

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66772-1	Analysis Batch:	280-269415	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269042	Lab File ID:	26f032315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 0355			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66772-1	Analysis Batch:	280-269415	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269042	Lab File ID:	26f032315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 0357			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	102	105	85 - 120	3	20		
Chromium	102	108	73 - 135	4	20		
Cobalt	96	99	82 - 119	4	20		
Calcium	96	99	48 - 153	2	20		
Copper	109	158	82 - 129	27	20		F1 F2
Lead	90	93	89 - 121	4	20		
Nickel	96	102	84 - 120	3	20		
Iron	156	214	52 - 155	4	20	4	4
Zinc	102	106	60 - 137	4	20		
Vanadium	99	103	85 - 120	4	20		
Magnesium	93	97	62 - 146	3	20		
Manganese	98	103	79 - 121	3	20		
Silver	105	108	75 - 141	3	20		
Potassium	108	117	76 - 132	1	20	4	4
Sodium	154	191	70 - 203	1	20	4	4

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269042

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66772-1	Analysis Batch:	280-269627	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269042	Lab File ID:	26A032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1454			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66772-1	Analysis Batch:	280-269627	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-269042	Lab File ID:	26A032415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1457			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Selenium	102	105	71 - 140	3	20		

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269042

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66772-1	Units:	ug/L	MSD Lab Sample ID:	280-66772-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/24/2015 0355			Analysis Date:	03/24/2015 0357
Prep Date:	03/23/2015 0900			Prep Date:	03/23/2015 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	
Barium	300		2000	2000	2330		2390	
Chromium	110		200	200	310		322	
Cobalt	34		500	500	511		531	
Calcium	17000		50000	50000	64600		66000	
Copper	120		250	250	393		515	F1 F2
Lead	6.6	J	500	500	454		472	
Nickel	230		500	500	717		742	
Iron	12000		1000	1000	13800	4	14400	4
Zinc	78		500	500	586		609	
Vanadium	71		500	500	565		585	
Magnesium	13000		50000	50000	59700		61500	
Manganese	420		500	500	913		941	
Silver	ND		50.0	50.0	52.7		54.2	
Potassium	250000		50000	50000	307000	4	311000	4
Sodium	1400000		50000	50000	1440000	4	1460000	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269042

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66772-1	Units:	ug/L	MSD Lab Sample ID:	280-66772-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/24/2015 1454			Analysis Date:	03/24/2015 1457
Prep Date:	03/23/2015 0900			Prep Date:	03/23/2015 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
Selenium	ND	2000	2000	2030	2100

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269039

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-269039/1-A	Analysis Batch:	280-269390	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269039	Lab File ID:	162_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2155	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.33	5.0
Beryllium	ND		0.080	1.0
Cadmium	ND		0.27	1.0
Thallium	ND		0.050	1.0

Method Blank - Batch: 280-269039

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-269039/1-A	Analysis Batch:	280-269517	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269039	Lab File ID:	031_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1245	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	2.0

Client: Waste Management

Job Number: 280-66772-1

Lab Control Sample - Batch: 280-269039

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-269039/2-A	Analysis Batch:	280-269390	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269039	Lab File ID:	163_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2159	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	40.0	41.0	103	85 - 117	
Beryllium	40.0	39.7	99	80 - 125	
Cadmium	40.0	39.0	97	85 - 115	
Thallium	40.0	40.1	100	85 - 118	

Lab Control Sample - Batch: 280-269039

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-269039/2-A	Analysis Batch:	280-269517	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269039	Lab File ID:	032_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1249	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	37.4	93	85 - 115	

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269039

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66772-1	Analysis Batch:	280-269390	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269039	Lab File ID:	166SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2210			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66772-1	Analysis Batch:	280-269390	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269039	Lab File ID:	167SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2214			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	101	99	85 - 117	1	20		
Beryllium	72	72	80 - 125	0	20	F1	F1
Cadmium	91	93	85 - 115	2	20		
Thallium	94	95	85 - 118	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269039

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66772-1	Analysis Batch:	280-269517	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269039	Lab File ID:	035SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1300			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66772-1	Analysis Batch:	280-269517	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-269039	Lab File ID:	036SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/24/2015 1304			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 0900				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	101	101	85 - 115	0	20		

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269039

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66772-1	Units:	ug/L	MSD Lab Sample ID:	280-66772-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/23/2015 2210			Analysis Date:	03/23/2015 2214
Prep Date:	03/23/2015 0900			Prep Date:	03/23/2015 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	
Arsenic	80		40.0	40.0	121		120	
Beryllium	0.29	J	40.0	40.0	29.0	F1	28.9	F1
Cadmium	ND		40.0	40.0	36.6		37.2	
Thallium	0.19	J	40.0	40.0	37.7		38.1	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269039

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-66772-1	Units:	ug/L	MSD Lab Sample ID:	280-66772-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/24/2015 1300			Analysis Date:	03/24/2015 1304
Prep Date:	03/23/2015 0900			Prep Date:	03/23/2015 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	100	40.0	40.0	144	144

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269206

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 280-269206/1-A	Analysis Batch:	280-270036	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-269206	Lab File ID:	150325aaa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	03/25/2015 1957	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	03/25/2015 1230				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.027	0.20

Lab Control Sample - Batch: 280-269206

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 280-269206/2-A	Analysis Batch:	280-270036	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-269206	Lab File ID:	150325aaa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	03/25/2015 2000	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	03/25/2015 1230				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.15	103	84 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269206

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	280-66853-G-4-D MS	Analysis Batch:	280-270036	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-269206	Lab File ID:	150325aaa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	03/25/2015 2025			Final Weight/Volume:	30 mL
Prep Date:	03/25/2015 1230				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66853-G-4-E MSD	Analysis Batch:	280-270036	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-269206	Lab File ID:	150325aaa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	03/25/2015 2027			Final Weight/Volume:	30 mL
Prep Date:	03/25/2015 1230				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	82	80	75 - 125	2	20		

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269206

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	280-66853-G-4-D MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/25/2015 2025		
Prep Date:	03/25/2015 1230		
Leach Date:	N/A		

MSD Lab Sample ID:	280-66853-G-4-E MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/25/2015 2027
Prep Date:	03/25/2015 1230
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	5.00	5.00	4.09	3.99

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269235

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-269235/6	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 1019	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: 280-269235

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-269235/3	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 0932	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	2.44	98	50 - 150	J
Sulfate	2.50	2.38	95	50 - 150	J

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-269235

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-269235/4	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 0948	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-269235/5	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 1003	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	99	98	90 - 110	0	10		
Sulfate	98	98	90 - 110	0	10		

Client: Waste Management

Job Number: 280-66772-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-269235

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-269235/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-269235/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/23/2015 0948			Analysis Date:	03/23/2015 1003
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	98.7	98.4
Sulfate	100	100	98.4	98.3

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269235

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	160-10968-G-23 MS	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 1550			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	160-10968-G-23 MSD	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 1605			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	107	107	80 - 120	0	20		
Sulfate	108	109	80 - 120	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269235

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	160-10968-H-20 MS	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 1911			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	160-10968-H-20 MSD	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 1926			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	105	107	80 - 120	2	20		
Sulfate	102	105	80 - 120	2	20		

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269235

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	160-10968-G-23 MS	Units:	mg/L	MSD Lab Sample ID:	160-10968-G-23 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/23/2015 1550			Analysis Date:	03/23/2015 1605
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	9.2		25.0	25.0	35.9	36.0
Sulfate	24		25.0	25.0	51.5	51.7

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269235

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	160-10968-H-20 MS	Units:	mg/L	MSD Lab Sample ID:	160-10968-H-20 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/23/2015 1911			Analysis Date:	03/23/2015 1926
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	3.8		25.0	25.0	30.0	30.7
Sulfate	2.0	J	25.0	25.0	27.5	28.2

Client: Waste Management

Job Number: 280-66772-1

Duplicate - Batch: 280-269235

Method: 300.0
Preparation: N/A

Lab Sample ID:	160-10968-G-23 DU	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 1534	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chloride	9.2		9.18	0.3	15	
Sulfate	24		24.5	0.06	15	

Duplicate - Batch: 280-269235

Method: 300.0
Preparation: N/A

Lab Sample ID:	160-10968-H-20 DU	Analysis Batch:	280-269235	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/23/2015 1855	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chloride	3.8		3.87	2	15	
Sulfate	2.0	J	1.94	3	15	J

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269567

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-269567/107	Analysis Batch:	280-269567	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032415.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	03/24/2015 1206	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia	ND		0.022	0.040

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-269567

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-269567/105	Analysis Batch:	280-269567	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032415.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	03/24/2015 1202	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-269567/106	Analysis Batch:	280-269567	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032415.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	03/24/2015 1204	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
Ammonia	94	102	90 - 110	7	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-269567

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-269567/105	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-269567/106
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/24/2015 1202			Analysis Date:	03/24/2015 1204
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
Ammonia	2.50	2.50	2.36	2.54

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269567

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-66850-B-2 MS	Analysis Batch:	280-269567	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032415.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	03/24/2015 1248			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66850-B-2 MSD	Analysis Batch:	280-269567	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032415.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	03/24/2015 1250			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia	104	104	90 - 110	0	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269567

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-66850-B-2 MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/24/2015 1248		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-66850-B-2 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/24/2015 1250
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia	ND	1.00	1.00	1.04	1.04

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269901

Method: 365.1
Preparation: 365.2/365.3/365

Lab Sample ID:	MB 280-269901/2-A	Analysis Batch:	280-269968	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-269901	Lab File ID:	032615TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/26/2015 2140	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	03/26/2015 1527				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	ND		0.0050	0.050

Lab Control Sample - Batch: 280-269901

Method: 365.1
Preparation: 365.2/365.3/365

Lab Sample ID:	LCS 280-269901/1-A	Analysis Batch:	280-269968	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-269901	Lab File ID:	032615TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/26/2015 2140	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	03/26/2015 1527				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phosphorus, Total	0.500	0.501	100	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269901

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-66763-E-2-B MS	Analysis Batch:	280-269968	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-269901	Lab File ID:	032615TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/26/2015 2140			Final Weight/Volume:	50.0 mL
Prep Date:	03/26/2015 1527				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66763-E-2-C MSD	Analysis Batch:	280-269968	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-269901	Lab File ID:	032615TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/26/2015 2140			Final Weight/Volume:	50.0 mL
Prep Date:	03/26/2015 1527				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phosphorus, Total	100	99	90 - 110	1	10		

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269901

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-66763-E-2-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/26/2015 2140		
Prep Date:	03/26/2015 1527		
Leach Date:	N/A		

MSD Lab Sample ID:	280-66763-E-2-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/26/2015 2140
Prep Date:	03/26/2015 1527
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Phosphorus, Total	ND	0.500	0.500	0.499	0.494

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269019

Method: 410.4
Preparation: N/A

Lab Sample ID:	MB 280-269019/4	Analysis Batch:	280-269019	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:	03/20/2015 1542	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 - Batch: 280-269019

Method: 410.4
Preparation: N/A

Lab Sample ID:	LCS 280-269019/3	Analysis Batch:	280-269019	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:	03/20/2015 1542	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chemical Oxygen Demand	100	91.1	91	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269019

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-66450-I-9 MS	Analysis Batch:	280-269019	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:	03/20/2015 1542			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66450-I-9 MSD	Analysis Batch:	280-269019	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:	03/20/2015 1542			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chemical Oxygen Demand	95	84	90 - 110	10	11		F1

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269019

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-66450-I-9 MS	Units:	mg/L	MSD Lab Sample ID:	280-66450-I-9 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/20/2015 1542			Analysis Date:	03/20/2015 1542
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	
Chemical Oxygen Demand	11	J	50.0	50.0	58.3	53.0	F1

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-270039

Method: Nitrate by calc
Preparation: N/A

Lab Sample ID:	MB 280-270039/1	Analysis Batch:	280-270039	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:	03/27/2015 0948	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: 280-66772-1

Method Blank - Batch: 280-269477

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-269477/5	Analysis Batch:	280-269477	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032415 high alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/24/2015 1146	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Alkalinity	2.77	J	1.1	5.0
Bicarbonate Alkalinity as CaCO3	2.77	J	1.1	5.0
Carbonate Alkalinity as CaCO3	ND		1.1	5.0

Lab Control Sample - Batch: 280-269477

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-269477/4	Analysis Batch:	280-269477	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032415 high alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/24/2015 1142	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Alkalinity	1000	981	98	90 - 110	

Duplicate - Batch: 280-269477

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-66622-B-1 DU	Analysis Batch:	280-269477	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032415 high alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/24/2015 1205	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	ND	ND	NC	10	

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269473

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-269473/1	Analysis Batch:	280-269473	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:	03/24/2015 1212	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: 280-269473

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-269473/2	Analysis Batch:	280-269473	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:	03/24/2015 1212	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-269473/3	Analysis Batch:	280-269473	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:	03/24/2015 1212	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	99	97	86 - 110	1	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-269473

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-269473/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-269473/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/24/2015 1212			Analysis Date:	03/24/2015 1212
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	502	502	495	488

Client: Waste Management

Job Number: 280-66772-1

Duplicate - Batch: 280-269473

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-66803-A-1 DU	Analysis Batch:	280-269473	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:	03/24/2015 1212	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	840	837	0	10	

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269336

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 280-269336/3	Analysis Batch:	280-269336	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:	03/23/2015 1655	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	ND		1.1	4.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-269336

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-269336/1	Analysis Batch:	280-269336	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:	03/23/2015 1655	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-269336/2	Analysis Batch:	280-269336	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:	03/23/2015 1655	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	95	97	86 - 114	2	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-269336

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-269336/1	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-269336/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/23/2015 1655			Analysis Date:	03/23/2015 1655
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 Suspended Solids	100	100	95.0	97.0

Client: Waste Management

Job Number: 280-66772-1

Duplicate - Batch: 280-269336

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-66753-A-1 DU	Analysis Batch:	280-269336	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:	03/23/2015 1655	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	41	45.6	10	10	

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269501

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-269501/4	Analysis Batch:	280-269501	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032315B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/23/2015 1814	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 - Batch: 280-269501

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCS 280-269501/3	Analysis Batch:	280-269501	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032315B.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/23/2015 1757	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon - Average	25.0	24.1	96	88 - 112	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269501

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-66772-1	Analysis Batch:	280-269501	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032315B.txt
Dilution:	5.56	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/23/2015 2358			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-66772-1	Analysis Batch:	280-269501	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032315B.txt
Dilution:	5.88	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/24/2015 0019			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	88	80	88 - 112	2	15		F1

Client: Waste Management

Job Number: 280-66772-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-269501

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-66772-1	Units:	mg/L	MSD Lab Sample ID:	280-66772-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5.56			Dilution:	5.88
Analysis Date:	03/23/2015 2358			Analysis Date:	03/24/2015 0019
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	170	50.0	50.0	213	209	F1

Client: Waste Management

Job Number: 280-66772-1

Method Blank - Batch: 280-269002

Method: SM5210B
Preparation: N/A

Lab Sample ID:	MB 280-269002/5	Analysis Batch:	280-269002	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:	03/20/2015 1353	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 - Batch: 280-269002

Method: SM5210B
Preparation: N/A

Lab Sample ID:	LCS 280-269002/3	Analysis Batch:	280-269002	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:	03/20/2015 1353	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	200	101	85 - 115	

Duplicate - Batch: 280-269002

Method: SM5210B
Preparation: N/A

Lab Sample ID:	280-66772-1	Analysis Batch:	280-269002	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/20/2015 1354	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	54	62.4	14	20	

Client: Waste Management

Job Number: 280-66772-1

Laboratory Chronicle

Lab ID: **280-66772-1** **Client ID:** **3406-T01**

Sample Date/Time: 03/19/2015 09:00 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66772-J-1		280-269715		03/26/2015 01:01	1	TAL DEN	BBB
A:8260B	280-66772-J-1		280-269715		03/26/2015 01:01	1	TAL DEN	BBB
P:3005A	280-66772-E-1-D		280-269415	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	280-66772-E-1-D		280-269415	280-269042	03/24/2015 03:49	1	TAL DEN	CRR
P:3005A	280-66772-E-1-D		280-269627	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	280-66772-E-1-D		280-269627	280-269042	03/24/2015 14:49	1	TAL DEN	SJS
P:3005A	280-66772-E-1-A		280-269390	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	280-66772-E-1-A		280-269390	280-269039	03/23/2015 22:03	1	TAL DEN	LMT
P:3005A	280-66772-E-1-A		280-269517	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	280-66772-E-1-A		280-269517	280-269039	03/24/2015 12:52	1	TAL DEN	LMT
P:7470A	280-66772-E-1-G		280-270036	280-269206	03/25/2015 12:30	1	TAL DEN	CGG
A:7470A	280-66772-E-1-G		280-270036	280-269206	03/25/2015 20:06	1	TAL DEN	CGG
A:300.0	280-66772-A-1		280-269235		03/23/2015 18:09	2	TAL DEN	AFB
A:300.0	280-66772-A-1		280-269235		03/23/2015 21:00	20	TAL DEN	AFB
A:350.1	280-66772-F-1		280-269567		03/24/2015 13:26	400	TAL DEN	CML
P:365.2/365.3/365	280-66772-G-1-A		280-269968	280-269901	03/26/2015 15:27	10	TAL DEN	AJS
A:365.1	280-66772-G-1-A		280-269968	280-269901	03/26/2015 22:13	10	TAL DEN	AJS
A:410.4	280-66772-F-1		280-269019		03/20/2015 15:42	10	TAL DEN	SWS
A:Nitrate by calc	280-66772-A-1		280-270039		03/27/2015 09:48	1	TAL DEN	AJA
A:SM 2320B	280-66772-C-1		280-269477		03/24/2015 12:14	1	TAL DEN	CCJ
A:SM 2540C	280-66772-B-1		280-269473		03/24/2015 12:12	1	TAL DEN	SVC
A:SM 2540D	280-66772-B-1		280-269336		03/23/2015 16:55	1	TAL DEN	CMS
A:SM 5310B	280-66772-K-1		280-269501		03/23/2015 23:38	4.55	TAL DEN	CCJ
A:SM5210B	280-66772-A-1		280-269002		03/20/2015 13:54	5	TAL DEN	MRB
A:Field Sampling	280-66772-A-1		280-269216		03/19/2015 07:00	1	TAL DEN	TP

Lab ID: **280-66772-1 MS** **Client ID:** **3406-T01**

Sample Date/Time: 03/19/2015 09:00 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-66772-E-1-E MS		280-269415	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	280-66772-E-1-E MS		280-269415	280-269042	03/24/2015 03:55	1	TAL DEN	CRR
P:3005A	280-66772-E-1-E MS		280-269627	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	280-66772-E-1-E MS		280-269627	280-269042	03/24/2015 14:54	1	TAL DEN	SJS
P:3005A	280-66772-E-1-B MS		280-269390	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	280-66772-E-1-B MS		280-269390	280-269039	03/23/2015 22:10	1	TAL DEN	LMT
P:3005A	280-66772-E-1-B MS		280-269517	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	280-66772-E-1-B MS		280-269517	280-269039	03/24/2015 13:00	1	TAL DEN	LMT
A:SM 5310B	280-66772-K-1 MS		280-269501		03/23/2015 23:58	5.56	TAL DEN	CCJ

Client: Waste Management

Job Number: 280-66772-1

Laboratory Chronicle

Lab ID: **280-66772-1 MSD** **Client ID:** **3406-T01**

Sample Date/Time: 03/19/2015 09:00 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-66772-E-1-F MSD		280-269415	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	280-66772-E-1-F MSD		280-269415	280-269042	03/24/2015 03:57	1	TAL DEN	CRR
P:3005A	280-66772-E-1-F MSD		280-269627	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	280-66772-E-1-F MSD		280-269627	280-269042	03/24/2015 14:57	1	TAL DEN	SJS
P:3005A	280-66772-E-1-C MSD		280-269390	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	280-66772-E-1-C MSD		280-269390	280-269039	03/23/2015 22:14	1	TAL DEN	LMT
P:3005A	280-66772-E-1-C MSD		280-269517	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	280-66772-E-1-C MSD		280-269517	280-269039	03/24/2015 13:04	1	TAL DEN	LMT
A:SM 5310B	280-66772-K-1 MSD		280-269501		03/24/2015 00:19	5.88	TAL DEN	CCJ

Lab ID: **280-66772-1 DU** **Client ID:** **3406-T01**

Sample Date/Time: 03/19/2015 09:00 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM5210B	280-66772-A-1 DU		280-269002		03/20/2015 13:54	5	TAL DEN	MRB

Lab ID: **280-66772-2** **Client ID:** **TRIP BLANK**

Sample Date/Time: 03/19/2015 00:00 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66772-A-2		280-269715		03/26/2015 01:23	1	TAL DEN	BBB
A:8260B	280-66772-A-2		280-269715		03/26/2015 01:23	1	TAL DEN	BBB

Client: Waste Management

Job Number: 280-66772-1

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 280-269715/6		280-269715		03/25/2015 20:55	1	TAL DEN	BBB
A:8260B	MB 280-269715/6		280-269715		03/25/2015 20:55	1	TAL DEN	BBB
P:3005A	MB 280-269042/1-A		280-269415	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	MB 280-269042/1-A		280-269415	280-269042	03/24/2015 03:44	1	TAL DEN	CRR
P:3005A	MB 280-269042/1-A		280-269627	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	MB 280-269042/1-A		280-269627	280-269042	03/24/2015 14:44	1	TAL DEN	SJS
P:3005A	MB 280-269039/1-A		280-269390	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	MB 280-269039/1-A		280-269390	280-269039	03/23/2015 21:55	1	TAL DEN	LMT
P:3005A	MB 280-269039/1-A		280-269517	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	MB 280-269039/1-A		280-269517	280-269039	03/24/2015 12:45	1	TAL DEN	LMT
P:7470A	MB 280-269206/1-A		280-270036	280-269206	03/25/2015 12:30	1	TAL DEN	CGG
A:7470A	MB 280-269206/1-A		280-270036	280-269206	03/25/2015 19:57	1	TAL DEN	CGG
A:300.0	MB 280-269235/6		280-269235		03/23/2015 10:19	1	TAL DEN	AFB
A:350.1	MB 280-269567/107		280-269567		03/24/2015 12:06	1	TAL DEN	CML
P:365.2/365.3/365	MB 280-269901/2-A		280-269968	280-269901	03/26/2015 15:27	1	TAL DEN	AJS
A:365.1	MB 280-269901/2-A		280-269968	280-269901	03/26/2015 21:40	1	TAL DEN	AJS
A:410.4	MB 280-269019/4		280-269019		03/20/2015 15:42	1	TAL DEN	SWS
A:Nitrate by calc	MB 280-270039/1		280-270039		03/27/2015 09:48	1	TAL DEN	AJA
A:SM 2320B	MB 280-269477/5		280-269477		03/24/2015 11:46	1	TAL DEN	CCJ
A:SM 2540C	MB 280-269473/1		280-269473		03/24/2015 12:12	1	TAL DEN	SVC
A:SM 2540D	MB 280-269336/3		280-269336		03/23/2015 16:55	1	TAL DEN	CMS
A:SM 5310B	MB 280-269501/4		280-269501		03/23/2015 18:14	1	TAL DEN	CCJ
A:SM5210B	MB 280-269002/5		280-269002		03/20/2015 13:53	1	TAL DEN	MRB

Client: Waste Management

Job Number: 280-66772-1

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 280-269715/4		280-269715		03/25/2015 20:10	1	TAL DEN	BBB
A:8260B	LCS 280-269715/4		280-269715		03/25/2015 20:10	1	TAL DEN	BBB
P:3005A	LCS 280-269042/2-A		280-269415	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	LCS 280-269042/2-A		280-269415	280-269042	03/24/2015 03:46	1	TAL DEN	CRR
P:3005A	LCS 280-269042/2-A		280-269627	280-269042	03/23/2015 09:00	1	TAL DEN	WDS
A:6010C	LCS 280-269042/2-A		280-269627	280-269042	03/24/2015 14:46	1	TAL DEN	SJS
P:3005A	LCS 280-269039/2-A		280-269390	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	LCS 280-269039/2-A		280-269390	280-269039	03/23/2015 21:59	1	TAL DEN	LMT
P:3005A	LCS 280-269039/2-A		280-269517	280-269039	03/23/2015 09:00	1	TAL DEN	WDS
A:6020A	LCS 280-269039/2-A		280-269517	280-269039	03/24/2015 12:49	1	TAL DEN	LMT
P:7470A	LCS 280-269206/2-A		280-270036	280-269206	03/25/2015 12:30	1	TAL DEN	CGG
A:7470A	LCS 280-269206/2-A		280-270036	280-269206	03/25/2015 20:00	1	TAL DEN	CGG
A:300.0	LCS 280-269235/4		280-269235		03/23/2015 09:48	1	TAL DEN	AFB
A:350.1	LCS 280-269567/105		280-269567		03/24/2015 12:02	1	TAL DEN	CML
P:365.2/365.3/365	LCS 280-269901/1-A		280-269968	280-269901	03/26/2015 15:27	1	TAL DEN	AJS
A:365.1	LCS 280-269901/1-A		280-269968	280-269901	03/26/2015 21:40	1	TAL DEN	AJS
A:410.4	LCS 280-269019/3		280-269019		03/20/2015 15:42	1	TAL DEN	SWS
A:SM 2320B	LCS 280-269477/4		280-269477		03/24/2015 11:42	1	TAL DEN	CCJ
A:SM 2540C	LCS 280-269473/2		280-269473		03/24/2015 12:12	1	TAL DEN	SVC
A:SM 2540D	LCS 280-269336/1		280-269336		03/23/2015 16:55	1	TAL DEN	CMS
A:SM 5310B	LCS 280-269501/3		280-269501		03/23/2015 17:57	1	TAL DEN	CCJ
A:SM5210B	LCS 280-269002/3		280-269002		03/20/2015 13:53	1	TAL DEN	MRB

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 280-269235/5		280-269235		03/23/2015 10:03	1	TAL DEN	AFB
A:350.1	LCSD 280-269567/106		280-269567		03/24/2015 12:04	1	TAL DEN	CML
A:SM 2540C	LCSD 280-269473/3		280-269473		03/24/2015 12:12	1	TAL DEN	SVC
A:SM 2540D	LCSD 280-269336/2		280-269336		03/23/2015 16:55	1	TAL DEN	CMS

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 280-269235/3		280-269235		03/23/2015 09:32	1	TAL DEN	AFB

Client: Waste Management

Job Number: 280-66772-1

Laboratory Chronicle

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

Sample Date/Time: 03/19/2015 10:15 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-B-1 MS		280-269715		03/25/2015 21:40	1	TAL DEN	BBB
A:8260B	280-66870-B-1 MS		280-269715		03/25/2015 21:40	1	TAL DEN	BBB
P:7470A	280-66853-G-4-D MS		280-270036	280-269206	03/25/2015 12:30	1	TAL DEN	CGG
A:7470A	280-66853-G-4-D MS		280-270036	280-269206	03/25/2015 20:25	1	TAL DEN	CGG
A:300.0	160-10968-G-23 MS		280-269235		03/23/2015 15:50	1	TAL DEN	AFB
A:300.0	160-10968-H-20 MS		280-269235		03/23/2015 19:11	1	TAL DEN	AFB
A:350.1	280-66850-B-2 MS		280-269567		03/24/2015 12:48	1	TAL DEN	CML
P:365.2/365.3/365	280-66763-E-2-B MS		280-269968	280-269901	03/26/2015 15:27	1	TAL DEN	AJS
A:365.1	280-66763-E-2-B MS		280-269968	280-269901	03/26/2015 21:40	1	TAL DEN	AJS
A:410.4	280-66450-I-9 MS		280-269019		03/20/2015 15:42	1	TAL DEN	SWS

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

Sample Date/Time: 03/19/2015 10:15 Received Date/Time: 03/20/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-66870-B-1 MSD		280-269715		03/25/2015 22:03	1	TAL DEN	BBB
A:8260B	280-66870-B-1 MSD		280-269715		03/25/2015 22:03	1	TAL DEN	BBB
P:7470A	280-66853-G-4-E MSD		280-270036	280-269206	03/25/2015 12:30	1	TAL DEN	CGG
A:7470A	280-66853-G-4-E MSD		280-270036	280-269206	03/25/2015 20:27	1	TAL DEN	CGG
A:300.0	160-10968-G-23 MSD		280-269235		03/23/2015 16:05	1	TAL DEN	AFB
A:300.0	160-10968-H-20 MSD		280-269235		03/23/2015 19:26	1	TAL DEN	AFB
A:350.1	280-66850-B-2 MSD		280-269567		03/24/2015 12:50	1	TAL DEN	CML
P:365.2/365.3/365	280-66763-E-2-C MSD		280-269968	280-269901	03/26/2015 15:27	1	TAL DEN	AJS
A:365.1	280-66763-E-2-C MSD		280-269968	280-269901	03/26/2015 21:40	1	TAL DEN	AJS
A:410.4	280-66450-I-9 MSD		280-269019		03/20/2015 15:42	1	TAL DEN	SWS

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

Sample Date/Time: 03/18/2015 14:30 Received Date/Time: 03/20/2015 09:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-10968-G-23 DU		280-269235		03/23/2015 15:34	1	TAL DEN	AFB
A:300.0	160-10968-H-20 DU		280-269235		03/23/2015 18:55	1	TAL DEN	AFB
A:SM 2320B	280-66622-B-1 DU		280-269477		03/24/2015 12:05	1	TAL DEN	CCJ
A:SM 2540C	280-66803-A-1 DU		280-269473		03/24/2015 12:12	1	TAL DEN	SVC
A:SM 2540D	280-66753-A-1 DU		280-269336		03/23/2015 16:55	1	TAL DEN	CMS

Lab References:

TAL DEN = TestAmerica Denver

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

280-66772 Chain of Custody

Chain of Custody Record

0.2+0.21R-5
3/20/15 cd

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-15243-2289.1
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 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:		X	X	N	D	S	S	A	N	N							X	
TO1	3-19	0900	G	W	N		1	1	2	2	3	1	1								Short Holds: NO3(calc), BOD
TR1D	3-19	—	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: 3-19-15 / 1800	Company PRO-TECH	Received by:	Date/Time: 3/20/15 930	Company TTA
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:

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
031915	—	—	—	—	—

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

PURGE/SAMPLE EQUIPMENT

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

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

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

Sampling Device: X

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

X-Other: SAMPLE PORT ON LEACHATE SYSTEM

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

WELL DATA

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

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0900	NA	1st 730	1st 3422	84	4872			
		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
031915	730	3422	84	4872			

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: BLACK / BROWN Other: ___

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: Cloudy 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
3/19/15	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: 280-66772-1

Login Number: 66772

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.	False	
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.	False	
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

Including Drawing 1 and Tables 5 & 6

Piedmont Landfill & Recycling Center
Permit 34-06

APPENDIX B:

Groundwater Flow Regime Report – March 2015 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 first semiannual groundwater sampling event of 2015. The groundwater flow and direction calculations presented in this report are based on groundwater elevation data obtained by ProTech on March 18, 2015. 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 5*. 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 6*. The hydraulic gradients (**i**) ranged from 0.017 ft/ft to 0.027 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: $\boldsymbol{V = i\,K/n}$. The flow rate calculations are presented in *Table 6*.

As shown on *Drawing 1*, groundwater flow at the site is generally to the northwest; however, a hydraulic divide runs through the site such that the local groundwater flow on the northeast side of the landfill is toward the north while groundwater flow on the southwest side of the landfill is toward the southwest. The velocity along the flow segments shown on *Drawing 1* were as follows:

SEGMENT	VELOCITY	DIRECTION
Segment $\boldsymbol{i_1}$	19.4 ft/yr	NW to N
Segment $\boldsymbol{i_2}$	10.3 ft/yr	W to SW
Segment $\boldsymbol{i_3}$	9.8 ft/yr	N
Segment $\boldsymbol{i_4}$	7.3 ft/yr	SW

The average groundwater flow rate for March 2015 event was approximately 12.3 feet/year. These groundwater flow directions and velocities are consistent with those calculated during other recent events.

The groundwater measurements obtained during the March 2015 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.

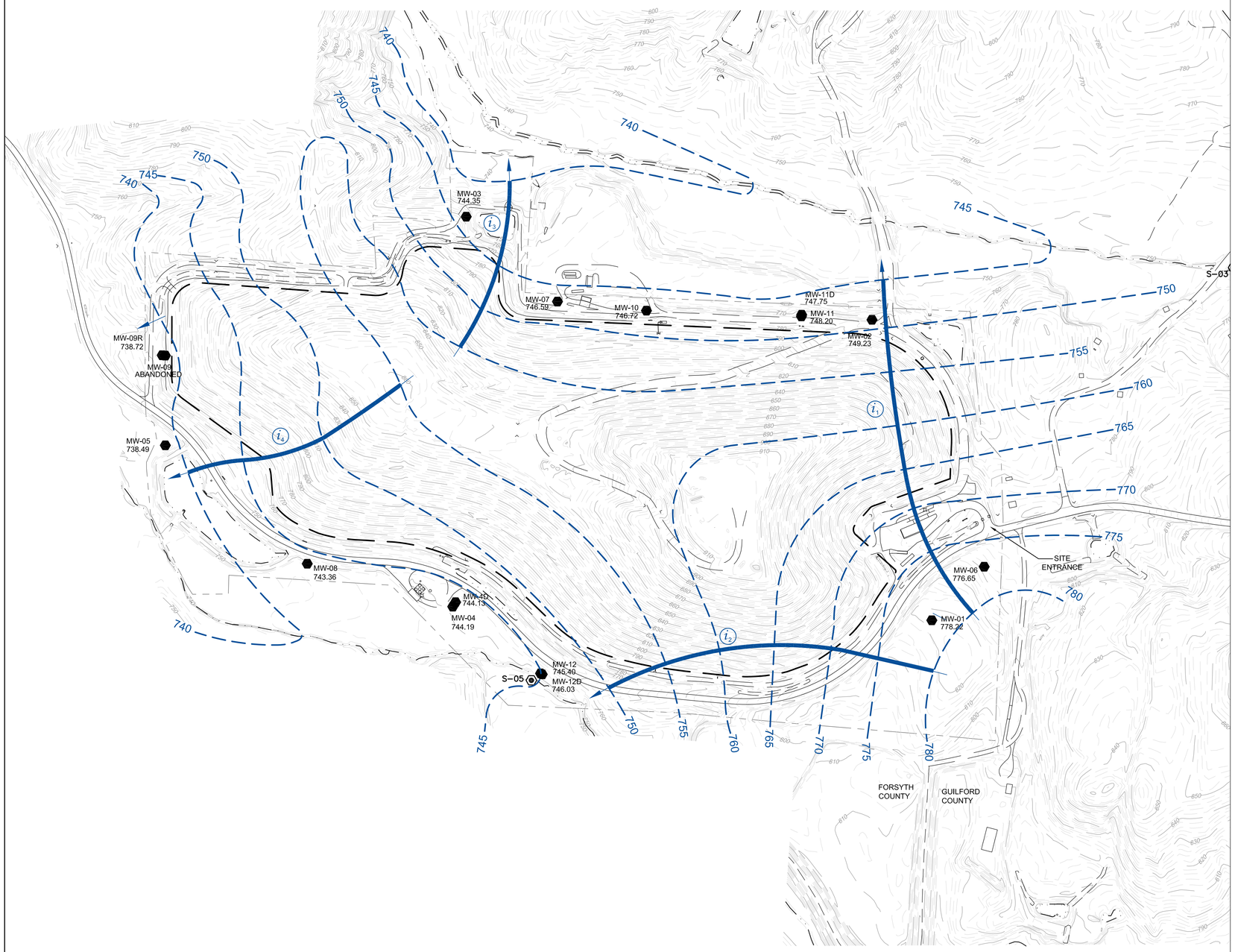
Prepared by: _____

G. Van Ness Burbach, Ph.D., P.G.
Sr. Technical Consultant

JOYCE ENGINEERING

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

Attachments: Drawing 1 – Groundwater Potentiometric Surface Map
Table 5 – Historical Groundwater Elevations
Table 6 – Groundwater Flow Rate Calculations



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

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 738.72)
- SURFACE WATER MONITORING POINTS (S-03)
- SEGMENT USED FOR GRADIENT CALCULATIONS (i_4)

FLOW PATH LENGTH

- i_1 = 1,320 LF
- i_2 = 1,255 LF
- i_3 = 658 LF
- i_4 = 881 LF

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET.
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 5 FEET.
3. STATIC WATER LEVELS MEASURED ON 03/18/15.
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)

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED ACE
DRAWN RWH
CHECKED ACE
APPROVED GVB
DATE 04/22/15

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GREENSBORO, NC 27407
PHONE: (336) 323-0092

PIEDMONT LANDFILL AND RECYCLING CENTER
KERNERSVILLE, NORTH CAROLINA

GROUNDWATER SURFACE MAP
MARCH 18, 2015
PERMIT NO. 34-06

PROJECT NO.
392

SCALE
AS NOTED

DRAWING NO.
1

N:\Dwgs\Drawings-Current\WMI\Piedmont\GW EVENT MAPS\GW EVENT 03-15.dwg Layout=Layout1

TABLE 5: HISTORICAL GROUNDWATER 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
18-Mar-2015	778.22	749.23	744.35	744.19	744.13	738.49	776.65	746.59	743.36	NA	738.72	746.72	748.20	747.75	745.40	746.03

Notes:

TOC = Top of PVC casing. All depths in feet measured from TOC. All water level elevations are reported in feet above mean sea level.

TOC elevation for MW-02 is revised reflecting improvements were made to the well in July 2001 prior to sampling. NA = data not available.

TABLE 6
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	March 18, 2015		
						Elevation (ft AMSL)	**Gradient** (***i***, ft/ft)	**Velocity** (***V***, ft/yr)
i_1	2.90E-04	9.51E-06	0.41	1320	NW-N	780	0.027	19.4
						745		
i_2	1.70E-04	5.58E-06	0.41	1255	W-SW	780	0.024	10.3
						750		
i_3	1.70E-04	5.58E-06	0.41	658	N	755	0.023	9.8
						740		
i_4	1.70E-04	5.58E-06	0.41	881	SW	755	0.017	7.3
						740		
						AVERAGE:	0.022	12.3

Notes:

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.
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.
Groundwater Linear Flow Velocity calculated using the modified Darcy equation: $V = i K / n$.
Gradient Calculation Segments are shown on Drawing 1.