



**Vista Landfill
Semi-Annual
Water Quality Monitoring
Report
Second Semi-Annual Monitoring 2014**

Prepared for:

Vista Landfill, Inc.
242 West Keene Road
Apopka, Florida 32703

Prepared by:

SCS ENGINEERS
4041 Park Oaks Boulevard, Suite 100
Tampa, Florida 33610
(813) 621-0080

January 29, 2015
File No. 09207039.06

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February 17, 2015
File No. 09207039.06



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-701 900(31), F.A.C.
Form Title Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701 510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Vista Landfill, LLC., Class III
Address 242 West Keene Road
City Apopka Zip 32703 County Orange
Telephone Number (407) 286-2920

(2) WACS Facility ID 87801

(3) DEP Permit Number SO48-0165969-014

(4) Authorized Representative's Name Jim Christiansen Title Environmental Protection
Address 7382 Talona Drive
City West Melbourne Zip 32904 County ~~Volusia~~ Brevard
Telephone Number (321) 704-4162
Email address (if available) jchristi@wm.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

2/10/15
(Date)

[Signature]
(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Professional Technical Support Services, Inc. (Pro-Tech)
Analytical Lab NELAC / HRS Certification # NELAP Certification E87667
Lab Name TestAmerica, Inc. (TestAmerica Denver)
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- A Laboratory Analytical Results and Field Forms
- B Compact Disk Containing Report in .pdf Format and Adapt File

1 INTRODUCTION

SCS Engineers (SCS) prepared this semi-annual water quality monitoring report for the Vista Landfill (VLF) on behalf of Vista Landfill, Inc. (VLI). The VLF is located approximately two miles south of Apopka, Florida, at 242 West Keene Road. The VLF lies south of Keene Road, west of Old Apopka-Clarcona Road, and east of Lake Mitchell in Orange County Florida (Figure 1-1). The VLF is a Class III lined landfill with a leachate collection system. The bottom-liner system consists of three layers (from top to bottom): a 2-foot thick sand liner protective layer, a double-sided geocomposite drainage layer, and a 50-mil high density polyethylene (HDPE) geomembrane layer. Waste was initially placed in the landfill on November 17, 2008.

This report was prepared in accordance with Florida Department of Environmental Protection (FDEP) Permit/certification No. 0165969-024-SO-MM, Specific Condition Section 2.D, Monitoring Plan Implementation Schedule (MPIS), and Chapter 62-701.510(9)(a) Florida Administrative Code (FAC). Locations of monitoring sites are shown on Figure 1-2. The second semi-annual 2014 sampling data were obtained December 18, 2014. This report is being submitted within 60 days of receipt of the laboratory results. An electronic data deliverable (EDD) of the results in “ADaPT format” is attached as Appendix B. This EDD has been verified as uploadable into the latest version of ADaPT.

Water quality sampling and physical readings and measurements were performed by technical staff of Pro-Tech Environmental (Pro-Tech), Atlanta, Georgia. Water quality analyses were performed by TestAmerica Laboratories, Inc. (TestAmerica Denver), Denver, Colorado. Field work, sampling methodologies, data evaluation, and data Quality Assurance/Quality Control (QA/QC) were conducted in accordance with FAC Chapter 62-160 Standard Operating Procedures (DEP-SOP-001/01), the VLF MPIS, the VLF site permit, and the Pro-Tech sample team quality manual. Laboratory analyses were performed in accordance with Chapter 62-160, FAC DEP-SOP-001/01, the VLF MPIS, and the site permits. TestAmerica Denver is certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP).

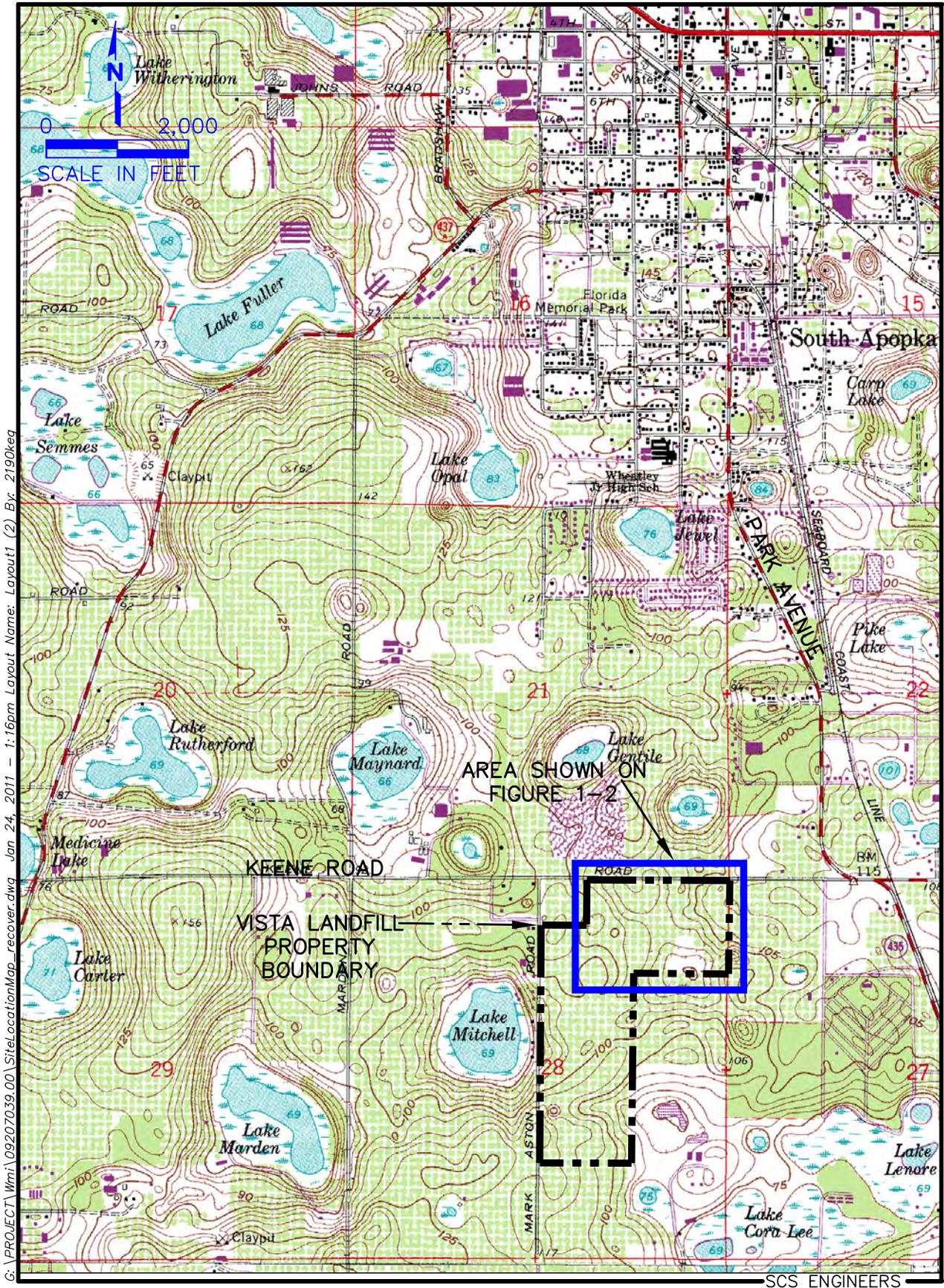


Figure 1-1. Site Location Map, Vista Landfill, Apopka, Florida.

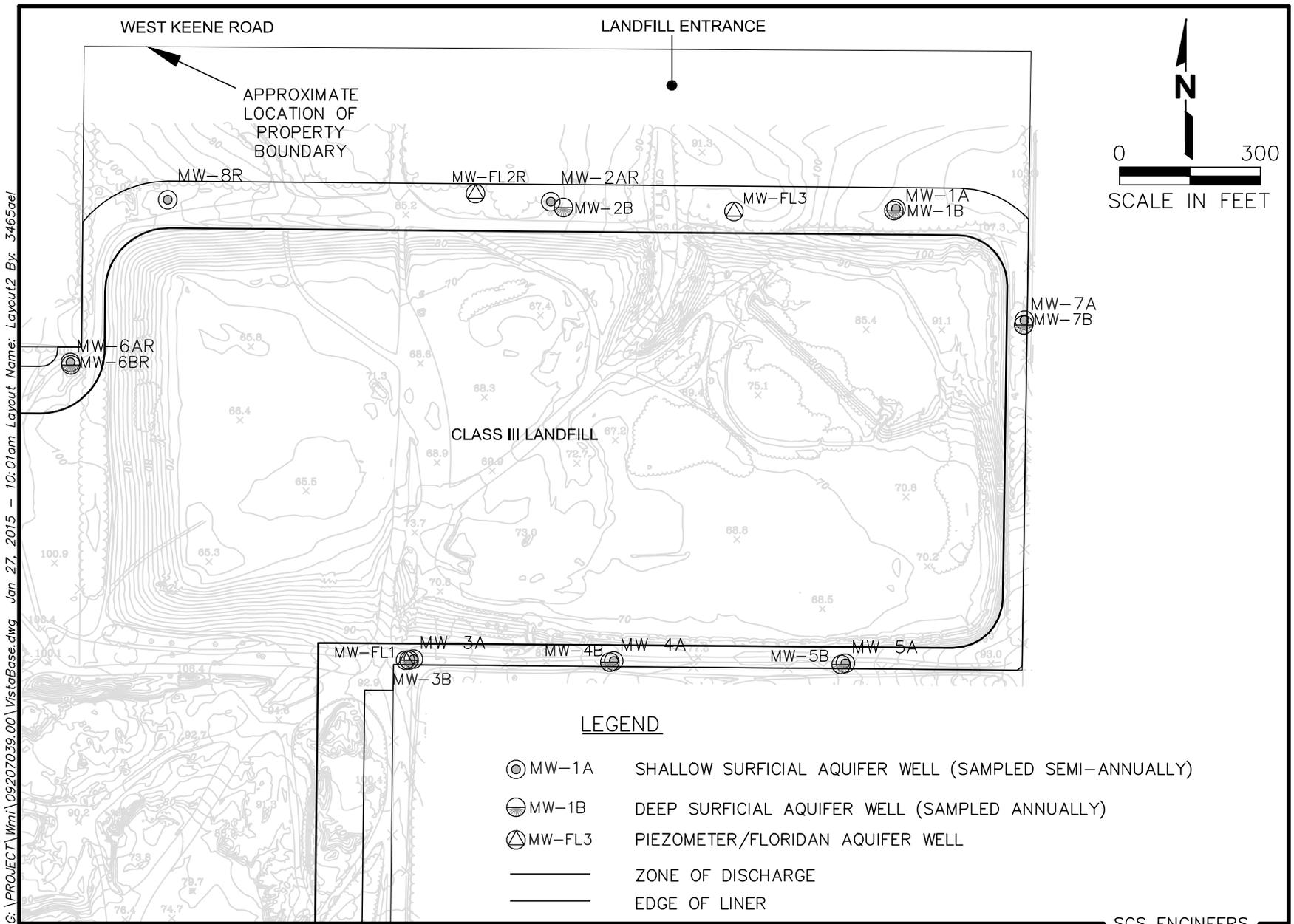


Figure 1-2. Site Map, Vista Landfill, Apopka, Florida.

2 GEOLOGIC AND HYDROGEOLOGIC CHARACTERISTICS

Figure 1-1 shows the topography of the VLF site and region prior to the site being developed as a borrow pit and then as a landfill. The topography indicates the site is located in a region that is internally drained.

Based on SCS' evaluation of VLF hydrogeologic data, the groundwater at VLF primarily occurs in the Hawthorn Group and the underlying Floridan aquifer. The "surficial aquifer" consists of the water-bearing permeable zones of the Hawthorn Group that overlay the Floridan aquifer. The groundwater flow direction of the lower Hawthorn Group tends to mimic the pre-construction topography of the VLF.

The Floridan aquifer underlies the surficial aquifer at the VLF and is separated from it by the clay units of the Hawthorn Group.¹ Karst features (e.g., sinkholes) developed historically in the sediments overlying the upper Floridan aquifer, resulting in the internal drainage characteristics of the region. As a result, runoff and surficial aquifer groundwater flow moves toward and into these karst features, often resulting in development of surface water bodies such as Lake Mitchell, which is located west of the VLF (Figure 1-1).

SEMI-ANNUAL GROUNDWATER FLOW ASSESSMENT

The groundwater flow assessment of the shallow and lower surficial aquifer was performed using the groundwater elevation data obtained on December 18, 2014. This groundwater flow assessment included collecting and compiling groundwater depth measurements, calculating groundwater elevations, and constructing site figures depicting groundwater contours and the estimated groundwater flow direction. Table 2-1 lists monitoring well numbers, measured depths to water, and calculated groundwater elevations. Water level maps generated for the shallow surficial aquifer and lower surficial aquifer are presented in Figures 2-1 and 2-2. These maps are generated using Surfer[®] Version 10, groundwater contouring computer program, with the interpretation verified by an SCS hydrogeologist.

Shallow Surficial Aquifer

The shallow surficial aquifer is defined here as the uppermost water-bearing zone of the undifferentiated sands and clayey sands that are part of the Hawthorn Group. A water level map of the shallow surficial aquifer was prepared from shallow surficial well data for the December 2014 sampling event and is provided on Figure 2-1.

Groundwater flow typically is expected to be perpendicular to the water level contours. Therefore, the approximate direction of groundwater flow in the shallow surficial aquifer is

¹ The Rust Environment and Infrastructure (RUST) August 1996 (Revised September 1998) report entitled "Keene Road Hydrogeologic Evaluation" Prepared for Waste Management Inc.

**Table 2-1. Groundwater Elevation Measurements,
Vista Landfill, Apopka, Florida.**

Well No.	TOC Elevation (Feet NGVD)	Depth to Water (Feet Below Top of Casing)	December 18, 2014 Groundwater Elevation (Feet NGVD)
MW-1A	109.47	43.10	66.37
MW-1B	109.53	53.28	56.25
MW-2AR	87.22	33.03	54.19
MW-2B	88.46	35.74	52.72
MW-3A	92.87	39.58	53.29
MW-3B	93.06	39.85	53.21
MW-4A	82.04	28.83	53.21
MW-4B	83.18	28.95	54.23
MW-5A	81.86	26.50	55.36
MW-5B	81.27	28.57	52.70
MW-6AR	104.11	50.55	53.56
MW-6BR	103.99	50.47	53.52
MW-7A	109.26	42.14	67.12
MW-7B	109.13	54.41	54.72
MW-8R	99.60	45.43	54.17
MW-FL1	93.16	39.95	53.21
MW-FL2R	86.76	32.02	54.74
MW-FL3	97.49	44.83	52.66

Notes:

NGVD = National Geodetic Vertical Datum, 1929.

TOC = Top of Casing

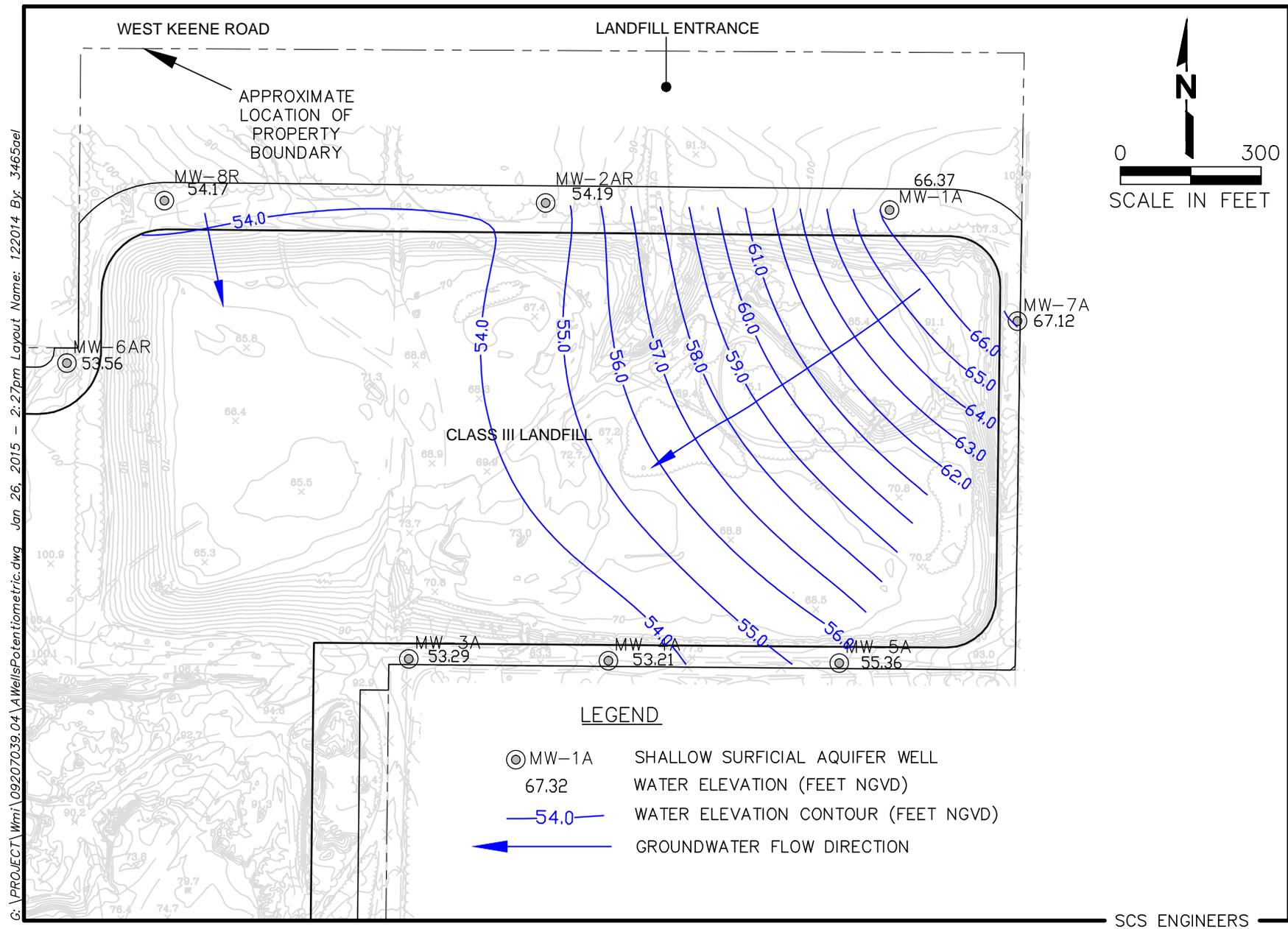


Figure 2-1. December 2014 Shallow Surficial Aquifer Water Level Map, Vista Landfill, Apopka, Florida.

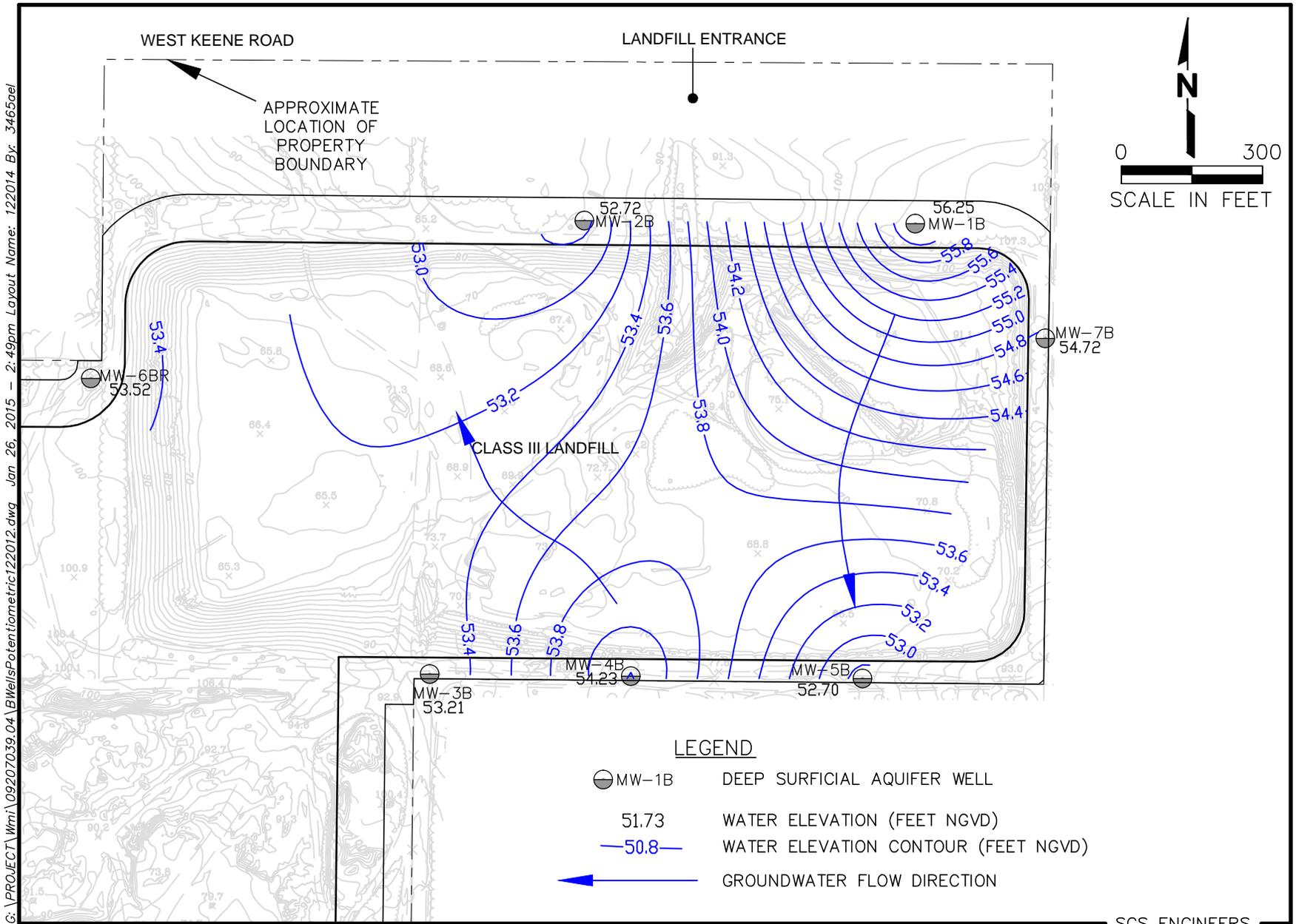


Figure 2-2. December 2014 Intermediate Surficial Aquifer Potentiometric Surface Map, Vista Landfill, Apopka, Florida.

primarily to the southwest. A portion of the groundwater enters from the northwest section of the site and flows south then southwest. This groundwater flow configuration results from a combination of recharge from rainfall infiltration outside the bottom liner, interchange of groundwater with the underlying intermediate surficial aquifer, and lateral inflow to the shallow surficial aquifer from outside the VLF. The flow direction is consistent with previous flow assessments at the Vista Landfill.

Intermediate Surficial Aquifer

A potentiometric map of the intermediate surficial aquifer was prepared from intermediate surficial well data for the December 2014 sampling event (Figure 2-2). Groundwater flow within the intermediate surficial aquifer beneath the VLF apparently consists of multiple flow regimes, as indicated by the groundwater flow direction arrows on Figure 2-2. Groundwater entering from the site's western boundary flows east and northeast towards a slight low on the site's northern boundary. A portion of the groundwater enters near the northeast corner of the site and moves to the south and southwest. This groundwater flow configuration is a combination of interchange of groundwater with the overlying shallow surficial aquifer and lateral inflow to the intermediate surficial aquifer from outside the VLF. These flow directions are consistent with previous flow assessments at the Vista Landfill.

Floridan Aquifer

Due to the limited number of "FL" zone wells for the site (MW-FL2R is a deep surficial aquifer monitoring well), potentiometric maps were not prepared. Regional potentiometric maps for the Floridan aquifer indicate that flow in the aquifer at the VLF is towards the northeast. This is confirmed by the water levels observed at the VLF at Floridan aquifer groundwater monitoring wells MW-FL1 and MW-FL3 (see Table 2-1).

3 LANDFILL MONITORING PROGRAM

PERMIT/WATER QUALITY MPIS MODIFICATIONS

On behalf of the VLF, SCS submitted a minor permit modification letter directed to Mr. F. Thomas Lubozynski, P.E., of the FDEP and dated November 19, 2014, to modify VLF's Water Quality MPIS.

In FDEP correspondence dated December 3, 2014, a new permit was issued to VLF (Permit No. 0165969-024-SO-MM) to reflect the approved changes to the site's Water Quality MPIS. The MPIS changes made are as follows:

1. Measure water levels in all wells semi-annually and provide semi-annual water level maps for the shallow and intermediate zones.
2. Sample the shallow wells semi-annually for the Rule 62-701.510(5)(c) & (7)(a), F.A.C. required parameters currently listed in the site MPIS.
3. Sample the intermediate wells annually for indicator parameters chloride, sodium, and ammonia to verify there are no leachate impacts.
4. Sample the intermediate well(s) in question for the full list of parameters if the shallow well for the well cluster(s) shows a verified landfill impact.
5. Sample the intermediate well(s) in question for the full list of parameters if the indicator data suggests through an increasing trend (or verified sudden jump far above background) that there is a landfill impact to the intermediate well(s).
6. Utilize the Upper Floridan wells as piezometers with no routine sampling unless there are verified landfill impacts in the intermediate water unit.
7. Gross alpha, aluminum, and manganese were added to the MPIS after these parameters were detected in background samples. While there have been detections of these parameters, the concentrations have all been attributed to background and not from the landfill because there are no indicator trends concurrent with these detections. Therefore, the site requests to remove these parameters from the semi-annual sampling requirement.

Department Note: *In #3, the Department will add nitrate to the list of indicator parameters for the intermediate wells to watch that the exceedances do not extend beyond the shallow wells.*

GROUNDWATER MONITORING PROGRAM

The surficial aquifer groundwater currently is monitored at the site at 15 locations. The surficial aquifer is monitored in two zones: the shallow zone ("A" wells) and the intermediate zone ("B" wells). The shallow zone is monitored semi-annually and the intermediate zone is sampled

annually, during the June sampling event. The deep zone wells are used as piezometers with no routine sampling unless there are verified landfill impacts in the intermediate water unit.

Well locations for each monitored zone are shown on Figure 1-2. The monitoring wells, with their monitored zone and permitted designations as background or compliance, are listed in Table 3-1. The construction details for the 15 active monitoring wells comprising the monitoring system are included in Table 3-2.

Table 3-1. Active Surficial Aquifer Groundwater Monitoring Wells at the Vista Landfill

Shallow Zone	Intermediate Zone
Background Monitoring Wells	
MW-1A	MW-1B
MW-2AR	MW-2B
MW-6AR	MW-6BR
MW-7A	
MW-8R	
Compliance Monitoring Wells	
MW-3A	MW-3B
MW-4A	MW-4B
MW-5A	MW-5B
	MW-7B

Note:

1. Wells listed on the same row are part of a cluster of wells.

The current permit requires semi-annual sampling of the shallow zone and annual sampling of the intermediate zone for the field and laboratory parameters listed below.

Field Parameters

- Static water level before purging
- Specific conductivity
- pH
- Dissolved oxygen
- Turbidity
- Temperature

Table 3-2. Existing Monitoring Locations and Construction Details, Vista Landfill, Apopka, Florida

WACS ID	Water Quality Monitoring Site ID	Date Installed	Date Abandoned	Well Type	Aquifer Monitored	Top of Casing Elevation (NGVD)	Total Well Depth (Feet BLS)	Outer Casing Diameter/ Depth	Well Diameter	Screen Slot Size	Screen Length (feet)	Top of Screen (Feet BLS)	Bottom of Screen (Feet BLS)	Top of Screen (Feet NGVD)	Bottom of Screen (Feet NGVD)	Northing (NAD 1983)	Easting (NAD 1983)	Latitude (NAD 1983)	Longitude (NAD 1983)
19335	MW-1A ¹	4/20/2004	NA	BG	Shallow Surficial	109.47	69	NA	2	0.006	20	49	69	57	37	1565469.28	492550.11	28° 38' 21.30"	81° 30' 36.28"
19336	MW-1B	4/20/2004	NA	BG	Intermediate Surficial	109.53	96	NA	2	0.010	10	86	96	20	10	1565465.40	492545.32	28° 38' 21.27"	81° 30' 36.33"
ND	MW-2A	ND	1/15/2007	BG	Shallow Surficial	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19337	MW-2AR	1/23/2007	NA	BG	Shallow Surficial	87.22	39.94	NA	2	0.006	10	29.44	39.44	59.91	49.91	1565481.98	491815.07	28° 38' 21.40"	81° 30' 44.53"
19338	MW-2B	4/22/2004	NA	BG	Intermediate Surficial	88.46	73	NA	2	0.006	10	63	73	20	10	1565471.82	491843.09	28° 38' 21.30"	81° 30' 44.21"
19339	MW-3A	4/13/2004	NA	CO	Shallow Surficial	92.87	56	NA	2	0.006	30	36	56	57	37	1564509.87	491522.95	28° 38' 11.76"	81° 30' 47.76"
19340	MW-3B	4/13/2004	NA	CO	Intermediate Surficial	93.06	83	NA	2	0.010	10	73	83	20	10	1564509.53	491514.75	28° 38' 11.76"	81° 30' 47.85"
19341	MW-4A	4/14/2004	NA	CO	Shallow Surficial	82.04	42	NA	2	0.006	20	22	42	57	37	1564505.59	491949.09	28° 38' 11.74"	81° 30' 42.98"
19342	MW-4B	4/14/2004	NA	CO	Intermediate Surficial	83.18	69	NA	2	0.006	10	59	69	20	10	1564505.16	491941.64	28° 38' 11.73"	81° 30' 43.06"
19343	MW-5A	4/14/2004	NA	CO	Shallow Surficial	81.86	40	NA	2	0.006	20	20	40	57	37	1564500.86	492441.55	28° 38' 11.71"	81° 30' 37.45"
19344	MW-5B	4/14/2004	NA	CO	Intermediate Surficial	81.27	67	NA	2	0.006	10	57	67	20	10	1564500.47	492433.39	28° 38' 11.71"	81° 30' 37.54"
ND	MW-6A	4/15/2004	1/12/2007	BG	Shallow Surficial	101.94	61	NA	2	0.010	20	41	61	57	37	ND	ND	ND	ND
19345	MW-6AR	1/30/2007	NA	BG	Shallow Surficial	104.11	69.37	NA	2	0.010	20	48.87	68.87	52.27	32.27	1565140.42	490793.55	28° 38' 17.97"	81° 30' 55.98"
ND	MW-6B	4/15/2004	1/12/2007	BG	Intermediate Surficial	101.98	88	NA	2	0.010	10	78	88	20	10	ND	ND	ND	ND
19346	MW-6BR	1/30/2007	NA	BG	Intermediate Surficial	103.99	88.58	NA	2	0.010	10	78.08	88.08	22.98	12.98	1565137.25	490795.56	28° 38' 17.94"	81° 30' 55.95"
19347	MW-7A	4/20/2004	NA	BG	Shallow Surficial	109.26	69	NA	2	0.006	20	49	69	57	37	1565230.04	492821.74	28° 38' 18.95"	81° 30' 33.22"
19348	MW-7B	4/19/2004	NA	CO	Intermediate Surficial	109.13	96	NA	2	0.01	10	86	96	20	10	1565222.30	492821.61	28° 38' 18.87"	81° 30' 33.22"
ND	MW-8	4/23/2004	1/12/2007	BG	Shallow Surficial	99.7	60	NA	2	0.006	10	50	60	47	37	ND	ND	ND	ND
19868	MW-8R	1/25/2007	NA	BG	Shallow Surficial	99.6	72.12	NA	2	0.006	10	61.62	71.72	35.05	25.05	1565489.06	490997.80	28° 38' 21.43"	81° 30' 53.70"
19879	MW-FL1	4/13/2004	NA	CO	Floridan	93.16	125	NA	2	0.010	10	115	125	-45	-35	1564509.43	491507.05	28° 38' 11.76"	81° 30' 47.94"
ND	MW-FL2	4/22/2004	1/15/2007	CO	Floridan	87.4	130	NA	2	0.006	10	120	130	-45	-35	ND	ND	ND	ND
19880	MW-FL2R	1/29/2007	NA	CO	Deep Surficial	86.76	129.95	6"/0' to 80'	2	0.006	10	119.45	129.45	-45.54	-35.54	1565501.29	491655.91	28° 38' 21.58"	81° 30' 46.32"
19881	MW-FL3	4/21/2004	NA	CO	Floridan	97.49	140	NA	2	0.010	10	130	140	-45	-35	1565463.35	492205.45	28° 38' 21.23"	81° 30' 40.15"
22828	L-1	NA	NA	CO	Leachate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND

Notes:

- Survey Information was obtained from the May 25, 2007 Geosyntec Consultants Environmental Monitoring Location Map.
- Well construction information obtained from the July 2004, Collinas Group, Inc., Groundwater Monitoring Well Installation Report, Buttrey Landfill Parcel.
- Well construction information obtained from the March 15, 2007, Professional Service Industries, Inc., Monitoring Well Completion and Well Abandonment Report.
- NGVD = National Geodetic Vertical Datum of 1929.
- NAD 1983 = North American Datum of 1983.
- WACS = State Water Assurance Compliance System.
- BLS = Below Landsurface.
- NA = Not Applicable.
- BG = Background.
- CO = Compliance.
- ND = Data not available.
- OT = Other.
- ID = Identification.

Shallow Zone Laboratory Parameters

- Total ammonia-nitrogen
- Chloride
- Iron
- Mercury
- Nitrate
- Sodium
- Total dissolved solids (TDS)
- Parameters listed in 40 CFR (Code of Federal Regulations) Part 258, Appendix I

Intermediate Zone Laboratory Parameters

- Total ammonia-nitrogen
- Chloride
- Sodium
- Nitrate

Intermediate wells should be sampled for the full list of parameters (see shallow zone laboratory parameters) if:

- The shallow well for the well cluster(s) shows a verified landfill impact; or
- The indicator data suggests through an increasing trend (or verified sudden jump far above background) that there is a landfill impact to the intermediate well (s)

LEACHATE MONITORING PROGRAM

E-mail correspondence dated September 25, 2012, from Kim Rush, FDEP, granted approval to remove annual leachate sampling and analysis from the site requirements per the Chapter 62-701, FAC, rule change. Leachate sampling was terminated accordingly.

SEMI-ANNUAL GROUNDWATER MONITORING EVENT

Appendix A includes the laboratory analytical data and field forms. Table 3-3 lists groundwater quality detections and exceedances. In accordance with Chapter 62-701, FAC, groundwater results were compared to primary drinking water standards (PDWSs) and secondary drinking water standards (SDWSs) listed in Chapter 62-550. For this routine groundwater monitoring report, groundwater cleanup target levels (GCTLs) in Rule 62-777, FAC, were used for constituents that do not have a PDWS or SDWS. GCTLs are used as a screening tool for potential anomalies in the concentration data that may require further consideration or review. Per Chapter 62-701.510(7)(c)2, GCTLs are only applicable to solid waste facilities outside of the zone of discharge.

**Table 3-3. Summary of Groundwater Quality Analytical Results (Detected Parameters Only)
Vista Landfill, December 2014**

Parameter	Standard	MCL	Units	MW-1A	MW-2AR	MW-3A	MW-4A	MW-5A	MW-6AR	MW-7A	MW-8R
Well type				BG	BG	CO	CO	CO	BG	BG	BG
Volatile Organic Compounds											
Iodomethane	NS	NS	ug/L	0.36 I	0.3 I	0.44 I	0.47 I	0.43 I	0.42 I	0.36 I	0.35 I
Metals											
Antimony	PDWS	6	ug/L	0.4 U	0.67 I						
Arsenic	PDWS	10	ug/L	0.33 U	0.66 I						
Barium	PDWS	2000	ug/L	24	15	55	20	36	24	14	12
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.15 I	0.12 I	0.08 U	0.08 U	0.08 U	0.08 U
Cadmium	PDWS	5	ug/L	0.71 I	0.45 U	0.45 U	0.45 U	0.45 U	0.61 I	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	1.3 I	3.2 I	1.5 I	0.66 I	0.83 I	1.1 I	1.3 I	2 I
Cobalt	GCTL	140	ug/L	1.4 I	1.2 U						
Copper	SDWS	1000	ug/L	3.7 I	1.4 U	1.4 U	1.4 U	1.4 U	2.2 I	4.3 I	1.7 I
Iron	SDWS	300	ug/L	73 I	350	270	29 I	25 I	22 U	42 I	160
Mercury	PDWS	2	ug/L	0.027 U	0.039 I	0.027 U	0.027 U				
Nickel	PDWS	100	ug/L	5.3 I	1.3 U	1.3 U	3.5 I	1.3 U	1.3 U	3.7 I	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	6.9 I	4.9 U	4.9 U	4.9 U	4.9 U	5.9 I	4.9 U
Sodium	PDWS	160	mg/L	7.6	1.6	2.2	1.2	1.7	11	6.4	13
Thallium	PDWS	2	ug/L	0.05 U	0.05 U	0.065 I	0.05 U	0.08 I	0.063 I	0.076 I	0.05 U
Vanadium	GCTL	49	ug/L	1.1 I	1.5 I	2 I	1.1 U	1.1 U	1.1 U	1.1 U	1.9 I
Zinc	SDWS	5000	ug/L	5.5 I	4.5 U	13 I	340	180	4.5 I	4.5 U	4.5 I
General Chemistry											
Chloride	SDWS	250	mg/L	11	2.3 IV	3.7 V	2.4 IV	2.1 IV	17	9.2	3.7 V
Nitrate (as N)	PDWS	10	mg/L	13 Q	0.52	2.6	0.83	5.9	13 Q	13 Q	1.5
Total Alkalinity	NS	NS	mg/L	99	1.6 IV	18	1.7 IV	2.8 IV	10 V	83	72
Total Dissolved Solids	SDWS	500	mg/L	240	18	57	38	54	130	210	97
Field Parameters											
Conductivity	NS	NS	umhos/cm	410	29	102	63	85	213	334	183
Dissolved Oxygen	NS	NS	mg/L	0.7	4.3	3.9	0.4	3.7	3.2	0.6	2.3
Dissolved Oxygen	MPIS	20	% Sat.	8.16	52.04	46.33	4.84	44.78	38.01	6.99	27.32
Field pH	SDWS	6.5-8.5	SU	7.28	5.1	6.04	4.75	4.62	5.26	7.06	6.45
Field Temperature	NS	NS	Degrees C	23.1	25.1	24.2	24.8	24.6	24.2	23.2	24.5
Turbidity	NS	NS	NTU	2.29	8.39	3.06	2.05	3.92	4.62	2.19	4.81

NOTES:

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
3. GCTL = Groundwater Clean-up Target Level (62-777 F.A.C.)
4. MPIS = Monitoring Plan Implementation Schedule
5. NS = No numeric standard has been set for this analyte.
6. mg/L = milligrams per liter
7. ug/L = micrograms per liter
8. NTU = nephelometric turbidity units
9. Yellow shaded values indicate parameter concentrations exceeded respective PDWS, SDWS, or GCTL.
10. Degrees C = Degrees Celcius
11. pCi/L = picocuries per liter
12. umhos/cm = micromhos per centimeter
13. U = Analyte concentration was below the laboratory detection limit (value shown).
14. I = Analyte concentration was between the laboratory detection limit and laboratory practical.
15. V = Analyte was detected in the sample and an associated method blank.
16. Q = Sample held beyond the accepted holding time.
17. BG = Background well
18. CO = Compliance well
19. % Sat = Percent saturation
20. Percent saturation of dissolved oxygen calculated from <http://www.fivecreeks.org/monitor/do.html>.

Metals Exceedances

During the December 2014 sampling event, iron exceeded its SDWS in select wells. The iron exceedance is discussed below and is listed in Table 3-3.

Iron

As discussed in previous monitoring reports, iron was present in groundwater at the VLF in excess of its SDWS concentration prior to waste placement.

The concentration of iron in the groundwater at VLF ranged from non-detected to 350 µg/L during the December 2014 semi-annual sampling. The FDEP SDWS of 300 µg/L for iron was exceeded at background well MW-2AR (350 µg/L).

The concentration detected at background monitoring well MW-2AR is consistent with historical values. Additionally, MW-2AR is a background well indicating that the iron concentration is not likely related to landfill operations.

Inorganic Parameters Exceedances and Trends

Nitrate and dissolved oxygen exceeded their applicable standards at specific wells. Additionally, the pH concentrations at some monitoring wells fell outside the SDWS range for pH. These parameters are discussed below.

Nitrate

The FDEP PDWS of 10 milligrams per liter (mg/L) for nitrate was exceeded at background wells MW-1A (13 Q mg/L), MW-6AR (13 Q mg/L), and MW-7A (13 Q mg/L). These results were consistent with recent nitrate values obtained from these wells. The “Q” qualifier indicates that the samples were held beyond the accepted holding time; however, the value is still usable for reporting purposes.

No exceedances of nitrate occurred at other monitoring wells. The exceedances at MW-1A, MW-6AR, and MW-7A are not due to the landfill. These wells are located hydraulically up gradient and, in the case of MW-7A, nitrate was detected in previous monitoring events prior to the placement of waste. Nitrate exceedances may be related to Rapid Infiltration Basin (RIB) facilities, which have been previously documented as potential sources for nitrates.²

Dissolved Oxygen

Dissolved oxygen values (calculated from field measurements) were above the VLF MPIS limit of not greater than 20 percent oxygen saturation at background monitoring wells MW-2AR (52.04%), MW-6AR (38.01%), and MW-8R (27.32%), and at compliance monitoring wells MW-3A (46.33%), and MW-5A (44.78%).

² Special Publication SJ2006-SP3, *Estimates Of Upper Floridan Aquifer Recharge Augmentation Based On Hydraulic And Water-Quality Data (1986-2002) From The Water Conserv II RIB Systems, Orange County, Florida* (<http://sjr.state.fl.us/programs/outreach/pubs/techpubs/pdfs/SP/SJ2006-SP3.pdf>)

Monitoring well MW-8R was sampled with an electric submersible pump at a low flow rate of 0.17 gallons per minute (gpm). The remaining monitoring wells were purged and sampled with a bladder pump at low flow rates as indicated by their relative gpm pumping rates as follows: MW-2AR (0.14 gpm), MW-3A (0.16 gpm), MW-5A (0.18 gpm), and MW-6AR (0.16 gpm). During the stabilization readings the dissolved oxygen concentrations remained relatively steady.

pH

The pH was below the SDWS range of 6.5 to 8.5 units in background monitoring wells MW-2AR (5.1 units), MW-6AR (5.26 units), and MW-8R (6.45 units) and in compliance wells MW-3A (6.04 units), MW-4A (4.75 units), and MW-5A (4.62 units). Low groundwater pH in this region is the result of low pH in precipitation, rapid recharge, and little buffering capacity of the surficial sands. The pH levels observed at VLF are characteristic of the ground water in this region of Florida.

Organic Parameters Exceedances and Trends

Organic parameters were not detected above their respective PDWS, SDWS, and GCTLs.

Volatile Organic Compound Detections

There were low level volatile organic compound (VOC) detections of iodomethane. Iodomethane was detected at estimated concentrations at background monitoring wells MW-1A (0.36 **I** µg/L), MW-2AR (0.30 **I** µg/L), MW-6AR (0.42 **I** µg/L), MW-7A (0.36 **I** µg/L), and MW-8R (0.35 **I** µg/L), and at compliance monitoring wells MW-3A (0.44 **I** µg/L), MW-4A (0.47 **I** µg/L), and MW-5A (0.43 **I** µg/L). The “**I**” qualifier indicates that the reported values are between the laboratory method detection limit and the laboratory practical quantitation limit.

Semi-Volatile Organic Compound Detections

Semi-volatile organic compounds were not detected during the December 2014 monitoring event.

4 SUMMARY

The groundwater flow assessment shows that shallow surficial aquifer groundwater in the vicinity of the site flows toward the southwest corner of the landfill. The groundwater flow direction in the intermediate surficial aquifer is variable with groundwater flowing into the site from the northeast corner and flowing to the south and southwest. In the intermediate surficial aquifer, the groundwater also flows into the site from the southern and western boundaries flowing to the northern boundary and southeast corner of the site. Regional potentiometric maps for the Floridan aquifer indicate that flow is towards the northeast and is confirmed by the data from the Floridan aquifer monitoring wells.

E-mail correspondence dated September 25, 2012, from Kim Rush, FDEP, granted approval to remove annual leachate sampling and analysis from the site requirements per the Chapter 62-701, FAC, rule change. Leachate sampling was terminated accordingly.

In FDEP correspondence dated December 3, 2014, a new permit was issued to VLF to reflect the approved changes to the site's Water Quality MPIS.

Iron was detected above the SDWS in background monitoring well MW-2AR. The concentration is consistent with historical values. This iron exceedance is not related to landfill activities.

Nitrate exceeded its PDWS in background monitoring wells MW-1A, MW-6AR, and MW-7A. The slightly elevated nitrate levels are attributed to background conditions, possibly associated with local RIBs facilities.

Dissolved oxygen values (field measurement) were above the VLF MPIS limit of not greater than 20% oxygen saturation in the groundwater at background monitoring wells MW-2AR, MW-6AR, and MW-8R, and at compliance monitoring wells MW-3A, and MW-5A. These measurements were collected using low flow techniques and are considered to be a natural characteristic of the aquifer system at these wells.

Field pH levels fell outside the SDWS range for pH at select monitoring wells. The low pH levels in select monitoring wells are attributed to Florida's ambient groundwater quality characteristics due to low pH rainfall, rapid recharge, and the limited buffering capability of Florida's sandy soils.

APPENDIX A
LABORATORY ANALYTICAL RESULTS
AND FIELD FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

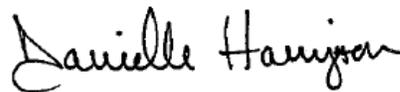
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-63811-1
Client Project/Site: FL26|Vista
Sampling Event: Semiannual GW Parameters June Dec

For:
Waste Management
Okeechobee Landfill
10800 NE 128th Avenue
Okeechobee, Florida 34972

Attn: Mr. Jim Christiansen



Authorized for release by:
1/12/2015 10:48:28 AM

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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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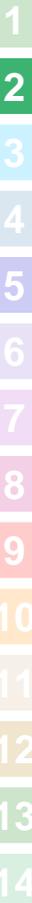


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Definitions/Glossary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
L	Off-scale high. Actual value is known to be greater than the value given.
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Q	Sample held beyond the accepted holding time.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Job ID: 280-63811-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: FL26|Vista

Report Number: 280-63811-1

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.

This submission may contain field data obtained by the sampler. The methods referenced in this submission for the field data results may not be the methods used to obtain the field data by the sampler.

RECEIPT

The samples were received on 06/13/2014 at temperatures of 0.2C, 0.5C, and 0.5C.

All sample bottles were received in acceptable condition.

HOLDING TIMES

Due to a required dilution, sample MW-6AR, MW-7A, and MW-1A were analyzed past the EPA-recommended holding time for method 300.0 Nitrate; the original analysis of the undiluted sample was performed within holding time. The out-of-hold, diluted result is confirmed by the undiluted result; only the diluted result has been reported. There is no impact on data usability.

All other Holding Times were met.

METHOD BLANKS

Low levels of Chloride are present in the method blank associated with QC batch 280-257853. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

Low levels of Alkalinity are present in the method blank associated with QC batch 280-258643. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

All other Method Blanks were within the acceptance limits.

LABORATORY CONTROL SAMPLES (LCS)

All Laboratory Control Samples were within the acceptance limits.

MATRIX SPIKE (MS) and MATRIX SPIKE DUPLICATES (MSD)

The method 8011 required MS/MSD could not be performed, due to insufficient sample volume submitted. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

Case Narrative

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Job ID: 280-63811-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

Please note that the recoveries, for the Nitrate MS/MSD performed on sample MW-6AR, are outside QC limits; however, these are estimated values as the concentrations exceeded the calibration range. Method precision and accuracy has been verified by the acceptable LCS/LCSD analysis data; therefore, corrective action is deemed unnecessary.

Please note that the recoveries, for the Nitrate MS/MSD performed on a laboratory generated sample and MW-5A, are within QC limits; however, these are estimated values as the concentrations exceeded the calibration range. Method precision and accuracy has been verified by the acceptable LCS/LCSD analysis data; therefore, corrective action is deemed unnecessary.

MS/MSD analyses were performed on sample MW-1A. The MS/MSD for method 350.1 Ammonia exhibited spike recoveries outside the QC limits. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

GENERAL CHEMISTRY

Several samples were analyzed at dilutions for Method 300.0A due to high concentrations of Nitrate. The reporting limits have been adjusted accordingly.

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Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: Equipment Blank

Lab Sample ID: 280-63811-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.69				SU	1		Field Sampling	Total/NA
Field Conductivity	2.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.00				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.8				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	5.4	I	15	4.9	ug/L	1		6010B	Total Recoverable
Chloride	0.69	I V	3.0	0.25	mg/L	1		300.0	Total/NA

Client Sample ID: MW-6AR

Lab Sample ID: 280-63811-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	53.56				ft/msl	1		Field Sampling	Total/NA
Field pH	5.26				SU	1		Field Sampling	Total/NA
Field Conductivity	213.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.62				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodomethane	0.42	I	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	24		10	0.58	ug/L	1		6010B	Total Recoverable
Cadmium	0.61	I	5.0	0.45	ug/L	1		6010B	Total Recoverable
Chromium	1.1	I	10	0.66	ug/L	1		6010B	Total Recoverable
Copper	2.2	I	15	1.4	ug/L	1		6010B	Total Recoverable
Zinc	4.5	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	11		1.0	0.092	mg/L	1		6010B	Total Recoverable
Thallium	0.063	I	1.0	0.050	ug/L	1		6020	Total Recoverable
Mercury	0.039	I	0.20	0.027	ug/L	1		7470A	Total/NA
Chloride	17		3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	13	Q	1.0	0.084	mg/L	2		300.0	Total/NA
Total Alkalinity	10	V	5.0	1.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	130		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-8R

Lab Sample ID: 280-63811-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	54.17				ft/msl	1		Field Sampling	Total/NA
Field pH	6.45				SU	1		Field Sampling	Total/NA
Field Conductivity	183.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.81				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.3				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: MW-8R (Continued)

Lab Sample ID: 280-63811-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodomethane	0.35	I	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	12		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	2.0	I	10	0.66	ug/L	1		6010B	Total Recoverable
Copper	1.7	I	15	1.4	ug/L	1		6010B	Total Recoverable
Iron	160		100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.9	I	10	1.1	ug/L	1		6010B	Total Recoverable
Zinc	4.5	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	13		1.0	0.092	mg/L	1		6010B	Total Recoverable
Antimony	0.67	I	2.0	0.40	ug/L	1		6020	Total Recoverable
Arsenic	0.66	I	5.0	0.33	ug/L	1		6020	Total Recoverable
Chloride	3.7	V	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	1.5		0.50	0.042	mg/L	1		300.0	Total/NA
Total Alkalinity	72		5.0	1.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	97		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2AR

Lab Sample ID: 280-63811-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	54.19				ft/msl	1		Field Sampling	Total/NA
Field pH	5.10				SU	1		Field Sampling	Total/NA
Field Conductivity	29.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.39				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.3				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodomethane	0.30	I	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	15		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	3.2	I	10	0.66	ug/L	1		6010B	Total Recoverable
Selenium	6.9	I	15	4.9	ug/L	1		6010B	Total Recoverable
Iron	350		100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.5	I	10	1.1	ug/L	1		6010B	Total Recoverable
Sodium	1.6		1.0	0.092	mg/L	1		6010B	Total Recoverable
Chloride	2.3	I V	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	0.52		0.50	0.042	mg/L	1		300.0	Total/NA
Total Alkalinity	1.6	I V	5.0	1.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	18		10	4.7	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: MW-1A

Lab Sample ID: 280-63811-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	66.37				ft/msl	1		Field Sampling	Total/NA
Field pH	7.28				SU	1		Field Sampling	Total/NA
Field Conductivity	410.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.29				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.7				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodomethane	0.36	I	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	24		10	0.58	ug/L	1		6010B	Total Recoverable
Cadmium	0.71	I	5.0	0.45	ug/L	1		6010B	Total Recoverable
Cobalt	1.4	I	10	1.2	ug/L	1		6010B	Total Recoverable
Chromium	1.3	I	10	0.66	ug/L	1		6010B	Total Recoverable
Copper	3.7	I	15	1.4	ug/L	1		6010B	Total Recoverable
Nickel	5.3	I	40	1.3	ug/L	1		6010B	Total Recoverable
Iron	73	I	100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.1	I	10	1.1	ug/L	1		6010B	Total Recoverable
Zinc	5.5	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	7.6		1.0	0.092	mg/L	1		6010B	Total Recoverable
Chloride	11		3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	13	Q	1.0	0.084	mg/L	2		300.0	Total/NA
Total Alkalinity	99		5.0	1.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	240		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-7A

Lab Sample ID: 280-63811-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	67.12				ft/msl	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Field Conductivity	334.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.19				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.6				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodomethane	0.36	I	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	14		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	1.3	I	10	0.66	ug/L	1		6010B	Total Recoverable
Copper	4.3	I	15	1.4	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: MW-7A (Continued)

Lab Sample ID: 280-63811-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	3.7	I	40	1.3	ug/L	1		6010B	Total Recoverable
Selenium	5.9	I	15	4.9	ug/L	1		6010B	Total Recoverable
Iron	42	I	100	22	ug/L	1		6010B	Total Recoverable
Sodium	6.4		1.0	0.092	mg/L	1		6010B	Total Recoverable
Thallium	0.076	I	1.0	0.050	ug/L	1		6020	Total Recoverable
Chloride	9.2		3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	13	Q	1.0	0.084	mg/L	2		300.0	Total/NA
Total Alkalinity	83		5.0	1.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	210		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-5A

Lab Sample ID: 280-63811-7

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	55.36				ft/msl	1		Field Sampling	Total/NA
Field pH	4.62				SU	1		Field Sampling	Total/NA
Field Conductivity	85.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.92				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.7				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodomethane	0.43	I	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	36		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	0.83	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	25	I	100	22	ug/L	1		6010B	Total Recoverable
Zinc	180		20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	1.7		1.0	0.092	mg/L	1		6010B	Total Recoverable
Thallium	0.080	I	1.0	0.050	ug/L	1		6020	Total Recoverable
Chloride	2.1	I V	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	5.9		0.50	0.042	mg/L	1		300.0	Total/NA
Total Alkalinity	2.8	I V	5.0	1.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	54		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4A

Lab Sample ID: 280-63811-8

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	53.21				ft/msl	1		Field Sampling	Total/NA
Field pH	4.75				SU	1		Field Sampling	Total/NA
Field Conductivity	63.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.05				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.4				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: MW-4A (Continued)

Lab Sample ID: 280-63811-8

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodomethane	0.47	I	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	20		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	0.66	I	10	0.66	ug/L	1		6010B	Total Recoverable
Nickel	3.5	I	40	1.3	ug/L	1		6010B	Total Recoverable
Iron	29	I	100	22	ug/L	1		6010B	Total Recoverable
Zinc	340		20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	1.2		1.0	0.092	mg/L	1		6010B	Total Recoverable
Beryllium	0.12	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Chloride	2.4	I V	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	0.83		0.50	0.042	mg/L	1		300.0	Total/NA
Total Alkalinity	1.7	I V	5.0	1.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	38		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3A

Lab Sample ID: 280-63811-9

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	53.29				ft/msl	1		Field Sampling	Total/NA
Field pH	6.04				SU	1		Field Sampling	Total/NA
Field Conductivity	102.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.06				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.9				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodomethane	0.44	I	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	55		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	1.5	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	270		100	22	ug/L	1		6010B	Total Recoverable
Vanadium	2.0	I	10	1.1	ug/L	1		6010B	Total Recoverable
Zinc	13	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	2.2		1.0	0.092	mg/L	1		6010B	Total Recoverable
Beryllium	0.15	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Thallium	0.065	I	1.0	0.050	ug/L	1		6020	Total Recoverable
Chloride	3.7	V	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	2.6		0.50	0.042	mg/L	1		300.0	Total/NA
Total Alkalinity	18		5.0	1.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	57		10	4.7	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-63811-10

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL DEN
7470A	Mercury (CVAA)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL DEN
350.1	Nitrogen, Ammonia	MCAWW	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
Field Sampling	Field Sampling	EPA	TAL DEN

Protocol 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.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-63811-1	Equipment Blank	Water	12/18/14 12:40	12/19/14 10:00
280-63811-2	MW-6AR	Water	12/18/14 12:14	12/19/14 10:00
280-63811-3	MW-8R	Water	12/18/14 11:29	12/19/14 10:00
280-63811-4	MW-2AR	Water	12/18/14 10:48	12/19/14 10:00
280-63811-5	MW-1A	Water	12/18/14 10:14	12/19/14 10:00
280-63811-6	MW-7A	Water	12/18/14 09:37	12/19/14 10:00
280-63811-7	MW-5A	Water	12/18/14 09:00	12/19/14 10:00
280-63811-8	MW-4A	Water	12/18/14 08:20	12/19/14 10:00
280-63811-9	MW-3A	Water	12/18/14 07:37	12/19/14 10:00
280-63811-10	TRIP BLANK	Water	12/18/14 00:00	12/19/14 10:00



Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 15:40	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 15:40	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 15:40	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 15:40	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 15:40	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 15:40	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 15:40	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 15:40	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 15:40	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 15:40	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 15:40	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 15:40	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 15:40	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 15:40	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 15:40	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 15:40	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 15:40	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 15:40	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 15:40	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 15:40	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 15:40	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 15:40	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 15:40	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 15:40	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 15:40	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 15:40	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 15:40	1
Iodomethane	0.42	I	1.0	0.23	ug/L			12/22/14 15:40	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 15:40	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 15:40	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 15:40	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 15:40	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 15:40	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 15:40	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 15:40	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 15:40	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 15:40	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 15:40	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 15:40	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 15:40	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 15:40	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 15:40	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 15:40	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 15:40	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 127		12/22/14 15:40	1
Toluene-d8 (Surr)	107		80 - 125		12/22/14 15:40	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		78 - 120		12/22/14 15:40	1
Dibromofluoromethane (Surr)	112		77 - 120		12/22/14 15:40	1

Client Sample ID: MW-8R
Date Collected: 12/18/14 11:29
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 16:02	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 16:02	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:02	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 16:02	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:02	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 16:02	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 16:02	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 16:02	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 16:02	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 16:02	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:02	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 16:02	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 16:02	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:02	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 16:02	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:02	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 16:02	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 16:02	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 16:02	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 16:02	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 16:02	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 16:02	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 16:02	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 16:02	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 16:02	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:02	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 16:02	1
Iodomethane	0.35	I	1.0	0.23	ug/L			12/22/14 16:02	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 16:02	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 16:02	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 16:02	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 16:02	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 16:02	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 16:02	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 16:02	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 16:02	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 16:02	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 16:02	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 16:02	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 16:02	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 16:02	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 16:02	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-8R
Date Collected: 12/18/14 11:29
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 16:02	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 16:02	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 127					12/22/14 16:02	1
Toluene-d8 (Surr)	99		80 - 125					12/22/14 16:02	1
4-Bromofluorobenzene (Surr)	98		78 - 120					12/22/14 16:02	1
Dibromofluoromethane (Surr)	103		77 - 120					12/22/14 16:02	1

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 16:24	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 16:24	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:24	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 16:24	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:24	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 16:24	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 16:24	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 16:24	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 16:24	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 16:24	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:24	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 16:24	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 16:24	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:24	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 16:24	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:24	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 16:24	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 16:24	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 16:24	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 16:24	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 16:24	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 16:24	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 16:24	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 16:24	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 16:24	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:24	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 16:24	1
Iodomethane	0.30	I	1.0	0.23	ug/L			12/22/14 16:24	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 16:24	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 16:24	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 16:24	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 16:24	1
1,1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 16:24	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 16:24	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 16:24	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 16:24	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 16:24	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 16:24	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 16:24	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 16:24	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 16:24	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 16:24	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 16:24	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 16:24	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 127					12/22/14 16:24	1
Toluene-d8 (Surr)	97		80 - 125					12/22/14 16:24	1
4-Bromofluorobenzene (Surr)	99		78 - 120					12/22/14 16:24	1
Dibromofluoromethane (Surr)	104		77 - 120					12/22/14 16:24	1

Client Sample ID: MW-1A
Date Collected: 12/18/14 10:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 16:47	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 16:47	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:47	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 16:47	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:47	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 16:47	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 16:47	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 16:47	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 16:47	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 16:47	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:47	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 16:47	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 16:47	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 16:47	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 16:47	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:47	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 16:47	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 16:47	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 16:47	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 16:47	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 16:47	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 16:47	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 16:47	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 16:47	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 16:47	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 16:47	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 16:47	1
Iodomethane	0.36	I	1.0	0.23	ug/L			12/22/14 16:47	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 16:47	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 16:47	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-1A
Date Collected: 12/18/14 10:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 16:47	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 16:47	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 16:47	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 16:47	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 16:47	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 16:47	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 16:47	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 16:47	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 16:47	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 16:47	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 16:47	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 16:47	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 16:47	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 16:47	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 127					12/22/14 16:47	1
Toluene-d8 (Surr)	107		80 - 125					12/22/14 16:47	1
4-Bromofluorobenzene (Surr)	108		78 - 120					12/22/14 16:47	1
Dibromofluoromethane (Surr)	115		77 - 120					12/22/14 16:47	1

Client Sample ID: MW-7A
Date Collected: 12/18/14 09:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 17:09	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 17:09	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:09	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 17:09	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:09	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 17:09	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 17:09	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 17:09	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 17:09	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 17:09	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:09	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 17:09	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 17:09	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:09	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 17:09	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:09	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 17:09	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 17:09	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 17:09	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 17:09	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 17:09	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 17:09	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 17:09	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 17:09	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-7A
Date Collected: 12/18/14 09:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 17:09	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:09	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 17:09	1
Iodomethane	0.36	I	1.0	0.23	ug/L			12/22/14 17:09	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 17:09	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 17:09	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 17:09	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 17:09	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 17:09	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 17:09	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 17:09	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 17:09	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 17:09	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 17:09	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 17:09	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 17:09	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 17:09	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 17:09	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 17:09	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 17:09	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 127		12/22/14 17:09	1
Toluene-d8 (Surr)	98		80 - 125		12/22/14 17:09	1
4-Bromofluorobenzene (Surr)	93		78 - 120		12/22/14 17:09	1
Dibromofluoromethane (Surr)	101		77 - 120		12/22/14 17:09	1

Client Sample ID: MW-5A
Date Collected: 12/18/14 09:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 17:31	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 17:31	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:31	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 17:31	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:31	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 17:31	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 17:31	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 17:31	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 17:31	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 17:31	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:31	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 17:31	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 17:31	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:31	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 17:31	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:31	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 17:31	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 17:31	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-5A
Date Collected: 12/18/14 09:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 17:31	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 17:31	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 17:31	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 17:31	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 17:31	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 17:31	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 17:31	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:31	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 17:31	1
Iodomethane	0.43	I	1.0	0.23	ug/L			12/22/14 17:31	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 17:31	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 17:31	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 17:31	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 17:31	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 17:31	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 17:31	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 17:31	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 17:31	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 17:31	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 17:31	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 17:31	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 17:31	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 17:31	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 17:31	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 17:31	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 17:31	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 127		12/22/14 17:31	1
Toluene-d8 (Surr)	99		80 - 125		12/22/14 17:31	1
4-Bromofluorobenzene (Surr)	98		78 - 120		12/22/14 17:31	1
Dibromofluoromethane (Surr)	104		77 - 120		12/22/14 17:31	1

Client Sample ID: MW-4A
Date Collected: 12/18/14 08:20
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 17:53	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 17:53	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:53	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 17:53	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:53	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 17:53	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 17:53	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 17:53	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 17:53	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 17:53	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:53	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 17:53	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-4A
Date Collected: 12/18/14 08:20
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 17:53	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 17:53	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 17:53	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:53	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 17:53	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 17:53	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 17:53	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 17:53	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 17:53	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 17:53	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 17:53	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 17:53	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 17:53	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 17:53	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 17:53	1
Iodomethane	0.47	I	1.0	0.23	ug/L			12/22/14 17:53	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 17:53	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 17:53	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 17:53	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 17:53	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 17:53	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 17:53	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 17:53	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 17:53	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 17:53	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 17:53	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 17:53	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 17:53	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 17:53	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 17:53	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 17:53	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 17:53	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 127		12/22/14 17:53	1
Toluene-d8 (Surr)	99		80 - 125		12/22/14 17:53	1
4-Bromofluorobenzene (Surr)	97		78 - 120		12/22/14 17:53	1
Dibromofluoromethane (Surr)	107		77 - 120		12/22/14 17:53	1

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 18:15	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 18:15	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 18:15	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 18:15	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 18:15	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 18:15	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 18:15	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 18:15	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 18:15	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 18:15	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 18:15	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 18:15	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 18:15	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 18:15	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 18:15	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 18:15	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 18:15	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 18:15	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 18:15	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 18:15	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 18:15	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 18:15	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 18:15	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 18:15	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 18:15	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 18:15	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 18:15	1
Iodomethane	0.44	I	1.0	0.23	ug/L			12/22/14 18:15	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 18:15	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 18:15	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 18:15	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 18:15	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 18:15	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 18:15	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 18:15	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 18:15	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 18:15	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 18:15	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 18:15	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 18:15	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 18:15	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 18:15	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 18:15	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 18:15	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 127		12/22/14 18:15	1
Toluene-d8 (Surr)	104		80 - 125		12/22/14 18:15	1
4-Bromofluorobenzene (Surr)	105		78 - 120		12/22/14 18:15	1
Dibromofluoromethane (Surr)	109		77 - 120		12/22/14 18:15	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TRIP BLANK

Date Collected: 12/18/14 00:00

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 11:57	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 11:57	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 11:57	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 11:57	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 11:57	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 11:57	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 11:57	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 11:57	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 11:57	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 11:57	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 11:57	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 11:57	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 11:57	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 11:57	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 11:57	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 11:57	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 11:57	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 11:57	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 11:57	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 11:57	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 11:57	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 11:57	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 11:57	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 11:57	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 11:57	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 11:57	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 11:57	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/22/14 11:57	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 11:57	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 11:57	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 11:57	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 11:57	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 11:57	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 11:57	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 11:57	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 11:57	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 11:57	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 11:57	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 11:57	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 11:57	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 11:57	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/22/14 11:57	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 11:57	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 11:57	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 11:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 127					12/22/14 11:57	1
Toluene-d8 (Surr)	97		80 - 125					12/22/14 11:57	1
4-Bromofluorobenzene (Surr)	100		78 - 120					12/22/14 11:57	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TRIP BLANK
Date Collected: 12/18/14 00:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		77 - 120		12/22/14 11:57	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0036	U	0.020	0.0036	ug/L		12/29/14 18:12	12/30/14 02:07	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		12/29/14 18:12	12/30/14 02:07	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dibromopropane	116		70 - 130	12/29/14 18:12	12/30/14 02:07	1			

Client Sample ID: MW-8R
Date Collected: 12/18/14 11:29
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0036	U	0.020	0.0036	ug/L		12/29/14 18:12	12/30/14 02:26	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		12/29/14 18:12	12/30/14 02:26	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dibromopropane	117		70 - 130	12/29/14 18:12	12/30/14 02:26	1			

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/29/14 18:12	12/30/14 02:45	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		12/29/14 18:12	12/30/14 02:45	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dibromopropane	130		70 - 130	12/29/14 18:12	12/30/14 02:45	1			

Client Sample ID: MW-1A
Date Collected: 12/18/14 10:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/29/14 18:12	12/30/14 03:03	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		12/29/14 18:12	12/30/14 03:03	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dibromopropane	117		70 - 130	12/29/14 18:12	12/30/14 03:03	1			

Client Sample ID: MW-7A
Date Collected: 12/18/14 09:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/29/14 18:12	12/30/14 03:22	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		12/29/14 18:12	12/30/14 03:22	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	116		70 - 130	12/29/14 18:12	12/30/14 03:22	1

Client Sample ID: MW-5A
Date Collected: 12/18/14 09:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L	-	12/29/14 18:12	12/30/14 03:41	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L	-	12/29/14 18:12	12/30/14 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	120		70 - 130	12/29/14 18:12	12/30/14 03:41	1

Client Sample ID: MW-4A
Date Collected: 12/18/14 08:20
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0036	U	0.020	0.0036	ug/L	-	12/29/14 18:12	12/30/14 04:00	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L	-	12/29/14 18:12	12/30/14 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	118		70 - 130	12/29/14 18:12	12/30/14 04:00	1

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L	-	12/29/14 18:12	12/30/14 04:38	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L	-	12/29/14 18:12	12/30/14 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	101		70 - 130	12/29/14 18:12	12/30/14 04:38	1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: Equipment Blank
Date Collected: 12/18/14 12:40
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	U	10	0.58	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Cadmium	0.45	U	5.0	0.45	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Cobalt	1.2	U	10	1.2	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Chromium	0.66	U	10	0.66	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Copper	1.4	U	15	1.4	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Nickel	1.3	U	40	1.3	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Lead	2.6	U	9.0	2.6	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Selenium	5.4	I	15	4.9	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Iron	22	U	100	22	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Vanadium	1.1	U	10	1.1	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Zinc	4.5	U	20	4.5	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Silver	0.93	U	10	0.93	ug/L	-	12/22/14 14:30	12/23/14 13:37	1
Sodium	0.092	U	1.0	0.092	mg/L	-	12/22/14 14:30	12/23/14 13:37	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	24		10	0.58	ug/L		12/22/14 14:30	12/23/14 13:48	1
Cadmium	0.61	I	5.0	0.45	ug/L		12/22/14 14:30	12/23/14 13:48	1
Cobalt	1.2	U	10	1.2	ug/L		12/22/14 14:30	12/23/14 13:48	1
Chromium	1.1	I	10	0.66	ug/L		12/22/14 14:30	12/23/14 13:48	1
Copper	2.2	I	15	1.4	ug/L		12/22/14 14:30	12/23/14 13:48	1
Nickel	1.3	U	40	1.3	ug/L		12/22/14 14:30	12/23/14 13:48	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	12/23/14 13:48	1
Selenium	4.9	U	15	4.9	ug/L		12/22/14 14:30	12/23/14 13:48	1
Iron	22	U	100	22	ug/L		12/22/14 14:30	12/23/14 13:48	1
Vanadium	1.1	U	10	1.1	ug/L		12/22/14 14:30	12/23/14 13:48	1
Zinc	4.5	I	20	4.5	ug/L		12/22/14 14:30	12/23/14 13:48	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	12/23/14 13:48	1
Sodium	11		1.0	0.092	mg/L		12/22/14 14:30	12/23/14 13:48	1

Client Sample ID: MW-8R
Date Collected: 12/18/14 11:29
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	12		10	0.58	ug/L		12/22/14 14:30	12/23/14 13:50	1
Cadmium	0.45	U	5.0	0.45	ug/L		12/22/14 14:30	12/23/14 13:50	1
Cobalt	1.2	U	10	1.2	ug/L		12/22/14 14:30	12/23/14 13:50	1
Chromium	2.0	I	10	0.66	ug/L		12/22/14 14:30	12/23/14 13:50	1
Copper	1.7	I	15	1.4	ug/L		12/22/14 14:30	12/23/14 13:50	1
Nickel	1.3	U	40	1.3	ug/L		12/22/14 14:30	12/23/14 13:50	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	12/23/14 13:50	1
Selenium	4.9	U	15	4.9	ug/L		12/22/14 14:30	12/23/14 13:50	1
Iron	160		100	22	ug/L		12/22/14 14:30	12/23/14 13:50	1
Vanadium	1.9	I	10	1.1	ug/L		12/22/14 14:30	12/23/14 13:50	1
Zinc	4.5	I	20	4.5	ug/L		12/22/14 14:30	12/23/14 13:50	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	12/23/14 13:50	1
Sodium	13		1.0	0.092	mg/L		12/22/14 14:30	12/23/14 13:50	1

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	15		10	0.58	ug/L		12/22/14 14:30	12/23/14 14:04	1
Cadmium	0.45	U	5.0	0.45	ug/L		12/22/14 14:30	12/23/14 14:04	1
Cobalt	1.2	U	10	1.2	ug/L		12/22/14 14:30	12/23/14 14:04	1
Chromium	3.2	I	10	0.66	ug/L		12/22/14 14:30	12/23/14 14:04	1
Copper	1.4	U	15	1.4	ug/L		12/22/14 14:30	12/23/14 14:04	1
Nickel	1.3	U	40	1.3	ug/L		12/22/14 14:30	12/23/14 14:04	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	12/23/14 14:04	1
Selenium	6.9	I	15	4.9	ug/L		12/22/14 14:30	12/23/14 14:04	1
Iron	350		100	22	ug/L		12/22/14 14:30	12/23/14 14:04	1
Vanadium	1.5	I	10	1.1	ug/L		12/22/14 14:30	12/23/14 14:04	1
Zinc	4.5	U	20	4.5	ug/L		12/22/14 14:30	12/23/14 14:04	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	12/23/14 14:04	1
Sodium	1.6		1.0	0.092	mg/L		12/22/14 14:30	12/23/14 14:04	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: MW-1A
Date Collected: 12/18/14 10:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	24		10	0.58	ug/L		12/22/14 14:30	12/23/14 14:06	1
Cadmium	0.71	I	5.0	0.45	ug/L		12/22/14 14:30	12/23/14 14:06	1
Cobalt	1.4	I	10	1.2	ug/L		12/22/14 14:30	12/23/14 14:06	1
Chromium	1.3	I	10	0.66	ug/L		12/22/14 14:30	12/23/14 14:06	1
Copper	3.7	I	15	1.4	ug/L		12/22/14 14:30	12/23/14 14:06	1
Nickel	5.3	I	40	1.3	ug/L		12/22/14 14:30	12/23/14 14:06	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	12/23/14 14:06	1
Selenium	4.9	U	15	4.9	ug/L		12/22/14 14:30	12/23/14 14:06	1
Iron	73	I	100	22	ug/L		12/22/14 14:30	12/23/14 14:06	1
Vanadium	1.1	I	10	1.1	ug/L		12/22/14 14:30	12/23/14 14:06	1
Zinc	5.5	I	20	4.5	ug/L		12/22/14 14:30	12/23/14 14:06	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	12/23/14 14:06	1
Sodium	7.6		1.0	0.092	mg/L		12/22/14 14:30	12/23/14 14:06	1

Client Sample ID: MW-7A
Date Collected: 12/18/14 09:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	14		10	0.58	ug/L		12/22/14 14:30	01/08/15 12:21	1
Cadmium	0.45	U	5.0	0.45	ug/L		12/22/14 14:30	01/08/15 12:21	1
Cobalt	1.2	U	10	1.2	ug/L		12/22/14 14:30	01/08/15 12:21	1
Chromium	1.3	I	10	0.66	ug/L		12/22/14 14:30	01/08/15 12:21	1
Copper	4.3	I	15	1.4	ug/L		12/22/14 14:30	01/08/15 12:21	1
Nickel	3.7	I	40	1.3	ug/L		12/22/14 14:30	01/08/15 12:21	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	01/08/15 12:21	1
Selenium	5.9	I	15	4.9	ug/L		12/22/14 14:30	01/08/15 12:21	1
Iron	42	I	100	22	ug/L		12/22/14 14:30	01/08/15 12:21	1
Vanadium	1.1	U	10	1.1	ug/L		12/22/14 14:30	01/08/15 12:21	1
Zinc	4.5	U	20	4.5	ug/L		12/22/14 14:30	01/08/15 12:21	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	01/08/15 12:21	1
Sodium	6.4		1.0	0.092	mg/L		12/22/14 14:30	01/08/15 12:21	1

Client Sample ID: MW-5A
Date Collected: 12/18/14 09:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	36		10	0.58	ug/L		12/22/14 14:30	12/23/14 14:12	1
Cadmium	0.45	U	5.0	0.45	ug/L		12/22/14 14:30	12/23/14 14:12	1
Cobalt	1.2	U	10	1.2	ug/L		12/22/14 14:30	12/23/14 14:12	1
Chromium	0.83	I	10	0.66	ug/L		12/22/14 14:30	12/23/14 14:12	1
Copper	1.4	U	15	1.4	ug/L		12/22/14 14:30	12/23/14 14:12	1
Nickel	1.3	U	40	1.3	ug/L		12/22/14 14:30	12/23/14 14:12	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	12/23/14 14:12	1
Selenium	4.9	U	15	4.9	ug/L		12/22/14 14:30	12/23/14 14:12	1
Iron	25	I	100	22	ug/L		12/22/14 14:30	12/23/14 14:12	1
Vanadium	1.1	U	10	1.1	ug/L		12/22/14 14:30	12/23/14 14:12	1
Zinc	180		20	4.5	ug/L		12/22/14 14:30	12/23/14 14:12	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	12/23/14 14:12	1
Sodium	1.7		1.0	0.092	mg/L		12/22/14 14:30	12/23/14 14:12	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: MW-4A
Date Collected: 12/18/14 08:20
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	20		10	0.58	ug/L		12/22/14 14:30	12/23/14 14:14	1
Cadmium	0.45	U	5.0	0.45	ug/L		12/22/14 14:30	12/23/14 14:14	1
Cobalt	1.2	U	10	1.2	ug/L		12/22/14 14:30	12/23/14 14:14	1
Chromium	0.66	I	10	0.66	ug/L		12/22/14 14:30	12/23/14 14:14	1
Copper	1.4	U	15	1.4	ug/L		12/22/14 14:30	12/23/14 14:14	1
Nickel	3.5	I	40	1.3	ug/L		12/22/14 14:30	12/23/14 14:14	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	12/23/14 14:14	1
Selenium	4.9	U	15	4.9	ug/L		12/22/14 14:30	12/23/14 14:14	1
Iron	29	I	100	22	ug/L		12/22/14 14:30	12/23/14 14:14	1
Vanadium	1.1	U	10	1.1	ug/L		12/22/14 14:30	12/23/14 14:14	1
Zinc	340		20	4.5	ug/L		12/22/14 14:30	12/23/14 14:14	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	12/23/14 14:14	1
Sodium	1.2		1.0	0.092	mg/L		12/22/14 14:30	12/23/14 14:14	1

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	55		10	0.58	ug/L		12/22/14 14:30	12/23/14 14:17	1
Cadmium	0.45	U	5.0	0.45	ug/L		12/22/14 14:30	12/23/14 14:17	1
Cobalt	1.2	U	10	1.2	ug/L		12/22/14 14:30	12/23/14 14:17	1
Chromium	1.5	I	10	0.66	ug/L		12/22/14 14:30	12/23/14 14:17	1
Copper	1.4	U	15	1.4	ug/L		12/22/14 14:30	12/23/14 14:17	1
Nickel	1.3	U	40	1.3	ug/L		12/22/14 14:30	12/23/14 14:17	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	12/23/14 14:17	1
Selenium	4.9	U	15	4.9	ug/L		12/22/14 14:30	12/23/14 14:17	1
Iron	270		100	22	ug/L		12/22/14 14:30	12/23/14 14:17	1
Vanadium	2.0	I	10	1.1	ug/L		12/22/14 14:30	12/23/14 14:17	1
Zinc	13	I	20	4.5	ug/L		12/22/14 14:30	12/23/14 14:17	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	12/23/14 14:17	1
Sodium	2.2		1.0	0.092	mg/L		12/22/14 14:30	12/23/14 14:17	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: Equipment Blank
Date Collected: 12/18/14 12:40
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:00	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:00	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:00	1
Thallium	0.050	U	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:00	1

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:04	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:04	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:04	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.063	I	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:04	1

Client Sample ID: MW-8R
Date Collected: 12/18/14 11:29
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	I	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:08	1
Arsenic	0.66	I	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:08	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:08	1
Thallium	0.050	U	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:08	1

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:12	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:12	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:12	1
Thallium	0.050	U	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:12	1

Client Sample ID: MW-1A
Date Collected: 12/18/14 10:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:15	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:15	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:15	1
Thallium	0.050	U	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:15	1

Client Sample ID: MW-7A
Date Collected: 12/18/14 09:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:19	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:19	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:19	1
Thallium	0.076	I	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:19	1

Client Sample ID: MW-5A
Date Collected: 12/18/14 09:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:30	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:30	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:30	1
Thallium	0.080	I	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:30	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-4A
Date Collected: 12/18/14 08:20
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:34	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:34	1
Beryllium	0.12	I	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:34	1
Thallium	0.050	U	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:34	1

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 16:37	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 16:37	1
Beryllium	0.15	I	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 16:37	1
Thallium	0.065	I	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 16:37	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: Equipment Blank
Date Collected: 12/18/14 12:40
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:13	1

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039	I	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:20	1

Client Sample ID: MW-8R
Date Collected: 12/18/14 11:29
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:27	1

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:29	1

Client Sample ID: MW-1A
Date Collected: 12/18/14 10:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:31	1

Client Sample ID: MW-7A
Date Collected: 12/18/14 09:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:34	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-5A
Date Collected: 12/18/14 09:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:36	1

Client Sample ID: MW-4A
Date Collected: 12/18/14 08:20
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:38	1

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:41	1

General Chemistry

Client Sample ID: Equipment Blank
Date Collected: 12/18/14 12:40
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.69	I V	3.0	0.25	mg/L			12/19/14 21:14	1
Nitrate as N	0.042	U	0.50	0.042	mg/L			12/19/14 21:14	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 14:28	1
Total Alkalinity	1.1	U	5.0	1.1	mg/L			12/24/14 13:45	1
Total Dissolved Solids	4.7	U	10	4.7	mg/L			12/19/14 18:11	1

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		3.0	0.25	mg/L			12/19/14 21:34	1
Nitrate as N	13	Q	1.0	0.084	mg/L			12/20/14 13:17	2
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 14:30	1
Total Alkalinity	10	V	5.0	1.1	mg/L			12/24/14 13:53	1
Total Dissolved Solids	130		10	4.7	mg/L			12/19/14 18:11	1

Client Sample ID: MW-8R
Date Collected: 12/18/14 11:29
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7	V	3.0	0.25	mg/L			12/19/14 22:54	1
Nitrate as N	1.5		0.50	0.042	mg/L			12/19/14 22:54	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 14:32	1
Total Alkalinity	72		5.0	1.1	mg/L			12/24/14 13:58	1
Total Dissolved Solids	97		10	4.7	mg/L			12/19/14 18:11	1

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3	I V	3.0	0.25	mg/L			12/19/14 23:14	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

General Chemistry (Continued)

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.52		0.50	0.042	mg/L			12/19/14 23:14	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 14:34	1
Total Alkalinity	1.6	IV	5.0	1.1	mg/L			12/24/14 14:02	1
Total Dissolved Solids	18		10	4.7	mg/L			12/19/14 18:11	1

Client Sample ID: MW-1A
Date Collected: 12/18/14 10:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		3.0	0.25	mg/L			12/19/14 23:34	1
Nitrate as N	13	Q	1.0	0.084	mg/L			12/20/14 13:33	2
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 14:36	1
Total Alkalinity	99		5.0	1.1	mg/L			12/24/14 14:07	1
Total Dissolved Solids	240		10	4.7	mg/L			12/19/14 18:11	1

Client Sample ID: MW-7A
Date Collected: 12/18/14 09:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		3.0	0.25	mg/L			12/19/14 23:54	1
Nitrate as N	13	Q	1.0	0.084	mg/L			12/20/14 13:48	2
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 14:42	1
Total Alkalinity	83		5.0	1.1	mg/L			12/24/14 14:12	1
Total Dissolved Solids	210		10	4.7	mg/L			12/19/14 18:11	1

Client Sample ID: MW-5A
Date Collected: 12/18/14 09:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1	IV	3.0	0.25	mg/L			12/20/14 00:54	1
Nitrate as N	5.9		0.50	0.042	mg/L			12/20/14 00:54	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 14:58	1
Total Alkalinity	2.8	IV	5.0	1.1	mg/L			12/24/14 14:17	1
Total Dissolved Solids	54		10	4.7	mg/L			12/19/14 18:11	1

Client Sample ID: MW-4A
Date Collected: 12/18/14 08:20
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4	IV	3.0	0.25	mg/L			12/20/14 01:13	1
Nitrate as N	0.83		0.50	0.042	mg/L			12/20/14 01:13	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 15:00	1
Total Alkalinity	1.7	IV	5.0	1.1	mg/L			12/24/14 14:21	1
Total Dissolved Solids	38		10	4.7	mg/L			12/19/14 18:11	1

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7	V	3.0	0.25	mg/L			12/20/14 01:33	1
Nitrate as N	2.6		0.50	0.042	mg/L			12/20/14 01:33	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

General Chemistry (Continued)

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 15:02	1
Total Alkalinity	18		5.0	1.1	mg/L			12/24/14 14:25	1
Total Dissolved Solids	57		10	4.7	mg/L			12/19/14 18:11	1

Method: Field Sampling - Field Sampling

Client Sample ID: Equipment Blank
Date Collected: 12/18/14 12:40
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.69				SU			12/18/14 10:40	1
Field Conductivity	2.0				umhos/cm			12/18/14 10:40	1
Field Temperature	22.7				Degrees C			12/18/14 10:40	1
Field Turbidity	0.00				NTU			12/18/14 10:40	1
Field Dissolved Oxygen	0.8				mg/L			12/18/14 10:40	1
Field Color	NONE				No Unit			12/18/14 10:40	1

Client Sample ID: MW-6AR
Date Collected: 12/18/14 12:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	53.56				ft/msl			12/18/14 10:14	1
Field pH	5.26				SU			12/18/14 10:14	1
Field Conductivity	213.0				umhos/cm			12/18/14 10:14	1
Field Temperature	24.2				Degrees C			12/18/14 10:14	1
Field Turbidity	4.62				NTU			12/18/14 10:14	1
Field Dissolved Oxygen	3.2				mg/L			12/18/14 10:14	1
Field Color	NONE				No Unit			12/18/14 10:14	1

Client Sample ID: MW-8R
Date Collected: 12/18/14 11:29
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	54.17				ft/msl			12/18/14 09:29	1
Field pH	6.45				SU			12/18/14 09:29	1
Field Conductivity	183.0				umhos/cm			12/18/14 09:29	1
Field Temperature	24.5				Degrees C			12/18/14 09:29	1
Field Turbidity	4.81				NTU			12/18/14 09:29	1
Field Dissolved Oxygen	2.3				mg/L			12/18/14 09:29	1
Field Color	NONE				No Unit			12/18/14 09:29	1

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	54.19				ft/msl			12/18/14 08:48	1
Field pH	5.10				SU			12/18/14 08:48	1
Field Conductivity	29.0				umhos/cm			12/18/14 08:48	1
Field Temperature	25.1				Degrees C			12/18/14 08:48	1
Field Turbidity	8.39				NTU			12/18/14 08:48	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-2AR
Date Collected: 12/18/14 10:48
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Dissolved Oxygen	4.3				mg/L			12/18/14 08:48	1
Field Color	NONE				No Unit			12/18/14 08:48	1

Client Sample ID: MW-1A
Date Collected: 12/18/14 10:14
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	66.37				ft/msl			12/18/14 08:14	1
Field pH	7.28				SU			12/18/14 08:14	1
Field Conductivity	410.0				umhos/cm			12/18/14 08:14	1
Field Temperature	23.1				Degrees C			12/18/14 08:14	1
Field Turbidity	2.29				NTU			12/18/14 08:14	1
Field Dissolved Oxygen	0.7				mg/L			12/18/14 08:14	1
Field Color	NONE				No Unit			12/18/14 08:14	1

Client Sample ID: MW-7A
Date Collected: 12/18/14 09:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	67.12				ft/msl			12/18/14 07:37	1
Field pH	7.06				SU			12/18/14 07:37	1
Field Conductivity	334.0				umhos/cm			12/18/14 07:37	1
Field Temperature	23.2				Degrees C			12/18/14 07:37	1
Field Turbidity	2.19				NTU			12/18/14 07:37	1
Field Dissolved Oxygen	0.6				mg/L			12/18/14 07:37	1
Field Color	NONE				No Unit			12/18/14 07:37	1

Client Sample ID: MW-5A
Date Collected: 12/18/14 09:00
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	55.36				ft/msl			12/18/14 07:00	1
Field pH	4.62				SU			12/18/14 07:00	1
Field Conductivity	85.0				umhos/cm			12/18/14 07:00	1
Field Temperature	24.6				Degrees C			12/18/14 07:00	1
Field Turbidity	3.92				NTU			12/18/14 07:00	1
Field Dissolved Oxygen	3.7				mg/L			12/18/14 07:00	1
Field Color	NONE				No Unit			12/18/14 07:00	1

Client Sample ID: MW-4A
Date Collected: 12/18/14 08:20
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-8
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	53.21				ft/msl			12/18/14 06:20	1
Field pH	4.75				SU			12/18/14 06:20	1
Field Conductivity	63.0				umhos/cm			12/18/14 06:20	1
Field Temperature	24.8				Degrees C			12/18/14 06:20	1
Field Turbidity	2.05				NTU			12/18/14 06:20	1
Field Dissolved Oxygen	0.4				mg/L			12/18/14 06:20	1
Field Color	NONE				No Unit			12/18/14 06:20	1

TestAmerica Denver

Client Sample Results

Client: Waste Management
 Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: Field Sampling - Field Sampling

Client Sample ID: MW-3A
Date Collected: 12/18/14 07:37
Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	53.29				ft/msl			12/18/14 05:37	1
Field pH	6.04				SU			12/18/14 05:37	1
Field Conductivity	102.0				umhos/cm			12/18/14 05:37	1
Field Temperature	24.2				Degrees C			12/18/14 05:37	1
Field Turbidity	3.06				NTU			12/18/14 05:37	1
Field Dissolved Oxygen	3.9				mg/L			12/18/14 05:37	1
Field Color	NONE				No Unit			12/18/14 05:37	1



Surrogate Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (70-127)	TOL (80-125)	BFB (78-120)	DBFM (77-120)
280-63754-F-6 MS	Matrix Spike	114	109	96	109
280-63754-F-6 MSD	Matrix Spike Duplicate	105	110	105	106
280-63811-2	MW-6AR	110	107	105	112
280-63811-3	MW-8R	101	99	98	103
280-63811-4	MW-2AR	102	97	99	104
280-63811-5	MW-1A	111	107	108	115
280-63811-6	MW-7A	101	98	93	101
280-63811-7	MW-5A	101	99	98	104
280-63811-8	MW-4A	106	99	97	107
280-63811-9	MW-3A	109	104	105	109
280-63811-10	TRIP BLANK	97	97	100	102
LCS 280-258056/4	Lab Control Sample	111	112	98	108
MB 280-258056/6	Method Blank	105	103	103	106

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DBP2
		(70-130)
280-63811-2	MW-6AR	116
280-63811-3	MW-8R	117
280-63811-4	MW-2AR	130
280-63811-5	MW-1A	117
280-63811-6	MW-7A	116
280-63811-7	MW-5A	120
280-63811-8	MW-4A	118
LCS 280-258647/2-A	Lab Control Sample	118
LCSD 280-258647/3-A	Lab Control Sample Dup	117
MB 280-258647/4-A	Method Blank	116

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DBP1
		(70-130)
280-63811-9	MW-3A	101

Surrogate Legend

12DBP = 1,2-Dibromopropane

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-258056/6

Matrix: Water

Analysis Batch: 258056

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			12/22/14 09:52	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/22/14 09:52	1
Benzene	0.16	U	1.0	0.16	ug/L			12/22/14 09:52	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/22/14 09:52	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 09:52	1
Bromoform	0.19	U	1.0	0.19	ug/L			12/22/14 09:52	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/22/14 09:52	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			12/22/14 09:52	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/22/14 09:52	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/22/14 09:52	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/22/14 09:52	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/22/14 09:52	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/22/14 09:52	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/22/14 09:52	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/22/14 09:52	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/22/14 09:52	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/22/14 09:52	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/22/14 09:52	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/22/14 09:52	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 09:52	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/22/14 09:52	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/22/14 09:52	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/22/14 09:52	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/22/14 09:52	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/22/14 09:52	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/22/14 09:52	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/22/14 09:52	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/22/14 09:52	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			12/22/14 09:52	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/22/14 09:52	1
Styrene	0.17	U	1.0	0.17	ug/L			12/22/14 09:52	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 09:52	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/22/14 09:52	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/22/14 09:52	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/22/14 09:52	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/22/14 09:52	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/22/14 09:52	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/22/14 09:52	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/22/14 09:52	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/22/14 09:52	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/22/14 09:52	1
Xylenes (total)	0.39	U	3.6	0.39	ug/L			12/22/14 09:52	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/22/14 09:52	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/22/14 09:52	1
Toluene	0.17	U	1.0	0.17	ug/L			12/22/14 09:52	1

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-258056/6

Matrix: Water

Analysis Batch: 258056

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 127		12/22/14 09:52	1
Toluene-d8 (Surr)	103		80 - 125		12/22/14 09:52	1
4-Bromofluorobenzene (Surr)	103		78 - 120		12/22/14 09:52	1
Dibromofluoromethane (Surr)	106		77 - 120		12/22/14 09:52	1

Lab Sample ID: LCS 280-258056/4

Matrix: Water

Analysis Batch: 258056

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.63		ug/L		113	65 - 135
Bromodichloromethane	5.00	5.52		ug/L		110	65 - 135
Carbon tetrachloride	5.00	5.42		ug/L		108	65 - 135
Chlorobenzene	5.00	5.11		ug/L		102	65 - 135
Chloroform	5.00	5.77		ug/L		115	65 - 135
1,4-Dichlorobenzene	5.00	5.36		ug/L		107	65 - 135
1,1-Dichloroethane	5.00	5.70		ug/L		114	65 - 135
trans-1,2-Dichloroethene	5.00	5.85		ug/L		117	65 - 135
1,1-Dichloroethene	5.00	5.88		ug/L		118	65 - 136
1,2-Dichloropropane	5.00	5.57		ug/L		111	64 - 135
Ethylbenzene	5.00	5.02		ug/L		100	65 - 135
Methylene Chloride	5.00	5.23		ug/L		105	54 - 141
Tetrachloroethene	5.00	5.12		ug/L		102	65 - 135
1,1,1-Trichloroethane	5.00	5.49		ug/L		110	65 - 135
Trichloroethene	5.00	5.64		ug/L		113	65 - 135
Toluene	5.00	5.61		ug/L		112	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		70 - 127
Toluene-d8 (Surr)	112		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	108		77 - 120

Lab Sample ID: 280-63754-F-6 MS

Matrix: Water

Analysis Batch: 258056

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.19	I	5.00	5.48		ug/L		106	65 - 135
Bromodichloromethane	0.17	U	5.00	5.35		ug/L		107	65 - 135
Carbon tetrachloride	0.19	U	5.00	4.89		ug/L		98	65 - 135
Chlorobenzene	0.17	U	5.00	4.74		ug/L		95	65 - 135
Chloroform	0.16	U	5.00	5.63		ug/L		113	65 - 135
1,4-Dichlorobenzene	0.16	U	5.00	4.79		ug/L		96	65 - 135
1,1-Dichloroethane	1.0		5.00	6.45		ug/L		108	65 - 135
trans-1,2-Dichloroethene	0.15	U	5.00	5.69		ug/L		114	65 - 135
1,1-Dichloroethene	0.23	U	5.00	5.32		ug/L		106	65 - 136
1,2-Dichloropropane	0.18	U	5.00	5.50		ug/L		110	64 - 135

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-63754-F-6 MS

Matrix: Water

Analysis Batch: 258056

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Ethylbenzene	0.16	U	5.00	4.58		ug/L		92	65 - 135
Methylene Chloride	0.32	U	5.00	4.66		ug/L		93	54 - 141
Tetrachloroethene	0.20	U	5.00	4.62		ug/L		92	65 - 135
1,1,1-Trichloroethane	0.16	U	5.00	5.26		ug/L		105	65 - 135
Trichloroethene	0.34	I	5.00	5.51		ug/L		103	65 - 135
Toluene	0.17	U	5.00	5.20		ug/L		104	65 - 135

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	114		70 - 127
Toluene-d8 (Surr)	109		80 - 125
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	109		77 - 120

Lab Sample ID: 280-63754-F-6 MSD

Matrix: Water

Analysis Batch: 258056

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	0.19	I	5.00	5.60		ug/L		108	65 - 135	2	20
Bromodichloromethane	0.17	U	5.00	5.39		ug/L		108	65 - 135	1	20
Carbon tetrachloride	0.19	U	5.00	5.10		ug/L		102	65 - 135	4	21
Chlorobenzene	0.17	U	5.00	4.73		ug/L		95	65 - 135	0	20
Chloroform	0.16	U	5.00	5.63		ug/L		113	65 - 135	0	20
1,4-Dichlorobenzene	0.16	U	5.00	4.82		ug/L		96	65 - 135	1	23
1,1-Dichloroethane	1.0		5.00	6.48		ug/L		109	65 - 135	1	21
trans-1,2-Dichloroethene	0.15	U	5.00	5.73		ug/L		115	65 - 135	1	24
1,1-Dichloroethene	0.23	U	5.00	5.50		ug/L		110	65 - 136	3	20
1,2-Dichloropropane	0.18	U	5.00	5.49		ug/L		110	64 - 135	0	20
Ethylbenzene	0.16	U	5.00	4.69		ug/L		94	65 - 135	2	20
Methylene Chloride	0.32	U	5.00	4.81		ug/L		96	54 - 141	3	26
Tetrachloroethene	0.20	U	5.00	4.75		ug/L		95	65 - 135	3	20
1,1,1-Trichloroethane	0.16	U	5.00	5.43		ug/L		109	65 - 135	3	20
Trichloroethene	0.34	I	5.00	5.75		ug/L		108	65 - 135	4	20
Toluene	0.17	U	5.00	5.34		ug/L		107	65 - 135	3	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
Toluene-d8 (Surr)	110		80 - 125
4-Bromofluorobenzene (Surr)	105		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-258647/4-A
Matrix: Water
Analysis Batch: 258654

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/29/14 18:12	12/30/14 01:48	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/29/14 18:12	12/30/14 01:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	116		70 - 130	12/29/14 18:12	12/30/14 01:48	1

Lab Sample ID: LCS 280-258647/2-A
Matrix: Water
Analysis Batch: 258654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2-Dibromoethane	0.250	0.251		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	0.250	0.253		ug/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dibromopropane	118		70 - 130

Lab Sample ID: LCSD 280-258647/3-A
Matrix: Water
Analysis Batch: 258654

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dibromoethane	0.250	0.252		ug/L		101	70 - 130	1	10
1,2-Dibromo-3-Chloropropane	0.250	0.254		ug/L		101	70 - 130	0	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dibromopropane	117		70 - 130

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-258102/1-A
Matrix: Water
Analysis Batch: 258452

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	U	10	0.58	ug/L		12/22/14 14:30	12/23/14 13:30	1
Cadmium	0.45	U	5.0	0.45	ug/L		12/22/14 14:30	12/23/14 13:30	1
Cobalt	1.2	U	10	1.2	ug/L		12/22/14 14:30	12/23/14 13:30	1
Chromium	0.66	U	10	0.66	ug/L		12/22/14 14:30	12/23/14 13:30	1
Copper	1.4	U	15	1.4	ug/L		12/22/14 14:30	12/23/14 13:30	1
Nickel	1.3	U	40	1.3	ug/L		12/22/14 14:30	12/23/14 13:30	1
Lead	2.6	U	9.0	2.6	ug/L		12/22/14 14:30	12/23/14 13:30	1
Selenium	4.9	U	15	4.9	ug/L		12/22/14 14:30	12/23/14 13:30	1
Iron	22	U	100	22	ug/L		12/22/14 14:30	12/23/14 13:30	1
Vanadium	1.1	U	10	1.1	ug/L		12/22/14 14:30	12/23/14 13:30	1
Zinc	4.5	U	20	4.5	ug/L		12/22/14 14:30	12/23/14 13:30	1
Silver	0.93	U	10	0.93	ug/L		12/22/14 14:30	12/23/14 13:30	1

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 280-258102/1-A
Matrix: Water
Analysis Batch: 258452

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.092	U	1.0	0.092	mg/L		12/22/14 14:30	12/23/14 13:30	1

Lab Sample ID: LCS 280-258102/2-A
Matrix: Water
Analysis Batch: 258452

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	2130		ug/L		106	90 - 112
Cadmium	100	101		ug/L		101	88 - 111
Cobalt	500	512		ug/L		102	89 - 111
Chromium	200	208		ug/L		104	90 - 113
Copper	250	261		ug/L		105	86 - 112
Nickel	500	511		ug/L		102	89 - 111
Lead	500	512		ug/L		102	89 - 110
Selenium	2000	2070		ug/L		103	85 - 112
Iron	1000	1040		ug/L		104	89 - 115
Vanadium	500	514		ug/L		103	90 - 111
Zinc	500	508		ug/L		102	85 - 111
Silver	50.0	53.7		ug/L		107	86 - 115
Sodium	50.0	54.6		mg/L		109	90 - 115

Lab Sample ID: 280-63811-1 MS
Matrix: Water
Analysis Batch: 258452

Client Sample ID: Equipment Blank
Prep Type: Total Recoverable
Prep Batch: 258102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.58	U	2000	2120		ug/L		106	85 - 120
Cadmium	0.45	U	100	100		ug/L		100	82 - 119
Cobalt	1.2	U	500	510		ug/L		102	82 - 119
Chromium	0.66	U	200	206		ug/L		103	73 - 135
Copper	1.4	U	250	260		ug/L		104	82 - 129
Nickel	1.3	U	500	506		ug/L		101	84 - 120
Lead	2.6	U	500	509		ug/L		102	89 - 121
Selenium	5.4	I	2000	2040		ug/L		102	71 - 140
Iron	22	U	1000	1040		ug/L		104	52 - 155
Vanadium	1.1	U	500	515		ug/L		103	85 - 120
Zinc	4.5	U	500	501		ug/L		100	60 - 137
Silver	0.93	U	50.0	53.4		ug/L		107	75 - 141
Sodium	0.092	U	50.0	54.1		mg/L		108	70 - 203

Lab Sample ID: 280-63811-1 MSD
Matrix: Water
Analysis Batch: 258452

Client Sample ID: Equipment Blank
Prep Type: Total Recoverable
Prep Batch: 258102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.58	U	2000	2090		ug/L		104	85 - 120	1	20
Cadmium	0.45	U	100	100		ug/L		100	82 - 119	0	20
Cobalt	1.2	U	500	510		ug/L		102	82 - 119	0	20
Chromium	0.66	U	200	207		ug/L		103	73 - 135	0	20

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-63811-1 MSD
Matrix: Water
Analysis Batch: 258452

Client Sample ID: Equipment Blank
Prep Type: Total Recoverable
Prep Batch: 258102

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Copper	1.4	U	250	261		ug/L		104	82 - 129	0	20
Nickel	1.3	U	500	506		ug/L		101	84 - 120	0	20
Lead	2.6	U	500	510		ug/L		102	89 - 121	0	20
Selenium	5.4	I	2000	2030		ug/L		101	71 - 140	0	20
Iron	22	U	1000	1020		ug/L		102	52 - 155	2	20
Vanadium	1.1	U	500	516		ug/L		103	85 - 120	0	20
Zinc	4.5	U	500	497		ug/L		99	60 - 137	1	20
Silver	0.93	U	50.0	53.4		ug/L		107	75 - 141	0	20
Sodium	0.092	U	50.0	53.7		mg/L		107	70 - 203	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-258098/1-A
Matrix: Water
Analysis Batch: 258457

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258098

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.40	U	2.0	0.40	ug/L		12/22/14 14:30	12/23/14 15:49	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/22/14 14:30	12/23/14 15:49	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/22/14 14:30	12/23/14 15:49	1
Thallium	0.050	U	1.0	0.050	ug/L		12/22/14 14:30	12/23/14 15:49	1

Lab Sample ID: LCS 280-258098/2-A
Matrix: Water
Analysis Batch: 258457

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	40.0	37.3		ug/L		93	85 - 115	
Arsenic	40.0	41.0		ug/L		102	85 - 117	
Beryllium	40.0	41.0		ug/L		102	80 - 125	
Thallium	40.0	41.7		ug/L		104	85 - 118	

Lab Sample ID: 280-63763-C-2-C MS
Matrix: Water
Analysis Batch: 258457

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 258098

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Antimony	0.40	U	40.0	40.4		ug/L		101	85 - 115
Arsenic	0.33	U	40.0	43.5		ug/L		109	85 - 117
Beryllium	0.080	U	40.0	42.8		ug/L		107	80 - 125
Thallium	0.13	I	40.0	42.5		ug/L		106	85 - 118

Lab Sample ID: 280-63763-C-2-D MSD
Matrix: Water
Analysis Batch: 258457

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 258098

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	0.40	U	40.0	41.8		ug/L		105	85 - 115	3	20
Arsenic	0.33	U	40.0	42.9		ug/L		107	85 - 117	1	20

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-63763-C-2-D MSD
Matrix: Water
Analysis Batch: 258457

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 258098

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Beryllium	0.080	U	40.0	43.9		ug/L		110	80 - 125	3	20
Thallium	0.13	I	40.0	42.2		ug/L		105	85 - 118	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-258031/1-A
Matrix: Water
Analysis Batch: 258597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258031

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.027	U	0.20	0.027	ug/L		12/23/14 12:20	12/23/14 18:06	1

Lab Sample ID: LCS 280-258031/2-A
Matrix: Water
Analysis Batch: 258597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258031

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Added
Mercury	5.00	4.63		ug/L		93	84 - 120

Lab Sample ID: 280-63811-1 MS
Matrix: Water
Analysis Batch: 258597

Client Sample ID: Equipment Blank
Prep Type: Total/NA
Prep Batch: 258031

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	0.027	U	5.00	5.23		ug/L		105	75 - 125

Lab Sample ID: 280-63811-1 MSD
Matrix: Water
Analysis Batch: 258597

Client Sample ID: Equipment Blank
Prep Type: Total/NA
Prep Batch: 258031

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.027	U	5.00	5.23		ug/L		105	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-257852/6
Matrix: Water
Analysis Batch: 257852

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	0.042	U	0.50	0.042	mg/L			12/19/14 12:42	1

Lab Sample ID: LCS 280-257852/4
Matrix: Water
Analysis Batch: 257852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Added
Nitrate as N	5.00	4.87		mg/L		97	90 - 110

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-257852/5

Matrix: Water

Analysis Batch: 257852

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.00	4.88		mg/L		98	90 - 110	0	10

Lab Sample ID: MRL 280-257852/3

Matrix: Water

Analysis Batch: 257852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.200	0.235	I	mg/L		118	50 - 150		

Lab Sample ID: 280-63811-2 MS

Matrix: Water

Analysis Batch: 257852

Client Sample ID: MW-6AR

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	15	L	5.00	21.2	L J3	mg/L		132	80 - 120		

Lab Sample ID: 280-63811-2 MSD

Matrix: Water

Analysis Batch: 257852

Client Sample ID: MW-6AR

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	15	L	5.00	21.3	L J3	mg/L		132	80 - 120	0	20

Lab Sample ID: 280-63811-2 DU

Matrix: Water

Analysis Batch: 257852

Client Sample ID: MW-6AR

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	15	L		14.6	L	mg/L				0.1	15

Lab Sample ID: MB 280-257853/6

Matrix: Water

Analysis Batch: 257853

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.701	I	3.0	0.25	mg/L			12/19/14 12:42	1

Lab Sample ID: LCS 280-257853/4

Matrix: Water

Analysis Batch: 257853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	97.5		mg/L		97	90 - 110		

Lab Sample ID: LCSD 280-257853/5

Matrix: Water

Analysis Batch: 257853

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	97.5		mg/L		98	90 - 110	0	10

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Lab Sample ID: MRL 280-257853/3
Matrix: Water
Analysis Batch: 257853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.50	2.33	I	mg/L		93	50 - 150

Lab Sample ID: 280-63811-2 MS
Matrix: Water
Analysis Batch: 257853

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	17		25.0	42.7		mg/L		101	80 - 120

Lab Sample ID: 280-63811-2 MSD
Matrix: Water
Analysis Batch: 257853

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17		25.0	42.7		mg/L		101	80 - 120	0	20

Lab Sample ID: 280-63811-2 DU
Matrix: Water
Analysis Batch: 257853

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	17		17.4		mg/L		0.07	15

Lab Sample ID: MB 280-257988/6
Matrix: Water
Analysis Batch: 257988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.042	U	0.50	0.042	mg/L			12/20/14 11:14	1

Lab Sample ID: LCS 280-257988/4
Matrix: Water
Analysis Batch: 257988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	5.06		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-257988/5
Matrix: Water
Analysis Batch: 257988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.00	4.92		mg/L		98	90 - 110	3	10

Lab Sample ID: MRL 280-257988/3
Matrix: Water
Analysis Batch: 257988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.200	0.241	I	mg/L		121	50 - 150

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-63767-B-2 MS

Matrix: Water

Analysis Batch: 257988

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	19		10.0	28.6	L	mg/L		98	80 - 120

Lab Sample ID: 280-63767-B-2 MSD

Matrix: Water

Analysis Batch: 257988

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	19		10.0	28.6	L	mg/L		98	80 - 120	0	20

Lab Sample ID: 280-63767-B-2 DU

Matrix: Water

Analysis Batch: 257988

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	19		18.7		mg/L		0.9	15

Lab Sample ID: MB 280-257989/6

Matrix: Water

Analysis Batch: 257989

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	3.0	0.25	mg/L			12/20/14 11:14	1

Lab Sample ID: LCS 280-257989/4

Matrix: Water

Analysis Batch: 257989

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	99.9		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-257989/5

Matrix: Water

Analysis Batch: 257989

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.7		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-257989/3

Matrix: Water

Analysis Batch: 257989

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.50	2.42	I	mg/L		97	50 - 150

Lab Sample ID: 280-63767-B-2 MS

Matrix: Water

Analysis Batch: 257989

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	260		50.0	304		mg/L		81	80 - 120

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Lab Sample ID: 280-63767-B-2 MSD
Matrix: Water
Analysis Batch: 257989

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	260		50.0	304		mg/L		82	80 - 120	0	20

Lab Sample ID: 280-63767-B-2 DU
Matrix: Water
Analysis Batch: 257989

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	260		260		mg/L		1	15

Lab Sample ID: MB 280-259204/7
Matrix: Water
Analysis Batch: 259204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.042	U	0.50	0.042	mg/L			01/06/15 12:20	1

Lab Sample ID: LCS 280-259204/4
Matrix: Water
Analysis Batch: 259204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	4.87		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-259204/5
Matrix: Water
Analysis Batch: 259204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.00	4.83		mg/L		97	90 - 110	1	10

Lab Sample ID: MRL 280-259204/3
Matrix: Water
Analysis Batch: 259204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.200	0.225	I	mg/L		113	50 - 150

Lab Sample ID: 280-63811-7 MS
Matrix: Water
Analysis Batch: 259204

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.8	Q	5.00	10.9	L	mg/L		102	80 - 120

Lab Sample ID: 280-63811-7 MSD
Matrix: Water
Analysis Batch: 259204

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.8	Q	5.00	11.0	L	mg/L		104	80 - 120	1	20

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-63811-7 DU
Matrix: Water
Analysis Batch: 259204

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	5.8	Q	5.77		mg/L		0.5	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-258438/131
Matrix: Water
Analysis Batch: 258438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/23/14 13:56	1

Lab Sample ID: LCS 280-258438/129
Matrix: Water
Analysis Batch: 258438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.50	2.63		mg/L		105	90 - 110

Lab Sample ID: LCSD 280-258438/130
Matrix: Water
Analysis Batch: 258438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ammonia as N	2.50	2.68		mg/L		107	90 - 110	2	10

Lab Sample ID: 280-63811-5 MS
Matrix: Water
Analysis Batch: 258438

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	0.022	U	1.00	1.16	J3	mg/L		116	90 - 110

Lab Sample ID: 280-63811-5 MSD
Matrix: Water
Analysis Batch: 258438

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ammonia as N	0.022	U	1.00	1.11	J3	mg/L		111	90 - 110	5	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-258643/6
Matrix: Water
Analysis Batch: 258643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1.55	I	5.0	1.1	mg/L			12/24/14 13:41	1

TestAmerica Denver

QC Sample Results

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 280-258643/4

Matrix: Water

Analysis Batch: 258643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	200	185		mg/L		92	90 - 110

Lab Sample ID: LCSD 280-258643/5

Matrix: Water

Analysis Batch: 258643

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Alkalinity	200	195		mg/L		97	90 - 110	5	10

Lab Sample ID: 280-63811-1 DU

Matrix: Water

Analysis Batch: 258643

Client Sample ID: Equipment Blank

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	1.1	U	1.1	U	mg/L		NC	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-257966/1

Matrix: Water

Analysis Batch: 257966

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4.7	U	10	4.7	mg/L			12/19/14 18:11	1

Lab Sample ID: LCS 280-257966/2

Matrix: Water

Analysis Batch: 257966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	490		mg/L		98	86 - 110

Lab Sample ID: LCSD 280-257966/3

Matrix: Water

Analysis Batch: 257966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	501	489		mg/L		98	86 - 110	0	20

Lab Sample ID: 280-63811-2 DU

Matrix: Water

Analysis Batch: 257966

Client Sample ID: MW-6AR

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	130		133		mg/L		2	10

TestAmerica Denver

QC Association Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

GC/MS VOA

Analysis Batch: 258056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63754-F-6 MS	Matrix Spike	Total/NA	Water	8260B	
280-63754-F-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
280-63811-2	MW-6AR	Total/NA	Water	8260B	
280-63811-3	MW-8R	Total/NA	Water	8260B	
280-63811-4	MW-2AR	Total/NA	Water	8260B	
280-63811-5	MW-1A	Total/NA	Water	8260B	
280-63811-6	MW-7A	Total/NA	Water	8260B	
280-63811-7	MW-5A	Total/NA	Water	8260B	
280-63811-8	MW-4A	Total/NA	Water	8260B	
280-63811-9	MW-3A	Total/NA	Water	8260B	
280-63811-10	TRIP BLANK	Total/NA	Water	8260B	
LCS 280-258056/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-258056/6	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 258647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-2	MW-6AR	Total/NA	Water	8011	
280-63811-3	MW-8R	Total/NA	Water	8011	
280-63811-4	MW-2AR	Total/NA	Water	8011	
280-63811-5	MW-1A	Total/NA	Water	8011	
280-63811-6	MW-7A	Total/NA	Water	8011	
280-63811-7	MW-5A	Total/NA	Water	8011	
280-63811-8	MW-4A	Total/NA	Water	8011	
280-63811-9	MW-3A	Total/NA	Water	8011	
LCS 280-258647/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-258647/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 280-258647/4-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 258654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-2	MW-6AR	Total/NA	Water	8011	258647
280-63811-3	MW-8R	Total/NA	Water	8011	258647
280-63811-4	MW-2AR	Total/NA	Water	8011	258647
280-63811-5	MW-1A	Total/NA	Water	8011	258647
280-63811-6	MW-7A	Total/NA	Water	8011	258647
280-63811-7	MW-5A	Total/NA	Water	8011	258647
280-63811-8	MW-4A	Total/NA	Water	8011	258647
280-63811-9	MW-3A	Total/NA	Water	8011	258647
LCS 280-258647/2-A	Lab Control Sample	Total/NA	Water	8011	258647
LCSD 280-258647/3-A	Lab Control Sample Dup	Total/NA	Water	8011	258647
MB 280-258647/4-A	Method Blank	Total/NA	Water	8011	258647

Metals

Prep Batch: 258031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total/NA	Water	7470A	
280-63811-1 MS	Equipment Blank	Total/NA	Water	7470A	

TestAmerica Denver

QC Association Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Metals (Continued)

Prep Batch: 258031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1 MSD	Equipment Blank	Total/NA	Water	7470A	
280-63811-2	MW-6AR	Total/NA	Water	7470A	
280-63811-3	MW-8R	Total/NA	Water	7470A	
280-63811-4	MW-2AR	Total/NA	Water	7470A	
280-63811-5	MW-1A	Total/NA	Water	7470A	
280-63811-6	MW-7A	Total/NA	Water	7470A	
280-63811-7	MW-5A	Total/NA	Water	7470A	
280-63811-8	MW-4A	Total/NA	Water	7470A	
280-63811-9	MW-3A	Total/NA	Water	7470A	
LCS 280-258031/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-258031/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 258098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63763-C-2-C MS	Matrix Spike	Total Recoverable	Water	3005A	
280-63763-C-2-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-63811-1	Equipment Blank	Total Recoverable	Water	3005A	
280-63811-2	MW-6AR	Total Recoverable	Water	3005A	
280-63811-3	MW-8R	Total Recoverable	Water	3005A	
280-63811-4	MW-2AR	Total Recoverable	Water	3005A	
280-63811-5	MW-1A	Total Recoverable	Water	3005A	
280-63811-6	MW-7A	Total Recoverable	Water	3005A	
280-63811-7	MW-5A	Total Recoverable	Water	3005A	
280-63811-8	MW-4A	Total Recoverable	Water	3005A	
280-63811-9	MW-3A	Total Recoverable	Water	3005A	
LCS 280-258098/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-258098/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 258102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total Recoverable	Water	3005A	
280-63811-1 MS	Equipment Blank	Total Recoverable	Water	3005A	
280-63811-1 MSD	Equipment Blank	Total Recoverable	Water	3005A	
280-63811-2	MW-6AR	Total Recoverable	Water	3005A	
280-63811-3	MW-8R	Total Recoverable	Water	3005A	
280-63811-4	MW-2AR	Total Recoverable	Water	3005A	
280-63811-5	MW-1A	Total Recoverable	Water	3005A	
280-63811-6	MW-7A	Total Recoverable	Water	3005A	
280-63811-7	MW-5A	Total Recoverable	Water	3005A	
280-63811-8	MW-4A	Total Recoverable	Water	3005A	
280-63811-9	MW-3A	Total Recoverable	Water	3005A	
LCS 280-258102/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-258102/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 258452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total Recoverable	Water	6010B	258102
280-63811-1 MS	Equipment Blank	Total Recoverable	Water	6010B	258102
280-63811-1 MSD	Equipment Blank	Total Recoverable	Water	6010B	258102
280-63811-2	MW-6AR	Total Recoverable	Water	6010B	258102
280-63811-3	MW-8R	Total Recoverable	Water	6010B	258102

TestAmerica Denver

QC Association Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Metals (Continued)

Analysis Batch: 258452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-4	MW-2AR	Total Recoverable	Water	6010B	258102
280-63811-5	MW-1A	Total Recoverable	Water	6010B	258102
280-63811-7	MW-5A	Total Recoverable	Water	6010B	258102
280-63811-8	MW-4A	Total Recoverable	Water	6010B	258102
280-63811-9	MW-3A	Total Recoverable	Water	6010B	258102
LCS 280-258102/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258102
MB 280-258102/1-A	Method Blank	Total Recoverable	Water	6010B	258102

Analysis Batch: 258457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63763-C-2-C MS	Matrix Spike	Total Recoverable	Water	6020	258098
280-63763-C-2-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	258098
280-63811-1	Equipment Blank	Total Recoverable	Water	6020	258098
280-63811-2	MW-6AR	Total Recoverable	Water	6020	258098
280-63811-3	MW-8R	Total Recoverable	Water	6020	258098
280-63811-4	MW-2AR	Total Recoverable	Water	6020	258098
280-63811-5	MW-1A	Total Recoverable	Water	6020	258098
280-63811-6	MW-7A	Total Recoverable	Water	6020	258098
280-63811-7	MW-5A	Total Recoverable	Water	6020	258098
280-63811-8	MW-4A	Total Recoverable	Water	6020	258098
280-63811-9	MW-3A	Total Recoverable	Water	6020	258098
LCS 280-258098/2-A	Lab Control Sample	Total Recoverable	Water	6020	258098
MB 280-258098/1-A	Method Blank	Total Recoverable	Water	6020	258098

Analysis Batch: 258597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total/NA	Water	7470A	258031
280-63811-1 MS	Equipment Blank	Total/NA	Water	7470A	258031
280-63811-1 MSD	Equipment Blank	Total/NA	Water	7470A	258031
280-63811-2	MW-6AR	Total/NA	Water	7470A	258031
280-63811-3	MW-8R	Total/NA	Water	7470A	258031
280-63811-4	MW-2AR	Total/NA	Water	7470A	258031
280-63811-5	MW-1A	Total/NA	Water	7470A	258031
280-63811-6	MW-7A	Total/NA	Water	7470A	258031
280-63811-7	MW-5A	Total/NA	Water	7470A	258031
280-63811-8	MW-4A	Total/NA	Water	7470A	258031
280-63811-9	MW-3A	Total/NA	Water	7470A	258031
LCS 280-258031/2-A	Lab Control Sample	Total/NA	Water	7470A	258031
MB 280-258031/1-A	Method Blank	Total/NA	Water	7470A	258031

Analysis Batch: 259520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-6	MW-7A	Total Recoverable	Water	6010B	258102

General Chemistry

Analysis Batch: 257852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total/NA	Water	300.0	
280-63811-2 DU	MW-6AR	Total/NA	Water	300.0	

TestAmerica Denver

QC Association Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

General Chemistry (Continued)

Analysis Batch: 257852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-2 MS	MW-6AR	Total/NA	Water	300.0	
280-63811-2 MSD	MW-6AR	Total/NA	Water	300.0	
280-63811-3	MW-8R	Total/NA	Water	300.0	
280-63811-4	MW-2AR	Total/NA	Water	300.0	
280-63811-7	MW-5A	Total/NA	Water	300.0	
280-63811-8	MW-4A	Total/NA	Water	300.0	
280-63811-9	MW-3A	Total/NA	Water	300.0	
LCS 280-257852/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-257852/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-257852/6	Method Blank	Total/NA	Water	300.0	
MRL 280-257852/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 257853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total/NA	Water	300.0	
280-63811-2	MW-6AR	Total/NA	Water	300.0	
280-63811-2 DU	MW-6AR	Total/NA	Water	300.0	
280-63811-2 MS	MW-6AR	Total/NA	Water	300.0	
280-63811-2 MSD	MW-6AR	Total/NA	Water	300.0	
280-63811-3	MW-8R	Total/NA	Water	300.0	
280-63811-4	MW-2AR	Total/NA	Water	300.0	
280-63811-5	MW-1A	Total/NA	Water	300.0	
280-63811-6	MW-7A	Total/NA	Water	300.0	
280-63811-7	MW-5A	Total/NA	Water	300.0	
280-63811-8	MW-4A	Total/NA	Water	300.0	
280-63811-9	MW-3A	Total/NA	Water	300.0	
LCS 280-257853/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-257853/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-257853/6	Method Blank	Total/NA	Water	300.0	
MRL 280-257853/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 257966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total/NA	Water	SM 2540C	
280-63811-2	MW-6AR	Total/NA	Water	SM 2540C	
280-63811-2 DU	MW-6AR	Total/NA	Water	SM 2540C	
280-63811-3	MW-8R	Total/NA	Water	SM 2540C	
280-63811-4	MW-2AR	Total/NA	Water	SM 2540C	
280-63811-5	MW-1A	Total/NA	Water	SM 2540C	
280-63811-6	MW-7A	Total/NA	Water	SM 2540C	
280-63811-7	MW-5A	Total/NA	Water	SM 2540C	
280-63811-8	MW-4A	Total/NA	Water	SM 2540C	
280-63811-9	MW-3A	Total/NA	Water	SM 2540C	
LCS 280-257966/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-257966/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
MB 280-257966/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 257988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63767-B-2 DU	Duplicate	Total/NA	Water	300.0	
280-63767-B-2 MS	Matrix Spike	Total/NA	Water	300.0	

TestAmerica Denver

QC Association Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

General Chemistry (Continued)

Analysis Batch: 257988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63767-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-63811-2	MW-6AR	Total/NA	Water	300.0	
280-63811-5	MW-1A	Total/NA	Water	300.0	
280-63811-6	MW-7A	Total/NA	Water	300.0	
LCS 280-257988/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-257988/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-257988/6	Method Blank	Total/NA	Water	300.0	
MRL 280-257988/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 257989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63767-B-2 DU	Duplicate	Total/NA	Water	300.0	
280-63767-B-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-63767-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 280-257989/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-257989/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-257989/6	Method Blank	Total/NA	Water	300.0	
MRL 280-257989/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 258438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total/NA	Water	350.1	
280-63811-2	MW-6AR	Total/NA	Water	350.1	
280-63811-3	MW-8R	Total/NA	Water	350.1	
280-63811-4	MW-2AR	Total/NA	Water	350.1	
280-63811-5	MW-1A	Total/NA	Water	350.1	
280-63811-5 MS	MW-1A	Total/NA	Water	350.1	
280-63811-5 MSD	MW-1A	Total/NA	Water	350.1	
280-63811-6	MW-7A	Total/NA	Water	350.1	
280-63811-7	MW-5A	Total/NA	Water	350.1	
280-63811-8	MW-4A	Total/NA	Water	350.1	
280-63811-9	MW-3A	Total/NA	Water	350.1	
LCS 280-258438/129	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-258438/130	Lab Control Sample Dup	Total/NA	Water	350.1	
MB 280-258438/131	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 258643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total/NA	Water	SM 2320B	
280-63811-1 DU	Equipment Blank	Total/NA	Water	SM 2320B	
280-63811-2	MW-6AR	Total/NA	Water	SM 2320B	
280-63811-3	MW-8R	Total/NA	Water	SM 2320B	
280-63811-4	MW-2AR	Total/NA	Water	SM 2320B	
280-63811-5	MW-1A	Total/NA	Water	SM 2320B	
280-63811-6	MW-7A	Total/NA	Water	SM 2320B	
280-63811-7	MW-5A	Total/NA	Water	SM 2320B	
280-63811-8	MW-4A	Total/NA	Water	SM 2320B	
280-63811-9	MW-3A	Total/NA	Water	SM 2320B	
LCS 280-258643/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-258643/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
MB 280-258643/6	Method Blank	Total/NA	Water	SM 2320B	

TestAmerica Denver

QC Association Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

General Chemistry (Continued)

Analysis Batch: 259204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-7 DU	MW-5A	Total/NA	Water	300.0	
280-63811-7 MS	MW-5A	Total/NA	Water	300.0	
280-63811-7 MSD	MW-5A	Total/NA	Water	300.0	
LCS 280-259204/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-259204/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-259204/7	Method Blank	Total/NA	Water	300.0	
MRL 280-259204/3	Lab Control Sample	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 258282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-63811-1	Equipment Blank	Total/NA	Water	Field Sampling	
280-63811-2	MW-6AR	Total/NA	Water	Field Sampling	
280-63811-3	MW-8R	Total/NA	Water	Field Sampling	
280-63811-4	MW-2AR	Total/NA	Water	Field Sampling	
280-63811-5	MW-1A	Total/NA	Water	Field Sampling	
280-63811-6	MW-7A	Total/NA	Water	Field Sampling	
280-63811-7	MW-5A	Total/NA	Water	Field Sampling	
280-63811-8	MW-4A	Total/NA	Water	Field Sampling	
280-63811-9	MW-3A	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: Equipment Blank

Date Collected: 12/18/14 12:40

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	258452	12/23/14 13:37	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:00	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:13	CGG	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257852	12/19/14 21:14	PS1	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/19/14 21:14	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 14:28	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 13:45	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 10:40	PS	TAL DEN

Client Sample ID: MW-6AR

Date Collected: 12/18/14 12:14

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 15:40	TAW	TAL DEN
Total/NA	Prep	8011			35.7 mL	35 mL	258647	12/29/14 18:12	MPS	TAL DEN
Total/NA	Analysis	8011		1	35.7 mL	35 mL	258654	12/30/14 02:07	MPS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	258452	12/23/14 13:48	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:04	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:20	CGG	TAL DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	257988	12/20/14 13:17	AJA	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/19/14 21:34	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 14:30	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 13:53	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 10:14	PS	TAL DEN

Client Sample ID: MW-8R

Date Collected: 12/18/14 11:29

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 16:02	TAW	TAL DEN
Total/NA	Prep	8011			35.5 mL	35 mL	258647	12/29/14 18:12	MPS	TAL DEN
Total/NA	Analysis	8011		1	35.5 mL	35 mL	258654	12/30/14 02:26	MPS	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: MW-8R

Date Collected: 12/18/14 11:29

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	258452	12/23/14 13:50	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:08	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:27	CGG	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257852	12/19/14 22:54	PS1	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/19/14 22:54	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 14:32	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 13:58	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 09:29	PS	TAL DEN

Client Sample ID: MW-2AR

Date Collected: 12/18/14 10:48

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 16:24	TAW	TAL DEN
Total/NA	Prep	8011			35.3 mL	35 mL	258647	12/29/14 18:12	MPS	TAL DEN
Total/NA	Analysis	8011		1	35.3 mL	35 mL	258654	12/30/14 02:45	MPS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	258452	12/23/14 14:04	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:12	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:29	CGG	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257852	12/19/14 23:14	PS1	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/19/14 23:14	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 14:34	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 14:02	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 08:48	PS	TAL DEN

Client Sample ID: MW-1A

Date Collected: 12/18/14 10:14

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 16:47	TAW	TAL DEN
Total/NA	Prep	8011			35.3 mL	35 mL	258647	12/29/14 18:12	MPS	TAL DEN
Total/NA	Analysis	8011		1	35.3 mL	35 mL	258654	12/30/14 03:03	MPS	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: MW-1A

Date Collected: 12/18/14 10:14

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	258452	12/23/14 14:06	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:15	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:31	CGG	TAL DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	257988	12/20/14 13:33	AJA	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/19/14 23:34	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 14:36	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 14:07	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 08:14	PS	TAL DEN

Client Sample ID: MW-7A

Date Collected: 12/18/14 09:37

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 17:09	TAW	TAL DEN
Total/NA	Prep	8011			35.3 mL	35 mL	258647	12/29/14 18:12	MPS	TAL DEN
Total/NA	Analysis	8011		1	35.3 mL	35 mL	258654	12/30/14 03:22	MPS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	259520	01/08/15 12:21	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:19	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:34	CGG	TAL DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	257988	12/20/14 13:48	AJA	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/19/14 23:54	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 14:42	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 14:12	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 07:37	PS	TAL DEN

Client Sample ID: MW-5A

Date Collected: 12/18/14 09:00

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 17:31	TAW	TAL DEN
Total/NA	Prep	8011			35.4 mL	35 mL	258647	12/29/14 18:12	MPS	TAL DEN
Total/NA	Analysis	8011		1	35.4 mL	35 mL	258654	12/30/14 03:41	MPS	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: MW-5A

Lab Sample ID: 280-63811-7

Date Collected: 12/18/14 09:00

Matrix: Water

Date Received: 12/19/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	258452	12/23/14 14:12	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:30	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:36	CGG	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257852	12/20/14 00:54	PS1	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/20/14 00:54	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 14:58	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 14:17	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 07:00	PS	TAL DEN

Client Sample ID: MW-4A

Lab Sample ID: 280-63811-8

Date Collected: 12/18/14 08:20

Matrix: Water

Date Received: 12/19/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 17:53	TAW	TAL DEN
Total/NA	Prep	8011			35.7 mL	35 mL	258647	12/29/14 18:12	MPS	TAL DEN
Total/NA	Analysis	8011		1	35.7 mL	35 mL	258654	12/30/14 04:00	MPS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	258452	12/23/14 14:14	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:34	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:38	CGG	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257852	12/20/14 01:13	PS1	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/20/14 01:13	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 15:00	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 14:21	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 06:20	PS	TAL DEN

Client Sample ID: MW-3A

Lab Sample ID: 280-63811-9

Date Collected: 12/18/14 07:37

Matrix: Water

Date Received: 12/19/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 18:15	TAW	TAL DEN
Total/NA	Prep	8011			35.1 mL	35 mL	258647	12/29/14 18:12	MPS	TAL DEN
Total/NA	Analysis	8011		1	35.1 mL	35 mL	258654	12/30/14 04:38	MPS	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-63811-1

Client Sample ID: MW-3A

Date Collected: 12/18/14 07:37

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	258102	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	258452	12/23/14 14:17	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	258098	12/22/14 14:30	WAW	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	258457	12/23/14 16:37	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	30 mL	258031	12/23/14 12:20	CGG	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	30 mL	258597	12/23/14 18:41	CGG	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257852	12/20/14 01:33	PS1	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	257853	12/20/14 01:33	PS1	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	258438	12/23/14 15:02	CML	TAL DEN
Total/NA	Analysis	SM 2320B		1			258643	12/24/14 14:25	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	257966	12/19/14 18:11	CMS	TAL DEN
Total/NA	Analysis	Field Sampling		1			258282	12/18/14 05:37	PS	TAL DEN

Client Sample ID: TRIP BLANK

Date Collected: 12/18/14 00:00

Date Received: 12/19/14 10:00

Lab Sample ID: 280-63811-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258056	12/22/14 11:57	TAW	TAL DEN

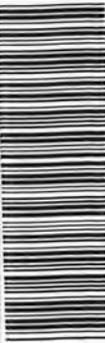
Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Chain of Custody Record

merica
ENVIRONMENTAL TESTING



280-63811 Chain of Custody

0.3, 0.9, 0.0+0.5
12/19/14-70

Client Information Client Contact: Mr. Paul Bermillo Company: Waste Management Address: Keene Road Landfill 242 West Keene Road City: Apopka State, Zip: FL, 32703 Phone: [blank] Email: pbermi1@wm.com Project Name: FL26Vista Site: Florida		Lab PM: Harrington, Danielle M E-Mail: danielle.harrington@testamericainc.com LULC No: 280-14072-6649.1 Page: Page 1 of 1 Job #: [blank]	
Due Date Requested: [blank] TAT Requested (days): [blank] PO #: [blank] Purchase Order not required WO #: [blank] Project #: 28002729-Semiannual GW June Dec SSOW#: [blank]		Analysis Requested Perform MS/MSD (Yes or No) [X] Field Filtered Sample (Yes or No) [X] 8268 (40mL VOA - CG) [X] TDS/Al/Cl/NO3(C)/Color (TLiter - PE) [X] Total Metals (500 mL - PE) [X] Ammonia (500 mL - AG) [X] 8011 (40 mL VOA - CG) [X] Gross Alpha (LPE) [X]	
Sample Identification EQUIPMENT BLANK MW-06AR MW-08R MW-02AR MW-01A MW-07A MW-05A MW-04A MW-03A TRIP		Sample Date: 12-18 Sample Time: 1240 Sample Type (C=comp, G=grab): G Matrix (W=water, S=solid, O=wastelot, B=tissue, J=air) Preservation Code: W Total Number of containers: [blank]	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements: "Log per event and then add tests from "AL, Color, Mn, Gross Alpha			
Empty Kit Reinquished by: Reinquished by: [Signature] Date/Time: 12-18-14 / 1600 Company: PRO-TECH		Method of Shipment: Received by: [Signature] Date/Time: 12/19/14 1000 Company: [blank]	
Custody Seals Intact: A Yes Δ No		Cooler Temperature(s) °C and Other Remarks: [blank]	



Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: **VISTA** SITE LOCATION: **APOPKA, FL**
 WELL NO: **MW-6AR** SAMPLE ID: _____ DATE: **12-18-14**

PURGING DATA
 WELL DIAMETER (Inches): **2** TUBING DIAMETER (Inches): **1/4** WELL SCREEN INTERVAL DEPTH: **52.35** feet to **72.35** feet STATIC DEPTH TO WATER (feet): **50.55** PURGE PUMP TYPE OR BAILER: **BP**
 WELL ELEVATION TOC (ft NGVD): **104.11** GROUNDWATER ELEVATION (ft NGVD): **53.56**
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 = (_____ feet - _____ feet) X _____ gallons/foot = _____ gallons
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable)
 = **0.2** gallons + (**0.007** gallons/foot X **72.35** feet) + **0.05** gallons = **0.44** gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **62.35** FINAL PUMP OR TUBING DEPTH IN WELL (feet): **67.35** PURGING INITIATED AT: **1154** PURGING ENDED AT: **1214** TOTAL VOLUME PURGED (gallons): **3.20**

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (micro units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (micro units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOUR
1204	1.60	1.60	0.16	50.79	5.30	24.1	211	3.3	4.71	94		
1207	0.48	2.08	0.16	50.79	5.27	24.2	212	3.2	4.54	92		
1210	0.48	2.56	0.16	50.79	5.27	24.2	212	3.2	4.53	92		
1213	0.48	3.04	0.16	50.79	5.26	24.2	213	3.2	4.62	91	NONE	

WELL CAPACITY (Gallons Per Foot): 0.78" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.018
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **DAN ARMOUR / PRO-TECH** SAMPLER(S) SIGNATURE(S): *[Signature]* SAMPLING INITIATED AT: **1214** SAMPLING ENDED AT: **NR**
 PUMP OR TUBING DEPTH IN WELL (feet): **67.35** TUBING MATERIAL CODE: **T** FIELD-FILTERED: **Y** (MD) FILTER SIZE: _____ µm
 Filtration Equipment Type: _____
 FIELD DECONTAMINATION: PUMP **Y** (N) TUBING **Y** (N) (replaced) DUPLICATE: **Y** (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (ml) per minute	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	-	NM	VDA	0.16	BP
	3	G	40ml	None	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:
 Sheen Present YES (NO)
 MATERIAL CODES: AG = Amber Glass; GG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = Aner Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RPPP = Reverse Flow Peristaltic Pump; SM = Sraw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: **VISTA** SITE LOCATION: **APDPCA, FL**
 WELL NO: **MW-2AR** SAMPLE ID: DATE: **12-18-14**

PURGING DATA

WELL DIAMETER (Inches): **2** TUBING DIAMETER (Inches): **1/4** WELL SCREEN INTERVAL DEPTH: **31.06** feet to **41.06** feet STATIC DEPTH TO WATER (feet): **33.03** PURGE PUMP TYPE OR BAILER: **BP**
 WELL ELEVATION TOC (ft NGVD): **87.22** GROUNDWATER ELEVATION (ft NGVD): **54.19**
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable) = **(41.06 - 33.03) feet** X **0.163 gallons/foot** = **1.31 gallons**
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable) = **0.2 gallons** + **(0.0016 gallons/foot X 41.06 feet)** + **0.05 gallons** = **0.36 gallons**

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOF
1038	1.40	1.40	0.14	⊖ NA	5.09	25.1	29	4.3	7.64	89		
1041	0.42	1.82	0.14		5.04	25.1	28	4.2	9.72	89		
1044	0.42	2.24	0.14		5.09	25.1	29	4.3	9.61	91		
1047	0.42	2.66	0.14		5.10	25.1	29	4.3	8.39	92	None	

⊖ NA - WATER LEVEL IS BELOW THE TOP OF THE DEDICATED PUMP

WELL CAPACITY (Gallons Per Foot): 0.78" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.018
 PURGING EQUIPMENT CODES: B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **DAN ARMOUR / PRO-TECH** SAMPLER(S) SIGNATURE(S): *[Signature]* SAMPLING INITIATED AT: **1048** SAMPLING ENDED AT: **NR**
 PUMP OR TUBING DEPTH IN WELL (feet): **36.06** TUBING MATERIAL CODE: **T** FIELD-FILTERED: **Y** (M) FILTER SIZE: **10** µm
 FIELD DECONTAMINATION: PUMP **Y** (N) TUBING **Y** (N) (replaced) DUPLICATE: **Y** (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal/(min per minute)	SAMPLING EQUIPMENT CODE
	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	-	NM	VDA	0.14	BP
	3	G	40ml	NaOH	-		DOB/DAGP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NHS		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS: Sheen Present: **YES** (N)
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2) optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: **VISTA** SITE LOCATION: **APOPKA, FL**
 WELL NO: **MW-01A** SAMPLE ID: _____ DATE: **12-18-14**

PURGING DATA
 WELL DIAMETER (Inches): **2** TUBING DIAMETER (Inches): **3/8** WELL SCREEN INTERVAL DEPTH: **59.21** feet TO WATER (feet): **43.10** STATIC DEPTH TO WATER (feet): **43.10** PURGE PUMP TYPE OR BAILER: **BP**
 WELL ELEVATION TOC (ft NGVD): **109.47** GROUNDWATER ELEVATION (ft NGVD): **66.39**
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable) = (_____) (feet) X _____ gallons/foot = _____ gallons
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable) = **0.3** gallons + **(0.006** gallons/foot X **69.71** feet) + **0.05** gallons = **0.77** gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	DOOF
1004	2.70	2.70	0.27	44.63	7.26	23.1	410	0.6	2.50	78		
1007	0.81	3.51	0.27	44.65	7.25	23.0	410	0.6	2.35	75		
1010	0.81	4.32	0.27	44.65	7.24	23.0	410	0.6	2.18	74		
1013	0.81	5.13	0.27	44.66	7.28	23.1	410	0.7	2.29	76	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA
 SAMPLED BY (PRINT) / AFFILIATION: **DAN ARMOJA / PRO-TECH** SAMPLER(S) SIGNATURE(S): *[Signature]* SAMPLING INITIATED AT: **1014** SAMPLING ENDED AT: **NR**
 PUMP OR TUBING DEPTH IN WELL (feet): **64.71** TUBING MATERIAL CODE: **T** FIELD-FILTERED: **Y** (checked) FILTER SIZE: _____ µm
 FIELD DECONTAMINATION: PUMP **Y** (checked) TUBING **Y** (checked) DUPLICATE: **Y** (checked)
 INTENDED ANALYSIS AND/OR METHOD: _____ SAMPLE PUMP FLOW RATE (gals per minute): _____ SAMPLING EQUIPMENT CODE: _____

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (gals per minute)	SAMPLING EQUIPMENT CODE
	CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	-	Nm	VOA	0.27	BP
	3	G	40ml	Nathio	-		EDS/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	Gross ALPHA	-		HNO3		

REMARKS: Sheen Present **YES** (checked)
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = Ater Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Sraw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: **Vista** SITE LOCATION: **APDPA, FL**
 WELL NO: **MW-7A** SAMPLE ID: _____ DATE: **12-18-14**

PURGING DATA

WELL DIAMETER (Inches): **2** TUBING DIAMETER (Inches): **1/4** WELL SCREEN INTERVAL DEPTH: **51.03** TO **31.03** (feet) STATIC DEPTH TO WATER (feet): **42.14** PURGE PUMP TYPE OR BAILER: **BP**
 WELL ELEVATION TOC (ft NGVD): **109.26** GROUNDWATER ELEVATION (ft NGVD): **67.12**
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable) = (_____ feet - _____ feet) X _____ gallons/foot = _____ gallons
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable) = **0.2** gallons + (**0.0026** gallons/foot X **71.03** feet) + **0.05** gallons = **0.43** gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **66.03** FINAL PUMP OR TUBING DEPTH IN WELL (feet): **66.03** PURGING INITIATED AT: **0919** PURGING ENDED AT: **0937** TOTAL VOLUME PURGED (gallons): **3.40**

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOF
0927	1.70	1.70	0.17	43.32	7.04	23.2	332	0.5	2.88	144		
0930	0.51	2.21	0.17	43.32	7.07	23.2	333	0.6	2.21	141		
0933	0.51	2.72	0.17	43.32	7.05	23.2	333	0.6	2.46	142		
0936	0.51	3.23	0.17	43.32	7.06	23.2	334	0.6	2.19	141	NONE	

WELL CAPACITY (Gallons Per Foot): 0.78" = 0.02; 1" = 0.04; 1.26" = 0.06; 1.5" = 0.10; 1.75" = 0.16; 2" = 0.25; 2.25" = 0.37; 2.5" = 0.53; 2.75" = 0.72; 3" = 0.97; 3.25" = 1.28; 3.5" = 1.68; 3.75" = 2.19; 4" = 2.78; 4.25" = 3.46; 4.5" = 4.24; 4.75" = 5.08; 5" = 5.98; 5.25" = 6.93; 5.5" = 7.98; 5.75" = 9.13; 6" = 10.38; 6.25" = 11.73; 6.5" = 13.18; 6.75" = 14.68; 7" = 16.13; 7.25" = 17.68; 7.5" = 18.73; 7.75" = 19.78; 8" = 20.93; 8.25" = 22.08; 8.5" = 23.43; 8.75" = 24.78; 9" = 26.13; 9.25" = 27.48; 9.5" = 28.83; 9.75" = 30.18; 10" = 31.93; 10.25" = 33.08; 10.5" = 34.63; 10.75" = 36.18; 11" = 37.93; 11.25" = 39.08; 11.5" = 40.63; 11.75" = 42.18; 12" = 44.13; 12.25" = 45.88; 12.5" = 47.63; 12.75" = 49.38; 13" = 51.13; 13.25" = 52.88; 13.5" = 54.63; 13.75" = 56.18; 14" = 59.13; 14.25" = 60.88; 14.5" = 62.63; 14.75" = 64.38; 15" = 68.13; 15.25" = 70.08; 15.5" = 71.63; 15.75" = 73.38; 16" = 77.13; 16.25" = 78.88; 16.5" = 80.63; 16.75" = 82.38; 17" = 86.13; 17.25" = 87.88; 17.5" = 89.63; 17.75" = 91.38; 18" = 95.13; 18.25" = 96.88; 18.5" = 98.63; 18.75" = 100.38; 19" = 104.13; 19.25" = 105.88; 19.5" = 107.63; 19.75" = 109.38; 20" = 114.13; 20.25" = 115.88; 20.5" = 117.63; 20.75" = 119.38; 21" = 124.13; 21.25" = 125.88; 21.5" = 127.63; 21.75" = 129.38; 22" = 136.13; 22.25" = 137.88; 22.5" = 140.63; 22.75" = 142.38; 23" = 150.13; 23.25" = 148.88; 23.5" = 152.63; 23.75" = 154.38; 24" = 164.13; 24.25" = 162.88; 24.5" = 166.63; 24.75" = 168.38; 25" = 180.13; 25.25" = 178.88; 25.5" = 182.63; 25.75" = 184.38; 26" = 198.13; 26.25" = 196.88; 26.5" = 201.63; 26.75" = 203.38; 27" = 220.13; 27.25" = 218.88; 27.5" = 223.63; 27.75" = 225.38; 28" = 246.13; 28.25" = 242.88; 28.5" = 247.63; 28.75" = 249.38; 29" = 274.13; 29.25" = 270.88; 29.5" = 275.63; 29.75" = 277.38; 30" = 306.13; 30.25" = 302.88; 30.5" = 308.63; 30.75" = 310.38; 31" = 342.13; 31.25" = 338.88; 31.5" = 345.63; 31.75" = 347.38; 32" = 384.13; 32.25" = 380.88; 32.5" = 387.63; 32.75" = 389.38; 33" = 432.13; 33.25" = 428.88; 33.5" = 436.63; 33.75" = 438.38; 34" = 486.13; 34.25" = 482.88; 34.5" = 489.63; 34.75" = 491.38; 35" = 546.13; 35.25" = 542.88; 35.5" = 550.63; 35.75" = 552.38; 36" = 612.13; 36.25" = 608.88; 36.5" = 615.63; 36.75" = 617.38; 37" = 694.13; 37.25" = 690.88; 37.5" = 697.63; 37.75" = 699.38; 38" = 792.13; 38.25" = 788.88; 38.5" = 795.63; 38.75" = 797.38; 39" = 906.13; 39.25" = 902.88; 39.5" = 910.63; 39.75" = 912.38; 40" = 1036.13; 40.25" = 1032.88; 40.5" = 1041.63; 40.75" = 1043.38; 41" = 1182.13; 41.25" = 1178.88; 41.5" = 1188.63; 41.75" = 1190.38; 42" = 1344.13; 42.25" = 1340.88; 42.5" = 1350.63; 42.75" = 1352.38; 43" = 1522.13; 43.25" = 1518.88; 43.5" = 1530.63; 43.75" = 1532.38; 44" = 1716.13; 44.25" = 1712.88; 44.5" = 1728.63; 44.75" = 1730.38; 45" = 1926.13; 45.25" = 1922.88; 45.5" = 1940.63; 45.75" = 1942.38; 46" = 2152.13; 46.25" = 2148.88; 46.5" = 2168.63; 46.75" = 2170.38; 47" = 2494.13; 47.25" = 2490.88; 47.5" = 2510.63; 47.75" = 2512.38; 48" = 2952.13; 48.25" = 2948.88; 48.5" = 2970.63; 48.75" = 2972.38; 49" = 3526.13; 49.25" = 3522.88; 49.5" = 3550.63; 49.75" = 3552.38; 50" = 4216.13; 50.25" = 4212.88; 50.5" = 4242.63; 50.75" = 4244.38; 51" = 5022.13; 51.25" = 5018.88; 51.5" = 5050.63; 51.75" = 5052.38; 52" = 5944.13; 52.25" = 5940.88; 52.5" = 5980.63; 52.75" = 5982.38; 53" = 6982.13; 53.25" = 6978.88; 53.5" = 7020.63; 53.75" = 7022.38; 54" = 8136.13; 54.25" = 8132.88; 54.5" = 8178.63; 54.75" = 8180.38; 55" = 9406.13; 55.25" = 9402.88; 55.5" = 9450.63; 55.75" = 9452.38; 56" = 10792.13; 56.25" = 10788.88; 56.5" = 10840.63; 56.75" = 10842.38; 57" = 12294.13; 57.25" = 12290.88; 57.5" = 12350.63; 57.75" = 12352.38; 58" = 13912.13; 58.25" = 13908.88; 58.5" = 13970.63; 58.75" = 13972.38; 59" = 15646.13; 59.25" = 15642.88; 59.5" = 15710.63; 59.75" = 15712.38; 60" = 17596.13; 60.25" = 17592.88; 60.5" = 17660.63; 60.75" = 17662.38; 61" = 19762.13; 61.25" = 19758.88; 61.5" = 19830.63; 61.75" = 19832.38; 62" = 22044.13; 62.25" = 22040.88; 62.5" = 22110.63; 62.75" = 22112.38; 63" = 24542.13; 63.25" = 24538.88; 63.5" = 24610.63; 63.75" = 24612.38; 64" = 27256.13; 64.25" = 27252.88; 64.5" = 27320.63; 64.75" = 27322.38; 65" = 30186.13; 65.25" = 30182.88; 65.5" = 30250.63; 65.75" = 30252.38; 66" = 33332.13; 66.25" = 33328.88; 66.5" = 33390.63; 66.75" = 33392.38; 67" = 36694.13; 67.25" = 36690.88; 67.5" = 36750.63; 67.75" = 36752.38; 68" = 40272.13; 68.25" = 40268.88; 68.5" = 40330.63; 68.75" = 40332.38; 69" = 44066.13; 69.25" = 44062.88; 69.5" = 44120.63; 69.75" = 44122.38; 70" = 48076.13; 70.25" = 48072.88; 70.5" = 48130.63; 70.75" = 48132.38; 71" = 52302.13; 71.25" = 52298.88; 71.5" = 52350.63; 71.75" = 52352.38; 72" = 56744.13; 72.25" = 56740.88; 72.5" = 56790.63; 72.75" = 56792.38; 73" = 61402.13; 73.25" = 61398.88; 73.5" = 61450.63; 73.75" = 61452.38; 74" = 66276.13; 74.25" = 66272.88; 74.5" = 66320.63; 74.75" = 66322.38; 75" = 71366.13; 75.25" = 71362.88; 75.5" = 71410.63; 75.75" = 71412.38; 76" = 76672.13; 76.25" = 76668.88; 76.5" = 76710.63; 76.75" = 76712.38; 77" = 82194.13; 77.25" = 82190.88; 77.5" = 82230.63; 77.75" = 82232.38; 78" = 87932.13; 78.25" = 87928.88; 78.5" = 87970.63; 78.75" = 87972.38; 79" = 93886.13; 79.25" = 93882.88; 79.5" = 93920.63; 79.75" = 93922.38; 80" = 100056.13; 80.25" = 100052.88; 80.5" = 100090.63; 80.75" = 100092.38; 81" = 106442.13; 81.25" = 106438.88; 81.5" = 106470.63; 81.75" = 106472.38; 82" = 113044.13; 82.25" = 113040.88; 82.5" = 113070.63; 82.75" = 113072.38; 83" = 119862.13; 83.25" = 119858.88; 83.5" = 119890.63; 83.75" = 119892.38; 84" = 126896.13; 84.25" = 126892.88; 84.5" = 126920.63; 84.75" = 126922.38; 85" = 134146.13; 85.25" = 134142.88; 85.5" = 134170.63; 85.75" = 134172.38; 86" = 141612.13; 86.25" = 141608.88; 86.5" = 141630.63; 86.75" = 141632.38; 87" = 149294.13; 87.25" = 149290.88; 87.5" = 149310.63; 87.75" = 149312.38; 88" = 157192.13; 88.25" = 157188.88; 88.5" = 157210.63; 88.75" = 157212.38; 89" = 165306.13; 89.25" = 165302.88; 89.5" = 165320.63; 89.75" = 165322.38; 90" = 173636.13; 173632.88; 89.5" = 173650.63; 89.75" = 173652.38; 90" = 182182.13; 182178.88; 89.5" = 182190.63; 89.75" = 182192.38; 90" = 190944.13; 190940.88; 89.5" = 190950.63; 89.75" = 190952.38; 90" = 199922.13; 199918.88; 89.5" = 199930.63; 89.75" = 199932.38; 90" = 209116.13; 209112.88; 89.5" = 209120.63; 89.75" = 209122.38; 90" = 218526.13; 218522.88; 89.5" = 218530.63; 89.75" = 218532.38; 90" = 228152.13; 228148.88; 89.5" = 228150.63; 89.75" = 228152.38; 90" = 237994.13; 237990.88; 89.5" = 237990.63; 89.75" = 237992.38; 90" = 248052.13; 248048.88; 89.5" = 248050.63; 89.75" = 248052.38; 90" = 258326.13; 258322.88; 89.5" = 258320.63; 89.75" = 258322.38; 90" = 268816.13; 268812.88; 89.5" = 268810.63; 89.75" = 268812.38; 90" = 279522.13; 279518.88; 89.5" = 279510.63; 89.75" = 279512.38; 90" = 290444.13; 290440.88; 89.5" = 290430.63; 89.75" = 290432.38; 90" = 301582.13; 301578.88; 89.5" = 301560.63; 89.75" = 301562.38; 90" = 312936.13; 312932.88; 89.5" = 312910.63; 89.75" = 312912.38; 90" = 324506.13; 324502.88; 89.5" = 324460.63; 89.75" = 324462.38; 90" = 336292.13; 336288.88; 89.5" = 336230.63; 89.75" = 336232.38; 90" = 348294.13; 348290.88; 89.5" = 348210.63; 89.75" = 348212.38; 90" = 360512.13; 360508.88; 89.5" = 360450.63; 89.75" = 360452.38; 90" = 372946.13; 372942.88; 89.5" = 372850.63; 89.75" = 372852.38; 90" = 385596.13; 385592.88; 89.5" = 385470.63; 89.75" = 385472.38; 90" = 398462.13; 398458.88; 89.5" = 398310.63; 89.75" = 398312.38; 90" = 411544.13; 411540.88; 89.5" = 411350.63; 89.75" = 411352.38; 90" = 424842.13; 424838.88; 89.5" = 424550.63; 89.75" = 424552.38; 90" = 438356.13; 438352.88; 89.5" = 438020.63; 89.75" = 438022.38; 90" = 452086.13; 452082.88; 89.5" = 451630.63; 89.75" = 451632.38; 90" = 466032.13; 466028.88; 89.5" = 465430.63; 89.75" = 465432.38; 90" = 480194.13; 480190.88; 89.5" = 479750.63; 89.75" = 479752.38; 90" = 494572.13; 494568.88; 89.5" = 494000.63; 89.75" = 494002.38; 90" = 509166.13; 509162.88; 89.5" = 508250.63; 89.75" = 508252.38; 90" = 523976.13; 523972.88; 89.5" = 523150.63; 89.75" = 523152.38; 90" = 539002.13; 539000.88; 89.5" = 538350.63; 89.75" = 538352.38; 90" = 554244.13; 554240.88; 89.5" = 553550.63; 89.75" = 553552.38; 90" = 569702.13; 569698.88; 89.5" = 568850.63; 89.75" = 568852.38; 90" = 585376.13; 585372.88; 89.5" = 584350.63; 89.75" = 584352.38; 90" = 601266.13; 601262.88; 89.5" = 600650.63; 89.75" = 600652.38; 90" = 617372.13; 617368.88; 89.5" = 616550.63; 89.75" = 616552.38; 90" = 633694.13; 633690.88; 89.5" = 632950.63; 89.75" = 632952.38; 90" = 650232.13; 650228.88; 89.5" = 649150.63; 89.75" = 649152.38; 90" = 666986.13; 666982.88; 89.5" = 665450.63; 89.75" = 665452.38; 90" = 684956.13; 684952.88; 89.5" = 683650.63; 89.75" = 683652.38; 90" = 703142.13; 703138.88; 89.5" = 701750.63; 89.75" = 701752.38; 90" = 721544.13; 721540.88; 89.5" = 719750.63; 89.75" = 719752.38; 90" = 740162.13; 740158.88; 89.5" = 737950.63; 89.75" = 737952.38; 90" = 759006.13; 759002.88; 89.5" = 756250.63; 89.75" = 756252.38; 90" = 778076.13; 778072.88; 89.5" = 774650.63; 89.75" = 774652.38; 90" = 797372.13; 797368.88; 89.5" = 793150.63; 89.75" = 793152.38; 90" = 816894.13; 816890.88; 89.5" = 811750.63; 89.75" = 811752.38; 90" = 836632.13; 836628.88; 89.5" = 830450.63; 89.75" = 830452.38; 90" = 856586.13; 856582.88; 89.5" = 849250.63; 89.75" = 849252.38; 90" = 876756.13; 876752.88; 89.5" = 868150.63; 89.75" = 868152.38; 90" = 897142.13; 897138.88; 89.5" = 887150.63; 89.75" = 887152.38; 90" = 917754.13; 917750.88; 89.5" = 906250.63; 89.75" = 906252.38; 90" = 938582.13; 938578.88; 89.5" = 925450.63; 89.75" = 925452.38; 90" = 959636.13; 959632.88; 89.5" = 944750.63; 89.75" = 944752.38; 90" = 980916.13; 980912.88; 89.5" = 964150.63; 89.75" = 964152.38; 90" = 1002432.13; 1002428.88; 89.5" = 983650.63; 89.75" = 983652.38; 90" = 1024186.13; 1024182.88; 89.5" = 1003250.63; 89.75" = 1003252.38; 90" = 1046176.13; 1046172.88; 89.5" = 1023950.63; 89.75" = 1023952.38; 90" = 1068402.13; 1068398.88; 89.5" = 1044750.63; 89.75" = 1044752.38; 90" = 1090766.13; 1090762.88; 89.5" = 1065650.63; 89.75" = 1065652.38; 90" = 1113368.13; 1113364.88; 89.5" = 1086650.63; 89.75" = 1086652.38; 90" = 1136218.13; 1136214.88; 89.5" = 1107750.63; 89.75" = 1107752.38; 90" = 1159316.13; 1159312.88; 89.5" = 1128950.63; 89.75" = 1128952.38; 90" = 1182562.13; 1182558.88; 89.5" = 1150250.63; 89.75" = 1150252.38; 90" = 1205956.13; 1205952.88; 89.5" = 1171650.63; 89.75" = 1171652.38; 90" = 1229598.13; 1229594.88; 89.5" = 1193150.63; 89.75" = 1193152.38; 90" = 1253378.13; 1253374.88; 89.5" = 1214750.63; 89.75" = 1214752.38; 90" = 1277406.13; 1277402.88; 89.5" = 1236450.63; 89.75" = 1236452.38; 90" = 1301582.13; 1301578.88; 89.5" = 1258250.63; 89.75" = 1258252.38; 90" = 1325906.13; 1325902.88; 89.5" = 1280150.63; 89.75" = 1280152.38; 90" = 1350378.13; 1350374.88; 89.5" = 1302150.63; 89.75" = 1302152.38; 90" = 1374938.13; 1374934.88; 89.5" = 1324250.63; 89.75" = 1324252.38; 90" = 1400666.13; 1400662.88; 89.5" = 1346450.63; 89.75" = 1346452.38; 90" = 1426562.13; 1426558.88; 89.5" = 1368750.63; 89.75" = 1368752.38; 90" = 1452626.13; 1452622.88; 89.5" = 1391150.63; 89.75" = 1391152.38; 90" = 1478858.13; 1478854.88; 89.5" = 1413650.63; 89.75" = 1413652.38; 90" = 1505268.13; 1505264.88; 89.5" = 1436250.63; 89.75" = 1436252.38; 90" = 1532046.13; 1532042.88; 89.5" = 1458950.63; 89.75" = 1458952.38; 90" = 1559092.13; 1559088.88; 89.5" = 1481750.63; 89.75" = 1481752.38; 90" = 1586396.13; 1586392.88; 89.5" = 1504650.63; 89.75" = 1504652.38; 90" = 161395

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VISTA SITE LOCATION: APOPKA, FL
 WELL NO: MW-05A SAMPLE ID: _____ DATE: 12-18-14

PURGING DATA
 WELL DIAMETER (Inches): 2 TUBING DIAMETER (Inches): 1/4 WELL SCREEN INTERVAL DEPTH: 26.50 feet TO WATER (feet): 26.50 STATIC DEPTH TO WATER (feet): 26.50 PURGE PUMP TYPE OR BAILER: BP
 WELL ELEVATION TOC (ft NGVD): 81.86 GROUNDWATER ELEVATION (ft NGVD): 55.36
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable) = $(43.08 \text{ feet} - 26.50 \text{ feet}) \times 0.163 \text{ gallons/foot} = 2.70 \text{ gallons}$
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable) = $0.2 \text{ gallons} + (0.001 \text{ gallons/foot} \times 43.08 \text{ feet}) + 0.05 \text{ gallons} = 0.36 \text{ gallons}$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.08 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.08 PURGING INITIATED AT: 0834 PURGING ENDED AT: 0900 TOTAL VOLUME PURGED (gallons): 4.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOF
0850	2.88	2.88	0.18	30.06	4.59	24.6	87	3.6	3.74	143		
0853	0.54	3.42	0.18	30.07	4.61	24.6	87	3.7	3.58	145		
0856	0.54	3.96	0.18	30.07	4.62	24.6	85	3.7	3.84	144		
0859	0.54	4.50	0.18	30.08	4.62	24.6	85	3.7	3.92	145	NONE	

WELL CAPACITY (Gallons Per Foot): 0.78" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA
 SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH SAMPLER(S) SIGNATURE(S): [Signature] SAMPLING INITIATED AT: 0900 SAMPLING ENDED AT: NR
 PUMP OR TUBING DEPTH IN WELL (feet): 38.08 TUBING MATERIAL CODE: T FIELD-FILTERED: Y FILTER SIZE: _____
 FIELD DECONTAMINATION: PUMP Y TUBING Y (replaced) DUPLICATE: Y

SAMPLE ID CODE	CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE-PUMP FLOW RATE $\mu\text{L}/\text{min}$ (per minute)	SAMPLING EQUIPMENT CODE
				PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	-	NM	VDA	0.18	BP
	3	G	40ml	Nothing	-		EDB/DGCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS: Shaen Present YES
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = Afer Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2) optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)
 Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: **VISTA** SITE LOCATION: **APDRA, FL**
 WELL NO: **MW-4A** SAMPLE ID: _____ DATE: **12-18-14**

PURGING DATA

WELL DIAMETER (Inches): **2** TUBING DIAMETER (Inches): **1/4** WELL SCREEN INTERVAL DEPTH: **2.65** (feet to **46.65** feet) STATIC DEPTH TO WATER (feet): **28.83** PURGE PUMP TYPE OR BAILER: **BP**
 WELL ELEVATION TOC (ft NGVD): **82.04** GROUNDWATER ELEVATION (ft NGVD): **53.21**
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable)
 = (**46.65** feet - **28.83** feet) X **0.163** gallons/foot = **2.90** gallons
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable)
 = **0.2** gallons + (**0.0026** gallons/foot X **46.65** feet) + **0.05** gallons = **0.37** gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **41.65** FINAL PUMP OR TUBING DEPTH IN WELL (feet): **41.65** PURGING INITIATED AT: **0753** PURGING ENDED AT: **0820** TOTAL VOLUME PURGED (gallons): **4.86**

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOF
0810	3.06	3.06	0.18	30.75	4.93	24.7	63	0.4	2.26	129		
0813	0.54	3.60	0.18	30.75	4.75	24.7	64	0.4	2.19	130		
0816	0.54	4.14	0.18	30.75	4.74	24.8	65	0.4	2.17	133		
0819	0.54	4.68	0.18	30.76	4.75	24.8	63	0.4	2.05	133	None	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.10; 1.75" = 0.16; 2" = 0.25; 2.25" = 0.37; 2.5" = 0.55; 2.75" = 0.82; 3" = 1.10; 3.25" = 1.47; 3.5" = 1.90; 3.75" = 2.37; 4" = 2.90; 4.25" = 3.47; 4.5" = 4.14; 4.75" = 4.90; 5" = 5.68
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **DAN ARMOUR / PAO-TECH** SAMPLER(S) SIGNATURE(S): *[Signature]* SAMPLING INITIATED AT: **0820** SAMPLING ENDED AT: **NR**
 PUMP OR TUBING DEPTH IN WELL (feet): **41.65** TUBING MATERIAL CODE: **T** FIELD-FILTERED: **Y** (M) FILTER SIZE: _____
 FIELD DECONTAMINATION: PUMP **Y** (N) TUBING **Y** (Replaced) DUPLICATE: **Y** (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (ml per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	-	NM	VDA	0.18	BP
	3	G	40ml	None	-		EDB/DACP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS: Sheen Present: YES **NO**
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2) optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VISTA SITE LOCATION: APDPA, FL
 WELL NO: MW-03A SAMPLE ID: _____ DATE: 12-18-14

PURGING DATA

WELL DIAMETER (Inches): 2 TUBING DIAMETER (Inches): 1/4 WELL SCREEN INTERVAL DEPTH: 56.2 feet to 60.2 feet STATIC DEPTH TO WATER (feet): 39.58 PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 92.87 GROUNDWATER ELEVATION (ft NGVD): 53.29

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable) = (_____ feet - _____ feet) X _____ gallons/foot = _____ gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable) = 0.2 gallons + (0.002 gallons/foot X 60.20 feet) + 0.05 gallons = 0.41 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOF
0727	1.60	1.60	0.16	39.84	6.01	24.1	99	4.0	3.80	157		
0732	0.48	2.08	0.16	39.84	6.03	24.2	101	4.0	3.34	155		
0733	0.48	2.56	0.16	39.85	6.04	24.2	101	4.0	3.29	155		
0736	0.48	3.04	0.16	39.85	6.04	24.2	102	3.9	3.06	154	None	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH SAMPLER(S) SIGNATURE(S): [Signature] SAMPLING INITIATED AT: 0737 SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 55.20 TUBING MATERIAL CODE: T FIELD-FILTERED: Y FILTER SIZE: _____ μm
 Filtration Equipment Type: _____

FIELD DECONTAMINATION: PUMP Y TUBING Y (replaced) DUPLICATE: Y

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mic per minute)	SAMPLING EQUIPMENT CODE
	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	-	NM	VDA	0.16	BP
	3	G	40ml	Nothing	-		EDB/DACP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NHS		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS: Shen Present YES

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = Aner Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-63811-1

Login Number: 63811

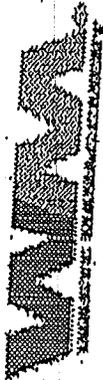
List Source: TestAmerica Denver

List Number: 1

Creator: Orfield, Tayler C

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





WELL CONDITION SUMMARY

Site: VISTA

Personnel: DAN ARMOUR

Date: 12-18-14 Page 1 of 1

Well ID	Protective Casing	Well Casing	Label	Lock	Supply Equipment Type	General Turbidity	Well Yield	Comments/Issues
MW101A	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DEDICATED BLENDER PUMP	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	MIS-LABELED AS MW101B
MW02AR	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW103A	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW04A	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW05A	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW06AR	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW07A	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	"	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
MW08R	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	SUBMERSIBLE PUMP	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on factored items. Return this form to site manager and/or contact.

DEP-SOP-001/01
 FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9328 INSTRUMENT # 725490

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A PINE ENVIRONMENTAL EXP: JUNE 2015 7.01 (std)

Standard B PINE ENVIRONMENTAL EXP: DEC 2014 4.01 (std)

Standard C PINE ENVIRONMENTAL EXP: JULY 2015 10.01 (std)

DATE (MM/DD/YY)	TIME (DD:MM)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES/NO)	TYPE (INIT/CONT)	SAMPLER INITIALS
14/12/16	0700	A	7.01	AUTO CAL	-	YES	INIT	DA
"	"	B	4.01	"	-	YES	INIT	DA
"	"	C	10.01	"	-	YES	INIT	DA
14/12/17	0700	A	7.01	AUTO CAL	-	YES	CONT	DA
		B	4.01		-	YES	CONT	DA
		C	10.01		-	YES	CONT	DA
14/10/18	0630	A	7.01	AUTO CAL	-	YES	CONT	DA
		B	4.01		-	YES	CONT	DA
		C	10.01		-	YES	CONT	DA

DEP-SOP-001/01
 FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS
 INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 108086

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 1000 NTU HF SCIENTIFIC EXP: 10-2014

Standard B 10.0 NTU HF SCIENTIFIC EXP: 10-2014

Standard C 0.02 NTU HF SCIENTIFIC EXP: 10-2014

DATE (yy/mm/dd)	TIME (hh:mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES/NO)	TYPE (INIT/CONT)	SAMPLER INITIALS
14/12/16	0700	A	1000	AUTO CAL	-	YES	INIT	DA
"	"	B	10.0	"	-	YES	INIT	DA
"	"	C	0.02	"	-	YES	INIT	DA
14/12/17	0700	A	1000	AUTO CAL	-	YES	CONT	DA
		B	10.0		-	YES	CONT	DA
		C	0.02		-	YES	CONT	DA
14/12/18	0630	A	1000	AUTO CAL	-	YES	CONT	DA
		B	10.0		-	YES	CONT	DA
		C	0.02		-	YES	CONT	DA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL Cl DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 84^{uS}/cm PINE ENVIRONMENTAL EXP: JULY 2015

Standard B 1413^{uS}/cm PINE ENVIRONMENTAL EXP: JULY 2015

Standard C _____

DATE (MM/DD)	TIME (HR:MIN)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
14/12/16	0700	A	84	AUTO CAL	-	YES	INIT	DJA
"	"	B	1413	"	-	YES	INIT	DJA
14/12/17	0700	A	84	AUTO CAL	-	YES	CONT	DJA
"	"	B	1413	"	-	YES	CONT	DJA
14/12/18	0630	A	84	AUTO CAL	-	YES	CONT	DJA
"	"	B	1413	"	-	YES	CONT	DJA

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

PARAMETER: *[check only one]*

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL Cl DO OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (MM/DD/YY)	TIME (HR:MIN)	STD. (A, B, C)	STD. VALUE	INSTRUMENT RESPONSE	DEV.	CALIBRATED (YES/NO)	TYPE (INIT/CONT)	SAMPLER INITIALS
14/12/16	0700	A	100% SAT	100%	-	YES	INIT	DSA
14/12/17	0700	A	100% SAT	100%	-	YES	CONT	DSA
14/12/18	0630	A	100% SAT	100%	-	YES	CONT	DSA

DEP-SOP-001/01
 FS 2200 Groundwater Sampling

Table FS 2200-2
 Dissolved Oxygen Saturation

TEMP	D.O. mg/L										
deg C	SAT.	20%									
15.0	10.084	2.017	19.0	9.276	1.855	23.0	8.578	1.716	27.0	7.968	1.594
15.1	10.062	2.012	19.1	9.258	1.852	23.1	8.562	1.712	27.1	7.954	1.591
15.2	10.040	2.008	19.2	9.239	1.848	23.2	8.546	1.709	27.2	7.940	1.588
15.3	10.019	2.004	19.3	9.220	1.844	23.3	8.530	1.706	27.3	7.926	1.585
15.4	9.997	1.999	19.4	9.202	1.840	23.4	8.514	1.703	27.4	7.912	1.582
15.5	9.976	1.995	19.5	9.184	1.837	23.5	8.498	1.700	27.5	7.898	1.580
15.6	9.955	1.991	19.6	9.165	1.833	23.6	8.482	1.696	27.6	7.884	1.577
15.7	9.934	1.987	19.7	9.147	1.829	23.7	8.466	1.693	27.7	7.870	1.574
15.8	9.912	1.982	19.8	9.129	1.826	23.8	8.450	1.690	27.8	7.856	1.571
15.9	9.891	1.978	19.9	9.111	1.822	23.9	8.434	1.687	27.9	7.842	1.568
16.0	9.870	1.974	20.0	9.092	1.818	24.0	8.418	1.684	28.0	7.828	1.566
16.1	9.849	1.970	20.1	9.074	1.815	24.1	8.403	1.681	28.1	7.814	1.563
16.2	9.829	1.966	20.2	9.056	1.811	24.2	8.387	1.677	28.2	7.800	1.560
16.3	9.808	1.962	20.3	9.039	1.808	24.3	8.371	1.674	28.3	7.786	1.557
16.4	9.787	1.957	20.4	9.021	1.804	24.4	8.356	1.671	28.4	7.773	1.555
16.5	9.767	1.953	20.5	9.003	1.801	24.5	8.340	1.668	28.5	7.759	1.552
16.6	9.746	1.949	20.6	8.985	1.797	24.6	8.325	1.665	28.6	7.745	1.549
16.7	9.726	1.945	20.7	8.968	1.794	24.7	8.309	1.662	28.7	7.732	1.546
16.8	9.705	1.941	20.8	8.950	1.790	24.8	8.294	1.659	28.8	7.718	1.544
16.9	9.685	1.937	20.9	8.932	1.786	24.9	8.279	1.656	28.9	7.705	1.541
17.0	9.665	1.933	21.0	8.915	1.783	25.0	8.263	1.653	29.0	7.691	1.538
17.1	9.645	1.929	21.1	8.898	1.780	25.1	8.248	1.650	29.1	7.678	1.536
17.2	9.625	1.925	21.2	8.880	1.776	25.2	8.233	1.647	29.2	7.664	1.533
17.3	9.605	1.921	21.3	8.863	1.773	25.3	8.218	1.644	29.3	7.651	1.530
17.4	9.585	1.917	21.4	8.846	1.769	25.4	8.203	1.641	29.4	7.638	1.528
17.5	9.565	1.913	21.5	8.829	1.766	25.5	8.188	1.638	29.5	7.625	1.525
17.6	9.545	1.909	21.6	8.812	1.762	25.6	8.173	1.635	29.6	7.611	1.522
17.7	9.526	1.905	21.7	8.794	1.759	25.7	8.158	1.632	29.7	7.598	1.520
17.8	9.506	1.901	21.8	8.777	1.755	25.8	8.143	1.629	29.8	7.585	1.517
17.9	9.486	1.897	21.9	8.761	1.752	25.9	8.128	1.626	29.9	7.572	1.514
18.0	9.467	1.893	22.0	8.744	1.749	26.0	8.114	1.623	30.0	7.559	1.512
18.1	9.448	1.890	22.1	8.727	1.745	26.1	8.099	1.620	30.1	7.546	1.509
18.2	9.428	1.886	22.2	8.710	1.742	26.2	8.084	1.617	30.2	7.533	1.507
18.3	9.409	1.882	22.3	8.693	1.739	26.3	8.070	1.614	30.3	7.520	1.504
18.4	9.390	1.878	22.4	8.677	1.735	26.4	8.055	1.611	30.4	7.507	1.501
18.5	9.371	1.874	22.5	8.660	1.732	26.5	8.040	1.608	30.5	7.494	1.499
18.6	9.352	1.870	22.6	8.644	1.729	26.6	8.026	1.605	30.6	7.481	1.496
18.7	9.333	1.867	22.7	8.627	1.725	26.7	8.012	1.602	30.7	7.468	1.494
18.8	9.314	1.863	22.8	8.611	1.722	26.8	7.997	1.599	30.8	7.456	1.491
18.9	9.295	1.859	22.9	8.595	1.719	26.9	7.983	1.597	30.9	7.443	1.489

Derived using the formula in Standard Methods for the Examination of Water and Wastewater, Page 4-101, 18th Edition, 1992

APPENDIX B
COMPACT DISK CONTAINING
REPORT IN .PDF FORMAT
AND
AD_aPT FILE
