

**Citrus County, Florida
Citrus County Central Class I Landfill
Facility WACS # SWD/09/39859
Permit# 21375-018-SO/01
Semi-Annual Water Quality Monitoring
Report (First Half 2014)**

February 2014



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A circular professional seal for David R. Rojas, P.G., a Florida Professional Geologist. The seal contains the text "DAVID R. ROJAS", "LICENSE", "No. PG2362", "STATE OF FLORIDA", and "PROFESSIONAL GEOLOGIST". A blue ink signature of David R. Rojas is written across the seal. To the right of the seal, the date "2-17-14" is handwritten in blue ink.

David R. Rojas, P.G.
Florida Professional Geologist No. 2362

Table of Contents

Section 1 Introduction.....	1-1
Section 2 Summary of Exceedances and Recommendations.....	2-1
2.1 pH	2-1
2.2 Iron	2-1
2.3 Organic Compounds	2-1
2.4 General Chemistry	2-2
Section 3 Groundwater Contours	3-1
Section 4 Results for MW-6 and Leachate Effluent	4-1
4.1 Trend Analysis for Parameters Detected in MW-6	4-1
4.2 Leachate Effluent.....	4-2
Section 5 Chain of Custody Forms	5-1
Section 6 Water Level Data.....	6-1
Section 7 Water Quality Monitoring Report Certification.....	7-1
Section 8 Field Sampling Logs	8-1
Section 9 Laboratory and Field EDDs and Error Logs (ADaPT Report).....	9-1

Tables

2-1	Summary of Groundwater Criteria Exceedances January 2014 Sampling	
	Event	2-2
4-1	Summary of Leachate Effluent Quality Analytical Results	4-10
6-1	Water Level Data Collected at Citrus County Central Class I Landfill.....	6-2

Figures

3-1	Groundwater Contour Map of Floridan Aquifer – January 21, 2014	3-1
4-1	Time vs Concentration – pH in Samples from MW-6	4-2
4-2	Time vs Concentration – Iron in Samples from MW-6	4-3
4-3	Time vs Concentration – Chloride in Samples from MW-6	4-4
4-4	Time vs Concentration – Sodium in Samples from MW-6	4-5
4-5	Time vs Concentration – TDS in Samples from MW-6	4-6
4-6	Time vs Concentration – Arsenic in Samples from MW-6	4-7
4-7	Time vs Concentration – Total Trihalomethanes in Samples from MW-6	4-8

Section 1

Introduction

The first half of 2014 semi-annual sampling event for the Citrus County Central Class I Landfill (WACS Facility ID SWD/09/39859) was performed on January 21 and 22, 2014. The water quality samples were collected and analyzed by personnel from TestAmerica Laboratories, Inc. (TestAmerica). Static water levels were measured on January 21, 2014, by CDM Smith, Inc. (CDM Smith) personnel.

The current operations permit (21375-018-SO/01) requires that groundwater samples be collected semi-annually from two background monitor wells (MW-3 and MW-7), nine compliance monitor wells (MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-17, MW-20 and MW-21), and two assessment monitor wells (MW-20 and MW-21). In addition, static groundwater level measurements are required to be collected in these 14 wells and 11 piezometers (MW-1R, MW-2, MW-5, MW-8R, MW-9, MW-16, MW-AA, MW-B, MW-E, PZ-1, & PZ-2). The permit also requires that a leachate effluent sample be collected semi-annually at the discharge from the chlorine contact tank of the leachate treatment plant and one intermediate monitor well (MW-6) to evaluate the effectiveness of the leachate treatment system and the effect of the discharge of treated leachate on groundwater within the permitted zone of discharge.

All samples were collected and analyzed in accordance with Florida Department of Environmental Protection (FDEP) protocols and the permit conditions. Groundwater samples collected from compliance and background wells were analyzed for ammonia, chlorides, nitrate, total dissolved solids (TDS), iron, mercury, sodium, and parameters listed in 40 CFR, Part 258, Appendix I. Groundwater samples collected from assessment wells were analyzed for benzene, methylene chloride, and vinyl chloride. The groundwater sample collected from the intermediate monitor well was analyzed for iron, chlorides, sodium, TDS, arsenic, and total trihalomethanes (TTHMs). The leachate effluent sample collected from the chlorine contact tank was analyzed for chlorides, sodium, TDS, arsenic, total ammonia, benzene, toluene, ethylbenzene, total xylenes, vinyl chloride, and TTHMs. Specific conductivity, pH, temperature, dissolved oxygen (DO), turbidity, and temperature were measured in leachate and groundwater samples in the field. Colors and sheens were noted as appropriate.

In accordance with Specific Condition E.10.a of the operations permit for the facility issued by the FDEP on December 20, 2010 (amended on October 16, 2013), and Chapter 62-701.510(8)(a), this semi-annual report contains the following:

- Section 2 – Summary of Exceedances and Recommendations,
- Section 3 – Groundwater Contours,
- Section 4 – Summary of Results from MW-6 and Leachate Effluent Analyses,
- Section 5 – Chain of Custody Forms,
- Section 6 – Water Level Data,

- Section 7 – Water Quality Monitoring Certification (FDEP Form # 62-701.900(31)),
- Section 8 – Field Sampling Logs, and,
- Section 9 –Laboratory Analytical Reports

Laboratory and field electronic data deliverables (EDDs) in ADaPT format are submitted separately.

Section 2

Summary of Exceedances and Recommendations

A summary of the exceedances of groundwater quality criteria for the first half of 2014 semi-annual groundwater sampling event is provided in **Table 2-1**. Based on evaluation of the data from the January 2014 monitoring event, continued monitoring in accordance with the current permit is recommended.

2.1 pH

Measured values of pH were below the acceptable Secondary Drinking Water Standard (SDWS) range (6.5 to 8.5 S.U.) in the samples from all of the wells except MW-11, MW-12, and MW-14. The pH values were similar to historical values reported, but generally higher than the values reported in July 2013.

2.2 Iron

The concentrations of iron exceeded the SDWS MCL established in Chapter 62-550, F.A.C. in samples collected from compliance wells MW-10, MW-12, MW-13, MW-15, MW-17, MW-20, and MW-21. The concentrations of iron in the samples from these wells were generally consistent with concentrations of iron historically detected. The concentration of iron in the samples from the background well MW-7 also exceeded the SDWS MCL.

2.3 Organic Compounds

Vinyl chloride (detected in MW-10) was the only organic compound detected in concentrations that exceeded Primary Drinking Water Standard (PDWS) MCLs in the groundwater samples collected in January 2014 from background, detection, or compliance wells. Historically, vinyl chloride has generally exceeded PDWS MCLs in samples from this well and the concentration detected during this monitoring period was lower than was detected in the sample collected during the July 2013 sampling event. Although the concentrations of benzene detected in the samples collected from MW-10 (1.2 ug/L) and MW-21 (1.3 ug/L) were reported by the laboratory in tenths, using the rounding method described in FDEP Rounding Analytical Data for Site Rehabilitation Completion memo dated November 17, 2011, the values can be rounded to the nearest whole integer (1), which results in these values being equivalent to the MCL.

Table 2-1 Summary of Groundwater Criteria Exceedances January 2014 Sampling Event

Parameter	MCL/GCTL	Units	Well No	Result
Background Wells				
pH	6.5 - 8.5	S.U.	MW-3	4.86
			MW-7	5.24
Iron, total	300	ug/L	MW-7	1,800
Benzene	1	ug/L	MW-7	1.1 Δ
Compliance Wells				
pH	6.5 - 8.5	S.U.	MW-10	4.59
			MW-13	5.15
			MW-15	5.09
			MW-17	5.30
			MW-20	5.94
			MW-21	4.74
Iron, total	300	ug/L	MW-10	5,300
			MW-12	3,300
			MW-13	3,500
			MW-15	9,800
			MW-17	11,000
			MW-20	66,000
			MW-21	1,600
Iron, dissolved	300	ug/L	MW-10	4,800
			MW-21	1,000
Benzene	1	ug/L	MW-10	1.2 Δ
			MW-21	1.3 Δ
Vinyl Chloride	1	ug/L	MW-10	1.5
Assessment Wells				
pH	6.5 - 8.5	S.U.	MW-19	4.95
			MW-19	6.11

Notes:

MCL = Maximum Contaminant Target Level (Chapter 62-550, F.A.C.)

GCTL = Groundwater Cleanup Target Level (Chapter 62-777, F.A.C.)

S.U. = Standard Unit

mg/L = Milligram per Liter

ug/L = Microgram per Liter

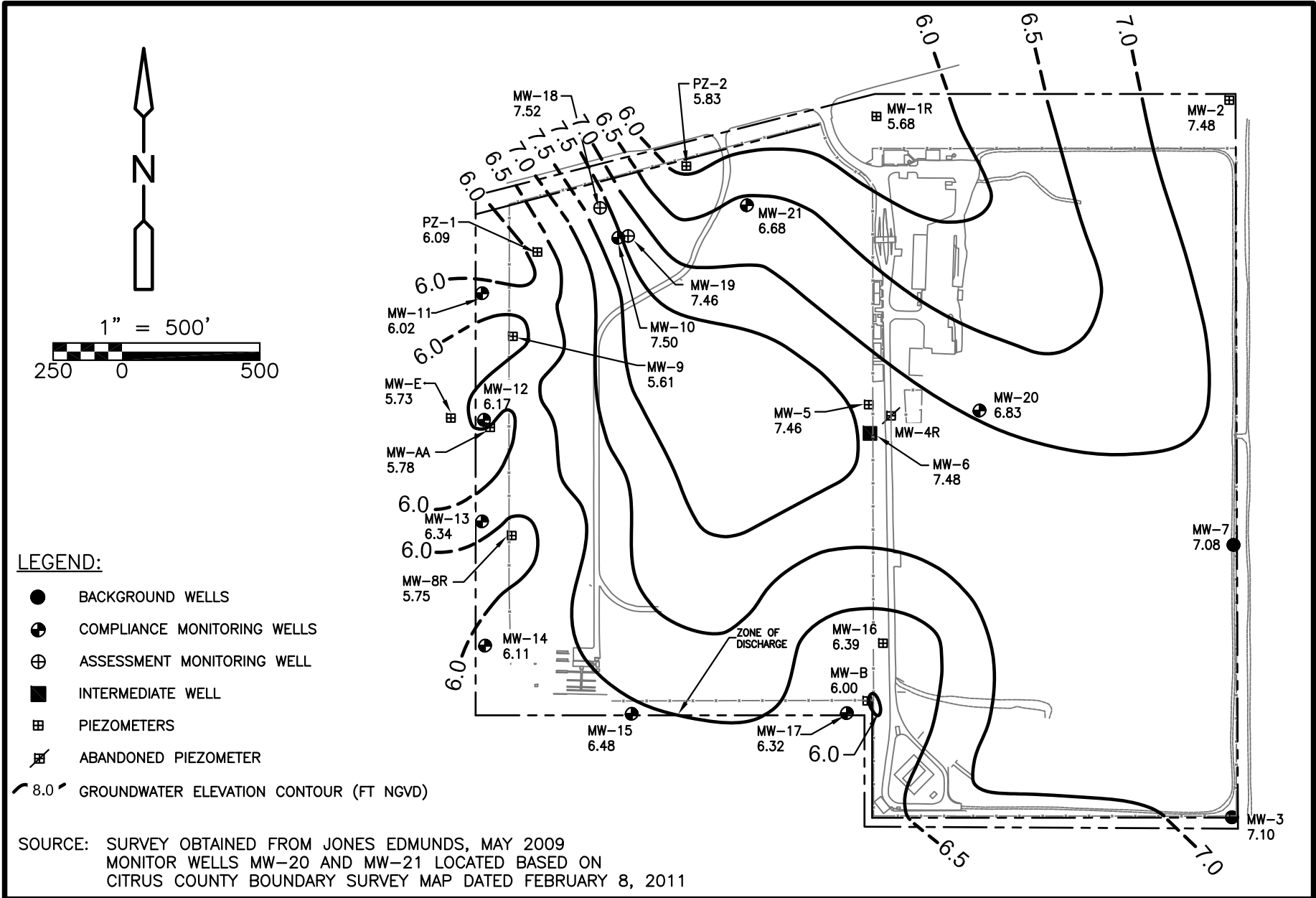
Δ = Although the lab reported this concentration in tenths, using the rounding method described in FDEP Rounding Analytical Data for Site Rehabilitation Completion memo dated November 17, 2011, the value can be rounded to the nearest whole integer which results in this value being equivalent to the MCL/GCTL.

Section 3

Groundwater Contours

Static groundwater levels were measured by CDM Smith personnel on January 21, 2014. A contour map is provided as **Figure 3-1**. Water level data are provided in Section 6.

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Section 4

Summary of Results from MW-6 and Leachate Effluent Analyses

Intermediate well MW-6 is located within the permitted zone of discharge for the facility. This well is sampled semi-annually for the parameters established in Specific Condition E.4.c. of the permit. In accordance with Specific Condition E.10.a. of the permit, the results are compared to groundwater standards. However, because MW-6 is located within the permitted zone of discharge for the facility, compliance with the groundwater standards is not required. Trend analyses of the results are performed in accordance with Specific Condition E.10.a. of the permit to evaluate potential effects of the discharge of treated leachate on groundwater within the zone of discharge. Leachate effluent sampling is performed semi-annually in accordance with Specific Conditions E.9.a.(1). and E.9.a.(2). of the permit. Because the leachate effluent is discharged into a percolation pond located within the permitted zone of discharge for the facility, compliance with the regulatory levels is not required.

4.1 Trend Analysis for Parameters Detected in MW-6

A groundwater sample was collected on January 22, 2014, from the intermediate monitor well, MW-6. In addition to measurements of field parameters, the sample was analyzed for the semi-annual parameters (iron, chlorides, sodium, TDS, arsenic, and TTHMs) in accordance with Specific Condition E.4.c. of the permit. A copy of the analytical report is included in Section 9. Time verses concentration graphs of detected concentrations of each of these parameters and pH readings from MW-6 since January 2002 are presented as **Figures 4-1** through **4-7**.

Measured values of pH were below the acceptable Secondary Drinking Water Standard (SDWS) range (6.5 to 8.5 S.U.) in all of the MW-6 samples collected during the period from January 2002 to January 2014. The values of pH have ranged from 3.47 S.U. to 4.75 S.U. The pH value in the sample collected in January 2014 was comparable to historical values.

The concentrations of iron detected in MW-6 have generally been above the SDWS (300 ug/L) in samples collected from MW-6 during the period from January 2002 to January 2014. The concentrations of iron have ranged from 91.4 ug/L to 2,400 ug/L with a slightly increasing trend.

The concentrations of chloride have generally been below the SDWS (250 ug/L) in the samples collected from MW-6 during the period from January 2002 to January 2014. The concentrations of chloride have ranged from 120 ug/L to 280 ug/L with a slightly increasing trend.

The concentrations of sodium detected in MW-6 have been below the Primary Drinking Water Standard PDWS (160 ug/L) in all of the MW-6 samples collected during the period from January 2002 to January 2014. The concentrations of sodium have ranged from 76 ug/L to 159 ug/L with a slightly decreasing trend.

Figure 4-1. Time vs Concentration - pH in Samples from MW-6

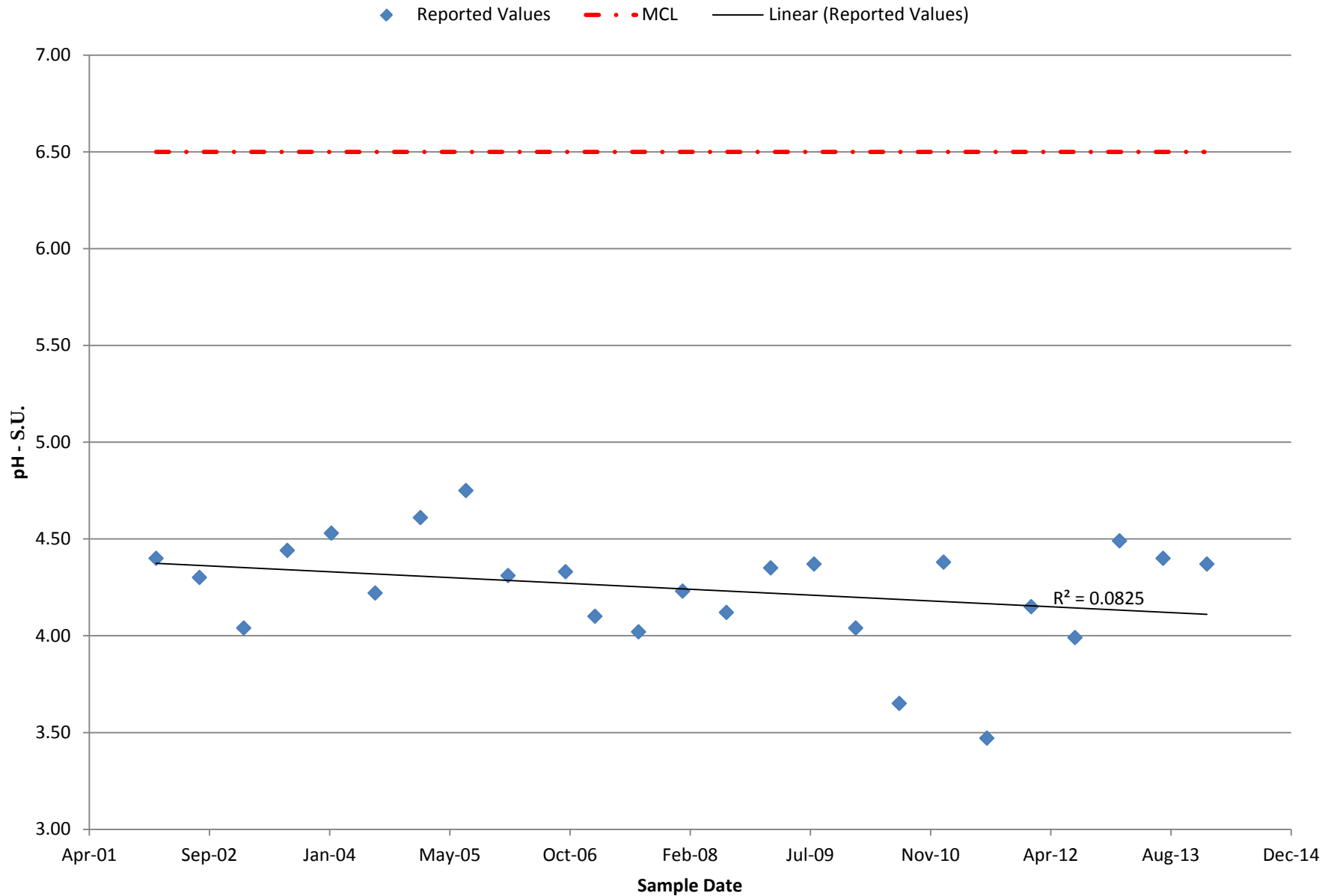


Figure 4-2. Time vs Concentration - Iron in Samples from MW-6

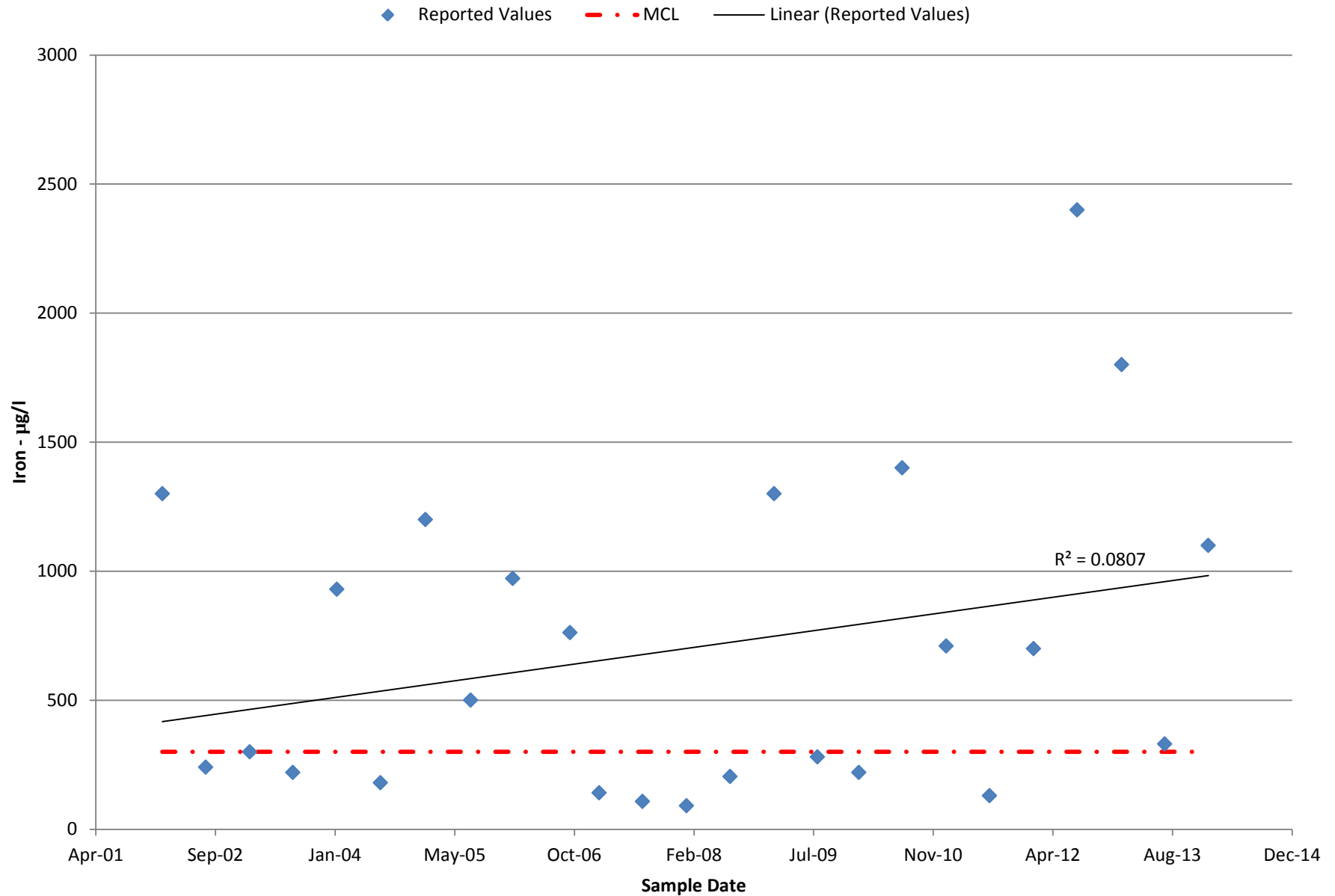


Figure 4-3. Time vs Concentration - Chloride in Samples from MW-6

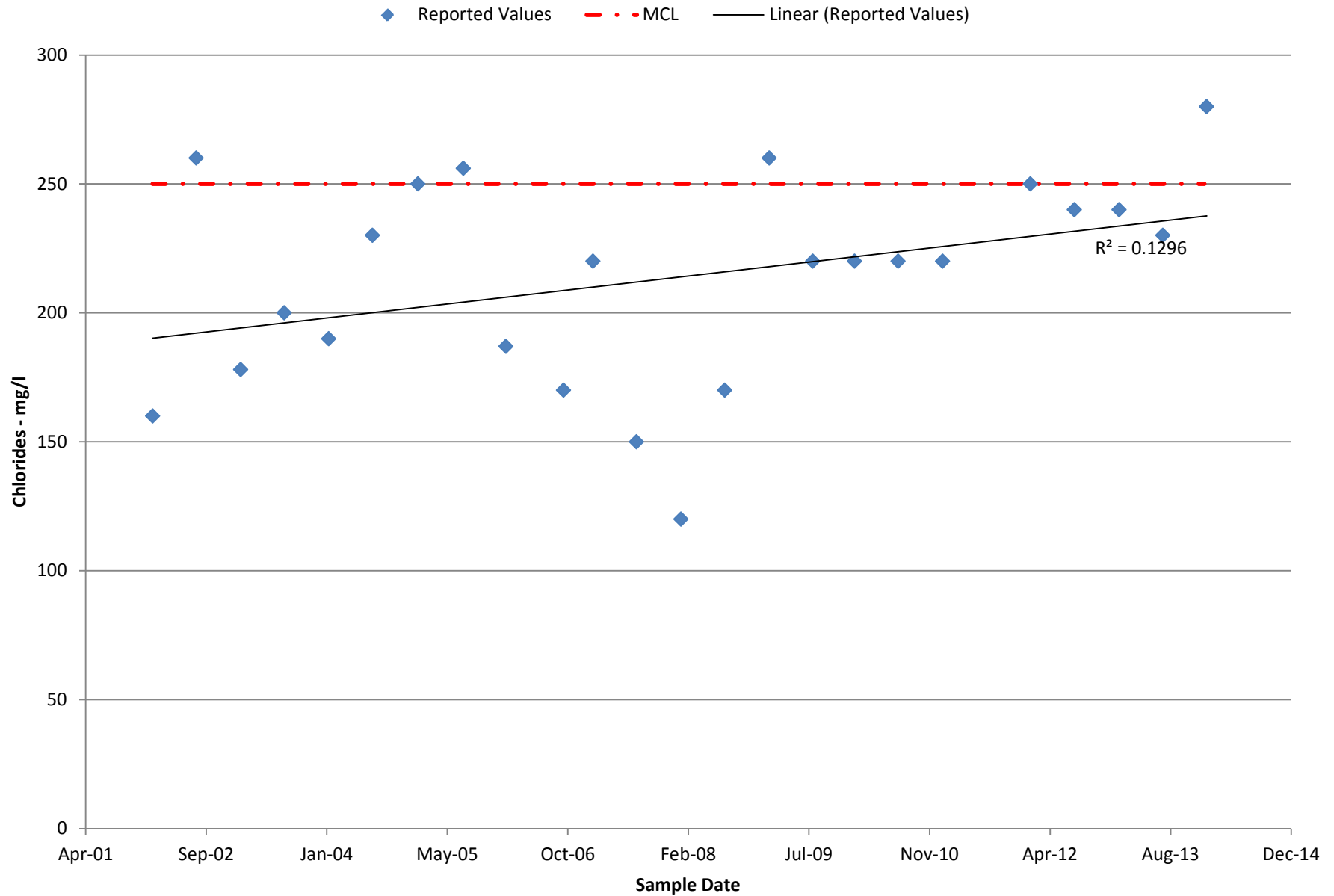


Figure 4-4. Time vs Concentration - Sodium in Samples from MW-6

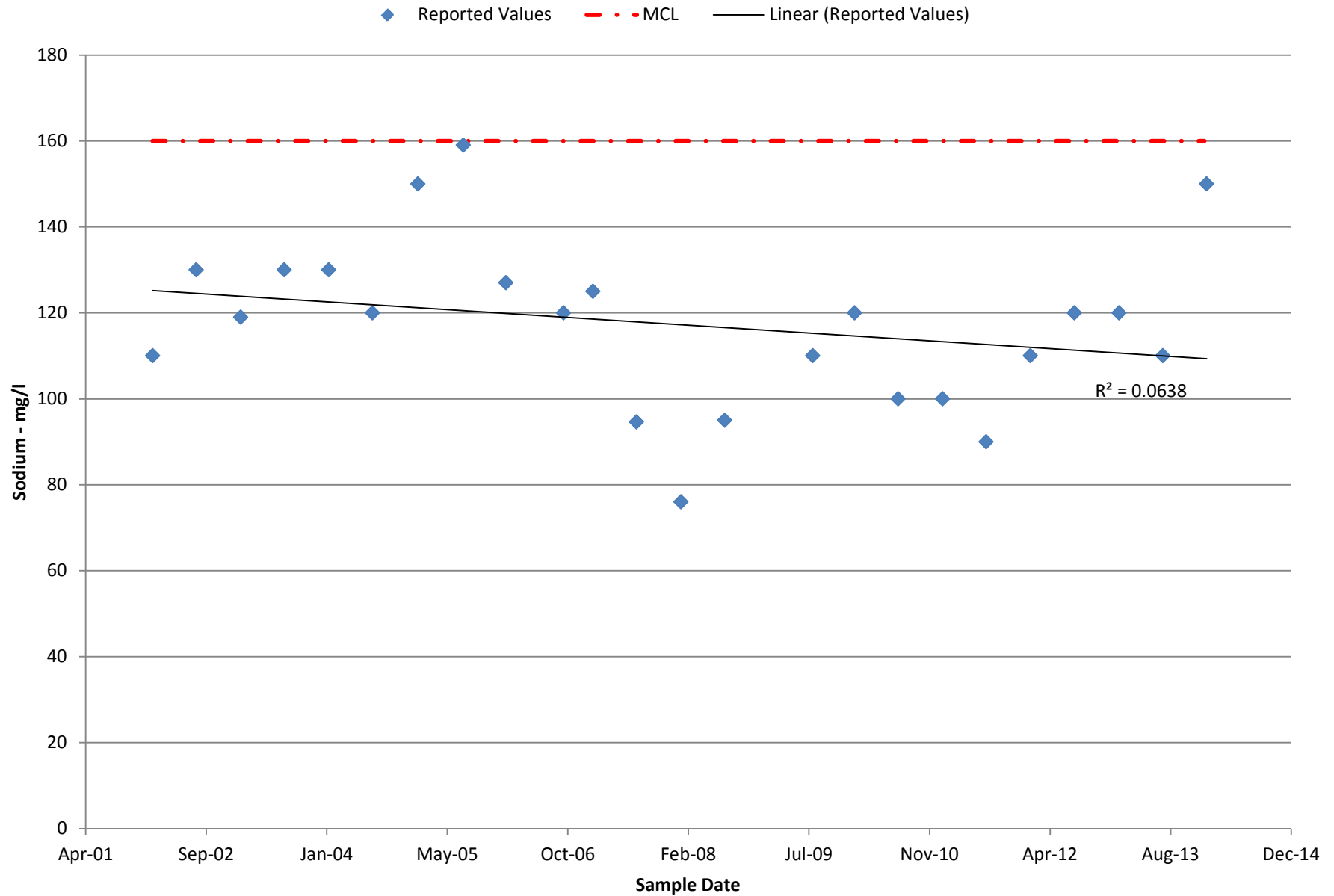


Figure 4-5. Time vs Concentration - TDS in Samples from MW-6

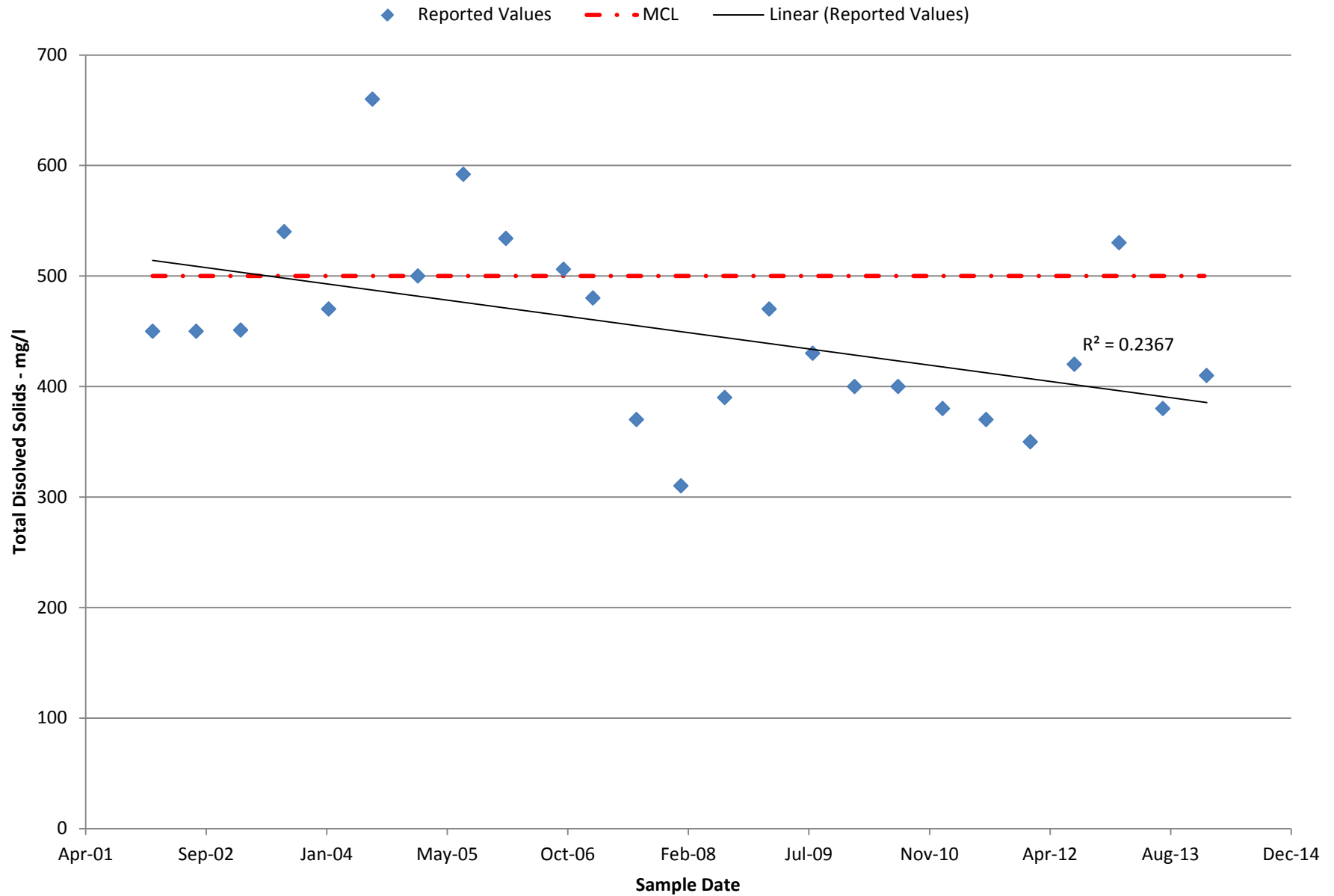


Figure 4-6. Time vs Concentration - Arsenic in Samples from MW-6

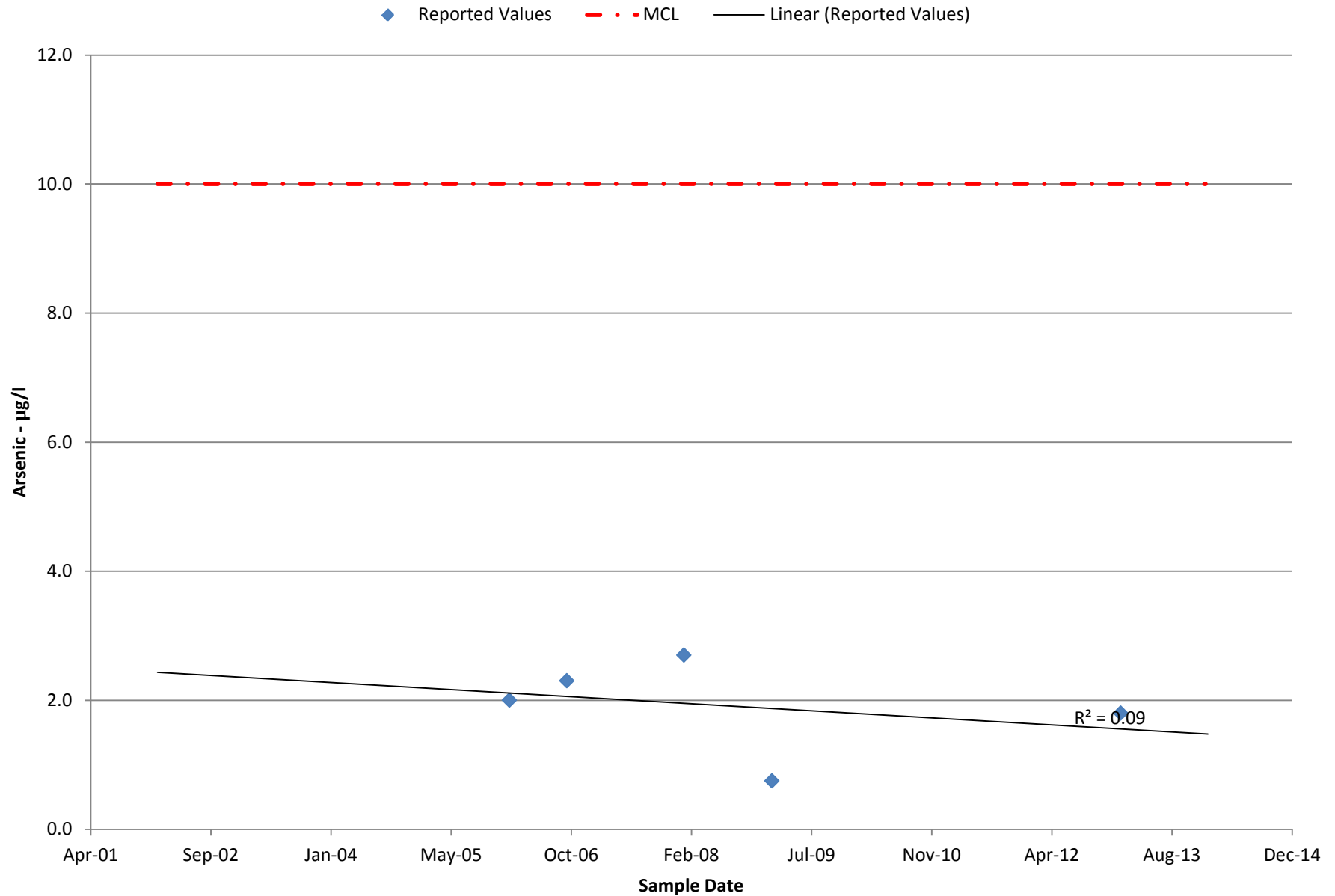
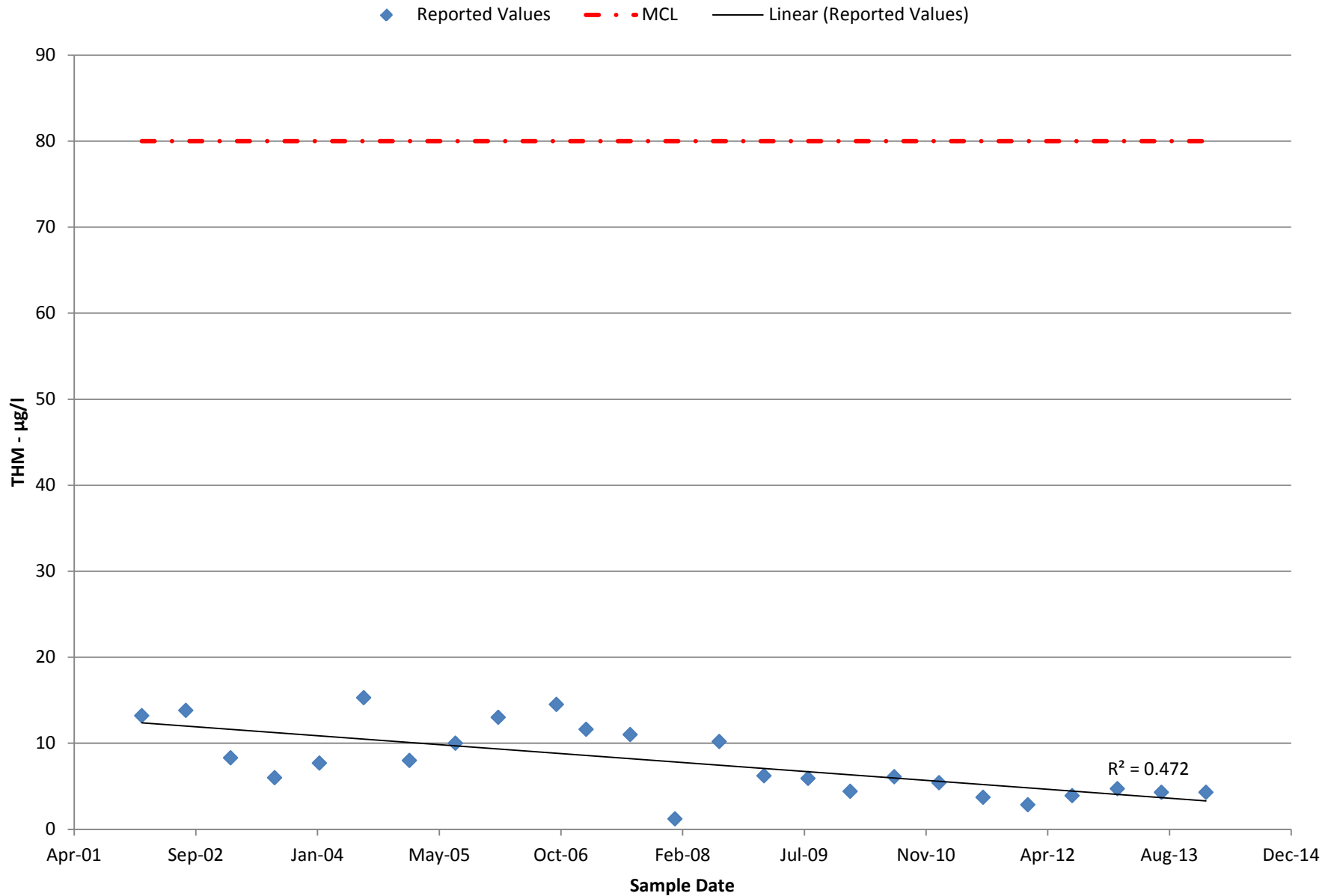


Figure 4-7. Time vs Concentration - Total Trihalomethanes in Samples from MW-6



The concentrations of TDS have generally been below the SDWS (500 ug/L) in samples collected from MW-6 during the period from January 2002 to January 2014. The concentrations of TDS have ranged from 310 ug/L to 660 ug/L with a slightly decreasing trend.

Arsenic was not detected in the sample collected from MW-6 in January 2014. Arsenic is generally not detected in samples collected from MW-6. When detected, concentrations of arsenic have been below the PDWS (10 ug/L) and ranged from 0.75 ug/L to 2.7 ug/L.

The concentrations of TTHMs have been below the PDWS (80 ug/L) in all of the samples collected from MW-6 during the period from January 2002 to January 2014. Concentrations have ranged from 1.2 ug/L to 15.3 ug/L with a slightly decreasing trend.

4.2 Leachate Effluent

The first semi-annual 2014 leachate effluent sample was collected on January 22, 2014. The sample was analyzed for the semi-annual parameters listed in Specific Condition Part E.9.a.(2) of the permit. A copy of the analytical report is included in Section 9. The measured field parameter values and the concentrations of analytical parameters were comparable to historical values.

Section 5

Chain of Custody Forms

Chain of custody forms for the groundwater samples collected by TestAmerica personnel are provided in this section.

2/6/2014

TestAmerica Orlando
8010 Sunport Drive Suite 116
Orlando, FL 32809
Phone (800) 851-2560 Fax (407) 856-0886

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab POC: Hornsby, Jess		Carrier Tracking No(s):		COC No: 660-53094-12679-1	
Client Contact: Mr. Aamod Sonawane		E-Mail: jess.hornsby@testamerica.com		Page: Page 1 of 2		Job #:	
Company: CDM Smith, Inc.		Address: 1715 North Westshore Blvd. Suite 875		City: Tampa		State, Zip: FL, 33607	
Phone: 71138-94426-GROUNDWATER		PO #: 71138-94426-GROUNDWATER		Purchase Order Requested		Email: sonawaneas@cdmsmith.com	
Project Name: Citrus County LF Semi-Annual		Project #: 66003335		SSOW#:		Site: Florida	

Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (Water, Soil, Sediment, Other)	Analysis Requested													Special Instructions/Note:
					Field Filtered Solids	Field Sampling - Field Parameters	350.1 - Ammonia	300. ORGFM, 280 - Chloride	353.2 - Nitrate	6020, 7470A	6200B - Appendix I Compounds	350.1 - Ammonia	300. ORGFM, 280 - Chloride	353.2 - Nitrate	6020, 7470A	6200B - Appendix I Compounds	350.1 - Ammonia	
MW-20	1-22-14	825	G	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-6	1-22-14	1025	G	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-7	1-22-14	1125	G	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-3	1-22-14	1340	G	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-15	1-22-14	1520	G	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-12	1-22-14	1925	G	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-13	1-22-14	1348	G	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-11	1-22-14	1530	G	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	
				Water														
				Water														
				Water														
				Water														

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard	☐ Flammable	☐ Return To Client	☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>	Date: 1-22-14 2135	Received by: <i>[Signature]</i>	Date/Time: 1/23/14 0800
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seal No.: 27, 2.72 64-07		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record

Client Information Client Contact: Mr. Aamod Sonawane Company: CDM Smith, Inc. Address: 1715 North Westshore Blvd. Suite 875 City: Tampa State, Zip: FL, 33607 Phone: _____ Email: sonawaneas@cdmsmith.com Project Name: Citrus County LF Semi-Annual Site: Florida		Sample: <i>Sonawane</i> Lab Pmt: Hornsby, Jess E-Mail: jess.hornsby@testamerica.com Phone: 407-399-3344		Carrier Tracking Note(s): COC No: 660-53095-12681.1 Page: Page 1 of 1 Job #: _____	
Due Date Requested: TAT Requested (days): _____ PO #: _____ Purchase Order Requested: _____ WO #: 71136-94426-GROUNDWATER Project #: 66003335 SOW#: _____		Analysis Requested			
Sample Identification MW-18 MW-19		Sample Date 1-22-14 1-22-14	Sample Time 1450 1559	Sample Type (C=comp, G=grab) G G	Matrix (W=water, S=solid, O=other) W W
Field Filtered Sample (Yes or No) ☒ No Perform MSD (Yes or No) ☒ No 826B - Benzene, Meth, Chloride, Vinyl Chloride ☒ No Field Sampling - Field Parameters ☒ No		Total Number of containers: _____			
Special Instructions/Note: _____		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: _____ Date/Time: 1-22-14 1940 Date/Time: 1-22-14 2055 Date/Time: _____			
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date/Time: 1-22-14 1940 Date/Time: 1-22-14 0800 Date/Time: _____			
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date/Time: _____ Date/Time: _____ Date/Time: _____			
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____			

三、四、五、六、七、八、九、十、十一、十二、十三、十四、十五、十六、十七、十八、十九、二十、二十一、二十二、二十三、二十四、二十五、二十六、二十七、二十八、二十九、三十、三十一、三十二、三十三、三十四、三十五、三十六、三十七、三十八、三十九、四十、四十一、四十二、四十三、四十四、四十五、四十六、四十七、四十八、四十九、五十、五十一、五十二、五十三、五十四、五十五、五十六、五十七、五十八、五十九、六十、六十一、六十二、六十三、六十四、六十五、六十六、六十七、六十八、六十九、七十、七十一、七十二、七十三、七十四、七十五、七十六、七十七、七十八、七十九、八十、八十一、八十二、八十三、八十四、八十五、八十六、八十七、八十八、八十九、九十、九十一、九十二、九十三、九十四、九十五、九十六、九十七、九十八、九十九、一百。

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TestAmerica Orlando
8010 Sunport Drive Suite 116
Orlando, FL 32809
Phone (800) 851-2560 Fax (407) 856-0888

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab Pmt: Hornsby, Jess		Carrier Tracking No(s):		COC No: 660-53096-12880.1	
Client Contact: Mr. Aamod Sonawane		E-Mail: less.hornsby@testamericainc.com		Page: 1 of 1		Job #:	
Company: CDM Smith, Inc.		Address: 1715 North Westshore Blvd. Suite 875		City: Tampa		State: FL 33607	
Phone:		PO #:		Purchase Order Requested		WO #:	
E-Mail: sonawaneas@cdmsmith.com		Project #:		66003335		SSOW#:	
Project Name: Citrus County LF Semi-Annual		Site: Florida		Sample Date: 1-22-14		Sample Time: 1026	
Sample Identification		Sample Type (C=comp, G=grab)		Sample Matrix (viewwater, S=solid, O=water/sol, BT=Tissue, A=Air)		Preservation Code	
MW-6		G		Water			
Field Filtered Sample (Yes or No)		Field Sampling - Field Parameters (inc. color and sheen)		TTHM Calc - Total Trihalomethane Calculation		300. ORGM. 28D - Chloride	
6020 - Arsenic, Iron, Sodium		2640C - Total Dissolved Solids		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Analysis Requested		Field Sampling - Field Parameters (inc. color and sheen)		TTHM Calc - Total Trihalomethane Calculation		300. ORGM. 28D - Chloride	
6020 - Arsenic, Iron, Sodium		2640C - Total Dissolved Solids		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Preservation Codes:		A - HCL		M - Hexane		N - None	
B - NaOH		C - Zn Acetate		O - AsNaO2		P - Na2OAS	
D - Nitric Acid		E - NaHSO4		F - MeOH		G - Amchlor	
H - Ascorbic Acid		I - Ice		J - DI Water		K - EDTA	
L - EDA		Other:		Special Instructions/Note:		Total Number of Containers	
M - Hexane		N - None		O - AsNaO2		P - Na2OAS	
Q - Na2SO3		R - Na2S2O3		S - H2SO4		T - TSP Dodecahydrate	
U - Acetone		V - MCAA		W - ph 4-5		Z - other (specify)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For	
Special Instructions/QC Requirements:		Method of Shipment		Date/Time		Company	
Relinquished by: <i>Shawn Victory</i>		Date/Time: 1-22-14 1940		Company: <i>Titone</i>		Relinquished by: <i>Shawn Victory</i>	
Relinquished by: <i>Shawn Victory</i>		Date/Time: 1-22-14 2135		Company: <i>Titone</i>		Relinquished by: <i>Shawn Victory</i>	
Relinquished by: <i>Shawn Victory</i>		Date/Time: 1-22-14 2135		Company: <i>Titone</i>		Relinquished by: <i>Shawn Victory</i>	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Colder Temperature(s) °C and Other Remarks:			

Section 6

Water Level Data

Static water level data collected by CDM Smith on January 21, 2014, are summarized in **Table 6-1**. In accordance with the permit requirements, these data were used to prepare the groundwater level contour map (**Figure 3-1**).

Table 6-1 Water Level Data Collected at Citrus County Central Class I Landfill

Monitor Well ID	Tasks in 1/2014 Sampling Event	Casing Size (in)	Top of Casing Elev. (NGVD)	Water Levels Measured In January 2014			
				Initial Round of Water Levels ¹		Water Level at Time of Sampling	
				(ft btoc)	(NGVD)	(ft btoc)	(NGVD)
MW-AA	WL only	2	106.11	100.33	5.78	NS	NS
MW-B	WL only	4	113.46	107.46	6.00	NS	NS
MW-E	WL only	2	109.51	103.78	5.73	NS	NS
MW-1R	WL only	2	118.08	112.40	5.68	NS	NS
MW-2	WL only	2	136.19	128.71	7.48	NS	NS
MW-3	GW Sample & WL	2	120.47	113.37	7.10	113.45	7.02
MW-5	WL only	2	121.14	113.68	7.46	NS	NS
MW-6	GW Sample & WL	2	118.48	111.00	7.48	111.27	7.21
MW-7	GW Sample & WL	2	128.66	121.58	7.08	121.67	6.99
MW-8R	WL only	2	118.08	112.33	5.75	NS	NS
MW-9	WL only	2	113.46	107.85	5.61	NS	NS
MW-10	GW Sample & WL	2	114.20	106.70	7.50	106.70	7.50
MW-11	GW Sample & WL	2	105.21	99.19	6.02	99.24	5.97
MW-12	GW Sample & WL	2	104.01	97.84	6.17	97.80	6.21
MW-13	GW Sample & WL	2	112.61	106.27	6.34	106.30	6.31
MW-14	GW Sample & WL	2	109.12	103.01	6.11	103.04	6.08
MW-15	GW Sample & WL	2	124.21	117.73	6.48	117.70	6.51
MW-16	WL only	2	120.31	113.92	6.39	NS	NS
MW-17	GW Sample & WL	2	111.55	105.23	6.32	105.18	6.37
MW-18	GW Sample & WL	2	116.41	108.89	7.52	108.97	7.44
MW-19	GW Sample & WL	2	114.16	106.70	7.46	106.81	7.35
MW-20	GW Sample & WL	2	119.74	112.91	6.83	113.11	6.63
MW-21	GW Sample & WL	2	115.63	108.95	6.68	108.93	6.70
PZ-1	WL only	2	111.56	105.47	6.09	NS	NS
PZ-2	WL only	2	117.32	111.49	5.83	NS	NS

NOTES:

ft btoc - feet below top of casing

in - inches

NGVD - National Geodetic Vertical Datum (1929)

WL - Water Level

GW - Groundwater

NS - Not Sampled

Initial Round of Water Levels¹ - Static WLs collected from 9:55 to 14:59 on 1/21/14

Section 7

Water Quality Monitoring Report Certification

FDEP Form 62-701.900(31) completed by CDM Smith is provided in this section.



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 Citrus County Central Class I Landfill
Address P.O. Box 340
City Lecanto Zip 34460-0340 County Citrus
Telephone Number (352) 527-7670
- (2) WACS Facility ID SWD/09/39859
- (3) DEP Permit Number 21375-018-SO/01
- (4) Authorized Representative's Name David R. Rojas, P.G. w/CDM Smith Title Environmental Scientist
Address 1715 N. West Shore Blvd. Suite 875
City Tampa Zip 33607 County Hillsborough
Telephone Number (813) 281-2900
Email address (if available) Rojasdr@cdmsmith.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.

2-10-14

(Date)

David R. Rojas

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization TestAmerica Laboratories, Inc.
Analytical Lab NELAC / HRS Certification # Tpa - E84282, Tal - E81005, Orlando - E83012, & Savannah GA - E87052
Lab Name TestAmerica Laboratories, Inc.
Address 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Phone Number (813) 885-7427
Email address (if available) www.testamericainc.com

Section 8

Field Sampling Logs

Groundwater sampling logs and equipment calibration logs prepared by TestAmerica are included in this section.

58669

PAGE: 1 of 1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT: 1128		SAMPLING ENDED AT: 1145	
PUMP OR TUBING DEPTH IN WELL (feet): 110				TUBING MATERIAL CODE: PE		FIELD-FILTERED: ☒ N		FILTER SIZE: 1.0 µm		
FIELD DECONTAMINATION: PUMP ☒ Y ☒ TUBING ☒ Y ☒ (replaced)				DUPLICATE: Y ☒ N ☒						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPL E ID CODE	# CONTAIN ERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-10	1	PE	500	UMP	0	4.6	TAS	BP	200	
1	2	1	250	NH4OH	0	6.20	6020/7470A	1	1	
	1		250	N250y	0	6.20	350.1		1	
	2		125	UMP	0	4.6	4153.2		1	
	1		125	N250y	0	6.20	353.2		1	
2	1	SC	70	HCl	0	—	8260/8011	1	120	
	1		70	HCl	0	—	8260/8011		120	

20 pm 15/15 60 ps!

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

Revision Date: February 12, 2009

PAGE: 1 of 1

PURGING DATA

[illegible]

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; Q = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: <i>Shawn Victoria / Test America</i>		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLING INITIATED AT: <i>1404</i>		SAMPLING ENDED AT: <i>1445</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>121.5</i>		TUBING MATERIAL CODE: <i>PE</i>		FIELD-FILTERED: <i>Y</i> N		FILTER SIZE: <i>1.2 um</i>	
FIELD DECONTAMINATION: PUMP <i>Y</i> <i>(N)</i>		TUBING <i>Y</i> <i>(N)</i> <i>(replaced)</i>		DUPLICATE: <i>Y</i> <i>(N)</i>		<i>Duplicate</i>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml. per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
MW-H	1	PE	300	UNP	0	4.74	TDS	BP	200
	2	↓	250	HNO3	0	<2.0	6020/7420A	↓	↓
	1	↓	250	H2SO4	0	<2.0	350.1	↓	↓
X	2	↓	125	UNP	0	4.74	Cl, 353, 2	↓	↓
	1	↓	125	H2SO4	0	<2.0	353, 2	↓	↓
	6	PE	40	HCl	0	—	8260/8011	↓	<120

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

Revision Date: February 12, 2009

PAGE: 1 of 1

PURGING DATA

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 116	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 116	PURGING INITIATED AT: 1545	PURGING ENDED AT: 1616	TOTAL VOLUME PURGED (gallons): 3.2
			DISSOLVED	

WELL CAPACITY (Gallons Per Foot): $0.75" = 0.02$; $1" = 0.04$; $1.25" = 0.06$; $2" = 0.16$; $3" = 0.37$; $4" = 0.65$; $5" = 1.02$; $6" = 1.47$; $12" = 5.88$
 $0.75" = 0.02$; $1" = 0.04$; $1.25" = 0.06$; $1.5" = 0.09$; $1.75" = 0.14$; $2" = 0.16$; $2.25" = 0.21$; $2.5" = 0.26$; $2.75" = 0.31$; $3" = 0.37$; $3.25" = 0.42$; $3.5" = 0.47$; $3.75" = 0.52$; $4" = 0.65$; $4.25" = 0.70$; $4.5" = 0.75$; $4.75" = 0.80$; $5" = 1.02$; $5.25" = 1.07$; $5.5" = 1.12$; $5.75" = 1.17$; $6" = 1.47$; $6.25" = 1.52$; $6.5" = 1.57$; $6.75" = 1.62$; $7" = 1.92$; $7.25" = 1.97$; $7.5" = 2.02$; $7.75" = 2.07$; $8" = 2.37$; $8.25" = 2.42$; $8.5" = 2.47$; $8.75" = 2.52$; $9" = 2.82$; $9.25" = 2.87$; $9.5" = 2.92$; $9.75" = 2.97$; $10" = 3.27$; $10.25" = 3.32$; $10.5" = 3.37$; $10.75" = 3.42$; $11" = 3.72$; $11.25" = 3.77$; $11.5" = 3.82$; $11.75" = 3.87$; $12" = 4.17$; $12.25" = 4.22$; $12.5" = 4.27$; $12.75" = 4.32$; $13" = 4.62$; $13.25" = 4.67$; $13.5" = 4.72$; $13.75" = 4.77$; $14" = 5.07$; $14.25" = 5.12$; $14.5" = 5.17$; $14.75" = 5.22$; $15" = 5.52$; $15.25" = 5.57$; $15.5" = 5.62$; $15.75" = 5.67$; $16" = 5.97$; $16.25" = 6.02$; $16.5" = 6.07$; $16.75" = 6.12$; $17" = 6.42$; $17.25" = 6.47$; $17.5" = 6.52$; $17.75" = 6.57$; $18" = 6.87$; $18.25" = 6.92$; $18.5" = 6.97$; $18.75" = 7.02$; $19" = 7.32$; $19.25" = 7.37$; $19.5" = 7.42$; $19.75" = 7.47$; $20" = 7.77$; $20.25" = 7.82$; $20.5" = 7.87$; $20.75" = 7.92$; $21" = 8.22$; $21.25" = 8.27$; $21.5" = 8.32$; $21.75" = 8.37$; $22" = 8.67$; $22.25" = 8.72$; $22.5" = 8.77$; $22.75" = 8.82$; $23" = 9.12$; $23.25" = 9.17$; $23.5" = 9.22$; $23.75" = 9.27$; $24" = 9.57$; $24.25" = 9.62$; $24.5" = 9.67$; $24.75" = 9.72$; $25" = 10.02$; $25.25" = 10.07$; $25.5" = 10.12$; $25.75" = 10.17$; $26" = 10.47$; $26.25" = 10.52$; $26.5" = 10.57$; $26.75" = 10.62$; $27" = 10.92$; $27.25" = 10.97$; $27.5" = 11.02$; $27.75" = 11.07$; $28" = 11.37$; $28.25" = 11.42$; $28.5" = 11.47$; $28.75" = 11.52$; $29" = 11.82$; $29.25" = 11.87$; $29.5" = 11.92$; $29.75" = 11.97$; $30" = 12.27$; $30.25" = 12.32$; $30.5" = 12.37$; $30.75" = 12.42$; $31" = 12.72$; $31.25" = 12.77$; $31.5" = 12.82$; $31.75" = 12.87$; $32" = 13.17$; $32.25" = 13.22$; $32.5" = 13.27$; $32.75" = 13.32$; $33" = 13.62$; $33.25" = 13.67$; $33.5" = 13.72$; $33.75" = 13.77$; $34" = 14.07$; $34.25" = 14.12$; $34.5" = 14.17$; $34.75" = 14.22$; $35" = 14.52$; $35.25" = 14.57$; $35.5" = 14.62$; $35.75" = 14.67$; $36" = 14.97$; $36.25" = 15.02$; $36.5" = 15.07$; $36.75" = 15.12$; $37" = 15.42$; $37.25" = 15.47$; $37.5" = 15.52$; $37.75" = 15.57$; $38" = 15.87$; $38.25" = 15.92$; $38.5" = 15.97$; $38.75" = 16.02$; $39" = 16.32$; $39.25" = 16.37$; $39.5" = 16.42$; $39.75" = 16.47$; $40" = 16.77$; $40.25" = 16.82$; $40.5" = 16.87$; $40.75" = 16.92$; $41" = 17.22$; $41.25" = 17.27$; $41.5" = 17.32$; $41.75" = 17.37$; $42" = 17.67$; $42.25" = 17.72$; $42.5" = 17.77$; $42.75" = 17.82$; $43" = 18.12$; $43.25" = 18.17$; $43.5" = 18.22$; $43.75" = 18.27$; $44" = 18.57$; $44.25" = 18.62$; $44.5" = 18.67$; $44.75" = 18.72$; $45" = 19.02$; $45.25" = 19.07$; $45.5" = 19.12$; $45.75" = 19.17$; $46" = 19.47$; $46.25" = 19.52$; $46.5" = 19.57$; $46.75" = 19.62$; $47" = 19.92$; $47.25" = 19.97$; $47.5" = 20.02$; $47.75" = 20.07$; $48" = 20.37$; $48.25" = 20.42$; $48.5" = 20.47$; $48.75" = 20.52$; $49" = 20.82$; $49.25" = 20.87$; $49.5" = 20.92$; $49.75" = 20.97$; $50" = 21.27$; $50.25" = 21.32$; $50.5" = 21.37$; $50.75" = 21.42$; $51" = 21.72$; $51.25" = 21.77$; $51.5" = 21.82$; $51.75" = 21.87$; $52" = 22.17$; $52.25" = 22.22$; $52.5" = 22.27$; $52.75" = 22.32$; $53" = 22.62$; $53.25" = 22.67$; $53.5" = 22.72$; $53.75" = 22.77$; $54" = 23.07$; $54.25" = 23.12$; $54.5" = 23.17$; $54.75" = 23.22$; $55" = 23.52$; $55.25" = 23.57$; $55.5" = 23.62$; $55.75" = 23.67$; $56" = 23.92$; $56.25" = 23.97$; $56.5" = 24.02$; $56.75" = 24.07$; $57" = 24.37$; $57.25" = 24.$

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0022; 5/16" = 0.0035; 3/8" = 0.0054; 1/2" = 0.0081; 5/8" = 0.0118; 3/4" = 0.0164; 7/8" = 0.0221; 1" = 0.0288; 1 1/8" = 0.0365; 1 1/4" = 0.0452; 1 3/8" = 0.0549; 1 1/2" = 0.0675; 1 5/8" = 0.0812; 1 3/4" = 0.0959; 1 7/8" = 0.1116; 2" = 0.1282; 2 1/8" = 0.1458; 2 1/4" = 0.1644; 2 3/8" = 0.1840; 2 1/2" = 0.2046; 2 5/8" = 0.2262; 2 3/4" = 0.2488; 2 7/8" = 0.2724; 3" = 0.2970; 3 1/8" = 0.3216; 3 1/4" = 0.3472; 3 3/8" = 0.3738; 3 1/2" = 0.4014; 3 5/8" = 0.4299; 3 3/4" = 0.4594; 3 7/8" = 0.4899; 4" = 0.5214; 4 1/8" = 0.5539; 4 1/4" = 0.5874; 4 3/8" = 0.6219; 4 1/2" = 0.6574; 4 5/8" = 0.6939; 4 3/4" = 0.7314; 4 7/8" = 0.7699; 5" = 0.8094; 5 1/8" = 0.8499; 5 1/4" = 0.8914; 5 3/8" = 0.9339; 5 1/2" = 0.9774; 5 5/8" = 1.0219; 5 3/4" = 1.0674; 5 7/8" = 1.1139; 6" = 1.1614; 6 1/8" = 1.2099; 6 1/4" = 1.2594; 6 3/8" = 1.3099; 6 1/2" = 1.3614; 6 5/8" = 1.4139; 6 3/4" = 1.4674; 6 7/8" = 1.5219; 7" = 1.5774; 7 1/8" = 1.6339; 7 1/4" = 1.6914; 7 3/8" = 1.7499; 7 1/2" = 1.8094; 7 5/8" = 1.8699; 7 3/4" = 1.9314; 7 7/8" = 1.9939; 8" = 2.0574; 8 1/8" = 2.1219; 8 1/4" = 2.1874; 8 3/8" = 2.2539; 8 1/2" = 2.3214; 8 5/8" = 2.3899; 8 3/4" = 2.4594; 8 7/8" = 2.5299; 9" = 2.6014; 9 1/8" = 2.6739; 9 1/4" = 2.7474; 9 3/8" = 2.8219; 9 1/2" = 2.8974; 9 5/8" = 2.9739; 9 3/4" = 3.0514; 9 7/8" = 3.1299; 10" = 3.2094; 10 1/8" = 3.2899; 10 1/4" = 3.3714; 10 3/8" = 3.4539; 10 1/2" = 3.5374; 10 5/8" = 3.6219; 10 3/4" = 3.7074; 10 7/8" = 3.7939; 11" = 3.8814; 11 1/8" = 3.9699; 11 1/4" = 4.0594; 11 3/8" = 4.1499; 11 1/2" = 4.2414; 11 5/8" = 4.3339; 11 3/4" = 4.4274; 11 7/8" = 4.5219; 12" = 4.6174; 12 1/8" = 4.7139; 12 1/4" = 4.8114; 12 3/8" = 4.9099; 12 1/2" = 5.0094; 12 5/8" = 5.1099; 12 3/4" = 5.2114; 12 7/8" = 5.3139; 13" = 5.4174; 13 1/8" = 5.5219; 13 1/4" = 5.6274; 13 3/8" = 5.7339; 13 1/2" = 5.8414; 13 5/8" = 5.9499; 13 3/4" = 6.0594; 13 7/8" = 6.1699; 14" = 6.2814; 14 1/8" = 6.3939; 14 1/4" = 6.5074; 14 3/8" = 6.6219; 14 1/2" = 6.7374; 14 5/8" = 6.8539; 14 3/4" = 6.9714; 14 7/8" = 7.0899; 15" = 7.2094; 15 1/8" = 7.3299; 15 1/4" = 7.4514; 15 3/8" = 7.5739; 15 1/2" = 7.6974; 15 5/8" = 7.8219; 15 3/4" = 7.9474; 15 7/8" = 8.0739; 16" = 8.2014; 16 1/8" = 8.3299; 16 1/4" = 8.4594; 16 3/8" = 8.5899; 16 1/2" = 8.7214; 16 5/8" = 8.8539; 16 3/4" = 8.9874; 16 7/8" = 9.1219; 17" = 9.2574; 17 1/8" = 9.3939; 17 1/4" = 9.5314; 17 3/8" = 9.6699; 17 1/2" = 9.8094; 17 5/8" = 9.9499; 17 3/4" = 10.0914; 17 7/8" = 10.2339; 18" = 10.3774; 18 1/8" = 10.5219; 18 1/4" = 10.6674; 18 3/8" = 10.8139; 18 1/2" = 10.9614; 18 5/8" = 11.1099; 18 3/4" = 11.2594; 18 7/8" = 11.4099; 19" = 11.5614; 19 1/8" = 11.7139; 19 1/4" = 11.8674; 19 3/8" = 12.0219; 19 1/2" = 12.1774; 19 5/8" = 12.3339; 19 3/4" = 12.4914; 19 7/8" = 12.6499; 20" = 12.8094; 20 1/8" = 12.9699; 20 1/4" = 13.1314; 20 3/8" = 13.2939; 20 1/2" = 13.4574; 20 5/8" = 13.6219; 20 3/4" = 13.7874; 20 7/8" = 13.9539; 21" = 14.1214; 21 1/8" = 14.2899; 21 1/4" = 14.4594; 21 3/8" = 14.6299; 21 1/2" = 14.8014; 21 5/8" = 14.9739; 21 3/4" = 15.1474; 21 7/8" = 15.3219; 22" = 15.4974; 22 1/8" = 15.6739; 22 1/4" = 15.8514; 22 3/8" = 16.0299; 22 1/2" = 16.2094; 22 5/8" = 16.3899; 22 3/4" = 16.5714; 22 7/8" = 16.7539; 23" = 16.9374; 23 1/8" = 17.1219; 23 1/4" = 17.3074; 23 3/8" = 17.4939; 23 1/2" = 17.6814; 23 5/8" = 17.8699; 23 3/4" = 18.0594; 23 7/8" = 18.2499; 24" = 18.4414; 24 1/8" = 18.6339; 24 1/4" = 18.8274; 24 3/8" = 19.0219; 24 1/2" = 19.2174; 24 5/8" = 19.4139; 24 3/4" = 19.6114; 24 7/8" = 19.8099; 25" = 20.0094; 25 1/8" = 20.2099; 25 1/4" = 20.4114; 25 3/8" = 20.6139; 25 1/2" = 20.8174; 25 5/8" = 21.0219; 25 3/4" = 21.2274; 25 7/8" = 21.4339; 26" = 21.6414; 26 1/8" = 21.8499; 26 1/4" = 22.0594; 26 3/8" = 22.2699; 26 1/2" = 22.4814; 26 5/8" = 22.6939; 26 3/4" = 22.9074; 26 7/8" = 23.1219; 27" = 23.3374; 27 1/8" = 23.5539; 27 1/4" = 23.7714; 27 3/8" = 23.9899; 27 1/2" = 24.2094; 27 5/8" = 24.4299; 27 3/4" = 24.6514; 27 7/8" = 24.8739; 28" = 25.0974; 28 1/8" = 25.3219; 28 1/4" = 25.5474; 28 3/8" = 25.7739; 28 1/2" = 25.9994; 28 5/8" = 26.2259; 28 3/4" = 26.4534; 28 7/8" = 26.6819; 29" = 26.9114; 29 1/8" = 27.1439; 29 1/4" = 27.3774; 29 3/8" = 27.6119; 29 1/2" = 27.8474; 29 5/8" = 28.0839; 29 3/4" = 28.3214; 29 7/8" = 28.5599; 30" = 28.8014; 30 1/8" = 29.0439; 30 1/4" = 29.2874; 30 3/8" = 29.5319; 30 1/2" = 29.7774; 30 5/8

REMARKS:

2 cpm $\frac{15}{15}$ 65 psi

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; S = Sailer; 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:** $\pm 0.2^{\circ}\text{C}$ **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

Revision Date: February 12, 2009

PAGE: 1 of 1

PURGING DATA				
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 96 feet to 116 feet	STATIC DEPTH TO WATER (feet): 103.04	PURGE PUMP TYPE OR BAILER: BD
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
(only fill out if applicable) 12.96 = (116.0 feet - 103.04 feet) X .16 gallons/foot = 2.07 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
(only fill out if applicable)				

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; 5" = 1.02; 6" = 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" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

REMARKS:

Revision Date: February 12, 2009

58711

PAGE: 6 of

PURGING DATA

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; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
M-20	1	PIE	500	UNP	0	6.0	TDS	BP	360
↓	1	↓	250	HNO3	0	2.0	6020/720A	↓	↓
↓	1	↓	250	H2SO4	0	2.0	350.1	↓	↓
↓	2	↓	125	UNP	0	6.0	Cl, 253.2	↓	↓
↓	1	↓	125	H2SO4	0	2.0	253.2	↓	↓
↓	6	CG	40	HCl	0	—	8260/8011	↓	4120

cpm @ $15/15$ 60 pss

Revision Date: February 12, 2009

PAGE: 1 of 1

PURGING DATA

SAMPLING DATA

Revision Date: February 12, 2009

TESTAMERICA ORLANDO FIELD SAMPLING LOG --
DEP-SOP-001/01- Form FD 9000-24 GROUNDWATER SAMPLING

Meter #'s: M-1 / T-3

PAGE: 1 of 1

SITE NAME: <u>Citrus County Landfill</u>		SITE LOCATION: <u>Lecanto, FL</u>	
WELL NO: <u>MW-3</u>	SAMPLE ID: <u>MW-3</u>	DATE: <u>1-22-14</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>113.45</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <u>5.57</u> = <u>119.0</u> feet - <u>113.45</u> feet X <u>.16</u> gallons/foot = <u>.90</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):				
115		115		1305		1327		1.5				
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)	COLOR describe	ODOR	ORP
1319	.90	.90	.06	water	4.99	19.6	45	4.21	.43	clear	NO	-
1323	.24	1.14	.06	level	4.83	19.5	44	3.99	.82	↓	↓	=
1327	.24	1.38	.06	below	4.86	19.5	44	3.48	.55	↓	↓	=
				Top of pump								

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; 5" = 1.02; 6" = 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" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Shawn Victory / Test America</u>		SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>		SAMPLING INITIATED AT: <u>1327</u>	SAMPLING ENDED AT: <u>1340</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>115</u>		TUBING MATERIAL CODE: <u>PE</u>		FIELD-FILTERED: Y ☒ (N)	FILTER SIZE: <u> </u> μm
FIELD DECONTAMINATION: PUMP Y ☒ (N)		TUBING Y ☒ (N) (replaced)		DUPLICATE: Y ☒ (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml. per minute)
SAMPL E ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL. ADDED IN FIELD (ml)	FINAL pH			
<u>MW-3</u>	<u>1</u>	<u>PE</u>	<u>500</u>	<u>UMP</u>	<u>0</u>	<u>4.5</u>	<u>TDS</u>	<u>BP</u>	<u>240</u>
	<u>1</u>	<u>↓</u>	<u>250</u>	<u>H2SO4</u>	<u>↓</u>	<u>4.0</u>	<u>6020/7470A</u>	<u>↓</u>	<u>↓</u>
	<u>2</u>	<u>↓</u>	<u>250</u>	<u>H2SO4</u>	<u>↓</u>	<u>2.0</u>	<u>350.1</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>↓</u>	<u>125</u>	<u>UMP</u>	<u>↓</u>	<u>4.8</u>	<u>cl, 353.2</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>↓</u>	<u>125</u>	<u>H2SO4</u>	<u>↓</u>	<u>2.0</u>	<u>353.2</u>	<u>↓</u>	<u>↓</u>
	<u>6</u>	<u>CG</u>	<u>40</u>	<u>HCl</u>	<u>↓</u>	<u>8260/8011</u>	<u>↓</u>	<u>↓</u>	<u>2120</u>

REMARKS: 1 cpm 30/ 130 Bopsi

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 = Bailor; 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)
123 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

TESTAMERICA ORLANDO FIELD SAMPLING
DEP-SOP-001/01- Form FD 9000-24 GROUNDWATER SAMPLING

Meter #'s: M-1 / T-3

PAGE: 1 of 1

SITE NAME: Citrus County Landfill SITE LOCATION: Levento, FL DATE: 1-22-14
WELL NO: MW-15 SAMPLE ID: MW-15

PURGING DATA

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 1/4 WELL SCREEN INTERVAL DEPTH: 10 feet to 120 feet STATIC DEPTH TO WATER (feet): 117.70 PURGE PUMP TYPE OR BAILER: ESP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 11.90 = 129.60 feet - 117.70 feet X .16 gallons/foot = 1.90 gallons
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = gallons + (gallons/foot X 112.1 feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 124 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 124 PURGING INITIATED AT: 1733 PURGING ENDED AT: 1810 TOTAL VOLUME PURGED (gallons): 7.0

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 (S/cm)	DISSOLVED OXYGEN (circle units) % or % saturation	TURBIDITY (NTUs)	COLOR describe	ODOR	ORP
1740	1.90	1.90	.23	118.41	5.09	24.8	50	.42	235	Cloudy	NO	-
1743	.69	2.59	.23	118.41	5.10	26.2	50	.30	86.7			-
1746	.69	3.28	.23	118.41	5.10	26.4	49	.27	54.4			-
1750	.60	3.88	.15	118.41	5.10	26.3	50	.26	33.7			-
1754	.60	4.48	.15	118.41	5.10	26.4	49	.22	18.2	Clear		-
1758	.60	5.08	.15	118.41	5.10	26.5	49	.21	13.1			-
1802	.60	5.68	.15	118.41	5.10	26.6	49	.20	9.40			-
1806	.60	6.28	.15	118.41	5.09	26.7	49	.19	7.38			-
1810	.60	6.88	.15	118.41	5.09	26.7	48	.19	4.33			-

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; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 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: Shawn Victory / Test America SAMPLER SIGNATURE(S): [Signature] SAMPLING INITIATED AT: 1816 SAMPLING ENDED AT: 1820
PUMP OR TUBING DEPTH IN WELL (feet): 124 TUBING MATERIAL CODE: PE FIELD-FILTERED: Y (N) FILTER SIZE: 0 µm
FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
MW-15	1	PE	300	UMP	0	5.0	TD5	BP ESP	920
			250	HNO3	0	2.0	6000/7470A		
	1		250	H2SO4	0	2.0	350.1		
	2		125	UMP	0	5.0	CL 353.2		
	1		125	H2SO4	0	2.0	353.2		
	6	CG	40	HCl	0	-	8260/8011		2120

REMARKS: Client removed faulty bladder pump enabling us to sample well with electric submersible pump

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; 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

TESTAMERICA ORLANDO FIELD SAMPLING LOG -
DEP-SOP-001/01- Form FD 9000-24 GROUNDWATER SAMPLING

Meter #s: M-1 / T-3

PAGE: 1 of 1

SITE NAME: <u>Citrus County Landfill</u>	SITE LOCATION: <u>Levento, FL</u>
WELL NO: <u>MW-12</u>	SAMPLE ID: <u>MW-12</u> DATE: <u>1-22-14</u>

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>90</u> feet to <u>110</u> feet	STATIC DEPTH TO WATER (feet): <u>97.80</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <u>12.20</u> = <u>110.0</u> feet - <u>97.80</u> feet X <u>.16</u> gallons/foot = <u>1.95</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 104				FINAL PUMP OR TUBING DEPTH IN WELL (feet): 104				PURGING INITIATED AT: 1835		PURGING ENDED AT: 1923		TOTAL VOLUME PURGED (gallons): 8.0	
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 µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR describe	ODOR	ORP	
1846	1.95	1.95	.18	97.93	6.92	24.9	451	1.28	347	cloudy	NO	-	
1849	.54	2.49	.18	97.93	6.93	25.6	452	1.28	107	↓	↓	-	
1852	.54	3.03	.18	97.94	6.94	26.0	453	.30	81	↓	↓	-	
1856	.60	3.63	.15	97.94	6.94	26.2	454	.28	58	↓	↓	-	
1900	.60	4.23	.15	97.94	6.94	26.5	455	.28	42	↓	↓	-	
1905	.75	4.98	.15	97.94	6.94	26.7	456	.28	32	↓	↓	-	
1910	.75	5.73	.15	97.94	6.94	26.8	456	.25	21	Clear	↓	-	
1915	.75	6.48	.15	97.94	6.93	27.0	457	.24	15	↓	↓	-	
1920	.75	7.23	.15	97.94	6.93	27.1	458	.23	9.50	↓	↓	-	
1923	.75	7.98	.15	97.94	6.93	27.1	457	.24	4.71	↓	↓	-	

WELL CAPACITY (Gallons Per Foot): .75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.66; 5" = 1.02; 6" = 1.47; 12" = 6.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 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: <u>Shawn Victory / Test America</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1923</u>	SAMPLING ENDED AT: <u>1928</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>104</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y ☐ N ☒	FILTER SIZE: <u> </u> µm
FIELD DECONTAMINATION: PUMP Y ☒ TUBING Y ☒ (replaced)	DUPLICATE: Y ☒		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPL E ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-12	1	PE	100	UMP	0	6.9	TDS	BP	600
1	1	1	250	HNO3	↓	2.0	6020/1470A	↓	↓
1	2	↓	250	H2SO4	↓	2.0	350.1	↓	↓
1	1	↓	125	UMP	↓	6.9	01, 353.2	↓	↓
1	1	↓	125	H2SO4	↓	2.0	353.2	↓	↓
1	6	CG	40	HCl	↓	-	8260/5011	↓	120

REMARKS:

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; 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

SITE NAME: Citrus County Landfill		SITE LOCATION: Lecanto Fla.	
WELL NO: MW-13	SAMPLE ID: MW-13	DATE: 1-22-14	

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 106.30	PURGE PUMP TYPE OR BAILER: BP
Measuring Point Elevation (ft/msl) MP Elevation =		- Water Level = Water Level Elevation		

$$(13.20) = (119.50 \text{ feet} - 106.30 \text{ feet}) \times .16 \text{ gallons/foot} = 2.11$$
$$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 117'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 117'	PURGING INITIATED AT: 1255	PURGING ENDED AT: 1336	TOTAL VOLUME PURGED (gallons): 3.28
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[illegible]

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; 5" = 1.02; 6" = 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" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: <i>Sam Esser</i>				SAMPLER(S) SIGNATURE(S): <i>Sam Esser</i>			SAMPLING INITIATED AT: 1338		SAMPLING ENDED AT: 1348	
PUMP OR TUBING DEPTH IN WELL (feet): 117'				TUBING MATERIAL CODE: PE		FIELD-FILTERED: Y (N)		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)		DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW.13	1	PE	500	unp	8	5.15	TDS		BP	320
↓	2	PE	250/125	H2SO4	↓	<2	3501/333.2		↓	320
↓	1	PE	250	HNO3	↓	<2	6020/7470		↓	320
↓	2	PE	125	unp	↓	5.15	353.2/C1		↓	320
↓	3	CG	40	HCl	↓	<2	804		↓	<120
↓	3	CG	40	unp	↓	5.15	8260B		↓	<120

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 = Bailor; 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: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2\text{ mg/L}$ or $\pm 10\%$ (whichever is greater) Turbidity: all readings $< 20\text{ NTU}$; optionally $+ 5\text{ NTU}$ or $+ 10\%$ (whichever is greater)

PAGE: 1 of 1

2/6/2014

PAGE: 1 of 1

PURGING DATA

[illegible]

PURGING EQUIPMENT CODES: B = Bailer, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: <i>Shawn Victor / Test America</i>		SAMPLE(S) SIGNATURE(S): <i>Shawn Victor</i>		SAMPLING INITIATED AT: <i>1557</i>	SAMPLING ENDED AT: <i>1559</i>
PUMP OR TUBING DEPTH IN WELL (feet): <i>117</i>		TUBING MATERIAL CODE: <i>PE</i>		FIELD-FILTERED: Y ☒ N ☐	FILTER SIZE: _____ μ m
FIELD DECONTAMINATION: PUMP Y ☒ N ☐		TUBING Y ☒ N (replaced) ☐		DUPLICATE: Y ☐ N ☒	

REMARKS:

SAMPLING EQUIPMENT CODES: APP = After 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)

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

Revision Date: February 12, 2009

58670

PAGE: 1 of 1

PURGING DATA

[illegible]

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: Steve Vickrey, Fort Amson			SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: 1450		SAMPLING ENDED AT: 1455		
PUMP OR TUBING DEPTH IN WELL (feet):			TUBING MATERIAL CODE: PE			FIELD-FILTERED: Y N		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION:			PUMP Y N			TUBING Y N (replaced)			DUPLICATE: Y N	

[illegible]

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; 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: $\pm 0.2^{\circ}\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ 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 $\pm 10\%$ (whichever is greater)

2/6/2014

Field Calibration Logbook

Name: Citrus County Landfill Date: 1-22-14 Instrument #: M-1/T-3 Make/Model: YSI 556 / Hach 1120

pH:

	pH Buffer	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)	Temp. (°C)
Initial	7.00	130534	1/15	715	7.04	NO	CCV	14.4
	4.00	126018	6/14	717	4.62	+	+	14.4
	10.00							
Post	7.00	130534	1/15	908	7.05	NO	CCV	12.1
	4.00	126018	6/14	910	4.04	+	+	12.3
	10.00							

CONDUCTIVITY STANDARD:

	Conductivity (uS/cm)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	100	430539	5/14	720	10.3	NO	CCV
	1000						
	10000						
Post	100	430539	5/14	911	10.4	NO	CCV
	1000						
	10000						

DISSOLVED OXYGEN: (Reference Table FS2200-2)*

Temperature Probe Annual Calibration: Date:

NIST Therm. ID#:

	Temp. (°C)	DO*(mg/L)	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	5.37	12.61	7:22	5.39/12.57	YES	ICV
Post	16.5	9.97	9:04	15.5/9.81	NO	CCV

ORP: (Reference Table 6.2 Zobell Solution Values)*

	ORP (milliVolts)*	Lot #	Exp. Date	Time	Temp. (°C)	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	244.5	2305373	2/14	723	13.0	242.2	NO	CCV
Post	244.5	2305373	2/14	917	13.0	242.1	NO	CCV

TURBIDITY:

	Turbidity (NTU)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	6.32	A230	2/14	725	6.47	NO	CCV
	57.9	+	+	+	52.4	+	+
	520				524		
Post	6.32	A230	2/14	918	6.50	NO	CCV
	57.9	+	+	+	52.4	+	+
	520				527		

Acceptance Criteria: 1-10 NTU=10%, 11-40 NTU=8%, 41-100 NTU=6.5%, >100 NTU=5%

Calibrated only in Calibrate Mode

ICV- Initial Calibration Verification (perform only in Run Mode)

CCV- Continuing Calibration Verification (perform only in Run Mode)

Signature: [Signature]

Signature: _____

Date: 1-22-14

Date: _____

Field Calibration Logbook

Name: Citrus County Landfill Date: 1-21-14 Instrument #: M-2/T-3 Make/Model: YSI 556 / High 2100P

pH:

	pH Buffer	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)	Temp. (°C)
Initial	7.00	130534	1-15	0817	7.00	Y	CCV	14.5
	4.00	126018	9-14	0819	4.01	Y	CCV	14.5
	10.00							
Post	7.00	130534	1/15	1540	7.02	NO	CCV	14.3
	4.00	126018	9/14	1542	4.02	Y	CCV	14.3
	10.00							

CONDUCTIVITY STANDARD:

	Conductivity (uS/cm)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	100	430539	5-14	0825	102	Y	CCV
	1000						
	10000						
Post	100	430539	5/14	1545	103	NO	CCV
	1000						
	10000						

DISSOLVED OXYGEN: (Reference Table FS2200-2)*

Temperature Probe Annual Calibration: Date:

NIST Therm. ID#:

	Temp. (°C)	DO*(mg/L)	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	14.9	9.685	0829	16.7/9.71	Y	CCV
Post	17.3	9.60	1547	17.3/9.74	NO	CCV

ORP: (Reference Table 6.2 Zobell Solution Values)*

	ORP (millivolts)*	Lot #	Exp. Date	Time	Temp. (°C)	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial								
Post								

TURBIDITY:

	Turbidity (NTU)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	6.32	A230	7/24	573	6.45	NO	CCV
	51.9	f	f	f	52.1	Y	f
	520	f	f	f	524		
Post	6.32	A230	12/14	1550	6.47	NO	CCV
	51.9	f	f	f	524	Y	f
	520				524		

Acceptance Criteria: 1-10 NTU=10%, 11-40 NTU=8%, 41-100 NTU=6.5%, >100 NTU=5%

Calibrated only in Calibrate Mode

ICV- Initial Calibration Verification (perform only in Run Mode)

CCV- Continuing Calibration Verification (perform only in Run Mode)

Signature: [Signature]

Signature: _____

Date: 1/21/14

Date: _____

PAGE: 1 of 1

PURGING DATA

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; 5" = 1.02; 6" = 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" = 0.006; 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)

REMARKS:	
CPW-2 15/15 65 ps!	
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; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Revision Date: February 12, 2009

Field Calibration Logbook

Name: Citrus County Landfill Date: 1-22-14 Instrument #: M-1 / T-3 Make/Model: YSI 586 / Hach 1100

pH:

	pH Buffer	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)	Temp. (°C)
Initial	7.00	130534	1/5	715	7.04	NO	CCV	14.4
	4.00	126018	6/14	717	4.62	+	+	14.4
	10.00							
Post	7.00	130534	1/5	908	7.05	NO	CCV	12.1
	4.00	126018	6/14	910	4.04	+	+	12.3
	10.00							

CONDUCTIVITY STANDARD:

	Conductivity (uS/cm)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	100	430539	5/14	720	103	NO	CCV
	1000						
	10000						
Post	100	430539	5/14	911	104	NO	CCV
	1000						
	10000						

DISSOLVED OXYGEN: (Reference Table FS2200-2)*

Temperature Probe Annual Calibration: Date:

NIST Therm. ID#:

	Temp. (°C)	DO* (mg/L)	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	5.37	12.61	702	5.39/12.57	YES	ICV
Post	16.5	9.97	904	15.5/9.81	NO	CCV

ORP: (Reference Table 6.2 Zobell Solution Values)*

	ORP (milliVolts)*	Lot #	Exp. Date	Time	Temp. (°C)	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	244.5	2305373	2/14	723	13.0	242.2	NO	CCV
Post	244.5	2305373	2/14	917	13.0	242.1	NO	CCV

TURBIDITY:

	Turbidity (NTU)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	6.32	A230	2/14	725	6.47	NO	CCV
	57.9	+	+	+	52.4	+	+
	520				524		
Post	6.32	A230	2/14	918	6.50	NO	CCV
	57.9	+	+	+	52.4	+	+
	520				527		

Acceptance Criteria: 1-10 NTU=10%, 11-40 NTU=8%, 41-100 NTU=6.5%, >100 NTU=5%

Calibrated only in Calibrate Mode

ICV- Initial Calibration Verification (perform only in Run Mode)

CCV- Continuing Calibration Verification (perform only in Run Mode)

Signature: [Signature]

Signature: _____

Date: 1-22-14

Date: _____

Field Calibration Logbook

Name: Citrus County Landfill Date: 1-21-14 Instrument #: 17-217-3 Make/Model: YSI 556 / Hach 210UP

pH:

	pH Buffer	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)	Temp. (°C)
Initial	7.00	130534	1-15	0817	7.00	Y	CCV	14.5
	4.00	126018	9-14	0819	4.01	Y	CCV	14.5
	10.00							
Post	7.00	130534	1/15	1540	7.02	NO	CCV	14.3
	4.00	126018	9/14	1542	4.02	Y	CCV	14.3
	10.00							

CONDUCTIVITY STANDARD:

	Conductivity (uS/cm)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	100	430539	5-14	0825	102	Y	CCV
	1000						
	10000						
Post	100	430539	5/14	1545	103	NO	CCV
	1000						
	10000						

DISSOLVED OXYGEN: (Reference Table FS2200-2)*

Temperature Probe Annual Calibration: Date:

NIST Therm. ID#:

	Temp. (°C)	DO* (mg/L)	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	16.9	9.685	0829	16.7/9.71	Y	CCV
Post	17.3	9.60	1547	17.3/9.74	NO	CCV

ORP: (Reference Table 6.2 Zobell Solution Values)*

	ORP (milliVolts)*	Lot #	Exp. Date	Time	Temp. (°C)	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial								
Post								

TURBIDITY:

	Turbidity (NTU)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	6.32	A230	2/14	8:33	6.45	NO	CCV
	51.9	g	g	g	52.1	g	g
	520	g	g	g	524	g	g
Post	6.32	A230	12/14	15:50	6.47	NO	CCV
	51.9	g	g	g	524	g	g
	520	g	g	g	524	g	g

Acceptance Criteria: 1-10 NTU=10%, 11-40 NTU=8%, 41-100 NTU=5.5%, >100 NTU=5%

Calibrated only in Calibrate Mode

ICV- Initial Calibration Verification (perform only in Run Mode)

CCV- Continuing Calibration Verification (perform only in Run Mode)

Signature: [Signature]

Signature: _____

Date: 1/21/14

Date: _____

Section 9

Laboratory and Field EDDs and Error Logs (ADaPT Report)

Portable document files (PDFs) of the laboratory reports are included in this section. The laboratory electronic data deliverable (EDD), the laboratory EDD error log, and the field EDD for use with FDEP's ADaPT software are provided separately.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

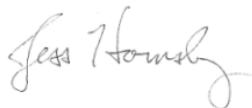
TestAmerica Job ID: 660-58669-1

Client Project/Site: Citrus County LF Semi-Annual (Jan. 2014)
Revision: 1

For:

CDM Smith, Inc.
1715 North Westshore Blvd.
Suite 875
Tampa, Florida 33607

Attn: Mr. Nathan Schmaus



Authorized for release by:
2/6/2014 12:22:25 PM

Jess Hornsby, Project Manager I
(813)885-7427
jess.hornsby@testamericainc.com

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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.

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	14
Surrogate Summary	54
QC Sample Results	57
QC Association Summary	82
Lab Chronicle	89
Method Summary	95
Certification Summary	96
Chain of Custody	98
Field Data Sheets	102
Receipt Checklists	119



Sample Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-58669-1	MW-10	Ground Water	01/21/14 11:45	01/22/14 08:00
660-58669-2	MW-21	Ground Water	01/21/14 14:45	01/22/14 08:00
660-58669-3	MW-17	Ground Water	01/21/14 16:22	01/22/14 08:00
660-58669-4	MW-14	Ground Water	01/21/14 17:08	01/22/14 08:00
660-58670-1	Field Blank	Water	01/21/14 14:55	01/22/14 08:00
660-58711-1	MW-20	Ground Water	01/22/14 08:25	01/23/14 08:00
660-58711-3	MW-7	Ground Water	01/22/14 11:25	01/23/14 08:00
660-58711-4	MW-3	Ground Water	01/22/14 13:40	01/23/14 08:00
660-58711-5	MW-15	Ground Water	01/22/14 18:20	01/23/14 08:00
660-58711-6	MW-12	Ground Water	01/22/14 19:28	01/23/14 08:00
660-58711-7	MW-13	Ground Water	01/22/14 13:48	01/23/14 08:00
660-58711-8	MW-11	Ground Water	01/22/14 15:30	01/23/14 08:00
660-58711-10	MW-18	Ground Water	01/22/14 14:50	01/23/14 08:00
660-58711-11	MW-19	Ground Water	01/22/14 15:59	01/23/14 08:00
660-58711-12	Trip Blank	Water	01/22/14 00:00	01/23/14 08:00

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Metals

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
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
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

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
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: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Job ID: 660-58669-1

Laboratory: TestAmerica Tampa

Narrative

Comments

This report was revised on February 6, 2014 to remove data for MW-6, and incorporate into a separate report.

Receipt

The samples were received on 1/22/2014 8:00 AM and 1/23/2014 8:00 AM; the samples arrived in good condition, properly preserved and on ice. The temperatures of the four coolers at receipt time were 2.1°C, 2.7°C, 4.7°C and 4.7°C.

GC/MS VOA

Method 8260B: The matrix spike (MS) recoveries for batch 145468 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike (MS) recoveries for batch 145542 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 524.2: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 313499.

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-312735 were outside control limits for barium and sodium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6020: Due to the high concentration of sodium the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-312897 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-312897 were outside control limits for iron. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No other analytical or quality issues were noted.

General Chemistry

Method 300.0: The following sample was diluted due to color and appearance: MW-20 (660-58711-1). Elevated reporting limits (RL) are provided.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 313380 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No other analytical or quality issues were noted.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-10

Lab Sample ID: 660-58669-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0	0.52	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	7.8		1.0	0.52	ug/L	1		8260B	Total/NA
Benzene	1.2		1.0	0.50	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.4		1.0	0.65	ug/L	1		8260B	Total/NA
Vinyl chloride	1.5		1.0	0.50	ug/L	1		8260B	Total/NA
Xylenes, Total	2.1	I	3.0	0.50	ug/L	1		8260B	Total/NA
Chloride	6.3		0.50	0.25	mg/L	1		300.0	Total/NA
Arsenic	1.9	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	83		5.0	1.3	ug/L	1		6020	Total Recoverable
Cadmium	0.31	I	0.50	0.095	ug/L	1		6020	Total Recoverable
Chromium	6.3		5.0	2.5	ug/L	1		6020	Total Recoverable
Cobalt	0.46	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	5300		100	33	ug/L	1		6020	Total Recoverable
Lead	2.9		1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	2.7	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Silver	0.36	I	1.0	0.25	ug/L	1		6020	Total Recoverable
Sodium	5.0		0.50	0.25	mg/L	1		6020	Total Recoverable
Arsenic	1.7	I	2.5	1.3	ug/L	1		6020	Dissolved
Barium	2.9	I	5.0	1.3	ug/L	1		6020	Dissolved
Cobalt	0.41	I	0.50	0.15	ug/L	1		6020	Dissolved
Iron	4800		100	33	ug/L	1		6020	Dissolved
Sodium	4.8		0.50	0.25	mg/L	1		6020	Dissolved
Total Dissolved Solids	34		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	4.59				SU	1		Field Sampling	Total/NA
Field Temperature	22.6				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.31				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	46				umhos/cm	1		Field Sampling	Total/NA
Turbidity	23.4				NTU	1		Field Sampling	Total/NA
Water Level	106.70				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 660-58669-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	13	J3	1.0	0.52	ug/L	1		8260B	Total/NA
Benzene	1.3		1.0	0.50	ug/L	1		8260B	Total/NA
Chlorobenzene	1.5		1.0	0.63	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.2		1.0	0.65	ug/L	1		8260B	Total/NA
Ethylbenzene	0.69	I	1.0	0.44	ug/L	1		8260B	Total/NA
Vinyl chloride	0.68	I	1.0	0.50	ug/L	1		8260B	Total/NA
Chloride	4.7		0.50	0.25	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-21 (Continued)

Lab Sample ID: 660-58669-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		2.5	1.3	ug/L	1		6020	Total
Barium	47		5.0	1.3	ug/L	1		6020	Recoverable
Chromium	6.3		5.0	2.5	ug/L	1		6020	Total
Cobalt	0.54		0.50	0.15	ug/L	1		6020	Recoverable
Copper	1.2	I	5.0	1.1	ug/L	1		6020	Total
Iron	1600		100	33	ug/L	1		6020	Recoverable
Lead	2.1		1.5	0.20	ug/L	1		6020	Total
Sodium	2.0		0.50	0.25	mg/L	1		6020	Recoverable
Vanadium	4.2	I	10	3.8	ug/L	1		6020	Total
Arsenic	3.4		2.5	1.3	ug/L	1		6020	Recoverable
Cobalt	0.44	I	0.50	0.15	ug/L	1		6020	Dissolved
Iron	1000		100	33	ug/L	1		6020	Dissolved
Sodium	2.1		0.50	0.25	mg/L	1		6020	Dissolved
Ammonia	1.7		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	56		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	4.74				SU	1		Field Sampling	Total/NA
Field Temperature	22.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.34				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	75				umhos/cm	1		Field Sampling	Total/NA
Turbidity	37.9				NTU	1		Field Sampling	Total/NA
Water Level	108.93				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 660-58669-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.97	I	1.0	0.52	ug/L	1		8260B	Total/NA
Chloride	4.1		0.50	0.25	mg/L	1		300.0	Total/NA
Arsenic	4.0		2.5	1.3	ug/L	1		6020	Total
Barium	7.0		5.0	1.3	ug/L	1		6020	Recoverable
Cobalt	4.7		0.50	0.15	ug/L	1		6020	Total
Iron	11000		100	33	ug/L	1		6020	Recoverable
Sodium	2.4		0.50	0.25	mg/L	1		6020	Total
Ammonia	0.53		0.050	0.026	mg/L	1		350.1	Recoverable
Total Dissolved Solids	44		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	5.30				SU	1		Field Sampling	Total/NA
Field Temperature	23.3				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.21				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-17 (Continued)

Lab Sample ID: 660-58669-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sheen	No				SU		1		Field Sampling	Total/NA
Specific Conductance	76				umhos/cm		1		Field Sampling	Total/NA
Turbidity	4.00				NTU		1		Field Sampling	Total/NA
Water Level	105.18				ft		1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 660-58669-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	3.5		0.50	0.25	mg/L		1		300.0	Total/NA
Barium	14		5.0	1.3	ug/L		1		6020	Total Recoverable
Cadmium	0.33	I	0.50	0.095	ug/L		1		6020	Total Recoverable
Cobalt	1.1		0.50	0.15	ug/L		1		6020	Total Recoverable
Iron	150		100	33	ug/L		1		6020	Total Recoverable
Sodium	2.9		0.50	0.25	mg/L		1		6020	Total Recoverable
Mercury	0.11	I	0.20	0.091	ug/L		1		7470A	Total/NA
Ammonia	0.034	I	0.050	0.026	mg/L		1		350.1	Total/NA
Total Dissolved Solids	280		10	10	mg/L		1		SM 2540C	Total/NA
Color	Clear				Color Units		1		Field Sampling	Total/NA
Field pH	6.91				SU		1		Field Sampling	Total/NA
Field Temperature	22.92				Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.10				mg/L		1		Field Sampling	Total/NA
Sheen	No				SU		1		Field Sampling	Total/NA
Specific Conductance	431				umhos/cm		1		Field Sampling	Total/NA
Turbidity	4.93				NTU		1		Field Sampling	Total/NA
Water Level	103.04				ft		1		Field Sampling	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 660-58670-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sodium	1.7		0.50	0.25	mg/L		1		6020A	Total Recoverable
Total Dissolved Solids	10		5.0	5.0	mg/L		1		SM 2540C	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 660-58711-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	30		10	5.0	mg/L		20		300.0	Total/NA
Arsenic	8.5		2.5	1.3	ug/L		1		6020	Total Recoverable
Barium	19		5.0	1.3	ug/L		1		6020	Total Recoverable
Cobalt	2.3		0.50	0.15	ug/L		1		6020	Total Recoverable
Iron	66000		100	33	ug/L		1		6020	Total Recoverable
Sodium	9.3		0.50	0.25	mg/L		1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-20 (Continued)

Lab Sample ID: 660-58711-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	19	I	20	8.3	ug/L	1		6020	Total Recoverable
Ammonia	0.74		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	160		10	10	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	5.94				SU	1		Field Sampling	Total/NA
Field Temperature	22.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	372				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.53				NTU	1		Field Sampling	Total/NA
Water Level	113.11				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 660-58711-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.6		1.0	0.52	ug/L	1		8260B	Total/NA
Benzene	1.1		1.0	0.50	ug/L	1		8260B	Total/NA
Chlorobenzene	0.91	I	1.0	0.63	ug/L	1		8260B	Total/NA
Ethylbenzene	2.7		1.0	0.44	ug/L	1		8260B	Total/NA
Xylenes, Total	1.0	I	3.0	0.50	ug/L	1		8260B	Total/NA
Chloride	4.8		0.50	0.25	mg/L	1		300.0	Total/NA
Arsenic	8.5		2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	17		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	1.0		0.50	0.15	ug/L	1		6020	Total Recoverable
Copper	2.0	I	5.0	1.1	ug/L	1		6020	Total Recoverable
Iron	1800		100	33	ug/L	1		6020	Total Recoverable
Lead	0.24	I	1.5	0.20	ug/L	1		6020	Total Recoverable
Nickel	7.5		5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	9.8		0.50	0.25	mg/L	1		6020	Total Recoverable
Zinc	22		20	8.3	ug/L	1		6020	Total Recoverable
Ammonia	0.039	I	0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	42		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	5.24				SU	1		Field Sampling	Total/NA
Field Temperature	22.8				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.14				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	81				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.11				NTU	1		Field Sampling	Total/NA
Water Level	121.67				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 660-58711-4

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-3 (Continued)

Lab Sample ID: 660-58711-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.6		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	16		5.0	1.3	ug/L	1		6020	Total
Cadmium	0.14	I	0.50	0.095	ug/L	1		6020	Recoverable
Cobalt	0.56		0.50	0.15	ug/L	1		6020	Total
Copper	28		5.0	1.1	ug/L	1		6020	Recoverable
Lead	3.3		1.5	0.20	ug/L	1		6020	Total
Nickel	3.8	I	5.0	2.0	ug/L	1		6020	Recoverable
Sodium	6.6		0.50	0.25	mg/L	1		6020	Total
Zinc	50		20	8.3	ug/L	1		6020	Recoverable
Nitrate as N	1.2		0.50	0.10	mg/L	1		353.2	Total/NA
Total Dissolved Solids	8.0		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	4.86				SU	1		Field Sampling	Total/NA
Field Temperature	19.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.48				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	44				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.55				NTU	1		Field Sampling	Total/NA
Water Level	113.45				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 660-58711-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0	0.65	ug/L	1		8260B	Total/NA
Trichloroethene	0.52	I	1.0	0.50	ug/L	1		8260B	Total/NA
Chloride	2.6		0.50	0.25	mg/L	1		300.0	Total/NA
Arsenic	3.9		2.5	1.3	ug/L	1		6020	Total
Barium	11		5.0	1.3	ug/L	1		6020	Recoverable
Chromium	3.7	I	5.0	2.5	ug/L	1		6020	Total
Cobalt	4.1		0.50	0.15	ug/L	1		6020	Recoverable
Iron	9800		100	33	ug/L	1		6020	Total
Lead	0.22	I	1.5	0.20	ug/L	1		6020	Recoverable
Nickel	5.4		5.0	2.0	ug/L	1		6020	Total
Sodium	2.1		0.50	0.25	mg/L	1		6020	Recoverable
Zinc	60		20	8.3	ug/L	1		6020	Total
Ammonia	0.10		0.050	0.026	mg/L	1		350.1	Recoverable
Total Dissolved Solids	12		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-15 (Continued)

Lab Sample ID: 660-58711-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.09				SU	1		Field Sampling	Total/NA
Field Temperature	26.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.19				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	48				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.33				NTU	1		Field Sampling	Total/NA
Water Level	117.70				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 660-58711-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.9		0.50	0.25	mg/L	1		300.0	Total/NA
Arsenic	2.1	I	2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	16		5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	0.26	I	0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	3300		100	33	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Ammonia	0.13		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	240		10	10	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	6.93				SU	1		Field Sampling	Total/NA
Field Temperature	27.1				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.24				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	457				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.71				NTU	1		Field Sampling	Total/NA
Water Level	97.80				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 660-58711-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	2.7		1.0	0.52	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.0		1.0	0.65	ug/L	1		8260B	Total/NA
Vinyl chloride	0.58	I	1.0	0.50	ug/L	1		8260B	Total/NA
Chloride	5.6		0.50	0.25	mg/L	1		300.0	Total/NA
Arsenic	4.4		2.5	1.3	ug/L	1		6020	Total Recoverable
Barium	2.4	I	5.0	1.3	ug/L	1		6020	Total Recoverable
Cobalt	6.9		0.50	0.15	ug/L	1		6020	Total Recoverable
Iron	3500		100	33	ug/L	1		6020	Total Recoverable
Nickel	3.1	I	5.0	2.0	ug/L	1		6020	Total Recoverable
Sodium	3.4		0.50	0.25	mg/L	1		6020	Total Recoverable
Ammonia	0.026	I	0.050	0.026	mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-13 (Continued)

Lab Sample ID: 660-58711-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	24		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	5.15				SU	1		Field Sampling	Total/NA
Field Temperature	22.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.41				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	80				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.84				NTU	1		Field Sampling	Total/NA
Water Level	106.30				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 660-58711-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.4		0.50	0.25	mg/L	1		300.0	Total/NA
Barium	23		5.0	1.3	ug/L	1		6020	Total Recoverable
Sodium	3.9		0.50	0.25	mg/L	1		6020	Total Recoverable
Thallium	1.0		1.0	0.50	ug/L	1		6020	Total Recoverable
Ammonia	0.036	I	0.050	0.026	mg/L	1		350.1	Total/NA
Nitrate as N	0.31	I	0.50	0.10	mg/L	1		353.2	Total/NA
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	21.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.57				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	485				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.88				NTU	1		Field Sampling	Total/NA
Water Level	99.24				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-18

Lab Sample ID: 660-58711-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Color	Cloudy				Color Units	1		Field Sampling	Total/NA
Field pH	4.95				SU	1		Field Sampling	Total/NA
Field Temperature	20.5				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.77				mg/L	1		Field Sampling	Total/NA
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	42				umhos/cm	1		Field Sampling	Total/NA
Turbidity	31.9				NTU	1		Field Sampling	Total/NA
Water Level	108.97				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 660-58711-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Color	Clear				Color Units	1		Field Sampling	Total/NA
Field pH	6.11				SU	1		Field Sampling	Total/NA
Field Temperature	22.7				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.81				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-19 (Continued)

Lab Sample ID: 660-58711-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sheen	No				SU	1		Field Sampling	Total/NA
Specific Conductance	74				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.91				NTU	1		Field Sampling	Total/NA
Water Level	106.81				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 660-58711-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-10

Date Collected: 01/21/14 11:45

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/23/14 09:22	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/23/14 09:22	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/23/14 09:22	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/23/14 09:22	1
1,1-Dichloroethane	1.2		1.0	0.52	ug/L			01/23/14 09:22	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/23/14 09:22	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/23/14 09:22	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/23/14 09:22	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/23/14 09:22	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/23/14 09:22	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/23/14 09:22	1
1,4-Dichlorobenzene	7.8		1.0	0.52	ug/L			01/23/14 09:22	1
2-Butanone	8.4	U	10	8.4	ug/L			01/23/14 09:22	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/23/14 09:22	1
Acetone	9.9	U	20	9.9	ug/L			01/23/14 09:22	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/23/14 09:22	1
Benzene	1.2		1.0	0.50	ug/L			01/23/14 09:22	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/23/14 09:22	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/23/14 09:22	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/23/14 09:22	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/23/14 09:22	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/23/14 09:22	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/23/14 09:22	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/23/14 09:22	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/23/14 09:22	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/23/14 09:22	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/23/14 09:22	1
cis-1,2-Dichloroethene	3.4		1.0	0.65	ug/L			01/23/14 09:22	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 09:22	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/23/14 09:22	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/23/14 09:22	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/23/14 09:22	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/23/14 09:22	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/23/14 09:22	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/23/14 09:22	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/23/14 09:22	1
Styrene	0.98	U	2.0	0.98	ug/L			01/23/14 09:22	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 09:22	1
Toluene	0.51	U	1.0	0.51	ug/L			01/23/14 09:22	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/23/14 09:22	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 09:22	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/23/14 09:22	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 09:22	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/23/14 09:22	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/23/14 09:22	1
Vinyl chloride	1.5		1.0	0.50	ug/L			01/23/14 09:22	1
Xylenes, Total	2.1	I	3.0	0.50	ug/L			01/23/14 09:22	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-10

Date Collected: 01/21/14 11:45

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-1

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		70 - 130		01/23/14 09:22	1
Dibromofluoromethane	103		70 - 130		01/23/14 09:22	1
Toluene-d8 (Surr)	90		70 - 130		01/23/14 09:22	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		01/30/14 15:28	01/30/14 19:11	1
1,2-Dibromo-3-Chloropropane	0.0053	U	0.021	0.0053	ug/L		01/30/14 15:28	01/30/14 19:11	1
1,2,3-Trichloropropane	0.096	U	0.21	0.096	ug/L		01/30/14 15:28	01/30/14 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	110		60 - 144	01/30/14 15:28	01/30/14 19:11	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.3		0.50	0.25	mg/L			02/03/14 15:19	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/23/14 13:52	01/25/14 00:28	1
Arsenic	1.9	I	2.5	1.3	ug/L		01/23/14 13:52	01/25/14 00:28	1
Barium	83		5.0	1.3	ug/L		01/23/14 13:52	01/25/14 00:28	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/23/14 13:52	01/25/14 00:28	1
Cadmium	0.31	I	0.50	0.095	ug/L		01/23/14 13:52	01/25/14 00:28	1
Chromium	6.3		5.0	2.5	ug/L		01/23/14 13:52	01/25/14 00:28	1
Cobalt	0.46	I	0.50	0.15	ug/L		01/23/14 13:52	01/25/14 00:28	1
Copper	1.1	U	5.0	1.1	ug/L		01/23/14 13:52	01/25/14 00:28	1
Iron	5300		100	33	ug/L		01/23/14 13:52	01/25/14 00:28	1
Lead	2.9		1.5	0.20	ug/L		01/23/14 13:52	01/25/14 00:28	1
Nickel	2.7	I	5.0	2.0	ug/L		01/23/14 13:52	01/25/14 00:28	1
Selenium	1.0	U	2.5	1.0	ug/L		01/23/14 13:52	01/25/14 00:28	1
Silver	0.36	I	1.0	0.25	ug/L		01/23/14 13:52	01/25/14 00:28	1
Sodium	5.0		0.50	0.25	mg/L		01/23/14 13:52	01/25/14 00:28	1
Thallium	0.50	U	1.0	0.50	ug/L		01/23/14 13:52	01/25/14 00:28	1
Vanadium	3.8	U	10	3.8	ug/L		01/23/14 13:52	01/25/14 00:28	1
Zinc	8.3	U	20	8.3	ug/L		01/23/14 13:52	01/25/14 00:28	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/23/14 13:52	01/25/14 01:16	1
Arsenic	1.7	I	2.5	1.3	ug/L		01/23/14 13:52	01/25/14 01:16	1
Barium	2.9	I	5.0	1.3	ug/L		01/23/14 13:52	01/25/14 01:16	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/23/14 13:52	01/25/14 01:16	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/23/14 13:52	01/25/14 01:16	1
Chromium	2.5	U	5.0	2.5	ug/L		01/23/14 13:52	01/25/14 01:16	1
Cobalt	0.41	I	0.50	0.15	ug/L		01/23/14 13:52	01/25/14 01:16	1
Copper	1.1	U	5.0	1.1	ug/L		01/23/14 13:52	01/25/14 01:16	1
Iron	4800		100	33	ug/L		01/23/14 13:52	01/25/14 01:16	1
Lead	0.20	U	1.5	0.20	ug/L		01/23/14 13:52	01/25/14 01:16	1
Nickel	2.0	U	5.0	2.0	ug/L		01/23/14 13:52	01/25/14 01:16	1
Selenium	1.0	U	2.5	1.0	ug/L		01/23/14 13:52	01/25/14 01:16	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-10

Date Collected: 01/21/14 11:45

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.25	U	1.0	0.25	ug/L		01/23/14 13:52	01/25/14 01:16	1
Sodium	4.8		0.50	0.25	mg/L		01/23/14 13:52	01/25/14 01:16	1
Thallium	0.50	U	1.0	0.50	ug/L		01/23/14 13:52	01/25/14 01:16	1
Vanadium	3.8	U	10	3.8	ug/L		01/23/14 13:52	01/25/14 01:16	1
Zinc	8.3	U	20	8.3	ug/L		01/23/14 13:52	01/25/14 01:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/14 10:48	01/24/14 11:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/14 10:48	01/24/14 11:49	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U J3	0.050	0.026	mg/L			01/28/14 13:08	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Total Dissolved Solids	34		5.0	5.0	mg/L			01/24/14 10:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/21/14 11:45	1
Field pH	4.59				SU			01/21/14 11:45	1
Field Temperature	22.6				Degrees C			01/21/14 11:45	1
Oxygen, Dissolved	0.31				mg/L			01/21/14 11:45	1
Sheen	No				SU			01/21/14 11:45	1
Specific Conductance	46				umhos/cm			01/21/14 11:45	1
Turbidity	23.4				NTU			01/21/14 11:45	1
Water Level	106.70				ft			01/21/14 11:45	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-21

Date Collected: 01/21/14 14:45

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/23/14 10:19	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/23/14 10:19	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/23/14 10:19	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/23/14 10:19	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/23/14 10:19	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/23/14 10:19	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/23/14 10:19	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/23/14 10:19	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/23/14 10:19	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/23/14 10:19	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/23/14 10:19	1
1,4-Dichlorobenzene	13	J3	1.0	0.52	ug/L			01/23/14 10:19	1
2-Butanone	8.4	U	10	8.4	ug/L			01/23/14 10:19	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/23/14 10:19	1
Acetone	9.9	U	20	9.9	ug/L			01/23/14 10:19	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/23/14 10:19	1
Benzene	1.3		1.0	0.50	ug/L			01/23/14 10:19	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/23/14 10:19	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/23/14 10:19	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/23/14 10:19	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/23/14 10:19	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/23/14 10:19	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/23/14 10:19	1
Chlorobenzene	1.5		1.0	0.63	ug/L			01/23/14 10:19	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/23/14 10:19	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/23/14 10:19	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/23/14 10:19	1
cis-1,2-Dichloroethene	1.2		1.0	0.65	ug/L			01/23/14 10:19	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 10:19	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/23/14 10:19	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/23/14 10:19	1
Ethylbenzene	0.69	I	1.0	0.44	ug/L			01/23/14 10:19	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/23/14 10:19	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/23/14 10:19	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/23/14 10:19	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/23/14 10:19	1
Styrene	0.98	U	2.0	0.98	ug/L			01/23/14 10:19	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 10:19	1
Toluene	0.51	U	1.0	0.51	ug/L			01/23/14 10:19	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/23/14 10:19	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 10:19	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/23/14 10:19	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 10:19	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/23/14 10:19	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/23/14 10:19	1
Vinyl chloride	0.68	I	1.0	0.50	ug/L			01/23/14 10:19	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/23/14 10:19	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-21

Date Collected: 01/21/14 14:45

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-2

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 130		01/23/14 10:19	1
Dibromofluoromethane	101		70 - 130		01/23/14 10:19	1
Toluene-d8 (Surr)	89		70 - 130		01/23/14 10:19	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		01/30/14 15:28	01/30/14 19:20	1
1,2-Dibromo-3-Chloropropane	0.0052	U	0.021	0.0052	ug/L		01/30/14 15:28	01/30/14 19:20	1
1,2,3-Trichloropropane	0.093	U	0.21	0.093	ug/L		01/30/14 15:28	01/30/14 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	114		60 - 144	01/30/14 15:28	01/30/14 19:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.7		0.50	0.25	mg/L			02/03/14 15:56	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/23/14 13:52	01/25/14 00:35	1
Arsenic	3.7		2.5	1.3	ug/L		01/23/14 13:52	01/25/14 00:35	1
Barium	47		5.0	1.3	ug/L		01/23/14 13:52	01/25/14 00:35	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/23/14 13:52	01/25/14 00:35	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/23/14 13:52	01/25/14 00:35	1
Chromium	6.3		5.0	2.5	ug/L		01/23/14 13:52	01/25/14 00:35	1
Cobalt	0.54		0.50	0.15	ug/L		01/23/14 13:52	01/25/14 00:35	1
Copper	1.2	I	5.0	1.1	ug/L		01/23/14 13:52	01/25/14 00:35	1
Iron	1600		100	33	ug/L		01/23/14 13:52	01/25/14 00:35	1
Lead	2.1		1.5	0.20	ug/L		01/23/14 13:52	01/25/14 00:35	1
Nickel	2.0	U	5.0	2.0	ug/L		01/23/14 13:52	01/25/14 00:35	1
Selenium	1.0	U	2.5	1.0	ug/L		01/23/14 13:52	01/25/14 00:35	1
Silver	0.25	U	1.0	0.25	ug/L		01/23/14 13:52	01/25/14 00:35	1
Sodium	2.0		0.50	0.25	mg/L		01/23/14 13:52	01/25/14 00:35	1
Thallium	0.50	U	1.0	0.50	ug/L		01/23/14 13:52	01/25/14 00:35	1
Vanadium	4.2	I	10	3.8	ug/L		01/23/14 13:52	01/25/14 00:35	1
Zinc	8.3	U	20	8.3	ug/L		01/23/14 13:52	01/25/14 00:35	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/23/14 13:52	01/25/14 01:23	1
Arsenic	3.4		2.5	1.3	ug/L		01/23/14 13:52	01/25/14 01:23	1
Barium	1.3	U	5.0	1.3	ug/L		01/23/14 13:52	01/25/14 01:23	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/23/14 13:52	01/25/14 01:23	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/23/14 13:52	01/25/14 01:23	1
Chromium	2.5	U	5.0	2.5	ug/L		01/23/14 13:52	01/25/14 01:23	1
Cobalt	0.44	I	0.50	0.15	ug/L		01/23/14 13:52	01/25/14 01:23	1
Copper	1.1	U	5.0	1.1	ug/L		01/23/14 13:52	01/25/14 01:23	1
Iron	1000		100	33	ug/L		01/23/14 13:52	01/25/14 01:23	1
Lead	0.20	U	1.5	0.20	ug/L		01/23/14 13:52	01/25/14 01:23	1
Nickel	2.0	U	5.0	2.0	ug/L		01/23/14 13:52	01/25/14 01:23	1
Selenium	1.0	U	2.5	1.0	ug/L		01/23/14 13:52	01/25/14 01:23	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-21

Lab Sample ID: 660-58669-2

Date Collected: 01/21/14 14:45

Matrix: Ground Water

Date Received: 01/22/14 08:00

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.25	U	1.0	0.25	ug/L		01/23/14 13:52	01/25/14 01:23	1
Sodium	2.1		0.50	0.25	mg/L		01/23/14 13:52	01/25/14 01:23	1
Thallium	0.50	U	1.0	0.50	ug/L		01/23/14 13:52	01/25/14 01:23	1
Vanadium	3.8	U	10	3.8	ug/L		01/23/14 13:52	01/25/14 01:23	1
Zinc	8.3	U	20	8.3	ug/L		01/23/14 13:52	01/25/14 01:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/14 10:48	01/24/14 11:35	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/14 10:48	01/24/14 11:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	1.7		0.050	0.026	mg/L			01/28/14 13:08	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Total Dissolved Solids	56		5.0	5.0	mg/L			01/24/14 10:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/21/14 14:45	1
Field pH	4.74				SU			01/21/14 14:45	1
Field Temperature	22.5				Degrees C			01/21/14 14:45	1
Oxygen, Dissolved	0.34				mg/L			01/21/14 14:45	1
Sheen	No				SU			01/21/14 14:45	1
Specific Conductance	75				umhos/cm			01/21/14 14:45	1
Turbidity	37.9				NTU			01/21/14 14:45	1
Water Level	108.93				ft			01/21/14 14:45	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-17

Date Collected: 01/21/14 16:22

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/23/14 12:13	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/23/14 12:13	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/23/14 12:13	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/23/14 12:13	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/23/14 12:13	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/23/14 12:13	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/23/14 12:13	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/23/14 12:13	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/23/14 12:13	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/23/14 12:13	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/23/14 12:13	1
1,4-Dichlorobenzene	0.97	I	1.0	0.52	ug/L			01/23/14 12:13	1
2-Butanone	8.4	U	10	8.4	ug/L			01/23/14 12:13	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/23/14 12:13	1
Acetone	9.9	U	20	9.9	ug/L			01/23/14 12:13	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/23/14 12:13	1
Benzene	0.50	U	1.0	0.50	ug/L			01/23/14 12:13	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/23/14 12:13	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/23/14 12:13	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/23/14 12:13	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/23/14 12:13	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/23/14 12:13	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/23/14 12:13	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/23/14 12:13	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/23/14 12:13	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/23/14 12:13	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/23/14 12:13	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/23/14 12:13	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 12:13	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/23/14 12:13	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/23/14 12:13	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/23/14 12:13	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/23/14 12:13	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/23/14 12:13	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/23/14 12:13	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/23/14 12:13	1
Styrene	0.98	U	2.0	0.98	ug/L			01/23/14 12:13	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 12:13	1
Toluene	0.51	U	1.0	0.51	ug/L			01/23/14 12:13	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/23/14 12:13	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 12:13	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/23/14 12:13	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 12:13	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/23/14 12:13	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/23/14 12:13	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/23/14 12:13	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/23/14 12:13	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-17

Date Collected: 01/21/14 16:22

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-3

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130		01/23/14 12:13	1
Dibromofluoromethane	103		70 - 130		01/23/14 12:13	1
Toluene-d8 (Surr)	91		70 - 130		01/23/14 12:13	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		01/30/14 15:28	01/30/14 19:28	1
1,2-Dibromo-3-Chloropropane	0.0052	U	0.021	0.0052	ug/L		01/30/14 15:28	01/30/14 19:28	1
1,2,3-Trichloropropane	0.094	U	0.21	0.094	ug/L		01/30/14 15:28	01/30/14 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	106		60 - 144	01/30/14 15:28	01/30/14 19:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		0.50	0.25	mg/L			02/03/14 16:08	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/23/14 13:52	01/25/14 00:42	1
Arsenic	4.0		2.5	1.3	ug/L		01/23/14 13:52	01/25/14 00:42	1
Barium	7.0		5.0	1.3	ug/L		01/23/14 13:52	01/25/14 00:42	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/23/14 13:52	01/25/14 00:42	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/23/14 13:52	01/25/14 00:42	1
Chromium	2.5	U	5.0	2.5	ug/L		01/23/14 13:52	01/25/14 00:42	1
Cobalt	4.7		0.50	0.15	ug/L		01/23/14 13:52	01/25/14 00:42	1
Copper	1.1	U	5.0	1.1	ug/L		01/23/14 13:52	01/25/14 00:42	1
Iron	11000		100	33	ug/L		01/23/14 13:52	01/25/14 00:42	1
Lead	0.20	U	1.5	0.20	ug/L		01/23/14 13:52	01/25/14 00:42	1
Nickel	2.0	U	5.0	2.0	ug/L		01/23/14 13:52	01/25/14 00:42	1
Selenium	1.0	U	2.5	1.0	ug/L		01/23/14 13:52	01/25/14 00:42	1
Silver	0.25	U	1.0	0.25	ug/L		01/23/14 13:52	01/25/14 00:42	1
Sodium	2.4		0.50	0.25	mg/L		01/23/14 13:52	01/25/14 00:42	1
Thallium	0.50	U	1.0	0.50	ug/L		01/23/14 13:52	01/25/14 00:42	1
Vanadium	3.8	U	10	3.8	ug/L		01/23/14 13:52	01/25/14 00:42	1
Zinc	8.3	U	20	8.3	ug/L		01/23/14 13:52	01/25/14 00:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/14 10:48	01/24/14 11:38	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.53		0.050	0.026	mg/L			01/28/14 13:08	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Total Dissolved Solids	44		5.0	5.0	mg/L			01/24/14 10:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/21/14 16:22	1
Field pH	5.30				SU			01/21/14 16:22	1
Field Temperature	23.3				Degrees C			01/21/14 16:22	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-17

Date Collected: 01/21/14 16:22

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-3

Matrix: Ground Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.21				mg/L			01/21/14 16:22	1
Sheen	No				SU			01/21/14 16:22	1
Specific Conductance	76				umhos/cm			01/21/14 16:22	1
Turbidity	4.00				NTU			01/21/14 16:22	1
Water Level	105.18				ft			01/21/14 16:22	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-14

Date Collected: 01/21/14 17:08

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/23/14 12:32	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/23/14 12:32	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/23/14 12:32	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/23/14 12:32	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/23/14 12:32	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/23/14 12:32	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/23/14 12:32	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/23/14 12:32	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/23/14 12:32	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/23/14 12:32	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/23/14 12:32	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/23/14 12:32	1
2-Butanone	8.4	U	10	8.4	ug/L			01/23/14 12:32	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/23/14 12:32	1
Acetone	9.9	U	20	9.9	ug/L			01/23/14 12:32	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/23/14 12:32	1
Benzene	0.50	U	1.0	0.50	ug/L			01/23/14 12:32	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/23/14 12:32	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/23/14 12:32	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/23/14 12:32	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/23/14 12:32	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/23/14 12:32	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/23/14 12:32	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/23/14 12:32	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/23/14 12:32	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/23/14 12:32	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/23/14 12:32	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/23/14 12:32	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 12:32	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/23/14 12:32	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/23/14 12:32	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/23/14 12:32	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/23/14 12:32	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/23/14 12:32	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/23/14 12:32	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/23/14 12:32	1
Styrene	0.98	U	2.0	0.98	ug/L			01/23/14 12:32	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 12:32	1
Toluene	0.51	U	1.0	0.51	ug/L			01/23/14 12:32	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/23/14 12:32	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 12:32	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/23/14 12:32	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 12:32	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/23/14 12:32	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/23/14 12:32	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/23/14 12:32	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/23/14 12:32	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-14

Date Collected: 01/21/14 17:08

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-4

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		01/23/14 12:32	1
Dibromofluoromethane	100		70 - 130		01/23/14 12:32	1
Toluene-d8 (Surr)	92		70 - 130		01/23/14 12:32	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		01/30/14 15:28	01/30/14 19:37	1
1,2-Dibromo-3-Chloropropane	0.0052	U	0.021	0.0052	ug/L		01/30/14 15:28	01/30/14 19:37	1
1,2,3-Trichloropropane	0.093	U	0.21	0.093	ug/L		01/30/14 15:28	01/30/14 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	104		60 - 144	01/30/14 15:28	01/30/14 19:37	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		0.50	0.25	mg/L			02/03/14 16:21	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/23/14 13:52	01/25/14 01:03	1
Arsenic	1.3	U	2.5	1.3	ug/L		01/23/14 13:52	01/25/14 01:03	1
Barium	14		5.0	1.3	ug/L		01/23/14 13:52	01/25/14 01:03	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/23/14 13:52	01/25/14 01:03	1
Cadmium	0.33	I	0.50	0.095	ug/L		01/23/14 13:52	01/25/14 01:03	1
Chromium	2.5	U	5.0	2.5	ug/L		01/23/14 13:52	01/25/14 01:03	1
Cobalt	1.1		0.50	0.15	ug/L		01/23/14 13:52	01/25/14 01:03	1
Copper	1.1	U	5.0	1.1	ug/L		01/23/14 13:52	01/25/14 01:03	1
Iron	150		100	33	ug/L		01/23/14 13:52	01/25/14 01:03	1
Lead	0.20	U	1.5	0.20	ug/L		01/23/14 13:52	01/25/14 01:03	1
Nickel	2.0	U	5.0	2.0	ug/L		01/23/14 13:52	01/25/14 01:03	1
Selenium	1.0	U	2.5	1.0	ug/L		01/23/14 13:52	01/25/14 01:03	1
Silver	0.25	U	1.0	0.25	ug/L		01/23/14 13:52	01/25/14 01:03	1
Sodium	2.9		0.50	0.25	mg/L		01/23/14 13:52	01/25/14 01:03	1
Thallium	0.50	U	1.0	0.50	ug/L		01/23/14 13:52	01/25/14 01:03	1
Vanadium	3.8	U	10	3.8	ug/L		01/23/14 13:52	01/25/14 01:03	1
Zinc	8.3	U	20	8.3	ug/L		01/23/14 13:52	01/25/14 01:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11	I	0.20	0.091	ug/L		01/23/14 10:48	01/24/14 11:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.034	I	0.050	0.026	mg/L			01/28/14 13:08	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Total Dissolved Solids	280		10	10	mg/L			01/24/14 10:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/21/14 17:08	1
Field pH	6.91				SU			01/21/14 17:08	1
Field Temperature	22.92				Degrees C			01/21/14 17:08	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-14

Lab Sample ID: 660-58669-4

Date Collected: 01/21/14 17:08

Matrix: Ground Water

Date Received: 01/22/14 08:00

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.10				mg/L			01/21/14 17:08	1
Sheen	No				SU			01/21/14 17:08	1
Specific Conductance	431				umhos/cm			01/21/14 17:08	1
Turbidity	4.93				NTU			01/21/14 17:08	1
Water Level	103.04				ft			01/21/14 17:08	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: Field Blank

Lab Sample ID: 660-58670-1

Date Collected: 01/21/14 14:55

Matrix: Water

Date Received: 01/22/14 08:00

Method: 524.2 - Total Trihalomethane Calculation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.10	U	0.50	0.10	ug/L			01/30/14 16:10	1
Bromoform	0.39	U	0.50	0.39	ug/L			01/30/14 16:10	1
Chloroform	0.29	U	0.50	0.29	ug/L			01/30/14 16:10	1
Dibromochloromethane	0.43	U	0.50	0.43	ug/L			01/30/14 16:10	1
Trihalomethanes, Total	0.10	U	0.50	0.10	ug/L			01/30/14 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		70 - 130		01/30/14 16:10	1
1,2-Dichlorobenzene-d4	94		70 - 130		01/30/14 16:10	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.9	U	20	9.9	ug/L			01/22/14 16:44	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/22/14 16:44	1
Benzene	0.50	U	1.0	0.50	ug/L			01/22/14 16:44	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/22/14 16:44	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/22/14 16:44	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			01/22/14 16:44	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/22/14 16:44	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/22/14 16:44	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/22/14 16:44	1
Chlorobromomethane	0.58	U	1.0	0.58	ug/L			01/22/14 16:44	1
Chlorodibromomethane	0.34	U	1.0	0.34	ug/L			01/22/14 16:44	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/22/14 16:44	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/22/14 16:44	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/22/14 16:44	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/22/14 16:44	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/22/14 16:44	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/22/14 16:44	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/22/14 16:44	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/22/14 16:44	1
Dichlorobromomethane	0.35	U	1.0	0.35	ug/L			01/22/14 16:44	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/22/14 16:44	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/22/14 16:44	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/22/14 16:44	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/22/14 16:44	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/22/14 16:44	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/22/14 16:44	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/22/14 16:44	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/22/14 16:44	1
4-Methyl-2-pentanone (MIBK)	3.8	U	10	3.8	ug/L			01/22/14 16:44	1
Styrene	0.98	U	2.0	0.98	ug/L			01/22/14 16:44	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/22/14 16:44	1
1,1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/22/14 16:44	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/22/14 16:44	1
Toluene	0.51	U	1.0	0.51	ug/L			01/22/14 16:44	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/22/14 16:44	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/22/14 16:44	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/22/14 16:44	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/22/14 16:44	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: Field Blank

Lab Sample ID: 660-58670-1

Date Collected: 01/21/14 14:55

Matrix: Water

Date Received: 01/22/14 08:00

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/22/14 16:44	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/22/14 16:44	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/22/14 16:44	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/22/14 16:44	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/22/14 16:44	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/22/14 16:44	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/22/14 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130		01/22/14 16:44	1
Dibromofluoromethane	102		70 - 130		01/22/14 16:44	1
Toluene-d8 (Surr)	89		70 - 130		01/22/14 16:44	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		01/30/14 15:28	01/30/14 19:46	1
1,2-Dibromo-3-Chloropropane	0.0053	U	0.021	0.0053	ug/L		01/30/14 15:28	01/30/14 19:46	1
1,2,3-Trichloropropane	0.095	U	0.21	0.095	ug/L		01/30/14 15:28	01/30/14 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	95		60 - 144	01/30/14 15:28	01/30/14 19:46	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			02/03/14 16:33	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/23/14 13:52	01/25/14 01:09	1
Arsenic	1.3	U	2.5	1.3	ug/L		01/23/14 13:52	01/25/14 01:09	1
Barium	1.3	U	5.0	1.3	ug/L		01/23/14 13:52	01/25/14 01:09	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/23/14 13:52	01/25/14 01:09	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/23/14 13:52	01/25/14 01:09	1
Chromium	2.5	U	5.0	2.5	ug/L		01/23/14 13:52	01/25/14 01:09	1
Cobalt	0.15	U	0.50	0.15	ug/L		01/23/14 13:52	01/25/14 01:09	1
Copper	1.1	U	5.0	1.1	ug/L		01/23/14 13:52	01/25/14 01:09	1
Iron	33	U	100	33	ug/L		01/23/14 13:52	01/25/14 01:09	1
Lead	0.20	U	1.5	0.20	ug/L		01/23/14 13:52	01/25/14 01:09	1
Nickel	2.0	U	5.0	2.0	ug/L		01/23/14 13:52	01/25/14 01:09	1
Selenium	1.0	U	2.5	1.0	ug/L		01/23/14 13:52	01/25/14 01:09	1
Silver	0.25	U	1.0	0.25	ug/L		01/23/14 13:52	01/25/14 01:09	1
Sodium	1.7		0.50	0.25	mg/L		01/23/14 13:52	01/25/14 01:09	1
Thallium	0.50	U	1.0	0.50	ug/L		01/23/14 13:52	01/25/14 01:09	1
Vanadium	3.8	U	10	3.8	ug/L		01/23/14 13:52	01/25/14 01:09	1
Zinc	8.3	U	20	8.3	ug/L		01/23/14 13:52	01/25/14 01:09	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/14 10:48	01/24/14 11:54	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: Field Blank

Lab Sample ID: 660-58670-1

Date Collected: 01/21/14 14:55

Matrix: Water

Date Received: 01/22/14 08:00

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U	0.050	0.026	mg/L			01/28/14 13:08	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Nitrite as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Total Dissolved Solids	10		5.0	5.0	mg/L			01/24/14 10:13	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-20

Date Collected: 01/22/14 08:25

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/23/14 22:49	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/23/14 22:49	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/23/14 22:49	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/23/14 22:49	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/23/14 22:49	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/23/14 22:49	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/23/14 22:49	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/23/14 22:49	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/23/14 22:49	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/23/14 22:49	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/23/14 22:49	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/23/14 22:49	1
2-Butanone	8.4	U	10	8.4	ug/L			01/23/14 22:49	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/23/14 22:49	1
Acetone	9.9	U	20	9.9	ug/L			01/23/14 22:49	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/23/14 22:49	1
Benzene	0.50	U	1.0	0.50	ug/L			01/23/14 22:49	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/23/14 22:49	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/23/14 22:49	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/23/14 22:49	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/23/14 22:49	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/23/14 22:49	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/23/14 22:49	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/23/14 22:49	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/23/14 22:49	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/23/14 22:49	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/23/14 22:49	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/23/14 22:49	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 22:49	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/23/14 22:49	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/23/14 22:49	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/23/14 22:49	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/23/14 22:49	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/23/14 22:49	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/23/14 22:49	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/23/14 22:49	1
Styrene	0.98	U	2.0	0.98	ug/L			01/23/14 22:49	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 22:49	1
Toluene	0.51	U	1.0	0.51	ug/L			01/23/14 22:49	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/23/14 22:49	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 22:49	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/23/14 22:49	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 22:49	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/23/14 22:49	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/23/14 22:49	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/23/14 22:49	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/23/14 22:49	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-20

Date Collected: 01/22/14 08:25

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-1

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		01/23/14 22:49	1
Dibromofluoromethane	103		70 - 130		01/23/14 22:49	1
Toluene-d8 (Surr)	92		70 - 130		01/23/14 22:49	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0024	U	0.021	0.0024	ug/L		01/30/14 15:28	01/30/14 19:54	1
1,2-Dibromo-3-Chloropropane	0.0054	U	0.021	0.0054	ug/L		01/30/14 15:28	01/30/14 19:54	1
1,2,3-Trichloropropane	0.097	U	0.21	0.097	ug/L		01/30/14 15:28	01/30/14 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	109		60 - 144	01/30/14 15:28	01/30/14 19:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30		10	5.0	mg/L			02/01/14 23:59	20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/24/14 13:09	01/28/14 11:17	1
Arsenic	8.5		2.5	1.3	ug/L		01/24/14 13:09	01/28/14 11:17	1
Barium	19		5.0	1.3	ug/L		01/24/14 13:09	01/28/14 11:17	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/24/14 13:09	01/28/14 11:17	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/24/14 13:09	01/28/14 11:17	1
Chromium	2.5	U	5.0	2.5	ug/L		01/24/14 13:09	01/28/14 11:17	1
Cobalt	2.3		0.50	0.15	ug/L		01/24/14 13:09	01/28/14 11:17	1
Copper	1.1	U	5.0	1.1	ug/L		01/24/14 13:09	01/28/14 11:17	1
Iron	66000		100	33	ug/L		01/24/14 13:09	01/28/14 11:17	1
Lead	0.20	U	1.5	0.20	ug/L		01/24/14 13:09	01/28/14 11:17	1
Nickel	2.0	U	5.0	2.0	ug/L		01/24/14 13:09	01/28/14 11:17	1
Selenium	1.0	U	2.5	1.0	ug/L		01/24/14 13:09	01/28/14 11:17	1
Silver	0.25	U	1.0	0.25	ug/L		01/24/14 13:09	01/28/14 11:17	1
Sodium	9.3		0.50	0.25	mg/L		01/24/14 13:09	01/28/14 11:17	1
Thallium	0.50	U	1.0	0.50	ug/L		01/24/14 13:09	01/28/14 11:17	1
Vanadium	3.8	U	10	3.8	ug/L		01/24/14 13:09	01/28/14 11:17	1
Zinc	19	I	20	8.3	ug/L		01/24/14 13:09	01/28/14 11:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/14 08:01	01/27/14 14:42	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.74		0.050	0.026	mg/L			01/28/14 13:17	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/23/14 14:09	1
Total Dissolved Solids	160		10	10	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 08:25	1
Field pH	5.94				SU			01/22/14 08:25	1
Field Temperature	22.8				Degrees C			01/22/14 08:25	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-20

Date Collected: 01/22/14 08:25

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-1

Matrix: Ground Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.22				mg/L			01/22/14 08:25	1
Sheen	No				SU			01/22/14 08:25	1
Specific Conductance	372				umhos/cm			01/22/14 08:25	1
Turbidity	1.53				NTU			01/22/14 08:25	1
Water Level	113.11				ft			01/22/14 08:25	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-7
Date Collected: 01/22/14 11:25
Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-3
Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/23/14 23:46	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/23/14 23:46	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/23/14 23:46	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/23/14 23:46	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/23/14 23:46	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/23/14 23:46	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/23/14 23:46	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/23/14 23:46	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/23/14 23:46	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/23/14 23:46	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/23/14 23:46	1
1,4-Dichlorobenzene	1.6		1.0	0.52	ug/L			01/23/14 23:46	1
2-Butanone	8.4	U	10	8.4	ug/L			01/23/14 23:46	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/23/14 23:46	1
Acetone	9.9	U	20	9.9	ug/L			01/23/14 23:46	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/23/14 23:46	1
Benzene	1.1		1.0	0.50	ug/L			01/23/14 23:46	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/23/14 23:46	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/23/14 23:46	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/23/14 23:46	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/23/14 23:46	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/23/14 23:46	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/23/14 23:46	1
Chlorobenzene	0.91	I	1.0	0.63	ug/L			01/23/14 23:46	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/23/14 23:46	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/23/14 23:46	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/23/14 23:46	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/23/14 23:46	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 23:46	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/23/14 23:46	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/23/14 23:46	1
Ethylbenzene	2.7		1.0	0.44	ug/L			01/23/14 23:46	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/23/14 23:46	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/23/14 23:46	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/23/14 23:46	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/23/14 23:46	1
Styrene	0.98	U	2.0	0.98	ug/L			01/23/14 23:46	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 23:46	1
Toluene	0.51	U	1.0	0.51	ug/L			01/23/14 23:46	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/23/14 23:46	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 23:46	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/23/14 23:46	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 23:46	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/23/14 23:46	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/23/14 23:46	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/23/14 23:46	1
Xylenes, Total	1.0	I	3.0	0.50	ug/L			01/23/14 23:46	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-7

Date Collected: 01/22/14 11:25

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-3

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130		01/23/14 23:46	1
Dibromofluoromethane	97		70 - 130		01/23/14 23:46	1
Toluene-d8 (Surr)	90		70 - 130		01/23/14 23:46	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0024	U	0.021	0.0024	ug/L		01/30/14 15:28	01/30/14 20:03	1
1,2-Dibromo-3-Chloropropane	0.0054	U	0.021	0.0054	ug/L		01/30/14 15:28	01/30/14 20:03	1
1,2,3-Trichloropropane	0.097	U	0.21	0.097	ug/L		01/30/14 15:28	01/30/14 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	108		60 - 144	01/30/14 15:28	01/30/14 20:03	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.8		0.50	0.25	mg/L			02/02/14 00:11	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/24/14 13:09	01/28/14 11:22	1
Arsenic	8.5		2.5	1.3	ug/L		01/24/14 13:09	01/28/14 11:22	1
Barium	17		5.0	1.3	ug/L		01/24/14 13:09	01/28/14 11:22	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/24/14 13:09	01/28/14 11:22	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/24/14 13:09	01/28/14 11:22	1
Chromium	2.5	U	5.0	2.5	ug/L		01/24/14 13:09	01/28/14 11:22	1
Cobalt	1.0		0.50	0.15	ug/L		01/24/14 13:09	01/28/14 11:22	1
Copper	2.0	I	5.0	1.1	ug/L		01/24/14 13:09	01/28/14 11:22	1
Iron	1800		100	33	ug/L		01/24/14 13:09	01/28/14 11:22	1
Lead	0.24	I	1.5	0.20	ug/L		01/24/14 13:09	01/28/14 11:22	1
Nickel	7.5		5.0	2.0	ug/L		01/24/14 13:09	01/28/14 11:22	1
Selenium	1.0	U	2.5	1.0	ug/L		01/24/14 13:09	01/28/14 11:22	1
Silver	0.25	U	1.0	0.25	ug/L		01/24/14 13:09	01/28/14 11:22	1
Sodium	9.8		0.50	0.25	mg/L		01/24/14 13:09	01/28/14 11:22	1
Thallium	0.50	U	1.0	0.50	ug/L		01/24/14 13:09	01/28/14 11:22	1
Vanadium	3.8	U	10	3.8	ug/L		01/24/14 13:09	01/28/14 11:22	1
Zinc	22		20	8.3	ug/L		01/24/14 13:09	01/28/14 11:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/14 08:01	01/27/14 14:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.039	I	0.050	0.026	mg/L			01/28/14 13:17	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/23/14 14:09	1
Total Dissolved Solids	42		5.0	5.0	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 11:25	1
Field pH	5.24				SU			01/22/14 11:25	1
Field Temperature	22.8				Degrees C			01/22/14 11:25	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-7

Date Collected: 01/22/14 11:25

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-3

Matrix: Ground Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.14				mg/L			01/22/14 11:25	1
Sheen	No				SU			01/22/14 11:25	1
Specific Conductance	81				umhos/cm			01/22/14 11:25	1
Turbidity	1.11				NTU			01/22/14 11:25	1
Water Level	121.67				ft			01/22/14 11:25	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-3

Date Collected: 01/22/14 13:40

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/24/14 00:25	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/24/14 00:25	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/24/14 00:25	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/24/14 00:25	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/24/14 00:25	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/24/14 00:25	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/24/14 00:25	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/24/14 00:25	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/24/14 00:25	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/24/14 00:25	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/24/14 00:25	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/24/14 00:25	1
2-Butanone	8.4	U	10	8.4	ug/L			01/24/14 00:25	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/24/14 00:25	1
Acetone	9.9	U	20	9.9	ug/L			01/24/14 00:25	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/24/14 00:25	1
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 00:25	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/24/14 00:25	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/24/14 00:25	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/24/14 00:25	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/24/14 00:25	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/24/14 00:25	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/24/14 00:25	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/24/14 00:25	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/24/14 00:25	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/24/14 00:25	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/24/14 00:25	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/24/14 00:25	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 00:25	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/24/14 00:25	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/24/14 00:25	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/24/14 00:25	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/24/14 00:25	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/24/14 00:25	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/24/14 00:25	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/24/14 00:25	1
Styrene	0.98	U	2.0	0.98	ug/L			01/24/14 00:25	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 00:25	1
Toluene	0.51	U	1.0	0.51	ug/L			01/24/14 00:25	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/24/14 00:25	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 00:25	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/24/14 00:25	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 00:25	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/24/14 00:25	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/24/14 00:25	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 00:25	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/24/14 00:25	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-3

Date Collected: 01/22/14 13:40

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-4

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 130		01/24/14 00:25	1
Dibromofluoromethane	100		70 - 130		01/24/14 00:25	1
Toluene-d8 (Surr)	92		70 - 130		01/24/14 00:25	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		01/30/14 15:28	01/30/14 20:11	1
1,2-Dibromo-3-Chloropropane	0.0052	U	0.021	0.0052	ug/L		01/30/14 15:28	01/30/14 20:11	1
1,2,3-Trichloropropane	0.093	U	0.21	0.093	ug/L		01/30/14 15:28	01/30/14 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	101		60 - 144	01/30/14 15:28	01/30/14 20:11	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		0.50	0.25	mg/L			02/02/14 00:24	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/24/14 13:09	01/28/14 11:27	1
Arsenic	1.3	U	2.5	1.3	ug/L		01/24/14 13:09	01/28/14 11:27	1
Barium	16		5.0	1.3	ug/L		01/24/14 13:09	01/28/14 11:27	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/24/14 13:09	01/28/14 11:27	1
Cadmium	0.14	I	0.50	0.095	ug/L		01/24/14 13:09	01/28/14 11:27	1
Chromium	2.5	U	5.0	2.5	ug/L		01/24/14 13:09	01/28/14 11:27	1
Cobalt	0.56		0.50	0.15	ug/L		01/24/14 13:09	01/28/14 11:27	1
Copper	28		5.0	1.1	ug/L		01/24/14 13:09	01/28/14 11:27	1
Iron	33	U	100	33	ug/L		01/24/14 13:09	01/28/14 11:27	1
Lead	3.3		1.5	0.20	ug/L		01/24/14 13:09	01/28/14 11:27	1
Nickel	3.8	I	5.0	2.0	ug/L		01/24/14 13:09	01/28/14 11:27	1
Selenium	1.0	U	2.5	1.0	ug/L		01/24/14 13:09	01/28/14 11:27	1
Silver	0.25	U	1.0	0.25	ug/L		01/24/14 13:09	01/28/14 11:27	1
Sodium	6.6		0.50	0.25	mg/L		01/24/14 13:09	01/28/14 11:27	1
Thallium	0.50	U	1.0	0.50	ug/L		01/24/14 13:09	01/28/14 11:27	1
Vanadium	3.8	U	10	3.8	ug/L		01/24/14 13:09	01/28/14 11:27	1
Zinc	50		20	8.3	ug/L		01/24/14 13:09	01/28/14 11:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/14 08:01	01/27/14 14:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U	0.050	0.026	mg/L			01/28/14 13:17	1
Nitrate as N	1.2		0.50	0.10	mg/L			01/23/14 14:09	1
Total Dissolved Solids	8.0		5.0	5.0	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 13:40	1
Field pH	4.86				SU			01/22/14 13:40	1
Field Temperature	19.5				Degrees C			01/22/14 13:40	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-3

Lab Sample ID: 660-58711-4

Date Collected: 01/22/14 13:40

Matrix: Ground Water

Date Received: 01/23/14 08:00

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	3.48				mg/L			01/22/14 13:40	1
Sheen	No				SU			01/22/14 13:40	1
Specific Conductance	44				umhos/cm			01/22/14 13:40	1
Turbidity	0.55				NTU			01/22/14 13:40	1
Water Level	113.45				ft			01/22/14 13:40	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-15

Date Collected: 01/22/14 18:20

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/24/14 00:44	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/24/14 00:44	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/24/14 00:44	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/24/14 00:44	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/24/14 00:44	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/24/14 00:44	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/24/14 00:44	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/24/14 00:44	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/24/14 00:44	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/24/14 00:44	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/24/14 00:44	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/24/14 00:44	1
2-Butanone	8.4	U	10	8.4	ug/L			01/24/14 00:44	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/24/14 00:44	1
Acetone	9.9	U	20	9.9	ug/L			01/24/14 00:44	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/24/14 00:44	1
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 00:44	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/24/14 00:44	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/24/14 00:44	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/24/14 00:44	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/24/14 00:44	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/24/14 00:44	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/24/14 00:44	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/24/14 00:44	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/24/14 00:44	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/24/14 00:44	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/24/14 00:44	1
cis-1,2-Dichloroethene	1.5		1.0	0.65	ug/L			01/24/14 00:44	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 00:44	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/24/14 00:44	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/24/14 00:44	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/24/14 00:44	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/24/14 00:44	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/24/14 00:44	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/24/14 00:44	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/24/14 00:44	1
Styrene	0.98	U	2.0	0.98	ug/L			01/24/14 00:44	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 00:44	1
Toluene	0.51	U	1.0	0.51	ug/L			01/24/14 00:44	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/24/14 00:44	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 00:44	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/24/14 00:44	1
Trichloroethene	0.52	I	1.0	0.50	ug/L			01/24/14 00:44	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/24/14 00:44	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/24/14 00:44	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 00:44	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/24/14 00:44	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-15

Date Collected: 01/22/14 18:20

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-5

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130		01/24/14 00:44	1
Dibromofluoromethane	101		70 - 130		01/24/14 00:44	1
Toluene-d8 (Surr)	90		70 - 130		01/24/14 00:44	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0022	U	0.020	0.0022	ug/L		01/30/14 15:28	01/30/14 20:20	1
1,2-Dibromo-3-Chloropropane	0.0051	U	0.020	0.0051	ug/L		01/30/14 15:28	01/30/14 20:20	1
1,2,3-Trichloropropane	0.092	U	0.20	0.092	ug/L		01/30/14 15:28	01/30/14 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	95		60 - 144	01/30/14 15:28	01/30/14 20:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		0.50	0.25	mg/L			02/02/14 00:36	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/24/14 13:09	01/28/14 11:32	1
Arsenic	3.9		2.5	1.3	ug/L		01/24/14 13:09	01/28/14 11:32	1
Barium	11		5.0	1.3	ug/L		01/24/14 13:09	01/28/14 11:32	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/24/14 13:09	01/28/14 11:32	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/24/14 13:09	01/28/14 11:32	1
Chromium	3.7	I	5.0	2.5	ug/L		01/24/14 13:09	01/28/14 11:32	1
Cobalt	4.1		0.50	0.15	ug/L		01/24/14 13:09	01/28/14 11:32	1
Copper	1.1	U	5.0	1.1	ug/L		01/24/14 13:09	01/28/14 11:32	1
Iron	9800		100	33	ug/L		01/24/14 13:09	01/28/14 11:32	1
Lead	0.22	I	1.5	0.20	ug/L		01/24/14 13:09	01/28/14 11:32	1
Nickel	5.4		5.0	2.0	ug/L		01/24/14 13:09	01/28/14 11:32	1
Selenium	1.0	U	2.5	1.0	ug/L		01/24/14 13:09	01/28/14 11:32	1
Silver	0.25	U	1.0	0.25	ug/L		01/24/14 13:09	01/28/14 11:32	1
Sodium	2.1		0.50	0.25	mg/L		01/24/14 13:09	01/28/14 11:32	1
Thallium	0.50	U	1.0	0.50	ug/L		01/24/14 13:09	01/28/14 11:32	1
Vanadium	3.8	U	10	3.8	ug/L		01/24/14 13:09	01/28/14 11:32	1
Zinc	60		20	8.3	ug/L		01/24/14 13:09	01/28/14 11:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/14 08:01	01/27/14 14:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10		0.050	0.026	mg/L			01/28/14 13:17	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/23/14 14:09	1
Total Dissolved Solids	12		5.0	5.0	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 18:20	1
Field pH	5.09				SU			01/22/14 18:20	1
Field Temperature	26.7				Degrees C			01/22/14 18:20	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-15

Date Collected: 01/22/14 18:20

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-5

Matrix: Ground Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.19				mg/L			01/22/14 18:20	1
Sheen	No				SU			01/22/14 18:20	1
Specific Conductance	48				umhos/cm			01/22/14 18:20	1
Turbidity	4.33				NTU			01/22/14 18:20	1
Water Level	117.70				ft			01/22/14 18:20	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-12

Date Collected: 01/22/14 19:28

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/24/14 01:03	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/24/14 01:03	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/24/14 01:03	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/24/14 01:03	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/24/14 01:03	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/24/14 01:03	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/24/14 01:03	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/24/14 01:03	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/24/14 01:03	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/24/14 01:03	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/24/14 01:03	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/24/14 01:03	1
2-Butanone	8.4	U	10	8.4	ug/L			01/24/14 01:03	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/24/14 01:03	1
Acetone	9.9	U	20	9.9	ug/L			01/24/14 01:03	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/24/14 01:03	1
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 01:03	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/24/14 01:03	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/24/14 01:03	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/24/14 01:03	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:03	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/24/14 01:03	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/24/14 01:03	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/24/14 01:03	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:03	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/24/14 01:03	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/24/14 01:03	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/24/14 01:03	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 01:03	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/24/14 01:03	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/24/14 01:03	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/24/14 01:03	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/24/14 01:03	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:03	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/24/14 01:03	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/24/14 01:03	1
Styrene	0.98	U	2.0	0.98	ug/L			01/24/14 01:03	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 01:03	1
Toluene	0.51	U	1.0	0.51	ug/L			01/24/14 01:03	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/24/14 01:03	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 01:03	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/24/14 01:03	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 01:03	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:03	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/24/14 01:03	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 01:03	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/24/14 01:03	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-12

Date Collected: 01/22/14 19:28

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-6

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130		01/24/14 01:03	1
Dibromofluoromethane	96		70 - 130		01/24/14 01:03	1
Toluene-d8 (Surr)	90		70 - 130		01/24/14 01:03	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		01/30/14 15:28	01/30/14 20:28	1
1,2-Dibromo-3-Chloropropane	0.0053	U	0.021	0.0053	ug/L		01/30/14 15:28	01/30/14 20:28	1
1,2,3-Trichloropropane	0.095	U	0.21	0.095	ug/L		01/30/14 15:28	01/30/14 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	102		60 - 144	01/30/14 15:28	01/30/14 20:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		0.50	0.25	mg/L			02/02/14 01:01	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/24/14 13:09	01/28/14 11:38	1
Arsenic	2.1	I	2.5	1.3	ug/L		01/24/14 13:09	01/28/14 11:38	1
Barium	16		5.0	1.3	ug/L		01/24/14 13:09	01/28/14 11:38	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/24/14 13:09	01/28/14 11:38	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/24/14 13:09	01/28/14 11:38	1
Chromium	2.5	U	5.0	2.5	ug/L		01/24/14 13:09	01/28/14 11:38	1
Cobalt	0.26	I	0.50	0.15	ug/L		01/24/14 13:09	01/28/14 11:38	1
Copper	1.1	U	5.0	1.1	ug/L		01/24/14 13:09	01/28/14 11:38	1
Iron	3300		100	33	ug/L		01/24/14 13:09	01/28/14 11:38	1
Lead	0.20	U	1.5	0.20	ug/L		01/24/14 13:09	01/28/14 11:38	1
Nickel	2.0	U	5.0	2.0	ug/L		01/24/14 13:09	01/28/14 11:38	1
Selenium	1.0	U	2.5	1.0	ug/L		01/24/14 13:09	01/28/14 11:38	1
Silver	0.25	U	1.0	0.25	ug/L		01/24/14 13:09	01/28/14 11:38	1
Sodium	3.4		0.50	0.25	mg/L		01/24/14 13:09	01/28/14 11:38	1
Thallium	0.50	U	1.0	0.50	ug/L		01/24/14 13:09	01/28/14 11:38	1
Vanadium	3.8	U	10	3.8	ug/L		01/24/14 13:09	01/28/14 11:38	1
Zinc	8.3	U	20	8.3	ug/L		01/24/14 13:09	01/28/14 11:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/14 08:01	01/27/14 14:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.13		0.050	0.026	mg/L			01/28/14 13:18	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/23/14 14:09	1
Total Dissolved Solids	240		10	10	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 19:28	1
Field pH	6.93				SU			01/22/14 19:28	1
Field Temperature	27.1				Degrees C			01/22/14 19:28	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-12

Date Collected: 01/22/14 19:28

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-6

Matrix: Ground Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.24				mg/L			01/22/14 19:28	1
Sheen	No				SU			01/22/14 19:28	1
Specific Conductance	457				umhos/cm			01/22/14 19:28	1
Turbidity	4.71				NTU			01/22/14 19:28	1
Water Level	97.80				ft			01/22/14 19:28	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-13

Date Collected: 01/22/14 13:48

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-7

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/24/14 01:22	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/24/14 01:22	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/24/14 01:22	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/24/14 01:22	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/24/14 01:22	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/24/14 01:22	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/24/14 01:22	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/24/14 01:22	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/24/14 01:22	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/24/14 01:22	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/24/14 01:22	1
1,4-Dichlorobenzene	2.7		1.0	0.52	ug/L			01/24/14 01:22	1
2-Butanone	8.4	U	10	8.4	ug/L			01/24/14 01:22	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/24/14 01:22	1
Acetone	9.9	U	20	9.9	ug/L			01/24/14 01:22	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/24/14 01:22	1
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 01:22	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/24/14 01:22	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/24/14 01:22	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/24/14 01:22	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:22	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/24/14 01:22	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/24/14 01:22	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/24/14 01:22	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:22	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/24/14 01:22	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/24/14 01:22	1
cis-1,2-Dichloroethene	1.0		1.0	0.65	ug/L			01/24/14 01:22	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 01:22	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/24/14 01:22	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/24/14 01:22	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/24/14 01:22	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/24/14 01:22	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:22	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/24/14 01:22	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/24/14 01:22	1
Styrene	0.98	U	2.0	0.98	ug/L			01/24/14 01:22	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 01:22	1
Toluene	0.51	U	1.0	0.51	ug/L			01/24/14 01:22	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/24/14 01:22	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 01:22	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/24/14 01:22	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 01:22	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:22	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/24/14 01:22	1
Vinyl chloride	0.58	I	1.0	0.50	ug/L			01/24/14 01:22	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/24/14 01:22	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-13

Date Collected: 01/22/14 13:48

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-7

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 130		01/24/14 01:22	1
Dibromofluoromethane	99		70 - 130		01/24/14 01:22	1
Toluene-d8 (Surr)	91		70 - 130		01/24/14 01:22	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		01/30/14 15:28	01/30/14 20:37	1
1,2-Dibromo-3-Chloropropane	0.0053	U	0.021	0.0053	ug/L		01/30/14 15:28	01/30/14 20:37	1
1,2,3-Trichloropropane	0.096	U	0.21	0.096	ug/L		01/30/14 15:28	01/30/14 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	108		60 - 144	01/30/14 15:28	01/30/14 20:37	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		0.50	0.25	mg/L			02/02/14 01:13	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/24/14 13:09	01/28/14 11:43	1
Arsenic	4.4		2.5	1.3	ug/L		01/24/14 13:09	01/28/14 11:43	1
Barium	2.4	I	5.0	1.3	ug/L		01/24/14 13:09	01/28/14 11:43	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/24/14 13:09	01/28/14 11:43	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/24/14 13:09	01/28/14 11:43	1
Chromium	2.5	U	5.0	2.5	ug/L		01/24/14 13:09	01/28/14 11:43	1
Cobalt	6.9		0.50	0.15	ug/L		01/24/14 13:09	01/28/14 11:43	1
Copper	1.1	U	5.0	1.1	ug/L		01/24/14 13:09	01/28/14 11:43	1
Iron	3500		100	33	ug/L		01/24/14 13:09	01/28/14 11:43	1
Lead	0.20	U	1.5	0.20	ug/L		01/24/14 13:09	01/28/14 11:43	1
Nickel	3.1	I	5.0	2.0	ug/L		01/24/14 13:09	01/28/14 11:43	1
Selenium	1.0	U	2.5	1.0	ug/L		01/24/14 13:09	01/28/14 11:43	1
Silver	0.25	U	1.0	0.25	ug/L		01/24/14 13:09	01/28/14 11:43	1
Sodium	3.4		0.50	0.25	mg/L		01/24/14 13:09	01/28/14 11:43	1
Thallium	0.50	U	1.0	0.50	ug/L		01/24/14 13:09	01/28/14 11:43	1
Vanadium	3.8	U	10	3.8	ug/L		01/24/14 13:09	01/28/14 11:43	1
Zinc	8.3	U	20	8.3	ug/L		01/24/14 13:09	01/28/14 11:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/14 08:01	01/27/14 14:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	I	0.050	0.026	mg/L			01/28/14 13:18	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/23/14 14:09	1
Total Dissolved Solids	24		5.0	5.0	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 13:48	1
Field pH	5.15				SU			01/22/14 13:48	1
Field Temperature	22.7				Degrees C			01/22/14 13:48	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-13

Date Collected: 01/22/14 13:48

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-7

Matrix: Ground Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.41				mg/L			01/22/14 13:48	1
Sheen	No				SU			01/22/14 13:48	1
Specific Conductance	80				umhos/cm			01/22/14 13:48	1
Turbidity	1.84				NTU			01/22/14 13:48	1
Water Level	106.30				ft			01/22/14 13:48	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-11

Date Collected: 01/22/14 15:30

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/24/14 01:41	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/24/14 01:41	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/24/14 01:41	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/24/14 01:41	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/24/14 01:41	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/24/14 01:41	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/24/14 01:41	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/24/14 01:41	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/24/14 01:41	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/24/14 01:41	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/24/14 01:41	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/24/14 01:41	1
2-Butanone	8.4	U	10	8.4	ug/L			01/24/14 01:41	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/24/14 01:41	1
Acetone	9.9	U	20	9.9	ug/L			01/24/14 01:41	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/24/14 01:41	1
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 01:41	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/24/14 01:41	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/24/14 01:41	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/24/14 01:41	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:41	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/24/14 01:41	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/24/14 01:41	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/24/14 01:41	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:41	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/24/14 01:41	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/24/14 01:41	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/24/14 01:41	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 01:41	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/24/14 01:41	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/24/14 01:41	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/24/14 01:41	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/24/14 01:41	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:41	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/24/14 01:41	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/24/14 01:41	1
Styrene	0.98	U	2.0	0.98	ug/L			01/24/14 01:41	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 01:41	1
Toluene	0.51	U	1.0	0.51	ug/L			01/24/14 01:41	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/24/14 01:41	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 01:41	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/24/14 01:41	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 01:41	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/24/14 01:41	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/24/14 01:41	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 01:41	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/24/14 01:41	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-11

Date Collected: 01/22/14 15:30

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-8

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130		01/24/14 01:41	1
Dibromofluoromethane	101		70 - 130		01/24/14 01:41	1
Toluene-d8 (Surr)	91		70 - 130		01/24/14 01:41	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0024	U	0.022	0.0024	ug/L		01/30/14 15:28	01/30/14 20:45	1
1,2-Dibromo-3-Chloropropane	0.0054	U	0.022	0.0054	ug/L		01/30/14 15:28	01/30/14 20:45	1
1,2,3-Trichloropropane	0.098	U	0.22	0.098	ug/L		01/30/14 15:28	01/30/14 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	104		60 - 144	01/30/14 15:28	01/30/14 20:45	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.4		0.50	0.25	mg/L			02/02/14 01:26	1

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/24/14 13:09	01/28/14 11:48	1
Arsenic	1.3	U	2.5	1.3	ug/L		01/24/14 13:09	01/28/14 11:48	1
Barium	23		5.0	1.3	ug/L		01/24/14 13:09	01/28/14 11:48	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/24/14 13:09	01/28/14 11:48	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/24/14 13:09	01/28/14 11:48	1
Chromium	2.5	U	5.0	2.5	ug/L		01/24/14 13:09	01/28/14 11:48	1
Cobalt	0.15	U	0.50	0.15	ug/L		01/24/14 13:09	01/28/14 11:48	1
Copper	1.1	U	5.0	1.1	ug/L		01/24/14 13:09	01/28/14 11:48	1
Iron	33	U	100	33	ug/L		01/24/14 13:09	01/28/14 11:48	1
Lead	0.20	U	1.5	0.20	ug/L		01/24/14 13:09	01/28/14 11:48	1
Nickel	2.0	U	5.0	2.0	ug/L		01/24/14 13:09	01/28/14 11:48	1
Selenium	1.0	U	2.5	1.0	ug/L		01/24/14 13:09	01/28/14 11:48	1
Silver	0.25	U	1.0	0.25	ug/L		01/24/14 13:09	01/28/14 11:48	1
Sodium	3.9		0.50	0.25	mg/L		01/24/14 13:09	01/28/14 11:48	1
Thallium	1.0		1.0	0.50	ug/L		01/24/14 13:09	01/28/14 11:48	1
Vanadium	3.8	U	10	3.8	ug/L		01/24/14 13:09	01/28/14 11:48	1
Zinc	8.3	U	20	8.3	ug/L		01/24/14 13:09	01/28/14 11:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/14 08:01	01/27/14 14:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.036	I	0.050	0.026	mg/L			01/28/14 13:18	1
Nitrate as N	0.31	I	0.50	0.10	mg/L			01/23/14 14:09	1
Total Dissolved Solids	200		10	10	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 15:30	1
Field pH	6.99				SU			01/22/14 15:30	1
Field Temperature	21.7				Degrees C			01/22/14 15:30	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-11

Date Collected: 01/22/14 15:30

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-8

Matrix: Ground Water

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxygen, Dissolved	0.57				mg/L			01/22/14 15:30	1
Sheen	No				SU			01/22/14 15:30	1
Specific Conductance	485				umhos/cm			01/22/14 15:30	1
Turbidity	0.88				NTU			01/22/14 15:30	1
Water Level	99.24				ft			01/22/14 15:30	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-18

Lab Sample ID: 660-58711-10

Date Collected: 01/22/14 14:50

Matrix: Ground Water

Date Received: 01/23/14 08:00

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 02:00	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/24/14 02:00	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 02:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Cloudy				Color Units			01/22/14 14:50	1
Field pH	4.95				SU			01/22/14 14:50	1
Field Temperature	20.5				Degrees C			01/22/14 14:50	1
Oxygen, Dissolved	1.77				mg/L			01/22/14 14:50	1
Sheen	No				SU			01/22/14 14:50	1
Specific Conductance	42				umhos/cm			01/22/14 14:50	1
Turbidity	31.9				NTU			01/22/14 14:50	1
Water Level	108.97				ft			01/22/14 14:50	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-19

Lab Sample ID: 660-58711-11

Date Collected: 01/22/14 15:59

Matrix: Ground Water

Date Received: 01/23/14 08:00

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 02:20	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/24/14 02:20	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 02:20	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 15:59	1
Field pH	6.11				SU			01/22/14 15:59	1
Field Temperature	22.7				Degrees C			01/22/14 15:59	1
Oxygen, Dissolved	0.81				mg/L			01/22/14 15:59	1
Sheen	No				SU			01/22/14 15:59	1
Specific Conductance	74				umhos/cm			01/22/14 15:59	1
Turbidity	1.91				NTU			01/22/14 15:59	1
Water Level	106.81				ft			01/22/14 15:59	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: Trip Blank

Lab Sample ID: 660-58711-12

Date Collected: 01/22/14 00:00

Matrix: Water

Date Received: 01/23/14 08:00

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/24/14 02:39	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/24/14 02:39	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/24/14 02:39	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/24/14 02:39	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/24/14 02:39	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/24/14 02:39	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/24/14 02:39	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/24/14 02:39	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/24/14 02:39	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/24/14 02:39	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/24/14 02:39	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/24/14 02:39	1
2-Butanone	8.4	U	10	8.4	ug/L			01/24/14 02:39	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/24/14 02:39	1
Acetone	9.9	U	20	9.9	ug/L			01/24/14 02:39	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/24/14 02:39	1
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 02:39	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/24/14 02:39	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/24/14 02:39	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/24/14 02:39	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/24/14 02:39	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/24/14 02:39	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/24/14 02:39	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/24/14 02:39	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/24/14 02:39	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/24/14 02:39	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/24/14 02:39	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/24/14 02:39	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 02:39	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/24/14 02:39	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/24/14 02:39	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/24/14 02:39	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/24/14 02:39	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/24/14 02:39	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/24/14 02:39	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/24/14 02:39	1
Styrene	0.98	U	2.0	0.98	ug/L			01/24/14 02:39	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 02:39	1
Toluene	0.51	U	1.0	0.51	ug/L			01/24/14 02:39	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/24/14 02:39	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/24/14 02:39	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/24/14 02:39	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/24/14 02:39	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/24/14 02:39	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/24/14 02:39	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 02:39	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/24/14 02:39	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: Trip Blank

Lab Sample ID: 660-58711-12

Date Collected: 01/22/14 00:00

Matrix: Water

Date Received: 01/23/14 08:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene	89		70 - 130		01/24/14 02:39	1
Dibromofluoromethane	102		70 - 130		01/24/14 02:39	1
Toluene-d8 (Surr)	91		70 - 130		01/24/14 02:39	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Method: 524.2 - Total Trihalomethane Calculation

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (70-130)	12DCB (70-130)
660-58670-1	Field Blank	92	94
LCS 680-313499/3	Lab Control Sample	101	102
LCSD 680-313499/4	Lab Control Sample Dup	100	100
LLCS 680-313499/5	Lab Control Sample	101	102
MB 680-313499/9	Method Blank	100	100
Surrogate Legend			
BFB = 4-Bromofluorobenzene			
12DCB = 1,2-Dichlorobenzene-d4			

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

Matrix: Ground Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (70-130)	DBFM (70-130)	TOL (70-130)
660-58669-1	MW-10	87	103	90
660-58669-1 DU	MW-10	89	100	89
660-58669-2	MW-21	93	101	89
660-58669-2 MS	MW-21	95	101	98
660-58669-3	MW-17	94	103	91
660-58669-4	MW-14	95	100	92
660-58711-1	MW-20	95	103	92
660-58711-1 MS	MW-20	97	103	97
660-58711-3	MW-7	98	97	90
660-58711-3 DU	MW-7	94	100	89
660-58711-4	MW-3	93	100	92
660-58711-5	MW-15	91	101	90
660-58711-6	MW-12	91	96	90
660-58711-7	MW-13	93	99	91
660-58711-8	MW-11	94	101	91
Surrogate Legend				
BFB = 4-Bromofluorobenzene				
DBFM = Dibromofluoromethane				
TOL = Toluene-d8 (Surr)				

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (70-130)	DBFM (70-130)	TOL (70-130)
640-46464-D-1 MS	Matrix Spike	93	101	97
640-46464-E-2 DU	Duplicate	78	100	85
660-58670-1	Field Blank	91	102	89
660-58711-12	Trip Blank	89	102	91
LCS 660-145468/4	Lab Control Sample	97	104	99
LCS 660-145542/4	Lab Control Sample	95	104	100
LCS 660-145560/5	Lab Control Sample	98	103	97

TestAmerica Tampa

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
MB 660-145468/6	Method Blank	95	99	89
MB 660-145542/6	Method Blank	95	102	91
MB 660-145560/7	Method Blank	93	96	91
Surrogate Legend				
BFB = 4-Bromofluorobenzene				
DBFM = Dibromofluoromethane				
TOL = Toluene-d8 (Surr)				

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

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCA2 (60-144)		
660-58669-1	MW-10	110		
660-58669-3	MW-17	106		
660-58711-1	MW-20	109		
660-58711-3	MW-7	108		
660-58711-6	MW-12	102		
660-58711-7	MW-13	108		
Surrogate Legend				
PCA = Pentachloroethane				

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

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCA1 (60-144)		
660-58669-1 MS	MW-10	94		
660-58669-2	MW-21	114		
660-58669-4	MW-14	104		
660-58711-4	MW-3	101		
660-58711-5	MW-15	95		
660-58711-8	MW-11	104		
Surrogate Legend				
PCA = Pentachloroethane				

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCA1 (60-144)		
660-58670-1	Field Blank	95		
LCS 680-313524/11-A	Lab Control Sample	99		
Surrogate Legend				

TestAmerica Tampa

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

PCA = Pentachloroethane

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	PCA2 (60-144)
LCSD 680-313524/12-A	Lab Control Sample Dup	100
MB 680-313524/10-A	Method Blank	99

Surrogate Legend

PCA = Pentachloroethane

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Method: 524.2 - Total Trihalomethane Calculation

Lab Sample ID: MB 680-313499/9

Matrix: Water

Analysis Batch: 313499

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.10	U	0.50	0.10	ug/L			01/30/14 15:47	1
Bromoform	0.39	U	0.50	0.39	ug/L			01/30/14 15:47	1
Chloroform	0.29	U	0.50	0.29	ug/L			01/30/14 15:47	1
Dibromochloromethane	0.43	U	0.50	0.43	ug/L			01/30/14 15:47	1
Trihalomethanes, Total	0.10	U	0.50	0.10	ug/L			01/30/14 15:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130		01/30/14 15:47	1
1,2-Dichlorobenzene-d4	100		70 - 130		01/30/14 15:47	1

Lab Sample ID: LCS 680-313499/3

Matrix: Water

Analysis Batch: 313499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	20.0	18.9		ug/L		95	70 - 130
Bromoform	20.0	21.2		ug/L		106	70 - 130
Chloroform	20.0	17.3		ug/L		86	70 - 130
Dibromochloromethane	20.0	19.2		ug/L		96	70 - 130
Trihalomethanes, Total	80.0	76.6		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		70 - 130
1,2-Dichlorobenzene-d4	102		70 - 130

Lab Sample ID: LCSD 680-313499/4

Matrix: Water

Analysis Batch: 313499

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
Bromodichloromethane	20.0	19.0		ug/L		95	70 - 130	0	30
Bromoform	20.0	21.0		ug/L		105	70 - 130	1	30
Chloroform	20.0	17.3		ug/L		86	70 - 130	0	30
Dibromochloromethane	20.0	20.0		ug/L		100	70 - 130	4	30
Trihalomethanes, Total	80.0	77.3		ug/L		97	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130
1,2-Dichlorobenzene-d4	100		70 - 130

Lab Sample ID: LLCS 680-313499/5

Matrix: Water

Analysis Batch: 313499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	0.500	0.507		ug/L		101	50 - 150
Bromoform	0.500	0.533		ug/L		107	50 - 150

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Method: 524.2 - Total Trihalomethane Calculation (Continued)

Lab Sample ID: LLCS 680-313499/5

Matrix: Water

Analysis Batch: 313499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	0.500	0.498	I	ug/L		100	50 - 150
Dibromochloromethane	0.500	0.520		ug/L		104	50 - 150
Trihalomethanes, Total	2.00	2.06		ug/L		103	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
4-Bromofluorobenzene	101		70 - 130
1,2-Dichlorobenzene-d4	102		70 - 130

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

Lab Sample ID: MB 660-145468/6

Matrix: Water

Analysis Batch: 145468

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			01/22/14 09:13	1
Acetone	9.9	U	20	9.9	ug/L			01/22/14 09:13	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/22/14 09:13	1
Benzene	0.50	U	1.0	0.50	ug/L			01/22/14 09:13	1
Chlorobromomethane	0.58	U	1.0	0.58	ug/L			01/22/14 09:13	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/22/14 09:13	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/22/14 09:13	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/22/14 09:13	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/22/14 09:13	1
Dichlorobromomethane	0.35	U	1.0	0.35	ug/L			01/22/14 09:13	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/22/14 09:13	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/22/14 09:13	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/22/14 09:13	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/22/14 09:13	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/22/14 09:13	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/22/14 09:13	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/22/14 09:13	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/22/14 09:13	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/22/14 09:13	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/22/14 09:13	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/22/14 09:13	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/22/14 09:13	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/22/14 09:13	1
Chlorodibromomethane	0.34	U	1.0	0.34	ug/L			01/22/14 09:13	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/22/14 09:13	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/22/14 09:13	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/22/14 09:13	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/22/14 09:13	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/22/14 09:13	1
4-Methyl-2-pentanone (MIBK)	3.8	U	10	3.8	ug/L			01/22/14 09:13	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/22/14 09:13	1
Styrene	0.98	U	2.0	0.98	ug/L			01/22/14 09:13	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/22/14 09:13	1

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: MB 660-145468/6

Matrix: Water

Analysis Batch: 145468

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/22/14 09:13	1
Toluene	0.51	U	1.0	0.51	ug/L			01/22/14 09:13	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/22/14 09:13	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/22/14 09:13	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/22/14 09:13	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/22/14 09:13	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/22/14 09:13	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/22/14 09:13	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/22/14 09:13	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/22/14 09:13	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/22/14 09:13	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/22/14 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		01/22/14 09:13	1
Dibromofluoromethane	99		70 - 130		01/22/14 09:13	1
Toluene-d8 (Surr)	89		70 - 130		01/22/14 09:13	1

Lab Sample ID: LCS 660-145468/4

Matrix: Water

Analysis Batch: 145468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	90.2		ug/L		90	63 - 140
Acetone	100	84.3		ug/L		84	62 - 142
Acrylonitrile	100	100		ug/L		100	59 - 146
Benzene	10.0	10.7		ug/L		107	68 - 134
Chlorobromomethane	10.0	10.9		ug/L		109	70 - 130
1,2-Dichlorobenzene	10.0	9.85		ug/L		99	70 - 130
1,4-Dichlorobenzene	10.0	9.54		ug/L		95	70 - 130
Bromoform	10.0	9.07		ug/L		91	65 - 130
Bromomethane	10.0	6.73		ug/L		67	22 - 150
Dichlorobromomethane	10.0	8.90		ug/L		89	70 - 130
1,1-Dichloroethane	10.0	10.4		ug/L		104	66 - 130
Carbon disulfide	10.0	10.8		ug/L		108	30 - 150
1,2-Dichloroethane	10.0	10.1		ug/L		101	70 - 130
Carbon tetrachloride	10.0	9.73		ug/L		97	61 - 134
1,1-Dichloroethene	10.0	9.81		ug/L		98	51 - 150
Chlorobenzene	10.0	9.62		ug/L		96	70 - 130
1,2-Dichloropropane	10.0	9.61		ug/L		96	70 - 130
Chloroethane	10.0	7.38		ug/L		74	39 - 150
Chloroform	10.0	9.94		ug/L		99	68 - 130
2-Hexanone	100	93.4		ug/L		93	60 - 148
Chloromethane	10.0	6.66		ug/L		67	35 - 150
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	66 - 130
cis-1,3-Dichloropropene	10.0	8.11		ug/L		81	70 - 130
Chlorodibromomethane	10.0	9.09		ug/L		91	70 - 130
1,1,1,2-Tetrachloroethane	10.0	9.38		ug/L		94	70 - 130

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: LCS 660-145468/4

Matrix: Water

Analysis Batch: 145468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	10.0	10.1		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.74		ug/L		97	70 - 130
Ethylbenzene	10.0	9.40		ug/L		94	70 - 130
Iodomethane	10.0	10.3		ug/L		103	50 - 150
4-Methyl-2-pentanone (MIBK)	100	90.7		ug/L		91	64 - 137
Methylene Chloride	10.0	10.2		ug/L		102	57 - 130
Styrene	10.0	8.80		ug/L		88	68 - 131
Tetrachloroethene	10.0	9.06		ug/L		91	50 - 143
1,1,1-Trichloroethane	10.0	9.42		ug/L		94	63 - 132
Toluene	10.0	9.57		ug/L		96	70 - 131
1,1,2-Trichloroethane	10.0	9.76		ug/L		98	70 - 130
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	62 - 139
trans-1,3-Dichloropropene	10.0	9.26		ug/L		93	67 - 130
1,2,3-Trichloropropane	10.0	9.88		ug/L		99	66 - 130
trans-1,4-Dichloro-2-butene	10.0	9.30	I	ug/L		93	70 - 130
Trichloroethene	10.0	9.86		ug/L		99	63 - 139
Trichlorofluoromethane	10.0	7.52		ug/L		75	62 - 146
Vinyl acetate	20.0	15.5		ug/L		77	31 - 146
Vinyl chloride	10.0	6.91		ug/L		69	48 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 640-46464-D-1 MS

Matrix: Water

Analysis Batch: 145468

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
2-Butanone (MEK)	8.4	U	100	81.7		ug/L		82	63 - 140
Acetone	9.9	U	100	83.2		ug/L		83	62 - 142
Acrylonitrile	1.2	U	100	89.1		ug/L		89	59 - 146
Benzene	0.50	U	10.0	9.31		ug/L		93	68 - 134
Chlorobromomethane	0.58	U	10.0	9.36		ug/L		94	70 - 130
1,2-Dichlorobenzene	0.44	U	10.0	8.72		ug/L		87	70 - 130
1,4-Dichlorobenzene	0.52	U	10.0	8.42		ug/L		84	70 - 130
Bromoform	0.58	U	10.0	8.18		ug/L		82	65 - 130
Bromomethane	2.5	U	10.0	4.13	I	ug/L		41	22 - 150
Dichlorobromomethane	0.35	U	10.0	7.86		ug/L		79	70 - 130
1,1-Dichloroethane	0.52	U	10.0	9.02		ug/L		90	66 - 130
Carbon disulfide	1.0	U	10.0	9.42		ug/L		94	30 - 150
1,2-Dichloroethane	0.57	U	10.0	8.93		ug/L		89	70 - 130
Carbon tetrachloride	0.42	U	10.0	8.84		ug/L		88	61 - 134
1,1-Dichloroethene	0.45	U	10.0	8.12		ug/L		81	51 - 150
Chlorobenzene	0.63	U	10.0	8.87		ug/L		89	70 - 130
1,2-Dichloropropane	0.52	U	10.0	8.74		ug/L		87	70 - 130
Chloroethane	2.5	U	10.0	7.30		ug/L		73	39 - 150

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: 640-46464-D-1 MS

Matrix: Water

Analysis Batch: 145468

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
Chloroform	0.90	U	10.0	8.85		ug/L		89	68 - 130
2-Hexanone	4.4	U	100	90.3		ug/L		90	60 - 148
Chloromethane	1.0	U	10.0	6.42		ug/L		64	35 - 150
cis-1,2-Dichloroethene	0.65	U	10.0	9.03		ug/L		90	66 - 130
cis-1,3-Dichloropropene	0.14	U J3	10.0	6.29	J3	ug/L		63	70 - 130
Chlorodibromomethane	0.34	U	10.0	7.94		ug/L		79	70 - 130
1,1,1,2-Tetrachloroethane	0.63	U	10.0	8.22		ug/L		82	70 - 130
Dibromomethane	0.41	U	10.0	9.01		ug/L		90	70 - 130
1,1,2,2-Tetrachloroethane	0.15	U	10.0	8.79		ug/L		88	70 - 130
Ethylbenzene	0.44	U	10.0	8.02		ug/L		80	70 - 130
Iodomethane	2.5	U	10.0	9.49		ug/L		95	50 - 150
4-Methyl-2-pentanone (MIBK)	3.8	U	100	86.1		ug/L		86	64 - 137
Methylene Chloride	4.0	U	10.0	7.91		ug/L		79	57 - 130
Styrene	0.98	U	10.0	7.43		ug/L		74	68 - 131
Tetrachloroethene	0.50	U	10.0	8.10		ug/L		81	50 - 143
1,1,1-Trichloroethane	0.46	U	10.0	8.59		ug/L		86	63 - 132
Toluene	0.51	U	10.0	8.51		ug/L		85	70 - 131
1,1,2-Trichloroethane	0.47	U	10.0	8.36		ug/L		84	70 - 130
trans-1,2-Dichloroethene	0.44	U	10.0	9.35		ug/L		94	62 - 139
trans-1,3-Dichloropropene	0.14	U	10.0	7.91		ug/L		79	67 - 130
1,2,3-Trichloropropane	0.18	U	10.0	8.47		ug/L		85	66 - 130
trans-1,4-Dichloro-2-butene	2.5	U	10.0	7.75	I	ug/L		77	70 - 130
Trichloroethene	0.50	U	10.0	8.67		ug/L		87	63 - 139
Trichlorofluoromethane	2.5	U	10.0	8.18		ug/L		82	62 - 146
Vinyl acetate	1.5	U	20.0	14.0		ug/L		70	31 - 146
Vinyl chloride	0.50	U	10.0	7.30		ug/L		73	48 - 147

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	93		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 640-46464-E-2 DU

Matrix: Water

Analysis Batch: 145468

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
2-Butanone (MEK)	8.4	U	8.4	U	ug/L		NC	30
Acetone	9.9	U	9.9	U	ug/L		NC	30
Acrylonitrile	1.2	U	1.2	U	ug/L		NC	30
Benzene	38		39.0		ug/L		3	30
Chlorobromomethane	0.58	U	0.58	U	ug/L		NC	30
1,2-Dichlorobenzene	0.44	U	0.44	U	ug/L		NC	30
1,4-Dichlorobenzene	0.52	U	0.52	U	ug/L		NC	30
Bromoform	0.58	U	0.58	U	ug/L		NC	30
Bromomethane	2.5	U	2.5	U	ug/L		NC	30
Dichlorobromomethane	0.35	U	0.35	U	ug/L		NC	30
1,1-Dichloroethane	1.4		1.31		ug/L		8	30

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: 640-46464-E-2 DU

Matrix: Water

Analysis Batch: 145468

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Carbon disulfide	1.0	U	1.0	U	ug/L		NC	30
1,2-Dichloroethane	0.57	U	0.57	U	ug/L		NC	30
Carbon tetrachloride	0.42	U	0.42	U	ug/L		NC	30
1,1-Dichloroethene	0.46	I	0.45	U	ug/L		NC	30
Chlorobenzene	0.63	U	0.63	U	ug/L		NC	30
1,2-Dichloropropane	0.52	U	0.52	U	ug/L		NC	30
Chloroethane	2.5	U	2.5	U	ug/L		NC	30
Chloroform	0.90	U	0.90	U	ug/L		NC	30
2-Hexanone	4.4	U	4.4	U	ug/L		NC	30
Chloromethane	1.0	U	1.0	U	ug/L		NC	30
cis-1,2-Dichloroethene	17		18.2		ug/L		5	30
cis-1,3-Dichloropropene	0.14	U	0.14	U	ug/L		NC	30
Chlorodibromomethane	0.34	U	0.34	U	ug/L		NC	30
1,1,1,2-Tetrachloroethane	0.63	U	0.63	U	ug/L		NC	30
Dibromomethane	0.41	U	0.41	U	ug/L		NC	30
1,1,2,2-Tetrachloroethane	0.15	U	0.15	U	ug/L		NC	30
Ethylbenzene	13		13.8		ug/L		3	30
Iodomethane	2.5	U	2.5	U	ug/L		NC	30
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	U	ug/L		NC	30
Methylene Chloride	4.0	U	4.0	U	ug/L		NC	30
Styrene	0.98	U	0.98	U	ug/L		NC	30
Tetrachloroethene	1.6		1.67		ug/L		2	30
1,1,1-Trichloroethane	0.46	U	0.46	U	ug/L		NC	30
Toluene	0.51	U	0.51	U	ug/L		NC	30
1,1,2-Trichloroethane	0.47	U	0.47	U	ug/L		NC	30
trans-1,2-Dichloroethene	1.0		0.928	I	ug/L		9	30
trans-1,3-Dichloropropene	0.14	U	0.14	U	ug/L		NC	30
1,2,3-Trichloropropane	0.18	U	0.18	U	ug/L		NC	30
trans-1,4-Dichloro-2-butene	2.5	U	2.5	U	ug/L		NC	30
Trichloroethene	3.5		3.78		ug/L		7	30
Trichlorofluoromethane	2.5	U	2.5	U	ug/L		NC	30
Vinyl acetate	1.5	U	1.5	U	ug/L		NC	30
Vinyl chloride	16		17.1		ug/L		5	30
Xylenes, Total	4.4		4.53		ug/L		2	30

Surrogate	%Recovery	DU Qualifier	Limits
4-Bromofluorobenzene	78		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	85		70 - 130

Lab Sample ID: MB 660-145542/6

Matrix: Water

Analysis Batch: 145542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/23/14 08:51	1
2-Butanone	8.4	U	10	8.4	ug/L			01/23/14 08:51	1
Acetone	9.9	U	20	9.9	ug/L			01/23/14 08:51	1

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: MB 660-145542/6

Matrix: Water

Analysis Batch: 145542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	1.2	U	10	1.2	ug/L			01/23/14 08:51	1
Benzene	0.50	U	1.0	0.50	ug/L			01/23/14 08:51	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/23/14 08:51	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/23/14 08:51	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/23/14 08:51	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/23/14 08:51	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/23/14 08:51	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/23/14 08:51	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/23/14 08:51	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/23/14 08:51	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/23/14 08:51	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/23/14 08:51	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/23/14 08:51	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/23/14 08:51	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/23/14 08:51	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/23/14 08:51	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/23/14 08:51	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/23/14 08:51	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/23/14 08:51	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/23/14 08:51	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 08:51	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/23/14 08:51	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/23/14 08:51	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/23/14 08:51	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/23/14 08:51	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/23/14 08:51	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/23/14 08:51	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/23/14 08:51	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/23/14 08:51	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/23/14 08:51	1
Styrene	0.98	U	2.0	0.98	ug/L			01/23/14 08:51	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 08:51	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/23/14 08:51	1
Toluene	0.51	U	1.0	0.51	ug/L			01/23/14 08:51	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/23/14 08:51	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/23/14 08:51	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 08:51	1
1,2,3-Trichloropropane	0.18	U	1.0	0.18	ug/L			01/23/14 08:51	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/23/14 08:51	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 08:51	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/23/14 08:51	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/23/14 08:51	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/23/14 08:51	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/23/14 08:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		01/23/14 08:51	1
Dibromofluoromethane	102		70 - 130		01/23/14 08:51	1

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: MB 660-145542/6

Matrix: Water

Analysis Batch: 145542

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		01/23/14 08:51	1

Lab Sample ID: LCS 660-145542/4

Matrix: Water

Analysis Batch: 145542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	7.71		ug/L		77	63 - 130
2-Butanone	100	83.7		ug/L		84	63 - 140
Acetone	100	77.7		ug/L		78	62 - 142
Acrylonitrile	100	89.1		ug/L		89	59 - 146
Benzene	10.0	10.4		ug/L		104	68 - 134
Bromochloromethane	10.0	10.3		ug/L		103	70 - 130
1,2-Dichlorobenzene	10.0	9.87		ug/L		99	70 - 130
1,4-Dichlorobenzene	10.0	9.43		ug/L		94	70 - 130
Bromoform	10.0	8.16		ug/L		82	65 - 130
Bromodichloromethane	10.0	8.65		ug/L		86	70 - 130
Bromomethane	10.0	6.98		ug/L		70	22 - 150
1,1-Dichloroethane	10.0	10.6		ug/L		106	66 - 130
Carbon disulfide	10.0	10.9		ug/L		109	30 - 150
1,2-Dichloroethane	10.0	9.71		ug/L		97	70 - 130
Carbon tetrachloride	10.0	10.2		ug/L		102	61 - 134
1,1-Dichloroethene	10.0	9.41		ug/L		94	51 - 150
Chlorobenzene	10.0	9.22		ug/L		92	70 - 130
1,2-Dichloropropane	10.0	9.76		ug/L		98	70 - 130
Chloroethane	10.0	8.39		ug/L		84	39 - 150
Chloroform	10.0	9.86		ug/L		99	68 - 130
2-Hexanone	100	89.8		ug/L		90	60 - 148
Chloromethane	10.0	6.89		ug/L		69	35 - 150
cis-1,2-Dichloroethene	10.0	9.91		ug/L		99	66 - 130
cis-1,3-Dichloropropene	10.0	7.88		ug/L		79	70 - 130
Dibromochloromethane	10.0	8.72		ug/L		87	70 - 130
1,1,1,2-Tetrachloroethane	10.0	8.99		ug/L		90	70 - 130
Dibromomethane	10.0	9.82		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.00		ug/L		90	70 - 130
Ethylbenzene	10.0	9.17		ug/L		92	70 - 130
Ethylene Dibromide	10.0	8.61		ug/L		86	66 - 130
Iodomethane	10.0	12.7		ug/L		127	50 - 150
Methyl isobutyl ketone (MIBK)	100	86.4		ug/L		86	64 - 137
Methylene Chloride	10.0	10.1		ug/L		101	57 - 130
Styrene	10.0	8.62		ug/L		86	68 - 131
Tetrachloroethene	10.0	8.96		ug/L		90	50 - 143
1,1,1-Trichloroethane	10.0	9.44		ug/L		94	63 - 132
Toluene	10.0	9.53		ug/L		95	70 - 131
1,1,2-Trichloroethane	10.0	9.25		ug/L		93	70 - 130
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	62 - 139
trans-1,3-Dichloropropene	10.0	8.75		ug/L		87	67 - 130
1,2,3-Trichloropropane	10.0	8.75		ug/L		88	66 - 130

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: LCS 660-145542/4

Matrix: Water

Analysis Batch: 145542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	10.0	8.50	I	ug/L		85	70 - 130
Trichloroethene	10.0	9.52		ug/L		95	63 - 139
Trichlorofluoromethane	10.0	7.97		ug/L		80	62 - 146
Vinyl acetate	20.0	15.5		ug/L		78	31 - 146
Vinyl chloride	10.0	7.40		ug/L		74	48 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: 660-58669-2 MS

Matrix: Ground Water

Analysis Batch: 145542

Client Sample ID: MW-21

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	2.5	U	10.0	8.25		ug/L		82	63 - 130
2-Butanone	8.4	U	100	84.3		ug/L		84	63 - 140
Acetone	9.9	U	100	75.2		ug/L		75	62 - 142
Acrylonitrile	1.2	U	100	88.7		ug/L		89	59 - 146
Benzene	1.3		10.0	11.6		ug/L		103	68 - 134
Bromochloromethane	0.58	U	10.0	9.80		ug/L		98	70 - 130
1,2-Dichlorobenzene	0.44	U	10.0	9.66		ug/L		97	70 - 130
1,4-Dichlorobenzene	13	J3	10.0	18.7	J3	ug/L		61	70 - 130
Bromoform	0.58	U	10.0	8.26		ug/L		83	65 - 130
Bromodichloromethane	0.35	U	10.0	8.34		ug/L		83	70 - 130
Bromomethane	2.5	U	10.0	5.44		ug/L		54	22 - 150
1,1-Dichloroethane	0.52	U	10.0	10.4		ug/L		104	66 - 130
Carbon disulfide	1.0	U	10.0	10.1		ug/L		101	30 - 150
1,2-Dichloroethane	0.57	U	10.0	9.52		ug/L		95	70 - 130
Carbon tetrachloride	0.42	U	10.0	9.74		ug/L		97	61 - 134
1,1-Dichloroethene	0.45	U	10.0	8.63		ug/L		86	51 - 150
Chlorobenzene	1.5		10.0	10.6		ug/L		90	70 - 130
1,2-Dichloropropane	0.52	U	10.0	9.27		ug/L		93	70 - 130
Chloroethane	2.5	U	10.0	8.19		ug/L		82	39 - 150
Chloroform	0.90	U	10.0	9.63		ug/L		96	68 - 130
2-Hexanone	4.4	U	100	92.1		ug/L		92	60 - 148
Chloromethane	1.0	U	10.0	6.79		ug/L		68	35 - 150
cis-1,2-Dichloroethene	1.2		10.0	10.7		ug/L		95	66 - 130
cis-1,3-Dichloropropene	0.14	U	10.0	7.54		ug/L		75	70 - 130
Dibromochloromethane	0.34	U	10.0	8.54		ug/L		85	70 - 130
1,1,1,2-Tetrachloroethane	0.63	U	10.0	8.86		ug/L		89	70 - 130
Dibromomethane	0.41	U	10.0	9.21		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	0.15	U	10.0	9.21		ug/L		92	70 - 130
Ethylbenzene	0.69	I	10.0	9.61		ug/L		89	70 - 130
Ethylene Dibromide	0.50	U	10.0	8.70		ug/L		87	66 - 130
Iodomethane	2.5	U	10.0	12.8		ug/L		128	50 - 150
Methyl isobutyl ketone (MIBK)	3.8	U	100	90.2		ug/L		90	64 - 137

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: 660-58669-2 MS

Matrix: Ground Water

Analysis Batch: 145542

Client Sample ID: MW-21

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	4.0	U	10.0	8.66		ug/L		87	57 - 130
Styrene	0.98	U	10.0	8.34		ug/L		83	68 - 131
Tetrachloroethene	0.50	U	10.0	8.83		ug/L		88	50 - 143
1,1,1-Trichloroethane	0.46	U	10.0	9.10		ug/L		91	63 - 132
Toluene	0.51	U	10.0	9.08		ug/L		91	70 - 131
1,1,2-Trichloroethane	0.47	U	10.0	8.63		ug/L		86	70 - 130
trans-1,2-Dichloroethene	0.44	U	10.0	10.3		ug/L		103	62 - 139
trans-1,3-Dichloropropene	0.14	U	10.0	8.47		ug/L		85	67 - 130
1,2,3-Trichloropropane	0.18	U	10.0	8.96		ug/L		90	66 - 130
trans-1,4-Dichloro-2-butene	2.5	U	10.0	7.89	I	ug/L		79	70 - 130
Trichloroethene	0.50	U	10.0	9.23		ug/L		92	63 - 139
Trichlorofluoromethane	2.5	U	10.0	8.16		ug/L		82	62 - 146
Vinyl acetate	1.5	U	20.0	14.4		ug/L		72	31 - 146
Vinyl chloride	0.68	I	10.0	8.07		ug/L		74	48 - 147

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: 660-58669-1 DU

Matrix: Ground Water

Analysis Batch: 145542

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	U	ug/L		NC	30
2-Butanone	8.4	U	8.4	U	ug/L		NC	30
Acetone	9.9	U	9.9	U	ug/L		NC	30
Acrylonitrile	1.2	U	1.2	U	ug/L		NC	30
Benzene	1.2		1.13		ug/L		4	30
Bromochloromethane	0.58	U	0.58	U	ug/L		NC	30
1,2-Dichlorobenzene	0.44	U	0.44	U	ug/L		NC	30
1,4-Dichlorobenzene	7.8		7.67		ug/L		1	30
Bromoform	0.58	U	0.58	U	ug/L		NC	30
Bromodichloromethane	0.35	U	0.35	U	ug/L		NC	30
Bromomethane	2.5	U	2.5	U	ug/L		NC	30
1,1-Dichloroethane	1.2		1.07		ug/L		7	30
Carbon disulfide	1.0	U	1.0	U	ug/L		NC	30
1,2-Dichloroethane	0.57	U	0.57	U	ug/L		NC	30
Carbon tetrachloride	0.42	U	0.42	U	ug/L		NC	30
1,1-Dichloroethene	0.45	U	0.45	U	ug/L		NC	30
Chlorobenzene	0.63	U	0.63	U	ug/L		NC	30
1,2-Dichloropropane	0.52	U	0.52	U	ug/L		NC	30
Chloroethane	2.5	U	2.5	U	ug/L		NC	30
Chloroform	0.90	U	0.90	U	ug/L		NC	30
2-Hexanone	4.4	U	4.4	U	ug/L		NC	30
Chloromethane	1.0	U	1.0	U	ug/L		NC	30
cis-1,2-Dichloroethene	3.4		3.18		ug/L		6	30

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: 660-58669-1 DU

Matrix: Ground Water

Analysis Batch: 145542

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
cis-1,3-Dichloropropene	0.14	U	0.14	U	ug/L		NC	30
Dibromochloromethane	0.34	U	0.34	U	ug/L		NC	30
1,1,1,2-Tetrachloroethane	0.63	U	0.63	U	ug/L		NC	30
Dibromomethane	0.41	U	0.41	U	ug/L		NC	30
1,1,2,2-Tetrachloroethane	0.15	U	0.15	U	ug/L		NC	30
Ethylbenzene	0.44	U	0.44	U	ug/L		NC	30
Ethylene Dibromide	0.50	U	0.50	U	ug/L		NC	30
Iodomethane	2.5	U	2.5	U	ug/L		NC	30
Methyl isobutyl ketone (MIBK)	3.8	U	3.8	U	ug/L		NC	30
Methylene Chloride	4.0	U	4.0	U	ug/L		NC	30
Styrene	0.98	U	0.98	U	ug/L		NC	30
Tetrachloroethene	0.50	U	0.50	U	ug/L		NC	30
1,1,1-Trichloroethane	0.46	U	0.46	U	ug/L		NC	30
Toluene	0.51	U	0.51	U	ug/L		NC	30
1,1,2-Trichloroethane	0.47	U	0.47	U	ug/L		NC	30
trans-1,2-Dichloroethene	0.44	U	0.44	U	ug/L		NC	30
trans-1,3-Dichloropropene	0.14	U	0.14	U	ug/L		NC	30
1,2,3-Trichloropropane	0.18	U	0.18	U	ug/L		NC	30
trans-1,4-Dichloro-2-butene	2.5	U	2.5	U	ug/L		NC	30
Trichloroethene	0.50	U	0.50	U	ug/L		NC	30
Trichlorofluoromethane	2.5	U	2.5	U	ug/L		NC	30
Vinyl acetate	1.5	U	1.5	U	ug/L		NC	30
Vinyl chloride	1.5		1.48		ug/L		3	30
Xylenes, Total	2.1	I	1.85	I	ug/L		11	30

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	89		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	89		70 - 130

Lab Sample ID: MB 660-145560/7

Matrix: Water

Analysis Batch: 145560

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			01/23/14 22:19	1
2-Butanone	8.4	U	10	8.4	ug/L			01/23/14 22:19	1
Acetone	9.9	U	20	9.9	ug/L			01/23/14 22:19	1
Acrylonitrile	1.2	U	10	1.2	ug/L			01/23/14 22:19	1
Benzene	0.50	U	1.0	0.50	ug/L			01/23/14 22:19	1
Bromochloromethane	0.58	U	1.0	0.58	ug/L			01/23/14 22:19	1
1,2-Dichlorobenzene	0.44	U	1.0	0.44	ug/L			01/23/14 22:19	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			01/23/14 22:19	1
Bromoform	0.58	U	1.0	0.58	ug/L			01/23/14 22:19	1
Bromodichloromethane	0.35	U	1.0	0.35	ug/L			01/23/14 22:19	1
Bromomethane	2.5	U	5.0	2.5	ug/L			01/23/14 22:19	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			01/23/14 22:19	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			01/23/14 22:19	1

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: MB 660-145560/7

Matrix: Water

Analysis Batch: 145560

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			01/23/14 22:19	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			01/23/14 22:19	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			01/23/14 22:19	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			01/23/14 22:19	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			01/23/14 22:19	1
Chloroethane	2.5	U	5.0	2.5	ug/L			01/23/14 22:19	1
Chloroform	0.90	U	1.0	0.90	ug/L			01/23/14 22:19	1
2-Hexanone	4.4	U	10	4.4	ug/L			01/23/14 22:19	1
Chloromethane	1.0	U	4.0	1.0	ug/L			01/23/14 22:19	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			01/23/14 22:19	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 22:19	1
Dibromochloromethane	0.34	U	1.0	0.34	ug/L			01/23/14 22:19	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			01/23/14 22:19	1
Dibromomethane	0.41	U	1.0	0.41	ug/L			01/23/14 22:19	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			01/23/14 22:19	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/23/14 22:19	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			01/23/14 22:19	1
Iodomethane	2.5	U	5.0	2.5	ug/L			01/23/14 22:19	1
Methyl isobutyl ketone (MIBK)	3.8	U	10	3.8	ug/L			01/23/14 22:19	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			01/23/14 22:19	1
Styrene	0.98	U	2.0	0.98	ug/L			01/23/14 22:19	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 22:19	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			01/23/14 22:19	1
Toluene	0.51	U	1.0	0.51	ug/L			01/23/14 22:19	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			01/23/14 22:19	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			01/23/14 22:19	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			01/23/14 22:19	1
1,2,3-Trichloropropene	0.18	U	1.0	0.18	ug/L			01/23/14 22:19	1
trans-1,4-Dichloro-2-butene	2.5	U	10	2.5	ug/L			01/23/14 22:19	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			01/23/14 22:19	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			01/23/14 22:19	1
Vinyl acetate	1.5	U	10	1.5	ug/L			01/23/14 22:19	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/23/14 22:19	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/23/14 22:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 130		01/23/14 22:19	1
Dibromofluoromethane	96		70 - 130		01/23/14 22:19	1
Toluene-d8 (Surr)	91		70 - 130		01/23/14 22:19	1

Lab Sample ID: LCS 660-145560/5

Matrix: Water

Analysis Batch: 145560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	9.17		ug/L		92	63 - 130
2-Butanone	100	106		ug/L		106	63 - 140
Acetone	100	110		ug/L		110	62 - 142

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: LCS 660-145560/5

Matrix: Water

Analysis Batch: 145560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrylonitrile	100	108		ug/L		108	59 - 146
Benzene	10.0	12.2		ug/L		122	68 - 134
Bromochloromethane	10.0	11.7		ug/L		117	70 - 130
1,2-Dichlorobenzene	10.0	11.2		ug/L		112	70 - 130
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	70 - 130
Bromoform	10.0	9.67		ug/L		97	65 - 130
Bromodichloromethane	10.0	10.1		ug/L		101	70 - 130
Bromomethane	10.0	8.69		ug/L		87	22 - 150
1,1-Dichloroethane	10.0	11.8		ug/L		118	66 - 130
Carbon disulfide	10.0	12.8		ug/L		128	30 - 150
1,2-Dichloroethane	10.0	11.5		ug/L		115	70 - 130
Carbon tetrachloride	10.0	11.6		ug/L		116	61 - 134
1,1-Dichloroethene	10.0	11.6		ug/L		116	51 - 150
Chlorobenzene	10.0	10.8		ug/L		108	70 - 130
1,2-Dichloropropane	10.0	10.5		ug/L		105	70 - 130
Chloroethane	10.0	9.83		ug/L		98	39 - 150
Chloroform	10.0	11.5		ug/L		115	68 - 130
2-Hexanone	100	94.9		ug/L		95	60 - 148
Chloromethane	10.0	8.60		ug/L		86	35 - 150
cis-1,2-Dichloroethene	10.0	11.9		ug/L		119	66 - 130
cis-1,3-Dichloropropene	10.0	9.11		ug/L		91	70 - 130
Dibromochloromethane	10.0	9.98		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	10.0	9.92		ug/L		99	70 - 130
Dibromomethane	10.0	11.1		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.2		ug/L		102	70 - 130
Ethylbenzene	10.0	11.0		ug/L		110	70 - 130
Ethylene Dibromide	10.0	10.5		ug/L		105	66 - 130
Iodomethane	10.0	13.0		ug/L		130	50 - 150
Methyl isobutyl ketone (MIBK)	100	95.8		ug/L		96	64 - 137
Methylene Chloride	10.0	11.5		ug/L		115	57 - 130
Styrene	10.0	10.0		ug/L		100	68 - 131
Tetrachloroethene	10.0	10.4		ug/L		104	50 - 143
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	63 - 132
Toluene	10.0	11.0		ug/L		110	70 - 131
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	70 - 130
trans-1,2-Dichloroethene	10.0	12.9		ug/L		129	62 - 139
trans-1,3-Dichloropropene	10.0	9.90		ug/L		99	67 - 130
1,2,3-Trichloropropane	10.0	10.3		ug/L		103	66 - 130
trans-1,4-Dichloro-2-butene	10.0	9.74	I	ug/L		97	70 - 130
Trichloroethene	10.0	11.5		ug/L		115	63 - 139
Trichlorofluoromethane	10.0	10.3		ug/L		103	62 - 146
Vinyl acetate	20.0	18.2		ug/L		91	31 - 146
Vinyl chloride	10.0	9.49		ug/L		95	48 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: 660-58711-1 MS

Matrix: Ground Water

Analysis Batch: 145560

Client Sample ID: MW-20

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
1,2-Dibromo-3-Chloropropane	2.5	U	10.0	8.88		ug/L		89		63 - 130
2-Butanone	8.4	U	100	104		ug/L		104		63 - 140
Acetone	9.9	U	100	109		ug/L		109		62 - 142
Acrylonitrile	1.2	U	100	104		ug/L		104		59 - 146
Benzene	0.50	U	10.0	12.4		ug/L		124		68 - 134
Bromochloromethane	0.58	U	10.0	11.1		ug/L		111		70 - 130
1,2-Dichlorobenzene	0.44	U	10.0	10.9		ug/L		109		70 - 130
1,4-Dichlorobenzene	0.52	U	10.0	10.3		ug/L		103		70 - 130
Bromoform	0.58	U	10.0	9.75		ug/L		97		65 - 130
Bromodichloromethane	0.35	U	10.0	9.98		ug/L		100		70 - 130
Bromomethane	2.5	U	10.0	7.63		ug/L		76		22 - 150
1,1-Dichloroethane	0.52	U	10.0	11.8		ug/L		118		66 - 130
Carbon disulfide	1.0	U	10.0	12.8		ug/L		128		30 - 150
1,2-Dichloroethane	0.57	U	10.0	11.3		ug/L		113		70 - 130
Carbon tetrachloride	0.42	U	10.0	11.6		ug/L		116		61 - 134
1,1-Dichloroethene	0.45	U	10.0	11.7		ug/L		117		51 - 150
Chlorobenzene	0.63	U	10.0	10.7		ug/L		107		70 - 130
1,2-Dichloropropane	0.52	U	10.0	10.7		ug/L		107		70 - 130
Chloroethane	2.5	U	10.0	9.15		ug/L		91		39 - 150
Chloroform	0.90	U	10.0	11.2		ug/L		112		68 - 130
2-Hexanone	4.4	U	100	97.1		ug/L		97		60 - 148
Chloromethane	1.0	U	10.0	7.98		ug/L		80		35 - 150
cis-1,2-Dichloroethene	0.65	U	10.0	11.6		ug/L		116		66 - 130
cis-1,3-Dichloropropene	0.14	U	10.0	8.79		ug/L		88		70 - 130
Dibromochloromethane	0.34	U	10.0	9.91		ug/L		99		70 - 130
1,1,1,2-Tetrachloroethane	0.63	U	10.0	10.1		ug/L		101		70 - 130
Dibromomethane	0.41	U	10.0	11.2		ug/L		112		70 - 130
1,1,2,2-Tetrachloroethane	0.15	U	10.0	10.2		ug/L		102		70 - 130
Ethylbenzene	0.44	U	10.0	10.6		ug/L		106		70 - 130
Ethylene Dibromide	0.50	U	10.0	10.2		ug/L		102		66 - 130
Iodomethane	2.5	U	10.0	11.1		ug/L		111		50 - 150
Methyl isobutyl ketone (MIBK)	3.8	U	100	98.9		ug/L		99		64 - 137
Methylene Chloride	4.0	U	10.0	9.95		ug/L		99		57 - 130
Styrene	0.98	U	10.0	9.88		ug/L		99		68 - 131
Tetrachloroethene	0.50	U	10.0	10.6		ug/L		106		50 - 143
1,1,1-Trichloroethane	0.46	U	10.0	11.3		ug/L		113		63 - 132
Toluene	0.51	U	10.0	10.9		ug/L		109		70 - 131
1,1,2-Trichloroethane	0.47	U	10.0	10.2		ug/L		102		70 - 130
trans-1,2-Dichloroethene	0.44	U	10.0	12.7		ug/L		127		62 - 139
trans-1,3-Dichloropropene	0.14	U	10.0	9.69		ug/L		97		67 - 130
1,2,3-Trichloropropane	0.18	U	10.0	9.88		ug/L		99		66 - 130
trans-1,4-Dichloro-2-butene	2.5	U	10.0	9.37	I	ug/L		94		70 - 130
Trichloroethene	0.50	U	10.0	11.2		ug/L		112		63 - 139
Trichlorofluoromethane	2.5	U	10.0	9.92		ug/L		99		62 - 146
Vinyl acetate	1.5	U	20.0	16.6		ug/L		83		31 - 146
Vinyl chloride	0.50	U	10.0	8.59		ug/L		86		48 - 147

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: 660-58711-1 MS

Matrix: Ground Water

Analysis Batch: 145560

Client Sample ID: MW-20

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 660-58711-3 DU

Matrix: Ground Water

Analysis Batch: 145560

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	U	ug/L		NC	30
2-Butanone	8.4	U	8.4	U	ug/L		NC	30
Acetone	9.9	U	9.9	U	ug/L		NC	30
Acrylonitrile	1.2	U	1.2	U	ug/L		NC	30
Benzene	1.1		1.17		ug/L		4	30
Bromochloromethane	0.58	U	0.58	U	ug/L		NC	30
1,2-Dichlorobenzene	0.44	U	0.44	U	ug/L		NC	30
1,4-Dichlorobenzene	1.6		1.53		ug/L		3	30
Bromoform	0.58	U	0.58	U	ug/L		NC	30
Bromodichloromethane	0.35	U	0.35	U	ug/L		NC	30
Bromomethane	2.5	U	2.5	U	ug/L		NC	30
1,1-Dichloroethane	0.52	U	0.52	U	ug/L		NC	30
Carbon disulfide	1.0	U	1.0	U	ug/L		NC	30
1,2-Dichloroethane	0.57	U	0.57	U	ug/L		NC	30
Carbon tetrachloride	0.42	U	0.42	U	ug/L		NC	30
1,1-Dichloroethene	0.45	U	0.45	U	ug/L		NC	30
Chlorobenzene	0.91	I	0.871	I	ug/L		4	30
1,2-Dichloropropane	0.52	U	0.52	U	ug/L		NC	30
Chloroethane	2.5	U	2.5	U	ug/L		NC	30
Chloroform	0.90	U	0.90	U	ug/L		NC	30
2-Hexanone	4.4	U	4.4	U	ug/L		NC	30
Chloromethane	1.0	U	1.0	U	ug/L		NC	30
cis-1,2-Dichloroethene	0.65	U	0.65	U	ug/L		NC	30
cis-1,3-Dichloropropene	0.14	U	0.14	U	ug/L		NC	30
Dibromochloromethane	0.34	U	0.34	U	ug/L		NC	30
1,1,1,2-Tetrachloroethane	0.63	U	0.63	U	ug/L		NC	30
Dibromomethane	0.41	U	0.41	U	ug/L		NC	30
1,1,1,2,2-Tetrachloroethane	0.15	U	0.15	U	ug/L		NC	30
Ethylbenzene	2.7		2.82		ug/L		4	30
Ethylene Dibromide	0.50	U	0.50	U	ug/L		NC	30
Iodomethane	2.5	U	2.5	U	ug/L		NC	30
Methyl isobutyl ketone (MIBK)	3.8	U	3.8	U	ug/L		NC	30
Methylene Chloride	4.0	U	4.0	U	ug/L		NC	30
Styrene	0.98	U	0.98	U	ug/L		NC	30
Tetrachloroethene	0.50	U	0.50	U	ug/L		NC	30
1,1,1-Trichloroethane	0.46	U	0.46	U	ug/L		NC	30
Toluene	0.51	U	0.51	U	ug/L		NC	30
1,1,2-Trichloroethane	0.47	U	0.47	U	ug/L		NC	30
trans-1,2-Dichloroethene	0.44	U	0.44	U	ug/L		NC	30

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: 660-58711-3 DU

Matrix: Ground Water

Analysis Batch: 145560

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
trans-1,3-Dichloropropene	0.14	U	0.14	U	ug/L		NC	30
1,2,3-Trichloropropane	0.18	U	0.18	U	ug/L		NC	30
trans-1,4-Dichloro-2-butene	2.5	U	2.5	U	ug/L		NC	30
Trichloroethene	0.50	U	0.50	U	ug/L		NC	30
Trichlorofluoromethane	2.5	U	2.5	U	ug/L		NC	30
Vinyl acetate	1.5	U	1.5	U	ug/L		NC	30
Vinyl chloride	0.50	U	0.50	U	ug/L		NC	30
Xylenes, Total	1.0	I	1.01	I	ug/L		0.7	30

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	89		70 - 130

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

Lab Sample ID: MB 680-313524/10-A

Matrix: Water

Analysis Batch: 313582

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 313524

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0022	U	0.020	0.0022	ug/L		01/30/14 15:28	01/30/14 18:37	1
1,2-Dibromo-3-Chloropropane	0.0050	U	0.020	0.0050	ug/L		01/30/14 15:28	01/30/14 18:37	1
1,2,3-Trichloropropane	0.090	U	0.20	0.090	ug/L		01/30/14 15:28	01/30/14 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	99		60 - 144	01/30/14 15:28	01/30/14 18:37	1

Lab Sample ID: LCS 680-313524/11-A

Matrix: Water

Analysis Batch: 313582

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 313524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	0.100	0.102		ug/L		102	66 - 126
1,2-Dibromo-3-Chloropropane	0.100	0.106		ug/L		106	70 - 148
1,2,3-Trichloropropane	0.500	0.451		ug/L		90	51 - 146

Surrogate	%Recovery	Qualifier	Limits
Pentachloroethane	99		60 - 144

Lab Sample ID: LCSD 680-313524/12-A

Matrix: Water

Analysis Batch: 313582

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 313524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide	0.100	0.102		ug/L		102	66 - 126	0	30
1,2-Dibromo-3-Chloropropane	0.100	0.106		ug/L		106	70 - 148	1	30

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: LCSD 680-313524/12-A

Matrix: Water

Analysis Batch: 313582

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 313524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,2,3-Trichloropropane	0.500	0.435		ug/L		87	51 - 146	4	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Pentachloroethane	100		60 - 144						

Lab Sample ID: 660-58669-1 MS

Matrix: Ground Water

Analysis Batch: 313582

Client Sample ID: MW-10

Prep Type: Total/NA

Prep Batch: 313524

Analysis Data: 010002										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide	0.0023	U	0.102	0.0950		ug/L		93	66 - 126	
1,2-Dibromo-3-Chloropropane	0.0053	U	0.102	0.106		ug/L		104	70 - 148	
1,2,3-Trichloropropane	0.096	U	0.509	0.456		ug/L		90	51 - 146	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
Pentachloroethane	94		60 - 144							
Top Data: 010002										

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-313816/37

Matrix: Water

Analysis Batch: 313816

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			02/01/14 20:41	1

Lab Sample ID: LCS 680-313816/38

Matrix: Water

Analysis Batch: 313816

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	10.0	10.0		mg/L		100	90 - 110		

Lab Sample ID: LCSD 680-313816/39

Matrix: Water

Analysis Batch: 313816

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
Chloride	10.0	10.1		mg/L		101	90 - 110	0	30

Lab Sample ID: 660-58711-5 MS

Matrix: Ground Water

Analysis Batch: 313816

Client Sample ID: MW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	2.6		10.0	13.1		mg/L		104	80 - 120		

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-58669-1 MS

Matrix: Ground Water

Analysis Batch: 313994

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.3		10.0	16.9		mg/L		106	80 - 120

Lab Sample ID: 660-58669-1 MSD

Matrix: Ground Water

Analysis Batch: 313994

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.3		10.0	17.1		mg/L		108	80 - 120	1	30

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-312735/1-A

Matrix: Water

Analysis Batch: 313077

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 312735

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/23/14 13:52	01/24/14 22:18	1
Arsenic	1.3	U	2.5	1.3	ug/L		01/23/14 13:52	01/24/14 22:18	1
Barium	1.3	U	5.0	1.3	ug/L		01/23/14 13:52	01/24/14 22:18	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/23/14 13:52	01/24/14 22:18	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/23/14 13:52	01/24/14 22:18	1
Chromium	2.5	U	5.0	2.5	ug/L		01/23/14 13:52	01/24/14 22:18	1
Cobalt	0.15	U	0.50	0.15	ug/L		01/23/14 13:52	01/24/14 22:18	1
Copper	1.1	U	5.0	1.1	ug/L		01/23/14 13:52	01/24/14 22:18	1
Iron	33	U	100	33	ug/L		01/23/14 13:52	01/24/14 22:18	1
Lead	0.20	U	1.5	0.20	ug/L		01/23/14 13:52	01/24/14 22:18	1
Nickel	2.0	U	5.0	2.0	ug/L		01/23/14 13:52	01/24/14 22:18	1
Selenium	1.0	U	2.5	1.0	ug/L		01/23/14 13:52	01/24/14 22:18	1
Silver	0.25	U	1.0	0.25	ug/L		01/23/14 13:52	01/24/14 22:18	1
Sodium	0.25	U	0.50	0.25	mg/L		01/23/14 13:52	01/24/14 22:18	1
Thallium	0.50	U	1.0	0.50	ug/L		01/23/14 13:52	01/24/14 22:18	1
Vanadium	3.8	U	10	3.8	ug/L		01/23/14 13:52	01/24/14 22:18	1
Zinc	8.3	U	20	8.3	ug/L		01/23/14 13:52	01/24/14 22:18	1

Lab Sample ID: LCS 680-312735/2-A

Matrix: Water

Analysis Batch: 313077

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 312735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.5		ug/L		101	75 - 125
Arsenic	100	102		ug/L		102	75 - 125
Barium	100	103		ug/L		103	75 - 125
Beryllium	50.0	50.8		ug/L		102	75 - 125
Cadmium	50.0	49.8		ug/L		100	75 - 125
Chromium	100	102		ug/L		102	75 - 125
Cobalt	50.0	49.2		ug/L		98	75 - 125
Copper	100	104		ug/L		104	75 - 125
Iron	5000	5260		ug/L		105	75 - 125

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: LCS 680-312735/2-A

Matrix: Water

Analysis Batch: 313077

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 312735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Limits	
Lead	50.0	51.2		ug/L		102	75 - 125	
Nickel	100	102		ug/L		102	75 - 125	
Selenium	100	103		ug/L		103	75 - 125	
Silver	50.0	51.0		ug/L		102	75 - 125	
Sodium	5.00	5.07		mg/L		101	75 - 125	
Thallium	40.0	40.3		ug/L		101	75 - 125	
Vanadium	100	99.2		ug/L		99	75 - 125	
Zinc	100	103		ug/L		103	75 - 125	

Lab Sample ID: 640-46507-B-1-B MS

Matrix: Water

Analysis Batch: 313077

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 312735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									Limits	
Antimony	2.3	U	50.0	56.2		ug/L		112	75 - 125	
Arsenic	1.3	U	100	116		ug/L		116	75 - 125	
Barium	300	J3	100	454	J3	ug/L		156	75 - 125	
Beryllium	1.8		50.0	58.8		ug/L		114	75 - 125	
Cadmium	0.16	I	50.0	55.7		ug/L		111	75 - 125	
Chromium	2.5	U	100	116		ug/L		116	75 - 125	
Cobalt	31		50.0	89.2		ug/L		116	75 - 125	
Copper	2.5	I	100	118		ug/L		116	75 - 125	
Iron	33	U	5000	6010		ug/L		120	75 - 125	
Lead	0.20	U	50.0	55.3		ug/L		111	75 - 125	
Nickel	14		100	131		ug/L		116	75 - 125	
Selenium	1.0	U	100	115		ug/L		115	75 - 125	
Silver	0.25	U	50.0	55.7		ug/L		111	75 - 125	
Sodium	55	J3	5.00	70.2	J3	mg/L		301	75 - 125	
Thallium	0.50	U	40.0	43.6		ug/L		109	75 - 125	
Vanadium	3.8	U	100	114		ug/L		114	75 - 125	
Zinc	37		100	152		ug/L		115	75 - 125	

Lab Sample ID: 640-46507-B-1-C MSD

Matrix: Water

Analysis Batch: 313077

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 312735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									Limits		RPD	Limit
Antimony	2.3	U	50.0	50.9		ug/L		102	75 - 125		10	20
Arsenic	1.3	U	100	103		ug/L		103	75 - 125		12	20
Barium	300	J3	100	404		ug/L		106	75 - 125		12	20
Beryllium	1.8		50.0	53.2		ug/L		103	75 - 125		10	20
Cadmium	0.16	I	50.0	50.4		ug/L		100	75 - 125		10	20
Chromium	2.5	U	100	102		ug/L		102	75 - 125		13	20
Cobalt	31		50.0	80.0		ug/L		98	75 - 125		11	20
Copper	2.5	I	100	105		ug/L		102	75 - 125		12	20
Iron	33	U	5000	5250		ug/L		105	75 - 125		13	20
Lead	0.20	U	50.0	50.9		ug/L		102	75 - 125		8	20
Nickel	14		100	115		ug/L		100	75 - 125		13	20
Selenium	1.0	U	100	103		ug/L		103	75 - 125		12	20

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: 640-46507-B-1-C MSD

Matrix: Water

Analysis Batch: 313077

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 312735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.25	U	50.0	51.1		ug/L		102	75 - 125	9	20
Sodium	55	J3	5.00	61.3		mg/L		124	75 - 125	13	20
Thallium	0.50	U	40.0	40.1		ug/L		100	75 - 125	8	20
Vanadium	3.8	U	100	99.8		ug/L		100	75 - 125	13	20
Zinc	37		100	140		ug/L		103	75 - 125	8	20

Lab Sample ID: MB 680-312897/1-A

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	U	5.0	2.3	ug/L		01/24/14 13:09	01/28/14 10:08	1
Arsenic	1.3	U	2.5	1.3	ug/L		01/24/14 13:09	01/28/14 10:08	1
Barium	1.3	U	5.0	1.3	ug/L		01/24/14 13:09	01/28/14 10:08	1
Beryllium	0.25	U	0.50	0.25	ug/L		01/24/14 13:09	01/28/14 10:08	1
Cadmium	0.095	U	0.50	0.095	ug/L		01/24/14 13:09	01/28/14 10:08	1
Chromium	2.5	U	5.0	2.5	ug/L		01/24/14 13:09	01/28/14 10:08	1
Cobalt	0.15	U	0.50	0.15	ug/L		01/24/14 13:09	01/28/14 10:08	1
Copper	1.1	U	5.0	1.1	ug/L		01/24/14 13:09	01/28/14 10:08	1
Iron	33	U	100	33	ug/L		01/24/14 13:09	01/28/14 10:08	1
Lead	0.20	U	1.5	0.20	ug/L		01/24/14 13:09	01/28/14 10:08	1
Nickel	2.0	U	5.0	2.0	ug/L		01/24/14 13:09	01/28/14 10:08	1
Selenium	1.0	U	2.5	1.0	ug/L		01/24/14 13:09	01/28/14 10:08	1
Silver	0.25	U	1.0	0.25	ug/L		01/24/14 13:09	01/28/14 10:08	1
Sodium	0.25	U	0.50	0.25	mg/L		01/24/14 13:09	01/28/14 10:08	1
Thallium	0.50	U	1.0	0.50	ug/L		01/24/14 13:09	01/28/14 10:08	1
Vanadium	3.8	U	10	3.8	ug/L		01/24/14 13:09	01/28/14 10:08	1
Zinc	8.3	U	20	8.3	ug/L		01/24/14 13:09	01/28/14 10:08	1

Lab Sample ID: LCS 680-312897/2-A

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	53.9		ug/L		108	75 - 125
Arsenic	100	110		ug/L		110	75 - 125
Barium	100	112		ug/L		112	75 - 125
Beryllium	50.0	55.0		ug/L		110	75 - 125
Cadmium	50.0	54.1		ug/L		108	75 - 125
Chromium	100	107		ug/L		107	75 - 125
Cobalt	50.0	53.9		ug/L		108	75 - 125
Copper	100	108		ug/L		108	75 - 125
Iron	5000	5390		ug/L		108	75 - 125
Lead	50.0	53.8		ug/L		108	75 - 125
Nickel	100	106		ug/L		106	75 - 125
Selenium	100	106		ug/L		106	75 - 125
Silver	50.0	54.2		ug/L		108	75 - 125
Sodium	5.00	5.40		mg/L		108	75 - 125
Thallium	40.0	42.1		ug/L		105	75 - 125

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: LCS 680-312897/2-A

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	100	105		ug/L		105	75 - 125
Zinc	100	107		ug/L		107	75 - 125

Lab Sample ID: 640-46531-F-1-B MS

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	U	50.0	59.9		ug/L		120	75 - 125
Arsenic	1.3	U	100	119		ug/L		119	75 - 125
Barium	24		100	143		ug/L		120	75 - 125
Beryllium	0.48	I	50.0	60.0		ug/L		119	75 - 125
Cadmium	0.095	U	50.0	58.9		ug/L		118	75 - 125
Chromium	2.5	U	100	116		ug/L		116	75 - 125
Cobalt	22		50.0	82.2		ug/L		121	75 - 125
Copper	1.1	U	100	115		ug/L		115	75 - 125
Iron	7500	J3	5000	13800	J3	ug/L		126	75 - 125
Lead	0.20	U	50.0	59.2		ug/L		118	75 - 125
Nickel	7.0		100	123		ug/L		116	75 - 125
Selenium	1.0	U	100	115		ug/L		115	75 - 125
Silver	0.25	U	50.0	58.5		ug/L		117	75 - 125
Sodium	24	J3	5.00	31.0	J3	mg/L		147	75 - 125
Thallium	0.50	U	40.0	46.2		ug/L		116	75 - 125
Vanadium	3.8	U	100	113		ug/L		113	75 - 125
Zinc	14	I	100	130		ug/L		116	75 - 125

Lab Sample ID: 640-46531-F-1-C MSD

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.3	U	50.0	61.1		ug/L		122	75 - 125	2	20
Arsenic	1.3	U	100	119		ug/L		119	75 - 125	0	20
Barium	24		100	146		ug/L		122	75 - 125	2	20
Beryllium	0.48	I	50.0	61.0		ug/L		121	75 - 125	2	20
Cadmium	0.095	U	50.0	60.7		ug/L		121	75 - 125	3	20
Chromium	2.5	U	100	115		ug/L		115	75 - 125	1	20
Cobalt	22		50.0	81.9		ug/L		120	75 - 125	0	20
Copper	1.1	U	100	115		ug/L		115	75 - 125	0	20
Iron	7500	J3	5000	13900	J3	ug/L		129	75 - 125	1	20
Lead	0.20	U	50.0	59.0		ug/L		118	75 - 125	0	20
Nickel	7.0		100	121		ug/L		114	75 - 125	2	20
Selenium	1.0	U	100	116		ug/L		116	75 - 125	0	20
Silver	0.25	U	50.0	58.8		ug/L		118	75 - 125	1	20
Sodium	24	J3	5.00	30.4	J3	mg/L		137	75 - 125	2	20
Thallium	0.50	U	40.0	46.3		ug/L		116	75 - 125	0	20
Vanadium	3.8	U	100	114		ug/L		114	75 - 125	1	20
Zinc	14	I	100	132		ug/L		118	75 - 125	2	20

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Method: 7470A - Mercury

Lab Sample ID: MB 680-312668/1-A
Matrix: Water
Analysis Batch: 312887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312668

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/14 10:48	01/24/14 11:27	1

Lab Sample ID: LCS 680-312668/2-A
Matrix: Water
Analysis Batch: 312887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.67		ug/L		107	80 - 120

Lab Sample ID: 660-58670-1 MS
Matrix: Water
Analysis Batch: 312887

Client Sample ID: Field Blank
Prep Type: Total/NA
Prep Batch: 312668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091	U	1.00	1.03		ug/L		103	80 - 120

Lab Sample ID: 660-58670-1 MSD
Matrix: Water
Analysis Batch: 312887

Client Sample ID: Field Blank
Prep Type: Total/NA
Prep Batch: 312668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.091	U	1.00	1.01		ug/L		101	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-313040/1-A
Matrix: Water
Analysis Batch: 313170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313040

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/14 08:01	01/27/14 14:37	1

Lab Sample ID: LCS 680-313040/2-A
Matrix: Water
Analysis Batch: 313170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.49		ug/L		99	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-313380/31
Matrix: Water
Analysis Batch: 313380

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U	0.050	0.026	mg/L			01/28/14 14:27	1

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 680-313380/27

Matrix: Water

Analysis Batch: 313380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: 660-58669-1 MS

Matrix: Ground Water

Analysis Batch: 313380

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.026	U J3	1.00	0.821	J3	mg/L		82	90 - 110

Lab Sample ID: 660-58669-1 MSD

Matrix: Ground Water

Analysis Batch: 313380

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.026	U J3	1.00	0.824	J3	mg/L		82	90 - 110	0	30

Lab Sample ID: 660-58669-2 DU

Matrix: Ground Water

Analysis Batch: 313380

Client Sample ID: MW-21

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	1.7			1.66		mg/L				0.6	30

Method: 353.2 - Nitrate

Lab Sample ID: MB 660-145478/12

Matrix: Water

Analysis Batch: 145478

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Nitrite as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/22/14 15:13	1

Lab Sample ID: LCS 660-145478/13

Matrix: Water

Analysis Batch: 145478

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.983		mg/L		98	90 - 110
Nitrite as N	0.500	0.483	I	mg/L		97	90 - 110

Lab Sample ID: 660-58652-A-1 MS

Matrix: Water

Analysis Batch: 145478

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 Nitrite as N	0.10	U J3	1.00	0.898		mg/L		90	90 - 110
Nitrite as N	0.10	U	0.500	0.497	I	mg/L		99	90 - 110

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Method: 353.2 - Nitrate (Continued)

Lab Sample ID: 660-58652-A-1 MSD

Matrix: Water

Analysis Batch: 145478

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 Nitrite as N	0.10	U J3	1.00	0.890	J3	mg/L		89	90 - 110	1	30
Nitrite as N	0.10	U	0.500	0.512		mg/L		102	90 - 110	3	30

Lab Sample ID: MB 660-145523/12

Matrix: Water

Analysis Batch: 145523

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			01/23/14 14:09	1
Nitrite as N	0.10	U	0.50	0.10	mg/L			01/23/14 14:09	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			01/23/14 14:09	1

Lab Sample ID: LCS 660-145523/13

Matrix: Water

Analysis Batch: 145523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.987		mg/L		99	90 - 110
Nitrite as N	0.500	0.494	I	mg/L		99	90 - 110

Lab Sample ID: 660-58711-6 MS

Matrix: Ground Water

Analysis Batch: 145523

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10		1.00	0.855	J3	mg/L		86	90 - 110
Nitrite as N	0.10		0.500	0.472	I	mg/L		94	90 - 110

Lab Sample ID: 660-58711-6 MSD

Matrix: Ground Water

Analysis Batch: 145523

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10		1.00	0.873	J3	mg/L		87	90 - 110	2	30
Nitrite as N	0.10		0.500	0.483	I	mg/L		97	90 - 110	2	30

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

Lab Sample ID: MB 660-145547/1

Matrix: Water

Analysis Batch: 145547

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			01/24/14 10:13	1

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

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

Lab Sample ID: LCS 660-145547/2

Matrix: Water

Analysis Batch: 145547

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	10000	10100		mg/L		101	80 - 120

Lab Sample ID: 640-46512-C-1 DU

Matrix: Water

Analysis Batch: 145547

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	650		620		mg/L		4	20

Lab Sample ID: MB 660-145667/1

Matrix: Water

Analysis Batch: 145667

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			01/29/14 15:26	1

Lab Sample ID: LCS 660-145667/2

Matrix: Water

Analysis Batch: 145667

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	10000	9920		mg/L		99	80 - 120

Lab Sample ID: 660-58711-6 DU

Matrix: Ground Water

Analysis Batch: 145667

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	240		256		mg/L		8	20

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

GC/MS VOA

Analysis Batch: 145468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-46464-D-1 MS	Matrix Spike	Total/NA	Water	8260B	
640-46464-E-2 DU	Duplicate	Total/NA	Water	8260B	
660-58670-1	Field Blank	Total/NA	Water	8260B	
LCS 660-145468/4	Lab Control Sample	Total/NA	Water	8260B	
MB 660-145468/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 145542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-1	MW-10	Total/NA	Ground Water	8260B	
660-58669-1 DU	MW-10	Total/NA	Ground Water	8260B	
660-58669-2	MW-21	Total/NA	Ground Water	8260B	
660-58669-2 MS	MW-21	Total/NA	Ground Water	8260B	
660-58669-3	MW-17	Total/NA	Ground Water	8260B	
660-58669-4	MW-14	Total/NA	Ground Water	8260B	
LCS 660-145542/4	Lab Control Sample	Total/NA	Water	8260B	
MB 660-145542/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 145560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-1	MW-20	Total/NA	Ground Water	8260B	
660-58711-1 MS	MW-20	Total/NA	Ground Water	8260B	
660-58711-3	MW-7	Total/NA	Ground Water	8260B	
660-58711-3 DU	MW-7	Total/NA	Ground Water	8260B	
660-58711-4	MW-3	Total/NA	Ground Water	8260B	
660-58711-5	MW-15	Total/NA	Ground Water	8260B	
660-58711-6	MW-12	Total/NA	Ground Water	8260B	
660-58711-7	MW-13	Total/NA	Ground Water	8260B	
660-58711-8	MW-11	Total/NA	Ground Water	8260B	
660-58711-10	MW-18	Total/NA	Ground Water	8260B	
660-58711-11	MW-19	Total/NA	Ground Water	8260B	
660-58711-12	Trip Blank	Total/NA	Water	8260B	
LCS 660-145560/5	Lab Control Sample	Total/NA	Water	8260B	
MB 660-145560/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 313499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58670-1	Field Blank	Total/NA	Water	524.2	
LCS 680-313499/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-313499/4	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 680-313499/5	Lab Control Sample	Total/NA	Water	524.2	
MB 680-313499/9	Method Blank	Total/NA	Water	524.2	

GC Semi VOA

Prep Batch: 313524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-1	MW-10	Total/NA	Ground Water	8011	
660-58669-1 MS	MW-10	Total/NA	Ground Water	8011	
660-58669-2	MW-21	Total/NA	Ground Water	8011	
660-58669-3	MW-17	Total/NA	Ground Water	8011	

TestAmerica Tampa

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

GC Semi VOA (Continued)

Prep Batch: 313524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-4	MW-14	Total/NA	Ground Water	8011	
660-58670-1	Field Blank	Total/NA	Water	8011	
660-58711-1	MW-20	Total/NA	Ground Water	8011	
660-58711-3	MW-7	Total/NA	Ground Water	8011	
660-58711-4	MW-3	Total/NA	Ground Water	8011	
660-58711-5	MW-15	Total/NA	Ground Water	8011	
660-58711-6	MW-12	Total/NA	Ground Water	8011	
660-58711-7	MW-13	Total/NA	Ground Water	8011	
660-58711-8	MW-11	Total/NA	Ground Water	8011	
LCS 680-313524/11-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-313524/12-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 680-313524/10-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 313582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-1	MW-10	Total/NA	Ground Water	8011	313524
660-58669-1 MS	MW-10	Total/NA	Ground Water	8011	313524
660-58669-2	MW-21	Total/NA	Ground Water	8011	313524
660-58669-3	MW-17	Total/NA	Ground Water	8011	313524
660-58669-4	MW-14	Total/NA	Ground Water	8011	313524
660-58670-1	Field Blank	Total/NA	Water	8011	313524
660-58711-1	MW-20	Total/NA	Ground Water	8011	313524
660-58711-3	MW-7	Total/NA	Ground Water	8011	313524
660-58711-4	MW-3	Total/NA	Ground Water	8011	313524
660-58711-5	MW-15	Total/NA	Ground Water	8011	313524
660-58711-6	MW-12	Total/NA	Ground Water	8011	313524
660-58711-7	MW-13	Total/NA	Ground Water	8011	313524
660-58711-8	MW-11	Total/NA	Ground Water	8011	313524
LCS 680-313524/11-A	Lab Control Sample	Total/NA	Water	8011	313524
LCSD 680-313524/12-A	Lab Control Sample Dup	Total/NA	Water	8011	313524
MB 680-313524/10-A	Method Blank	Total/NA	Water	8011	313524

HPLC/IC

Analysis Batch: 313816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-1	MW-20	Total/NA	Ground Water	300.0	
660-58711-3	MW-7	Total/NA	Ground Water	300.0	
660-58711-4	MW-3	Total/NA	Ground Water	300.0	
660-58711-5	MW-15	Total/NA	Ground Water	300.0	
660-58711-5 MS	MW-15	Total/NA	Ground Water	300.0	
660-58711-6	MW-12	Total/NA	Ground Water	300.0	
660-58711-7	MW-13	Total/NA	Ground Water	300.0	
660-58711-8	MW-11	Total/NA	Ground Water	300.0	
LCS 680-313816/38	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-313816/39	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-313816/37	Method Blank	Total/NA	Water	300.0	

TestAmerica Tampa

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

HPLC/IC (Continued)

Analysis Batch: 313994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-1	MW-10	Total/NA	Ground Water	300.0	
660-58669-1 MS	MW-10	Total/NA	Ground Water	300.0	
660-58669-1 MSD	MW-10	Total/NA	Ground Water	300.0	
660-58669-2	MW-21	Total/NA	Ground Water	300.0	
660-58669-3	MW-17	Total/NA	Ground Water	300.0	
660-58669-4	MW-14	Total/NA	Ground Water	300.0	
660-58670-1	Field Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 312668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-1	MW-10	Dissolved	Ground Water	7470A	
660-58669-1	MW-10	Total/NA	Ground Water	7470A	
660-58669-2	MW-21	Dissolved	Ground Water	7470A	
660-58669-2	MW-21	Total/NA	Ground Water	7470A	
660-58669-3	MW-17	Total/NA	Ground Water	7470A	
660-58669-4	MW-14	Total/NA	Ground Water	7470A	
660-58670-1	Field Blank	Total/NA	Water	7470A	
660-58670-1 MS	Field Blank	Total/NA	Water	7470A	
660-58670-1 MSD	Field Blank	Total/NA	Water	7470A	
LCS 680-312668/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-312668/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 312735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-46507-B-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
640-46507-B-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-58669-1	MW-10	Dissolved	Ground Water	3005A	
660-58669-1	MW-10	Total Recoverable	Ground Water	3005A	
660-58669-2	MW-21	Dissolved	Ground Water	3005A	
660-58669-2	MW-21	Total Recoverable	Ground Water	3005A	
660-58669-3	MW-17	Total Recoverable	Ground Water	3005A	
660-58669-4	MW-14	Total Recoverable	Ground Water	3005A	
660-58670-1	Field Blank	Total Recoverable	Water	3005A	
LCS 680-312735/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-312735/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 312887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-1	MW-10	Dissolved	Ground Water	7470A	312668
660-58669-1	MW-10	Total/NA	Ground Water	7470A	312668
660-58669-2	MW-21	Dissolved	Ground Water	7470A	312668
660-58669-2	MW-21	Total/NA	Ground Water	7470A	312668
660-58669-3	MW-17	Total/NA	Ground Water	7470A	312668
660-58669-4	MW-14	Total/NA	Ground Water	7470A	312668
660-58670-1	Field Blank	Total/NA	Water	7470A	312668
660-58670-1 MS	Field Blank	Total/NA	Water	7470A	312668
660-58670-1 MSD	Field Blank	Total/NA	Water	7470A	312668
LCS 680-312668/2-A	Lab Control Sample	Total/NA	Water	7470A	312668

TestAmerica Tampa

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Metals (Continued)

Analysis Batch: 312887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-312668/1-A	Method Blank	Total/NA	Water	7470A	312668

Prep Batch: 312897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-46531-F-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
640-46531-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-58711-1	MW-20	Total Recoverable	Ground Water	3005A	
660-58711-3	MW-7	Total Recoverable	Ground Water	3005A	
660-58711-4	MW-3	Total Recoverable	Ground Water	3005A	
660-58711-5	MW-15	Total Recoverable	Ground Water	3005A	
660-58711-6	MW-12	Total Recoverable	Ground Water	3005A	
660-58711-7	MW-13	Total Recoverable	Ground Water	3005A	
660-58711-8	MW-11	Total Recoverable	Ground Water	3005A	
LCS 680-312897/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-312897/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 313040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-1	MW-20	Total/NA	Ground Water	7470A	
660-58711-3	MW-7	Total/NA	Ground Water	7470A	
660-58711-4	MW-3	Total/NA	Ground Water	7470A	
660-58711-5	MW-15	Total/NA	Ground Water	7470A	
660-58711-6	MW-12	Total/NA	Ground Water	7470A	
660-58711-7	MW-13	Total/NA	Ground Water	7470A	
660-58711-8	MW-11	Total/NA	Ground Water	7470A	
LCS 680-313040/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-313040/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 313077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-46507-B-1-B MS	Matrix Spike	Total Recoverable	Water	6020	312735
640-46507-B-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	312735
660-58669-1	MW-10	Dissolved	Ground Water	6020	312735
660-58669-1	MW-10	Total Recoverable	Ground Water	6020	312735
660-58669-2	MW-21	Dissolved	Ground Water	6020	312735
660-58669-2	MW-21	Total Recoverable	Ground Water	6020	312735
660-58669-3	MW-17	Total Recoverable	Ground Water	6020	312735
660-58669-4	MW-14	Total Recoverable	Ground Water	6020	312735
660-58670-1	Field Blank	Total Recoverable	Water	6020A	312735
LCS 680-312735/2-A	Lab Control Sample	Total Recoverable	Water	6020	312735
MB 680-312735/1-A	Method Blank	Total Recoverable	Water	6020	312735

Analysis Batch: 313170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-1	MW-20	Total/NA	Ground Water	7470A	313040
660-58711-3	MW-7	Total/NA	Ground Water	7470A	313040
660-58711-4	MW-3	Total/NA	Ground Water	7470A	313040
660-58711-5	MW-15	Total/NA	Ground Water	7470A	313040
660-58711-6	MW-12	Total/NA	Ground Water	7470A	313040
660-58711-7	MW-13	Total/NA	Ground Water	7470A	313040
660-58711-8	MW-11	Total/NA	Ground Water	7470A	313040

TestAmerica Tampa

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Metals (Continued)

Analysis Batch: 313170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-313040/2-A	Lab Control Sample	Total/NA	Water	7470A	313040
MB 680-313040/1-A	Method Blank	Total/NA	Water	7470A	313040

Analysis Batch: 313361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-46531-F-1-B MS	Matrix Spike	Total Recoverable	Water	6020	312897
640-46531-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	312897
660-58711-1	MW-20	Total Recoverable	Ground Water	6020	312897
660-58711-3	MW-7	Total Recoverable	Ground Water	6020	312897
660-58711-4	MW-3	Total Recoverable	Ground Water	6020	312897
660-58711-5	MW-15	Total Recoverable	Ground Water	6020	312897
660-58711-6	MW-12	Total Recoverable	Ground Water	6020	312897
660-58711-7	MW-13	Total Recoverable	Ground Water	6020	312897
660-58711-8	MW-11	Total Recoverable	Ground Water	6020	312897
LCS 680-312897/2-A	Lab Control Sample	Total Recoverable	Water	6020	312897
MB 680-312897/1-A	Method Blank	Total Recoverable	Water	6020	312897

General Chemistry

Analysis Batch: 145478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58652-A-1 MS	Matrix Spike	Total/NA	Water	353.2	
660-58652-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-58669-1	MW-10	Total/NA	Ground Water	353.2	
660-58669-2	MW-21	Total/NA	Ground Water	353.2	
660-58669-3	MW-17	Total/NA	Ground Water	353.2	
660-58669-4	MW-14	Total/NA	Ground Water	353.2	
660-58670-1	Field Blank	Total/NA	Water	353.2	
LCS 660-145478/13	Lab Control Sample	Total/NA	Water	353.2	
MB 660-145478/12	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 145523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-1	MW-20	Total/NA	Ground Water	353.2	
660-58711-3	MW-7	Total/NA	Ground Water	353.2	
660-58711-4	MW-3	Total/NA	Ground Water	353.2	
660-58711-5	MW-15	Total/NA	Ground Water	353.2	
660-58711-6	MW-12	Total/NA	Ground Water	353.2	
660-58711-6 MS	MW-12	Total/NA	Ground Water	353.2	
660-58711-6 MSD	MW-12	Total/NA	Ground Water	353.2	
660-58711-7	MW-13	Total/NA	Ground Water	353.2	
660-58711-8	MW-11	Total/NA	Ground Water	353.2	
LCS 660-145523/13	Lab Control Sample	Total/NA	Water	353.2	
MB 660-145523/12	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 145547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-46512-C-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-58669-1	MW-10	Total/NA	Ground Water	SM 2540C	
660-58669-2	MW-21	Total/NA	Ground Water	SM 2540C	

TestAmerica Tampa

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

General Chemistry (Continued)

Analysis Batch: 145547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-3	MW-17	Total/NA	Ground Water	SM 2540C	
660-58669-4	MW-14	Total/NA	Ground Water	SM 2540C	
660-58670-1	Field Blank	Total/NA	Water	SM 2540C	
LCS 660-145547/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-145547/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 145667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-1	MW-20	Total/NA	Ground Water	SM 2540C	
660-58711-3	MW-7	Total/NA	Ground Water	SM 2540C	
660-58711-4	MW-3	Total/NA	Ground Water	SM 2540C	
660-58711-5	MW-15	Total/NA	Ground Water	SM 2540C	
660-58711-6	MW-12	Total/NA	Ground Water	SM 2540C	
660-58711-6 DU	MW-12	Total/NA	Ground Water	SM 2540C	
660-58711-7	MW-13	Total/NA	Ground Water	SM 2540C	
660-58711-8	MW-11	Total/NA	Ground Water	SM 2540C	
LCS 660-145667/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-145667/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 313380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-1	MW-10	Total/NA	Ground Water	350.1	
660-58669-1 MS	MW-10	Total/NA	Ground Water	350.1	
660-58669-1 MSD	MW-10	Total/NA	Ground Water	350.1	
660-58669-2	MW-21	Total/NA	Ground Water	350.1	
660-58669-2 DU	MW-21	Total/NA	Ground Water	350.1	
660-58669-3	MW-17	Total/NA	Ground Water	350.1	
660-58669-4	MW-14	Total/NA	Ground Water	350.1	
660-58670-1	Field Blank	Total/NA	Water	350.1	
660-58711-1	MW-20	Total/NA	Ground Water	350.1	
660-58711-3	MW-7	Total/NA	Ground Water	350.1	
660-58711-4	MW-3	Total/NA	Ground Water	350.1	
660-58711-5	MW-15	Total/NA	Ground Water	350.1	
660-58711-6	MW-12	Total/NA	Ground Water	350.1	
660-58711-7	MW-13	Total/NA	Ground Water	350.1	
660-58711-8	MW-11	Total/NA	Ground Water	350.1	
LCS 680-313380/27	Lab Control Sample	Total/NA	Water	350.1	
MB 680-313380/31	Method Blank	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 145658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-1	MW-10	Total/NA	Ground Water	Field Sampling	
660-58669-2	MW-21	Total/NA	Ground Water	Field Sampling	
660-58669-3	MW-17	Total/NA	Ground Water	Field Sampling	
660-58669-4	MW-14	Total/NA	Ground Water	Field Sampling	
660-58711-1	MW-20	Total/NA	Ground Water	Field Sampling	
660-58711-3	MW-7	Total/NA	Ground Water	Field Sampling	
660-58711-4	MW-3	Total/NA	Ground Water	Field Sampling	

TestAmerica Tampa

QC Association Summary

Client: CDM Smith, Inc.

TestAmerica Job ID: 660-58669-1

Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

Field Service / Mobile Lab (Continued)

Analysis Batch: 145658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-5	MW-15	Total/NA	Ground Water	Field Sampling	
660-58711-6	MW-12	Total/NA	Ground Water	Field Sampling	
660-58711-7	MW-13	Total/NA	Ground Water	Field Sampling	
660-58711-8	MW-11	Total/NA	Ground Water	Field Sampling	
660-58711-10	MW-18	Total/NA	Ground Water	Field Sampling	
660-58711-11	MW-19	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-10

Date Collected: 01/21/14 11:45

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145542	01/23/14 09:22	ECC	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 19:11	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313994	02/03/14 15:19	PAT	TAL SAV
Total/NA	Prep	7470A			312668	01/23/14 10:48	UU1	TAL SAV
Total/NA	Analysis	7470A		1	312887	01/24/14 11:33	UU1	TAL SAV
Dissolved	Prep	7470A			312668	01/23/14 10:48	UU1	TAL SAV
Dissolved	Analysis	7470A		1	312887	01/24/14 11:49	UU1	TAL SAV
Total Recoverable	Prep	3005A			312735	01/23/14 13:52	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	313077	01/25/14 00:28	BWR	TAL SAV
Dissolved	Prep	3005A			312735	01/23/14 13:52	CRW	TAL SAV
Dissolved	Analysis	6020		1	313077	01/25/14 01:16	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145478	01/22/14 15:13	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145547	01/24/14 10:13	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:08	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/21/14 11:45		TAL TAM

Client Sample ID: MW-21

Date Collected: 01/21/14 14:45

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145542	01/23/14 10:19	ECC	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 19:20	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313994	02/03/14 15:56	PAT	TAL SAV
Total/NA	Prep	7470A			312668	01/23/14 10:48	UU1	TAL SAV
Total/NA	Analysis	7470A		1	312887	01/24/14 11:35	UU1	TAL SAV
Dissolved	Prep	7470A			312668	01/23/14 10:48	UU1	TAL SAV
Dissolved	Analysis	7470A		1	312887	01/24/14 11:51	UU1	TAL SAV
Total Recoverable	Prep	3005A			312735	01/23/14 13:52	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	313077	01/25/14 00:35	BWR	TAL SAV
Dissolved	Prep	3005A			312735	01/23/14 13:52	CRW	TAL SAV
Dissolved	Analysis	6020		1	313077	01/25/14 01:23	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145478	01/22/14 15:13	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145547	01/24/14 10:13	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:08	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/21/14 14:45		TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-17

Date Collected: 01/21/14 16:22

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145542	01/23/14 12:13	ECC	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 19:28	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313994	02/03/14 16:08	PAT	TAL SAV
Total/NA	Prep	7470A			312668	01/23/14 10:48	UU1	TAL SAV
Total/NA	Analysis	7470A		1	312887	01/24/14 11:38	UU1	TAL SAV
Total Recoverable	Prep	3005A			312735	01/23/14 13:52	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	313077	01/25/14 00:42	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145478	01/22/14 15:13	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145547	01/24/14 10:13	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:08	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/21/14 16:22		TAL TAM

Client Sample ID: MW-14

Date Collected: 01/21/14 17:08

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58669-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145542	01/23/14 12:32	ECC	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 19:37	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313994	02/03/14 16:21	PAT	TAL SAV
Total/NA	Prep	7470A			312668	01/23/14 10:48	UU1	TAL SAV
Total/NA	Analysis	7470A		1	312887	01/24/14 11:46	UU1	TAL SAV
Total Recoverable	Prep	3005A			312735	01/23/14 13:52	CRW	TAL SAV
Total Recoverable	Analysis	6020		1	313077	01/25/14 01:03	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145478	01/22/14 15:13	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145547	01/24/14 10:13	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:08	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/21/14 17:08		TAL TAM

Client Sample ID: Field Blank

Date Collected: 01/21/14 14:55

Date Received: 01/22/14 08:00

Lab Sample ID: 660-58670-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145468	01/22/14 16:44	ECC	TAL TAM
Total/NA	Analysis	524.2		1	313499	01/30/14 16:10	WJC	TAL SAV
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 19:46	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313994	02/03/14 16:33	PAT	TAL SAV
Total/NA	Prep	7470A			312668	01/23/14 10:48	UU1	TAL SAV

TestAmerica Tampa

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: Field Blank

Lab Sample ID: 660-58670-1

Date Collected: 01/21/14 14:55

Matrix: Water

Date Received: 01/22/14 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	312887	01/24/14 11:54	UU1	TAL SAV
Total Recoverable	Prep	3005A			312735	01/23/14 13:52	CRW	TAL SAV
Total Recoverable	Analysis	6020A		1	313077	01/25/14 01:09	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145478	01/22/14 15:13	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145547	01/24/14 10:13	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:08	JME	TAL SAV

Client Sample ID: MW-20

Lab Sample ID: 660-58711-1

Date Collected: 01/22/14 08:25

Matrix: Ground Water

Date Received: 01/23/14 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/23/14 22:49	LBS	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 19:54	SSP	TAL SAV
Total/NA	Analysis	300.0		20	313816	02/01/14 23:59	PAT	TAL SAV
Total/NA	Prep	7470A			313040	01/27/14 08:01	UU1	TAL SAV
Total/NA	Analysis	7470A		1	313170	01/27/14 14:42	UU1	TAL SAV
Total Recoverable	Prep	3005A			312897	01/24/14 13:09	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	313361	01/28/14 11:17	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145523	01/23/14 14:09	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:17	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 08:25		TAL TAM

Client Sample ID: MW-7

Lab Sample ID: 660-58711-3

Date Collected: 01/22/14 11:25

Matrix: Ground Water

Date Received: 01/23/14 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/23/14 23:46	LBS	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 20:03	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313816	02/02/14 00:11	PAT	TAL SAV
Total/NA	Prep	7470A			313040	01/27/14 08:01	UU1	TAL SAV
Total/NA	Analysis	7470A		1	313170	01/27/14 14:45	UU1	TAL SAV
Total Recoverable	Prep	3005A			312897	01/24/14 13:09	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	313361	01/28/14 11:22	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145523	01/23/14 14:09	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:17	JME	TAL SAV

TestAmerica Tampa

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-7

Date Collected: 01/22/14 11:25

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 11:25		TAL TAM

Client Sample ID: MW-3

Date Collected: 01/22/14 13:40

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/24/14 00:25	LBS	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 20:11	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313816	02/02/14 00:24	PAT	TAL SAV
Total/NA	Prep	7470A			313040	01/27/14 08:01	UU1	TAL SAV
Total/NA	Analysis	7470A		1	313170	01/27/14 14:48	UU1	TAL SAV
Total Recoverable	Prep	3005A			312897	01/24/14 13:09	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	313361	01/28/14 11:27	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145523	01/23/14 14:09	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:17	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 13:40		TAL TAM

Client Sample ID: MW-15

Date Collected: 01/22/14 18:20

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/24/14 00:44	LBS	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 20:20	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313816	02/02/14 00:36	PAT	TAL SAV
Total/NA	Prep	7470A			313040	01/27/14 08:01	UU1	TAL SAV
Total/NA	Analysis	7470A		1	313170	01/27/14 14:50	UU1	TAL SAV
Total Recoverable	Prep	3005A			312897	01/24/14 13:09	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	313361	01/28/14 11:32	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145523	01/23/14 14:09	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:17	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 18:20		TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-12

Date Collected: 01/22/14 19:28

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/24/14 01:03	LBS	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 20:28	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313816	02/02/14 01:01	PAT	TAL SAV
Total/NA	Prep	7470A			313040	01/27/14 08:01	UU1	TAL SAV
Total/NA	Analysis	7470A		1	313170	01/27/14 14:53	UU1	TAL SAV
Total Recoverable	Prep	3005A			312897	01/24/14 13:09	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	313361	01/28/14 11:38	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145523	01/23/14 14:09	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:18	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 19:28		TAL TAM

Client Sample ID: MW-13

Date Collected: 01/22/14 13:48

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/24/14 01:22	LBS	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 20:37	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313816	02/02/14 01:13	PAT	TAL SAV
Total/NA	Prep	7470A			313040	01/27/14 08:01	UU1	TAL SAV
Total/NA	Analysis	7470A		1	313170	01/27/14 14:56	UU1	TAL SAV
Total Recoverable	Prep	3005A			312897	01/24/14 13:09	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	313361	01/28/14 11:43	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145523	01/23/14 14:09	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:18	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 13:48		TAL TAM

Client Sample ID: MW-11

Date Collected: 01/22/14 15:30

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/24/14 01:41	LBS	TAL TAM
Total/NA	Prep	8011			313524	01/30/14 15:28	SSP	TAL SAV
Total/NA	Analysis	8011		1	313582	01/30/14 20:45	SSP	TAL SAV
Total/NA	Analysis	300.0		1	313816	02/02/14 01:26	PAT	TAL SAV
Total/NA	Prep	7470A			313040	01/27/14 08:01	UU1	TAL SAV
Total/NA	Analysis	7470A		1	313170	01/27/14 14:58	UU1	TAL SAV

TestAmerica Tampa

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Client Sample ID: MW-11

Date Collected: 01/22/14 15:30

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312897	01/24/14 13:09	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	313361	01/28/14 11:48	BWR	TAL SAV
Total/NA	Analysis	353.2		1	145523	01/23/14 14:09	ELE	TAL TAM
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 13:18	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 15:30		TAL TAM

Client Sample ID: MW-18

Date Collected: 01/22/14 14:50

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/24/14 02:00	LBS	TAL TAM
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 14:50		TAL TAM

Client Sample ID: MW-19

Date Collected: 01/22/14 15:59

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/24/14 02:20	LBS	TAL TAM
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 15:59		TAL TAM

Client Sample ID: Trip Blank

Date Collected: 01/22/14 00:00

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145560	01/24/14 02:39	LBS	TAL TAM

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Method Summary

Client: CDM Smith, Inc.

TestAmerica Job ID: 660-58669-1

Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

Method	Method Description	Protocol	Laboratory
524.2	Total Trihalomethane Calculation	EPA-DW	TAL SAV
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAM
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6020	Metals (ICP/MS)	SW846	TAL SAV
6020A	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAM
353.2	Nitrate	MCAWW	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
Field Sampling	Field Sampling	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

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 SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

TestAmerica Job ID: 660-58669-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-14
Florida	NELAP	4	E84282	06-30-14
Georgia	State Program	4	905	06-30-14
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	01-31-14 *
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tampa

Certification Summary

Client: CDM Smith, Inc.

TestAmerica Job ID: 660-58669-1

Project/Site: Citrus County LF Semi-Annual (Jan. 2014)

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-13 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tampa

2/6/2014

[illegible]

2/6/2014

Chain of Custody Record

Client Information Client Contact: Mr. Aamod Sonawane Company: CDM Smith, Inc. Address: 1715 North Westshore Blvd. Suite 875 City: Tampa State, Zip: FL, 33607 Phone: _____ Email: sonawaneas@cdmsmith.com Project Name: Citrus County LF Semi-Annual Site: Florida		Sample: <i>Sonawane</i> Lab Pmt: Hornsby, Jess E-Mail: jess.hornsby@testamerica.com Phone: 407-399-3344		Carrier Tracking Note(s): COC No: 660-53095-12681.1 Page: Page 1 of 1 Job #: _____	
Due Date Requested: TAT Requested (days): _____ PO #: _____ Purchase Order Requested: _____ WO #: 71136-94426-GROUNDWATER Project #: 66003335 SOW#: _____		Analysis Requested			
Sample Identification MW-18 MW-19		Sample Date 1-22-14 1-22-14	Sample Time 1450 1559	Sample Type (C=comp, G=grab) G G	Matrix (W=water, S=solid, O=other) W W
Field Filtered Sample (Yes or No) ☒ No Perform MSD (Yes or No) ☒ No 826B - Benzene, Meth, Chloride, Vinyl Chloride ☒ No Field Sampling - Field Parameters ☒ No		Total Number of containers: _____			
Special Instructions/Note: Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)		Special Instructions/Note:			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: _____ Date/Time: 1-22-14 1940 Date/Time: 1-22-14 2055 Date/Time: _____			
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date/Time: 1-22-14 1940 Date/Time: 1-22-14 0800 Date/Time: _____			
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date/Time: _____ Date/Time: _____ Date/Time: _____			
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			

TESTAMERICA ORLANDO FIELD SAMPLING LOG -
DEP-SOP-001/01- Form FD 9000-24 GROUNDWATER SAMPLING

58669

Meter #s: MW-10

PAGE: 1 of 1

SITE NAME: <u>Citrus County Landfill</u>	SITE LOCATION: <u>Leesville, FL</u>	DATE: <u>1-21-14</u>
WELL NO: <u>MW-10</u>	SAMPLE ID: <u>MW-10</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>102.5</u> feet to <u>104.5</u> feet	STATIC DEPTH TO WATER (feet): <u>106.70</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <u>13.80</u> = <u>(120.50 - 106.70)</u> feet X <u>16</u> gallons/foot = <u>2.21</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):		
113			113			1010		1127		4.5		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <u>µmhos/cm</u> or <u>µS/cm</u>	DISSOLVED OXYGEN (circle units) <u>mg/L</u> or <u>% saturation</u>	TURBIDITY (NTUs)	COLOR describe	ODOR	ORP
1043	2.21	2.21	.05	107.29	4.54	23.0	44	.45	24.4	clear	NO	-
1054	.55	2.76	.05	107.29	4.62	22.9	46	.36	22.3			-
1105	.55	3.31	.05	107.29	4.61	22.8	46	.23	24.2			-
1116	.55	3.86	.05	107.29	4.61	22.7	46	.30	21.1			-
1127	.55	4.41	.05	107.29	4.59	22.6	46	.21	23.4			-
											</	

WELL CAPACITY (Gallons Per Foot): .75" = 0.02; 1" = 0.04; 1.25" = 0.05; 2" = 0.16; 3" = 0.37; 4" = 0.56; 5" = 1.02; 6" = 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: <u>Shawn Victory / Test America</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: <u>1128</u>		SAMPLING ENDED AT: <u>1145</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>113</u>				TUBING MATERIAL CODE: <u>PE</u>				FIELD-FILTERED: <u>(P)</u> N		FILTER SIZE: <u>1.0</u> µm	
FIELD DECONTAMINATION: PUMP <u>Y</u> (N)				TUBING <u>Y</u> (N) (replaced)				DUPLICATE: <u>Y</u> (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml per minute)		
SAMPL E ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-10	1	PE	500	UMP	Ø	4.6	TDS	BP	200		
	2		250	HNO3	Ø	2.20	6020/7420A				
	1		250	H2SO4	Ø	2.20	250.1				
	2		125	UMP	Ø	4.6	CL 353.2				
	1		125	H2SO4	Ø	2.20	353.2				
	6	CA	70	HCl	Ø	-	6260/8011		120		

REMARKS:

2 cpm 15/15 60 psi

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; 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

PAGE: 1 of 1

PURGING DATA

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

REMARKS:

Revision Date: February 12, 2009

PAGE: 1 of 1

PURGING DATA

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 116	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 116	PURGING INITIATED AT: 1545	PURGING ENDED AT: 1616	TOTAL VOLUME PURGED (gallons): 3.2
			DISSOLVED	

WELL CAPACITY (Gallons Per Foot): $0.75" = 0.02$; $1" = 0.04$; $1.25" = 0.06$; $2" = 0.16$; $3" = 0.37$; $4" = 0.65$; $5" = 1.02$; $6" = 1.47$; $12" = 5.88$
 $0.75" = 0.02$; $1" = 0.04$; $1.25" = 0.06$; $1.5" = 0.09$; $1.75" = 0.14$; $2" = 0.16$; $2.25" = 0.21$; $2.5" = 0.26$; $2.75" = 0.31$; $3" = 0.37$; $3.25" = 0.42$; $3.5" = 0.47$; $3.75" = 0.52$; $4" = 0.58$; $4.25" = 0.63$; $4.5" = 0.68$; $4.75" = 0.73$; $5" = 0.79$; $5.25" = 0.84$; $5.5" = 0.89$; $5.75" = 0.94$; $6" = 1.02$; $6.25" = 1.07$; $6.5" = 1.12$; $6.75" = 1.17$; $7" = 1.25$; $7.25" = 1.30$; $7.5" = 1.35$; $7.75" = 1.40$; $8" = 1.47$; $8.25" = 1.52$; $8.5" = 1.57$; $8.75" = 1.62$; $9" = 1.69$; $9.25" = 1.74$; $9.5" = 1.79$; $9.75" = 1.84$; $10" = 1.91$; $10.25" = 1.96$; $10.5" = 2.01$; $10.75" = 2.06$; $11" = 2.13$; $11.25" = 2.18$; $11.5" = 2.23$; $11.75" = 2.28$; $12" = 2.35$; $12.25" = 2.40$; $12.5" = 2.45$; $12.75" = 2.50$; $13" = 2.57$; $13.25" = 2.62$; $13.5" = 2.67$; $13.75" = 2.72$; $14" = 2.79$; $14.25" = 2.84$; $14.5" = 2.89$; $14.75" = 2.94$; $15" = 3.01$; $15.25" = 3.06$; $15.5" = 3.11$; $15.75" = 3.16$; $16" = 3.23$; $16.25" = 3.28$; $16.5" = 3.33$; $16.75" = 3.38$; $17" = 3.45$; $17.25" = 3.50$; $17.5" = 3.55$; $17.75" = 3.60$; $18" = 3.67$; $18.25" = 3.72$; $18.5" = 3.77$; $18.75" = 3.82$; $19" = 3.89$; $19.25" = 3.94$; $19.5" = 3.99$; $19.75" = 4.04$; $20" = 4.11$; $20.25" = 4.16$; $20.5" = 4.21$; $20.75" = 4.26$; $21" = 4.33$; $21.25" = 4.38$; $21.5" = 4.43$; $21.75" = 4.48$; $22" = 4.55$; $22.25" = 4.60$; $22.5" = 4.65$; $22.75" = 4.70$; $23" = 4.77$; $23.25" = 4.82$; $23.5" = 4.87$; $23.75" = 4.92$; $24" = 5.00$; $24.25" = 5.05$; $24.5" = 5.10$; $24.75" = 5.15$; $25" = 5.22$; $25.25" = 5.27$; $25.5" = 5.32$; $25.75" = 5.37$; $26" = 5.44$; $26.25" = 5.49$; $26.5" = 5.54$; $26.75" = 5.59$; $27" = 5.66$; $27.25" = 5.71$; $27.5" = 5.76$; $27.75" = 5.81$; $28" = 5.88$; $28.25" = 5.93$; $28.5" = 5.98$; $28.75" = 6.03$; $29" = 6.10$; $29.25" = 6.15$; $29.5" = 6.20$; $29.75" = 6.25$; $30" = 6.32$; $30.25" = 6.37$; $30.5" = 6.42$; $30.75" = 6.47$; $31" = 6.54$; $31.25" = 6.59$; $31.5" = 6.64$; $31.75" = 6.69$; $32" = 6.76$; $32.25" = 6.81$; $32.5" = 6.86$; $32.75" = 6.91$; $33" = 6.98$; $33.25" = 7.03$; $33.5" = 7.08$; $33.75" = 7.13$; $34" = 7.20$; $34.25" = 7.25$; $34.5" = 7.30$; $34.75" = 7.35$; $35" = 7.42$; $35.25" = 7.47$; $35.5" = 7.52$; $35.75" = 7.57$; $36" = 7.64$; $36.25" = 7.69$; $36.5" = 7.74$; $36.75" = 7.79$; $37" = 7.86$; $37.25" = 7.91$; $37.5" = 7.96$; $37.75" = 8.01$; $38" = 8.08$; $38.25" = 8.13$; $38.5" = 8.18$; $38.75" = 8.23$; $39" = 8.30$; $39.25" = 8.35$; $39.5" = 8.40$; $39.75" = 8.45$; $40" = 8.52$; $40.25" = 8.57$; $40.5" = 8.62$; $40.75" = 8.67$; $41" = 8.74$; $41.25" = 8.79$; $41.5" = 8.84$; $41.75" = 8.89$; $42" = 8.96$; $42.25" = 9.01$; $42.5" = 9.06$; $42.75" = 9.11$; $43" = 9.18$; $43.25" = 9.23$; $43.5" = 9.28$; $43.75" = 9.33$; $44" = 9.40$; $44.25" = 9.45$; $44.5" = 9.50$; $44.75" = 9.55$; $45" = 9.62$; $45.25" = 9.67$; $45.5" = 9.72$; $45.75" = 9.77$; $46" = 9.84$; $46.25" = 9.89$; $46.5" = 9.94$; $46.75" = 9.99$; $47" = 10.06$; $47.25" = 10.11$; $47.5" = 10.16$; $47.75" = 10.21$; $48" = 10.28$; $48.25" = 10.33$; $48.5" = 10.38$; $48.75" = 10.43$; $49" = 10.50$; $49.25" = 10.55$; $49.5" = 10.60$; $49.75" = 10.65$; $50" = 10.72$; $50.25" = 10.77$; $50.5" = 10.82$; $50.75" = 10.87$; $51" = 10.94$; $51.25" = 10.99$; $51.5" = 11.04$; $51.75" = 11.09$; $52" = 11.16$; $52.25" = 11.21$; $52.5" = 11.26$; $52.75" = 11.31$; $53" = 11.38$; $53.25" = 11.43$; $53.5" = 11.48$; $53.75" = 11.53$; $54" = 11.60$; $54.25" = 11.65$; $54.5" = 11.70$; $54.75" = 11.75$; $55" = 11.82$; $55.25" = 11.87$; $55.5" = 11.92$; $55.75" = 11.97$; $56" = 12.04$; $56.25" = 12.09$; $56.5" = 12.14$; $56.75" = 12.19$; $57" = 12.26$; $57.25" = 12.31$; $57.5" = 12.36$; $57.75" = 12.41$; $58" = 12.48$; $58.25" = 12.53$; $58.5" = 1$

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0022; 5/16" = 0.0035; 3/8" = 0.0054; 1/2" = 0.0081; 5/8" = 0.0118; 3/4" = 0.0164; 7/8" = 0.0221; 1" = 0.0288; 1 1/8" = 0.0365; 1 1/4" = 0.0452; 1 3/8" = 0.0549; 1 1/2" = 0.0666; 1 5/8" = 0.0793; 1 3/4" = 0.0930; 1 7/8" = 0.1077; 2" = 0.1234; 2 1/8" = 0.1401; 2 1/4" = 0.1578; 2 3/8" = 0.1765; 2 1/2" = 0.1962; 2 5/8" = 0.2169; 2 3/4" = 0.2386; 2 7/8" = 0.2613; 3" = 0.2850; 3 1/8" = 0.3097; 3 1/4" = 0.3354; 3 3/8" = 0.3621; 3 1/2" = 0.3898; 3 5/8" = 0.4185; 3 3/4" = 0.4482; 3 7/8" = 0.4789; 4" = 0.5106; 4 1/8" = 0.5433; 4 1/4" = 0.5770; 4 3/8" = 0.6117; 4 1/2" = 0.6474; 4 5/8" = 0.6841; 4 3/4" = 0.7218; 4 7/8" = 0.7605; 5" = 0.8002; 5 1/8" = 0.8409; 5 1/4" = 0.8826; 5 3/8" = 0.9253; 5 1/2" = 0.9690; 5 5/8" = 0.1013; 5 3/4" = 0.1067; 5 7/8" = 0.1121; 6" = 0.1175; 6 1/8" = 0.1239; 6 1/4" = 0.1303; 6 3/8" = 0.1367; 6 1/2" = 0.1431; 6 5/8" = 0.1495; 6 3/4" = 0.1559; 6 7/8" = 0.1623; 7" = 0.1687; 7 1/8" = 0.1751; 7 1/4" = 0.1815; 7 3/8" = 0.1879; 7 1/2" = 0.1943; 7 5/8" = 0.2007; 7 3/4" = 0.2071; 7 7/8" = 0.2135; 8" = 0.2199; 8 1/8" = 0.2263; 8 1/4" = 0.2327; 8 3/8" = 0.2391; 8 1/2" = 0.2455; 8 5/8" = 0.2519; 8 3/4" = 0.2583; 8 7/8" = 0.2647; 9" = 0.2711; 9 1/8" = 0.2775; 9 1/4" = 0.2839; 9 3/8" = 0.2903; 9 1/2" = 0.2967; 9 5/8" = 0.3031; 9 3/4" = 0.3095; 9 7/8" = 0.3159; 10" = 0.3223; 10 1/8" = 0.3287; 10 1/4" = 0.3351; 10 3/8" = 0.3415; 10 1/2" = 0.3479; 10 5/8" = 0.3543; 10 3/4" = 0.3607; 10 7/8" = 0.3671; 11" = 0.3735; 11 1/8" = 0.3799; 11 1/4" = 0.3863; 11 3/8" = 0.3927; 11 1/2" = 0.3991; 11 5/8" = 0.4055; 11 3/4" = 0.4119; 11 7/8" = 0.4183; 12" = 0.4247; 12 1/8" = 0.4311; 12 1/4" = 0.4375; 12 3/8" = 0.4439; 12 1/2" = 0.4503; 12 5/8" = 0.4567; 12 3/4" = 0.4631; 12 7/8" = 0.4695; 13" = 0.4759; 13 1/8" = 0.4823; 13 1/4" = 0.4887; 13 3/8" = 0.4951; 13 1/2" = 0.5015; 13 5/8" = 0.5079; 13 3/4" = 0.5143; 13 7/8" = 0.5207; 14" = 0.5271; 14 1/8" = 0.5335; 14 1/4" = 0.5399; 14 3/8" = 0.5463; 14 1/2" = 0.5527; 14 5/8" = 0.5591; 14 3/4" = 0.5655; 14 7/8" = 0.5719; 15" = 0.5783; 15 1/8" = 0.5847; 15 1/4" = 0.5911; 15 3/8" = 0.5975; 15 1/2" = 0.6039; 15 5/8" = 0.6103; 15 3/4" = 0.6167; 15 7/8" = 0.6231; 16" = 0.6295; 16 1/8" = 0.6359; 16 1/4" = 0.6423; 16 3/8" = 0.6487; 16 1/2" = 0.6551; 16 5/8" = 0.6615; 16 3/4" = 0.6679; 16 7/8" = 0.6743; 17" = 0.6807; 17 1/8" = 0.6871; 17 1/4" = 0.6935; 17 3/8" = 0.6999; 17 1/2" = 0.7063; 17 5/8" = 0.7127; 17 3/4" = 0.7191; 17 7/8" = 0.7255; 18" = 0.7319; 18 1/8" = 0.7383; 18 1/4" = 0.7447; 18 3/8" = 0.7511; 18 1/2" = 0.7575; 18 5/8" = 0.7639; 18 3/4" = 0.7703; 18 7/8" = 0.7767; 19" = 0.7831; 19 1/8" = 0.7895; 19 1/4" = 0.7959; 19 3/8" = 0.8023; 19 1/2" = 0.8087; 19 5/8" = 0.8151; 19 3/4" = 0.8215; 19 7/8" = 0.8279; 20" = 0.8343; 20 1/8" = 0.8407; 20 1/4" = 0.8471; 20 3/8" = 0.8535; 20 1/2" = 0.8599; 20 5/8" = 0.8663; 20 3/4" = 0.8727; 20 7/8" = 0.8791; 21" = 0.8855; 21 1/8" = 0.8919; 21 1/4" = 0.8983; 21 3/8" = 0.9047; 21 1/2" = 0.9111; 21 5/8" = 0.9175; 21 3/4" = 0.9239; 21 7/8" = 0.9303; 22" = 0.9367; 22 1/8" = 0.9431; 22 1/4" = 0.9495; 22 3/8" = 0.9559; 22 1/2" = 0.9623; 22 5/8" = 0.9687; 22 3/4" = 0.9751; 22 7/8" = 0.9815; 23" = 0.9879; 23 1/8" = 0.9943; 23 1/4" = 1.0007; 23 3/8" = 1.0071; 23 1/2" = 1.0135; 23 5/8" = 1.0199; 23 3/4" = 1.0263; 23 7/8" = 1.0327; 24" = 1.0391; 24 1/8" = 1.0455; 24 1/4" = 1.0519; 24 3/8" = 1.0583; 24 1/2" = 1.0647; 24 5/8" = 1.0711; 24 3/4" = 1.0775; 24 7/8" = 1.0839; 25" = 1.0903; 25 1/8" = 1.0967; 25 1/4" = 1.1031; 25 3/8" = 1.1095; 25 1/2" = 1.1159; 25 5/8" = 1.1223; 25 3/4" = 1.1287; 25 7/8" = 1.1351; 26" = 1.1415; 26 1/8" = 1.1479; 26 1/4" = 1.1543; 26 3/8" = 1.1607; 26 1/2" = 1.1671; 26 5/8" = 1.1735; 26 3/4" = 1.1799; 26 7/8" = 1.1863; 27" = 1.1927; 27 1/8" = 1.1991; 27 1/4" = 1.2055; 27 3/8" = 1.2119; 27 1/2" = 1.2183; 27 5/8" = 1.2247; 27 3/4" = 1.2311; 27 7/8" = 1.2375; 28" = 1.2439; 28 1/8" = 1.2503; 28 1/4" = 1.2567; 28 3/8" = 1.2631; 28 1/2" = 1.2695; 28 5/8" = 1.2759; 28 3/4" = 1.2823; 28 7/8" = 1.2887; 29" = 1.2951; 29 1/8" = 1.3015; 29 1/4" = 1.3079; 29 3/8" = 1.3143; 29 1/2" = 1.3207; 29 5/8" = 1.3271; 29 3/4" = 1.3335; 29 7/8" = 1.3399; 30" = 1.3463; 30 1/8" = 1.3527; 30 1/4" = 1.3591; 30 3/8" = 1.3655; 30 1/2" = 1.3719; 30 5/8" = 1.3783; 30 3/4" = 1.3847; 30 7/8" = 1.3911; 31" = 1.3975; 31 1/8" = 1.4039; 31 1/4" = 1.4103; 31 3/8" = 1.

REMARKS:

2 cpm $\frac{15}{15}$ 65 psi

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; S = Sailer; 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:** $\pm 0.2^{\circ}\text{C}$ **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

Revision Date: February 12, 2009

PAGE: 1 of 1

PURGING DATA				
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 96 feet to 116 feet	STATIC DEPTH TO WATER (feet): 103.04	PURGE PUMP TYPE OR BAILER: BD
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
(only fill out if applicable) 12.96 = (116.0 feet - 103.04 feet) X .16 gallons/foot = 2.07 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
(only fill out if applicable)				

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; 5" = 1.02; 6" = 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" = 0.006; 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)

REMARKS:

Revision Date: February 12, 2009

58711

PAGE: 6 of

PURGING DATA

[illegible]

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
M-20	1	PIE	500	UNP	0	6.0	TDS	BP	360
↓	1	↓	250	HNO3	0	2.0	6020/720A	↓	↓
↓	1	↓	250	H2SO4	0	2.0	350.1	↓	↓
↓	2	↓	125	UNP	0	6.0	Cl, 253.2	↓	↓
↓	1	↓	125	H2SO4	0	2.0	253.2	↓	↓
↓	6	CG	40	HCl	0	—	8260/8011	↓	4120

cpm @ $15/15$ 60 pss

Revision Date: February 12, 2009

PAGE: 1 of 1

PURGING DATA

SAMPLING DATA

Revision Date: February 12, 2009

TESTAMERICA ORLANDO FIELD SAMPLING LOG --
DEP-SOP-001/01- Form FD 9000-24 GROUNDWATER SAMPLING

Meter #'s: M-1 / T-3

PAGE: 1 of 1

SITE NAME: <u>Citrus County Landfill</u>		SITE LOCATION: <u>Lecanto, FL</u>	
WELL NO: <u>MW-3</u>	SAMPLE ID: <u>MW-3</u>	DATE: <u>1-22-14</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>113.45</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <u>5.57</u> = <u>119.0</u> feet - <u>113.45</u> feet X <u>.16</u> gallons/foot = <u>.90</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):				
115		115		1305		1327		1.5				
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)	COLOR describe	ODOR	ORP
1319	.90	.90	.06	water	4.99	19.6	45	4.21	.43	clear	NO	-
1323	.24	1.14	.06	level	4.83	19.5	44	3.99	.82	↓	↓	=
1327	.24	1.38	.06	below	4.86	19.5	44	3.48	.55	↓	↓	=
				Top of pump								
												</

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; 5" = 1.02; 6" = 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" = 0.006; 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: <u>Shawn Victory / Test America</u>		SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>		SAMPLING INITIATED AT: <u>1327</u>	SAMPLING ENDED AT: <u>1340</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>115</u>		TUBING MATERIAL CODE: <u>PE</u>		FIELD-FILTERED: Y ☒ (N)	FILTER SIZE: <u> </u> μm
FIELD DECONTAMINATION: PUMP Y ☒ (N)		TUBING Y ☒ (N) (replaced)		DUPLICATE: Y ☒ (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml. per minute)
SAMPL E ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL. ADDED IN FIELD (mL)	FINAL pH			
<u>MW-3</u>	<u>1</u>	<u>PE</u>	<u>500</u>	<u>UMP</u>	<u>0</u>	<u>4.5</u>	<u>TDS</u>	<u>BP</u>	<u>240</u>
<u>↓</u>	<u>1</u>	<u>↓</u>	<u>250</u>	<u>H2SO4</u>	<u>↓</u>	<u>4.0</u>	<u>6020/7470A</u>	<u>↓</u>	<u>↓</u>
<u>↓</u>	<u>2</u>	<u>↓</u>	<u>250</u>	<u>H2SO4</u>	<u>↓</u>	<u>2.0</u>	<u>350.1</u>	<u>↓</u>	<u>↓</u>
<u>↓</u>	<u>1</u>	<u>↓</u>	<u>125</u>	<u>UMP</u>	<u>↓</u>	<u>4.8</u>	<u>cl, 353.2</u>	<u>↓</u>	<u>↓</u>
<u>↓</u>	<u>1</u>	<u>↓</u>	<u>125</u>	<u>H2SO4</u>	<u>↓</u>	<u>2.0</u>	<u>353.2</u>	<u>↓</u>	<u>↓</u>
<u>↓</u>	<u>6</u>	<u>CG</u>	<u>40</u>	<u>HCl</u>	<u>↓</u>	<u>8260/8011</u>	<u>↓</u>	<u>↓</u>	<u>2120</u>

REMARKS: 1 cpm 30/ 130 Bopsi

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)
123 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

TESTAMERICA ORLANDO FIELD SAMPLING
DEP-SOP-001/01- Form FD 9000-24 GROUNDWATER SAMPLING

Meter #'s: M-1 / T-3

PAGE: 1 of 1

SITE NAME: Citrus County Landfill SITE LOCATION: Levento, FL DATE: 1-22-14
WELL NO: MW-15 SAMPLE ID: MW-15

PURGING DATA

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 1/4 WELL SCREEN INTERVAL DEPTH: 10 feet to 120 feet STATIC DEPTH TO WATER (feet): 117.70 PURGE PUMP TYPE OR BAILER: ESP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 11.90 = 129.60 feet - 117.70 feet X 1.16 gallons/foot = 1.90 gallons
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = gallons + (gallons/foot X 11.21 feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 124 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 124 PURGING INITIATED AT: 1733 PURGING ENDED AT: 1810 TOTAL VOLUME PURGED (gallons): 7.0

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 (S/cm)	DISSOLVED OXYGEN (circle units) % or % saturation	TURBIDITY (NTUs)	COLOR describe	ODOR	ORP
1740	1.90	1.90	1.23	118.41	5.09	24.8	50	42	235	Cloudy	NO	-
1743	.69	2.59	.23	118.41	5.10	26.2	50	30	86.7			-
1746	.69	3.28	.23	118.41	5.10	26.4	49	27	54.4			-
1750	.60	3.88	.15	118.41	5.10	26.3	50	26	33.7			-
1754	.60	4.48	.15	118.41	5.10	26.4	49	22	18.2	Clear		-
1758	.60	5.08	.15	118.41	5.10	26.5	49	21	13.1			-
1802	.60	5.68	.15	118.41	5.10	26.6	49	20	9.40			-
1806	.60	6.28	.15	118.41	5.09	26.7	49	19	7.38			-
1810	.60	6.88	.15	118.41	5.09	26.7	48	19	4.33			-

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; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 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: Shawn Victory / Test America SAMPLER SIGNATURE(S): [Signature] SAMPLING INITIATED AT: 1816 SAMPLING ENDED AT: 1820
PUMP OR TUBING DEPTH IN WELL (feet): 124 TUBING MATERIAL CODE: PE FIELD-FILTERED: Y (N) FILTER SIZE: 1 µm
FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
MW-15	1	PE	300	UMP	0	5.0	TD5	BP ESP	920
			250	HNO3	0	2.0	6000/7470A		
	1		250	H2SO4	0	2.0	350.1		
	2		125	UMP	0	5.0	CL 353.2		
	1		125	H2SO4	0	2.0	353.2		
	6	CG	40	HCl	0	-	8260/8011		2120

REMARKS: Client removed faulty bladder pump enabling us to sample well with electric submersible pump

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; 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

TESTAMERICA ORLANDO FIELD SAMPLING LOG -
DEP-SOP-001/01- Form FD 9000-24 GROUNDWATER SAMPLING

Meter #s: M-1 / T-3

PAGE: 1 of 1

SITE NAME: <u>Citrus County Landfill</u>	SITE LOCATION: <u>Levento, FL</u>
WELL NO: <u>MW-12</u>	SAMPLE ID: <u>MW-12</u> DATE: <u>1-22-14</u>

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>90</u> feet to <u>110</u> feet	STATIC DEPTH TO WATER (feet): <u>97.80</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <u>12.20</u> = <u>110.0</u> feet - <u>97.80</u> feet X <u>.16</u> gallons/foot = <u>1.95</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 104				FINAL PUMP OR TUBING DEPTH IN WELL (feet): 104				PURGING INITIATED AT: 1835		PURGING ENDED AT: 1923		TOTAL VOLUME PURGED (gallons): 8.0	
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 µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR describe	ODOR	ORP	
1846	1.95	1.95	.18	97.93	6.92	24.9	451	1.28	347	cloudy	NO	-	
1849	.54	2.49	.18	97.93	6.93	25.6	452	1.28	107	↓	↓	-	
1852	.54	3.03	.18	97.94	6.94	26.0	453	.30	81	↓	↓	-	
1856	.60	3.63	.15	97.94	6.94	26.2	454	.28	58	↓	↓	-	
1900	.60	4.23	.15	97.94	6.94	26.5	455	.28	42	↓	↓	-	
1905	.75	4.98	.15	97.94	6.94	26.7	456	.28	32	↓	↓	-	
1910	.75	5.73	.15	97.94	6.94	26.8	456	.25	21	Clear	↓	-	
1915	.75	6.48	.15	97.94	6.93	27.0	457	.24	15	↓	↓	-	
1920	.75	7.23	.15	97.94	6.93	27.1	458	.23	9.50	↓	↓	-	
1923	.75	7.98	.15	97.94	6.93	27.1	457	.24	4.71	↓	↓	-	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.66; 5" = 1.02; 6" = 1.47; 12" = 6.88
 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: <u>Shawn Victory / Test America</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1923</u>	SAMPLING ENDED AT: <u>1928</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>104</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y ☐ N ☒	FILTER SIZE: <u> </u> µm
FIELD DECONTAMINATION: PUMP Y ☒ TUBING Y ☒ (replaced)	DUPLICATE: Y ☒		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPL E ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-12	1	PE	100	UMP	0	6.9	TDS	BP	600
	1		250	HNO3		2.0	6020/1470A		
	2		250	H2SO4		2.0	350.1		
	1		125	UMP		6.9	01, 353.2		
	1		125	H2SO4		2.0	353.2		
	6	CG	40	HCl		-	8260/5011		120

REMARKS:

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; 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

SITE NAME: Citrus County Landfill		SITE LOCATION: Lecanto Fla.	
WELL NO: MW-13	SAMPLE ID: MW-13	DATE: 1-22-14	

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 106.30	PURGE PUMP TYPE OR BAILER: BP
Measuring Point Elevation (ft/msl) MP Elevation =		- Water Level = Water Level Elevation		

$$(13.20) = (119.50 \text{ feet} - 106.30 \text{ feet}) \times .16 \text{ gallons/foot} = 2.11$$
$$\text{ft} \quad \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 117'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 117'	PURGING INITIATED AT: 1255	PURGING ENDED AT: 1336	TOTAL VOLUME PURGED (gallons): 3.28
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[illegible]

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; 5" = 1.02; 6" = 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" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: <i>Sam Esser</i>				SAMPLER(S) SIGNATURE(S): <i>Sam Esser</i>			SAMPLING INITIATED AT: 1338		SAMPLING ENDED AT: 1348	
PUMP OR TUBING DEPTH IN WELL (feet): 117'				TUBING MATERIAL CODE: PE		FIELD-FILTERED: Y (N)		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)		DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW.13	1	PE	500	unp	8	5.15	TDS		BP	320
↓	2	PE	250/125	H2SO4	↓	<2	3501/333.2		↓	320
↓	1	PE	250	HNO3	↓	<2	6020/7470		↓	320
↓	2	PE	125	unp	↓	5.15	353.2/C1		↓	320
↓	3	CG	40	HCl	↓	<2	804		↓	<120
↓	3	CG	40	unp	↓	5.15	8260B		↓	<120

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 = Bailor; 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: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2\text{ mg/L}$ or $\pm 10\%$ (whichever is greater) Turbidity: all readings $< 20\text{ NTU}$; optionally $+ 5\text{ NTU}$ or $+ 10\%$ (whichever is greater)

PAGE: 1 of 1

2/6/2014

PAGE: 1 of 1

PURGING DATA

[illegible]

PURGING EQUIPMENT CODES: B = Bailer, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: <i>Shawn Victor / Test America</i>		SAMPLER(S) SIGNATURE(S): <i>Shawn Victor</i>		SAMPLING INITIATED AT: <i>1557</i>	SAMPLING ENDED AT: <i>1559</i>
PUMP OR TUBING DEPTH IN WELL (feet): <i>117</i>		TUBING MATERIAL CODE: <i>PE</i>	FIELD-FILTERED: Y ☒ (N)		FILTER SIZE: _____ μ m
FIELD DECONTAMINATION: PUMP Y ☒ (N) TUBING Y ☒ (replaced)			DUPLICATE: Y ☒ (N)		

REMARKS:

SAMPLING EQUIPMENT CODES: APP = After 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)

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

Revision Date: February 12, 2009

58670

PAGE: 1 of 1

PURGING DATA

[illegible]

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: Steve Vickery, Fort Amson			SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: 1450		SAMPLING ENDED AT: 1455		
PUMP OR TUBING DEPTH IN WELL (feet):			TUBING MATERIAL CODE: PE			FIELD-FILTERED: Y N		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION:			PUMP Y N			TUBING Y N (replaced)			DUPLICATE: Y N	

[illegible]

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; 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: $\pm 0.2^{\circ}\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ 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 $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

McCaughey, Becky

From: Victory, Shawn

Sent: Monday, January 27, 2014 8:00 AM

To: McCaughey, Becky

Subject: RE: Sheen field result needed for Citrus County Landfill MWs collected 01.21. and 01.22.

No sheen

From: McCaughey, Becky [mailto:becky.mccaughey@testamericainc.com]

Sent: Friday, January 24, 2014 10:56 AM

To: Esser, Sam; Victory, Shawn

Subject: Sheen field result needed for Citrus County Landfill MWs collected 01.21. and 01.22.

Hi Guys,

Do either one of you remember if any of these samples had a sheen? I need to include a "Yes" or "No" result in our report. Thanks much!

BECKY MCCAUGHEY

TestAmerica Tampa

THE LEADER IN ENVIRONMENTAL TESTING

Tel: 813.885.7427

www.testamericainc.com

Reference: [103680]

Attachments: 2

Field Calibration Logbook

Name: Citrus County Landfill Date: 1-22-14 Instrument #: M-1/T-3 Make/Model: YSI 556 / Hach 1120

pH:

	pH Buffer	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)	Temp. (°C)
Initial	7.00	130534	1/15	715	7.04	NO	CCV	14.4
	4.00	126018	6/14	717	4.62	+	+	14.4
	10.00							
Post	7.00	130534	1/15	908	7.05	NO	CCV	12.1
	4.00	126018	6/14	910	4.04	+	+	12.3
	10.00							

CONDUCTIVITY STANDARD:

	Conductivity (uS/cm)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	100	430539	5/14	720	10.3	NO	CCV
	1000						
	10000						
Post	100	430539	5/14	911	10.4	NO	CCV
	1000						
	10000						

DISSOLVED OXYGEN: (Reference Table FS2200-2)*

Temperature Probe Annual Calibration: Date:

NIST Therm. ID#:

	Temp. (°C)	DO*(mg/L)	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	5.37	12.61	7:22	5.39/12.57	YES	ICV
Post	16.5	9.97	9:04	15.5/9.81	NO	CCV

ORP: (Reference Table 6.2 Zobell Solution Values)*

	ORP (milliVolts)*	Lot #	Exp. Date	Time	Temp. (°C)	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	244.5	2305373	2/14	723	13.0	242.2	NO	CCV
Post	244.5	2305373	2/14	917	13.0	242.1	NO	CCV

TURBIDITY:

	Turbidity (NTU)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	6.32	A230	2/14	725	6.47	NO	CCV
	57.9	+	+	+	52.4	+	+
	520				524		
Post	6.32	A230	2/14	918	6.50	NO	CCV
	57.9	+	+	+	52.4	+	+
	520				527		

Acceptance Criteria: 1-10 NTU=10%, 11-40 NTU=8%, 41-100 NTU=6.5%, >100 NTU=5%

Calibrated only in Calibrate Mode

ICV- Initial Calibration Verification (perform only in Run Mode)

CCV- Continuing Calibration Verification (perform only in Run Mode)

Signature: [Signature]

Signature: _____

Date: 1-22-14

Date: _____

Field Calibration Logbook

Name: Citrus County Landfill Date: 1-21-14 Instrument #: M-2/T-3 Make/Model: YSI 556 / High 2100P

pH:

	pH Buffer	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)	Temp. (°C)
Initial	7.00	130534	1-15	0817	7.00	Y	CCV	14.5
	4.00	126018	9-14	0819	4.01	Y	CCV	14.5
	10.00							
Post	7.00	130534	1/15	1540	7.02	NO	CCV	14.3
	4.00	126018	9/14	1542	4.02	Y	CCV	14.3
	10.00							

CONDUCTIVITY STANDARD:

	Conductivity (uS/cm)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	100	430539	5-14	0825	102	Y	CCV
	1000						
	10000						
Post	100	430539	5/14	1545	103	NO	CCV
	1000						
	10000						

DISSOLVED OXYGEN: (Reference Table FS2200-2)*

Temperature Probe Annual Calibration: Date:

NIST Therm. ID#:

	Temp. (°C)	DO*(mg/L)	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	14.9	9.685	0829	16.7/9.71	Y	CCV
Post	17.3	9.60	1547	17.3/9.74	NO	CCV

ORP: (Reference Table 6.2 Zobell Solution Values)*

	ORP (millivolts)*	Lot #	Exp. Date	Time	Temp. (°C)	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial								
Post								

TURBIDITY:

	Turbidity (NTU)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	6.32	A230	7/24	573	6.45	NO	CCV
	51.9	f	f	f	52.1	Y	f
	520	f	f	f	524		
Post	6.32	A230	12/14	1550	6.47	NO	CCV
	51.9	f	f	f	524	Y	f
	520				524		

Acceptance Criteria: 1-10 NTU=10%, 11-40 NTU=8%, 41-100 NTU=6.5%, >100 NTU=5%

Calibrated only in Calibrate Mode

ICV- Initial Calibration Verification (perform only in Run Mode)

CCV- Continuing Calibration Verification (perform only in Run Mode)

Signature: [Signature]

Signature: _____

Date: 1/21/14

Date: _____

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58669-1

Login Number: 58669

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58669-1

Login Number: 58669

List Source: TestAmerica Savannah

List Number: 1

List Creation: 01/23/14 09:05 AM

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58669-1

Login Number: 58670

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58669-1

Login Number: 58670

List Source: TestAmerica Savannah

List Number: 1

List Creation: 01/23/14 09:05 AM

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58669-1

Login Number: 58711

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58669-1

Login Number: 58711

List Source: TestAmerica Savannah

List Number: 1

List Creation: 01/24/14 08:57 AM

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

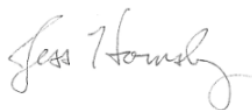
TestAmerica Job ID: 660-58711-1

Client Project/Site: Citrus County LF Effluent (Jan. 2014)

For:

CDM Smith, Inc.
1715 North Westshore Blvd.
Suite 875
Tampa, Florida 33607

Attn: Mr. Nathan Schmaus



Authorized for release by:
2/7/2014 10:46:49 AM

Jess Hornsby, Project Manager I
(813)885-7427

jess.hornsby@testamericainc.com

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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.

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Definitions/Glossary	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	17
Lab Chronicle	19
Method Summary	20
Certification Summary	21
Chain of Custody	23
Field Data Sheets	25
Receipt Checklists	30



Sample Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-58711-9	MW-6	Ground Water	01/22/14 10:26	01/23/14 08:00
660-58713-1	Leachate Effluent	Water	01/22/14 08:50	01/23/14 08:00

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Job ID: 660-58711-1

Laboratory: TestAmerica Tampa

Narrative

Receipt

The samples were received on 1/23/2014 8:00 AM; the samples arrived in good condition, properly preserved and on ice. The temperatures of the three coolers at receipt time were 2.1°C, 2.7°C and 2.7°C.

GC/MS VOA

Method 524.2: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 313499.

No other analytical or quality issues were noted.

Metals

Method 6020: Due to the high concentration of sodium the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-312897 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-312897 were outside control limits for iron. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No other analytical or quality issues were noted.

Field Service / Mobile Lab

No analytical or quality issues were noted.

General Chemistry

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 313380 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No other analytical or quality issues were noted.

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Qualifiers

GC/MS VOA

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

HPLC/IC

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.

Metals

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
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
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Client Sample ID: MW-6

Lab Sample ID: 660-58711-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bromodichloromethane	1.3		0.50	0.10	ug/L		1		524.2	Total/NA
Chloroform	1.8		0.50	0.29	ug/L		1		524.2	Total/NA
Dibromochloromethane	1.2		0.50	0.43	ug/L		1		524.2	Total/NA
Trihalomethanes, Total	4.3		0.50	0.10	ug/L		1		524.2	Total/NA
Chloride	280		5.0	2.5	mg/L		10		300.0	Total/NA
Iron	1100		100	33	ug/L		1		6020	Total Recoverable
Sodium	150		0.50	0.25	mg/L		1		6020	Total Recoverable
Total Dissolved Solids	410		17	17	mg/L		1		SM 2540C	Total/NA
Color	Clear				Color Units		1		Field Sampling	Total/NA
Field pH	4.37				SU		1		Field Sampling	Total/NA
Field Temperature	22.4				Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.32				mg/L		1		Field Sampling	Total/NA
Sheen	No				SU		1		Field Sampling	Total/NA
Specific Conductance	885				umhos/cm		1		Field Sampling	Total/NA
Turbidity	1.05				NTU		1		Field Sampling	Total/NA
Water Level	111.27				ft		1		Field Sampling	Total/NA

Client Sample ID: Leachate Effluent

Lab Sample ID: 660-58713-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bromodichloromethane	20		0.50	0.10	ug/L		1		524.2	Total/NA
Bromoform	1.3		0.50	0.39	ug/L		1		524.2	Total/NA
Chloroform	32		0.50	0.29	ug/L		1		524.2	Total/NA
Dibromochloromethane	6.8		0.50	0.43	ug/L		1		524.2	Total/NA
Trihalomethanes, Total	60		0.50	0.10	ug/L		1		524.2	Total/NA
Chloride	620		10	5.0	mg/L		20		300.0	Total/NA
Arsenic	9.0	I	10	4.0	ug/L		1		6010B	Total Recoverable
Sodium	380		0.50	0.31	mg/L		1		6010B	Total Recoverable
Ammonia	0.077		0.050	0.026	mg/L		1		350.1	Total/NA
Total Dissolved Solids	1500		50	50	mg/L		1		SM 2540C	Total/NA
Field pH	8.18				SU		1		Field Sampling	Total/NA
Field Temperature	12.36				Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	5.89				mg/L		1		Field Sampling	Total/NA
Specific Conductance	2364				umhos/cm		1		Field Sampling	Total/NA
Turbidity	10.60				NTU		1		Field Sampling	Total/NA
Color	Tan				Color Units		1		Field Sampling	Total/NA
Water Level	0				ft		1		Field Sampling	Total/NA
Sheen	No				SU		1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Client Sample ID: MW-6
Date Collected: 01/22/14 10:26
Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-9
Matrix: Ground Water

Method: 524.2 - Total Trihalomethane Calculation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.3		0.50	0.10	ug/L			01/30/14 21:09	1
Bromoform	0.39	U	0.50	0.39	ug/L			01/30/14 21:09	1
Chloroform	1.8		0.50	0.29	ug/L			01/30/14 21:09	1
Dibromochloromethane	1.2		0.50	0.43	ug/L			01/30/14 21:09	1
Trihalomethanes, Total	4.3		0.50	0.10	ug/L			01/30/14 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130					01/30/14 21:09	1
1,2-Dichlorobenzene-d4	101		70 - 130					01/30/14 21:09	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		5.0	2.5	mg/L			02/03/14 15:06	10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	U	2.5	1.3	ug/L		01/24/14 13:09	01/28/14 11:54	1
Iron	1100		100	33	ug/L		01/24/14 13:09	01/28/14 11:54	1
Sodium	150		0.50	0.25	mg/L		01/24/14 13:09	01/28/14 11:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		17	17	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	Clear				Color Units			01/22/14 10:26	1
Field pH	4.37				SU			01/22/14 10:26	1
Field Temperature	22.4				Degrees C			01/22/14 10:26	1
Oxygen, Dissolved	0.32				mg/L			01/22/14 10:26	1
Sheen	No				SU			01/22/14 10:26	1
Specific Conductance	885				umhos/cm			01/22/14 10:26	1
Turbidity	1.05				NTU			01/22/14 10:26	1
Water Level	111.27				ft			01/22/14 10:26	1

Client Sample ID: Leachate Effluent

Lab Sample ID: 660-58713-1
Matrix: Water

Date Collected: 01/22/14 08:50
Date Received: 01/23/14 08:00

Method: 524.2 - Total Trihalomethane Calculation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	20		0.50	0.10	ug/L			01/30/14 16:56	1
Bromoform	1.3		0.50	0.39	ug/L			01/30/14 16:56	1
Chloroform	32		0.50	0.29	ug/L			01/30/14 16:56	1
Dibromochloromethane	6.8		0.50	0.43	ug/L			01/30/14 16:56	1
Trihalomethanes, Total	60		0.50	0.10	ug/L			01/30/14 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130					01/30/14 16:56	1
1,2-Dichlorobenzene-d4	97		70 - 130					01/30/14 16:56	1

TestAmerica Tampa

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Client Sample ID: Leachate Effluent

Lab Sample ID: 660-58713-1

Date Collected: 01/22/14 08:50

Matrix: Water

Date Received: 01/23/14 08:00

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 23:46	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/24/14 23:46	1
Toluene	0.51	U	1.0	0.51	ug/L			01/24/14 23:46	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 23:46	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/24/14 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 130					01/24/14 23:46	1
Dibromofluoromethane	98		70 - 130					01/24/14 23:46	1
Toluene-d8 (Surr)	99		70 - 130					01/24/14 23:46	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	620		10	5.0	mg/L			02/01/14 14:53	20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0	I	10	4.0	ug/L		01/24/14 08:07	01/24/14 15:15	1
Sodium	380		0.50	0.31	mg/L		01/24/14 08:07	01/24/14 15:15	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.077		0.050	0.026	mg/L			01/28/14 14:17	1
Total Dissolved Solids	1500		50	50	mg/L			01/29/14 15:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	8.18				SU			01/22/14 08:50	1
Field Temperature	12.36				Degrees C			01/22/14 08:50	1
Oxygen, Dissolved	5.89				mg/L			01/22/14 08:50	1
Specific Conductance	2364				umhos/cm			01/22/14 08:50	1
Turbidity	10.60				NTU			01/22/14 08:50	1
Color	Tan				Color Units			01/22/14 08:50	1
Water Level	0				ft			01/22/14 08:50	1
Sheen	No				SU			01/22/14 08:50	1

TestAmerica Tampa

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Method: 524.2 - Total Trihalomethane Calculation

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB (70-130)	12DCB (70-130)
660-58711-9	MW-6	98	101
Surrogate Legend			
BFB = 4-Bromofluorobenzene			
12DCB = 1,2-Dichlorobenzene-d4			

Method: 524.2 - Total Trihalomethane Calculation

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-130)	BFB (70-130)	12DCB (70-130)	12DCB (70-130)
660-58713-1	Leachate Effluent	94	94	97	97
LCS 680-313499/3	Lab Control Sample	101	101	102	102
LCSD 680-313499/4	Lab Control Sample Dup	100	100	100	100
MB 680-313499/9	Method Blank	100	100	100	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene					
12DCB = 1,2-Dichlorobenzene-d4					

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
660-58713-1	Leachate Effluent	96	98	99
660-58722-F-1 MS	Matrix Spike	100	100	100
660-58722-F-3 DU	Duplicate	95	98	99
LCS 660-145584/4	Lab Control Sample	97	100	102
MB 660-145584/6	Method Blank	96	99	100
Surrogate Legend				
BFB = 4-Bromofluorobenzene				
DBFM = Dibromofluoromethane				
TOL = Toluene-d8 (Surr)				

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Method: 524.2 - Total Trihalomethane Calculation

Lab Sample ID: MB 680-313499/9

Matrix: Water

Analysis Batch: 313499

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.10	U	0.50	0.10	ug/L			01/30/14 15:47	1
Bromodichloromethane	0.10	U	0.50	0.10	ug/L			01/30/14 15:47	1
Bromoform	0.39	U	0.50	0.39	ug/L			01/30/14 15:47	1
Bromoform	0.39	U	0.50	0.39	ug/L			01/30/14 15:47	1
Chloroform	0.29	U	0.50	0.29	ug/L			01/30/14 15:47	1
Chloroform	0.29	U	0.50	0.29	ug/L			01/30/14 15:47	1
Dibromochloromethane	0.43	U	0.50	0.43	ug/L			01/30/14 15:47	1
Dibromochloromethane	0.43	U	0.50	0.43	ug/L			01/30/14 15:47	1
Trihalomethanes, Total	0.10	U	0.50	0.10	ug/L			01/30/14 15:47	1
Trihalomethanes, Total	0.10	U	0.50	0.10	ug/L			01/30/14 15:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130		01/30/14 15:47	1
4-Bromofluorobenzene	100		70 - 130		01/30/14 15:47	1
1,2-Dichlorobenzene-d4	100		70 - 130		01/30/14 15:47	1
1,2-Dichlorobenzene-d4	100		70 - 130		01/30/14 15:47	1

Lab Sample ID: LCS 680-313499/3

Matrix: Water

Analysis Batch: 313499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	20.0	18.9		ug/L		95	70 - 130
Bromodichloromethane	20.0	18.9		ug/L		95	70 - 130
Bromoform	20.0	21.2		ug/L		106	70 - 130
Bromoform	20.0	21.2		ug/L		106	70 - 130
Chloroform	20.0	17.3		ug/L		86	70 - 130
Chloroform	20.0	17.3		ug/L		86	70 - 130
Dibromochloromethane	20.0	19.2		ug/L		96	70 - 130
Dibromochloromethane	20.0	19.2		ug/L		96	70 - 130
Trihalomethanes, Total	80.0	76.6		ug/L		96	70 - 130
Trihalomethanes, Total	80.0	76.6		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		70 - 130
4-Bromofluorobenzene	101		70 - 130
1,2-Dichlorobenzene-d4	102		70 - 130
1,2-Dichlorobenzene-d4	102		70 - 130

Lab Sample ID: LCSD 680-313499/4

Matrix: Water

Analysis Batch: 313499

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
Bromodichloromethane	20.0	19.0		ug/L		95	70 - 130	0	30
Bromodichloromethane	20.0	19.0		ug/L		95	70 - 130	0	30
Bromoform	20.0	21.0		ug/L		105	70 - 130	1	30

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Method: 524.2 - Total Trihalomethane Calculation (Continued)

Lab Sample ID: LCSD 680-313499/4

Matrix: Water

Analysis Batch: 313499

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
Bromoform	20.0	21.0		ug/L		105	70 - 130	1	30
Chloroform	20.0	17.3		ug/L		86	70 - 130	0	30
Chloroform	20.0	17.3		ug/L		86	70 - 130	0	30
Dibromochloromethane	20.0	20.0		ug/L		100	70 - 130	4	30
Dibromochloromethane	20.0	20.0		ug/L		100	70 - 130	4	30
Trihalomethanes, Total	80.0	77.3		ug/L		97	70 - 130	1	30
Trihalomethanes, Total	80.0	77.3		ug/L		97	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130
4-Bromofluorobenzene	100		70 - 130
1,2-Dichlorobenzene-d4	100		70 - 130
1,2-Dichlorobenzene-d4	100		70 - 130

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

Lab Sample ID: MB 660-145584/6

Matrix: Water

Analysis Batch: 145584

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.50	U	1.0	0.50	ug/L			01/24/14 16:28	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			01/24/14 16:28	1
Toluene	0.51	U	1.0	0.51	ug/L			01/24/14 16:28	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			01/24/14 16:28	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			01/24/14 16:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 130		01/24/14 16:28	1
Dibromofluoromethane	99		70 - 130		01/24/14 16:28	1
Toluene-d8 (Surr)	100		70 - 130		01/24/14 16:28	1

Lab Sample ID: LCS 660-145584/4

Matrix: Water

Analysis Batch: 145584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.7		ug/L		107	68 - 134
Ethylbenzene	10.0	10.4		ug/L		104	70 - 130
Toluene	10.0	11.1		ug/L		111	70 - 131
Vinyl chloride	10.0	7.75		ug/L		77	48 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

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

Lab Sample ID: 660-58722-F-1 MS

Matrix: Water

Analysis Batch: 145584

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	0.50	U	10.0	10.3		ug/L		103	68 - 134
Ethylbenzene	0.44	U	10.0	10.7		ug/L		107	70 - 130
Toluene	0.51	U	10.0	10.9		ug/L		109	70 - 131
Vinyl chloride	0.50	U	10.0	7.96		ug/L		80	48 - 147

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: 660-58722-F-3 DU

Matrix: Water

Analysis Batch: 145584

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	0.50	U	0.50	U	ug/L		NC	30
Ethylbenzene	0.44	U	0.44	U	ug/L		NC	30
Toluene	0.51	U	0.51	U	ug/L		NC	30
Vinyl chloride	0.50	U	0.50	U	ug/L		NC	30
Xylenes, Total	0.50	U	0.50	U	ug/L		NC	30

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-313813/5

Matrix: Water

Analysis Batch: 313813

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			02/01/14 14:04	1

Lab Sample ID: LCS 680-313813/6

Matrix: Water

Analysis Batch: 313813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-313813/7

Matrix: Water

Analysis Batch: 313813

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
Chloride	10.0	10.1		mg/L		101	90 - 110	0	30

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-58762-D-1 MS

Matrix: Water

Analysis Batch: 313813

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	49		10.0	58.8	L	mg/L		96	80 - 120

Lab Sample ID: 660-58762-D-1 MSD

Matrix: Water

Analysis Batch: 313813

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	49		10.0	59.5	L	mg/L		104	80 - 120	1	30

Lab Sample ID: MB 680-313816/37

Matrix: Water

Analysis Batch: 313816

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			02/01/14 20:41	1

Lab Sample ID: LCS 680-313816/38

Matrix: Water

Analysis Batch: 313816

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-313816/39

Matrix: Water

Analysis Batch: 313816

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	10.0	10.1		mg/L		101	90 - 110	0	30

Lab Sample ID: 660-58711-L-5 MS

Matrix: Water

Analysis Batch: 313816

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	2.6		10.0	13.1		mg/L		104	80 - 120

Lab Sample ID: 680-98057-E-21 MSD

Matrix: Water

Analysis Batch: 313816

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	7.2		10.0	18.9		mg/L		117	80 - 120	0	30

Lab Sample ID: MB 680-313994/5

Matrix: Water

Analysis Batch: 313994

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			02/03/14 14:15	1

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Lab Sample ID: LCS 680-313994/6

Matrix: Water

Analysis Batch: 313994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-313994/7

Matrix: Water

Analysis Batch: 313994

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	10.0	10.1		mg/L		101	90 - 110	0	30

Lab Sample ID: 660-58669-L-1 MS

Matrix: Water

Analysis Batch: 313994

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	6.3		10.0	16.9		mg/L		106	80 - 120

Lab Sample ID: 660-58669-L-1 MSD

Matrix: Water

Analysis Batch: 313994

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	6.3		10.0	17.1		mg/L		108	80 - 120	1	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-145538/1-A

Matrix: Water

Analysis Batch: 145537

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 145538

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		01/24/14 08:07	01/24/14 13:55	1
Sodium	0.31	U	0.50	0.31	mg/L		01/24/14 08:07	01/24/14 13:55	1

Lab Sample ID: LCS 660-145538/2-A

Matrix: Water

Analysis Batch: 145537

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 145538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1030		ug/L		103	80 - 120
Sodium	10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: 660-58707-A-1-B MS

Matrix: Water

Analysis Batch: 145537

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 145538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	U	1000	1080		ug/L		108	80 - 120
Sodium	12		10.0	22.5		mg/L		104	80 - 120

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

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

Lab Sample ID: 660-58707-A-1-C MSD

Matrix: Water

Analysis Batch: 145537

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 145538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1060		ug/L		106	80 - 120	2	20
Sodium	12		10.0	22.6		mg/L		105	80 - 120	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-312897/1-A

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	U	2.5	1.3	ug/L		01/24/14 13:09	01/28/14 10:08	1
Iron	33	U	100	33	ug/L		01/24/14 13:09	01/28/14 10:08	1
Sodium	0.25	U	0.50	0.25	mg/L		01/24/14 13:09	01/28/14 10:08	1

Lab Sample ID: LCS 680-312897/2-A

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	110		ug/L		110	75 - 125
Iron	5000	5390		ug/L		108	75 - 125
Sodium	5.00	5.40		mg/L		108	75 - 125

Lab Sample ID: 640-46531-F-1-B MS

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.3	U	100	119		ug/L		119	75 - 125
Iron	7500	J3	5000	13800	J3	ug/L		126	75 - 125
Sodium	24	J3	5.00	31.0	J3	mg/L		147	75 - 125

Lab Sample ID: 640-46531-F-1-C MSD

Matrix: Water

Analysis Batch: 313361

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 312897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.3	U	100	119		ug/L		119	75 - 125	0	20
Iron	7500	J3	5000	13900	J3	ug/L		129	75 - 125	1	20
Sodium	24	J3	5.00	30.4	J3	mg/L		137	75 - 125	2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-313380/31

Matrix: Water

Analysis Batch: 313380

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.026	U	0.050	0.026	mg/L			01/28/14 14:27	1

TestAmerica Tampa

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Lab Sample ID: LCS 680-313380/27

Matrix: Water

Analysis Batch: 313380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: 660-58669-H-1 MS

Matrix: Water

Analysis Batch: 313380

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
Ammonia	0.026	J3 U	1.00	0.821	J3	mg/L		82	90 - 110

Lab Sample ID: 660-58669-H-1 MSD

Matrix: Water

Analysis Batch: 313380

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
Ammonia	0.026	J3 U	1.00	0.824	J3	mg/L		82	90 - 110	0	30

Lab Sample ID: 660-58669-H-2 DU

Matrix: Water

Analysis Batch: 313380

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	1.7		1.66		mg/L		0.6	30

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

Lab Sample ID: MB 660-145667/1

Matrix: Water

Analysis Batch: 145667

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			01/29/14 15:26	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			01/29/14 15:26	1

Lab Sample ID: 660-58711-C-6 DU

Matrix: Water

Analysis Batch: 145667

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	240		256		mg/L		8	20

TestAmerica Tampa

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

GC/MS VOA

Analysis Batch: 145584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58713-1	Leachate Effluent	Total/NA	Water	8260B	
660-58722-F-1 MS	Matrix Spike	Total/NA	Water	8260B	
660-58722-F-3 DU	Duplicate	Total/NA	Water	8260B	
LCS 660-145584/4	Lab Control Sample	Total/NA	Water	8260B	
MB 660-145584/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 313499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-9	MW-6	Total/NA	Ground Water	524.2	
660-58713-1	Leachate Effluent	Total/NA	Water	524.2	
LCS 680-313499/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-313499/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 680-313499/9	Method Blank	Total/NA	Water	524.2	

HPLC/IC

Analysis Batch: 313813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58713-1	Leachate Effluent	Total/NA	Water	300.0	
660-58762-D-1 MS	Matrix Spike	Total/NA	Water	300.0	
660-58762-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 680-313813/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-313813/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-313813/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 313816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-L-5 MS	Matrix Spike	Total/NA	Water	300.0	
680-98057-E-21 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 680-313816/38	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-313816/39	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-313816/37	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 313994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-L-1 MS	Matrix Spike	Total/NA	Water	300.0	
660-58669-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-58711-9	MW-6	Total/NA	Ground Water	300.0	
LCS 680-313994/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-313994/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-313994/5	Method Blank	Total/NA	Water	300.0	

Metals

Analysis Batch: 145537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58707-A-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	145538
660-58707-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	145538
660-58713-1	Leachate Effluent	Total Recoverable	Water	6010B	145538
LCS 660-145538/2-A	Lab Control Sample	Total Recoverable	Water	6010B	145538

TestAmerica Tampa

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Metals (Continued)

Analysis Batch: 145537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-145538/1-A	Method Blank	Total Recoverable	Water	6010B	145538

Prep Batch: 145538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58707-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-58707-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-58713-1	Leachate Effluent	Total Recoverable	Water	3005A	
LCS 660-145538/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-145538/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 312897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-46531-F-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
640-46531-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-58711-9	MW-6	Total Recoverable	Ground Water	3005A	
LCS 680-312897/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-312897/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 313361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-46531-F-1-B MS	Matrix Spike	Total Recoverable	Water	6020	312897
640-46531-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	312897
660-58711-9	MW-6	Total Recoverable	Ground Water	6020	312897
LCS 680-312897/2-A	Lab Control Sample	Total Recoverable	Water	6020	312897
MB 680-312897/1-A	Method Blank	Total Recoverable	Water	6020	312897

General Chemistry

Analysis Batch: 145667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-9	MW-6	Total/NA	Ground Water	SM 2540C	
660-58711-C-6 DU	Duplicate	Total/NA	Water	SM 2540C	
660-58713-1	Leachate Effluent	Total/NA	Water	SM 2540C	
MB 660-145667/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 313380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58669-H-1 MS	Matrix Spike	Total/NA	Water	350.1	
660-58669-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-58669-H-2 DU	Duplicate	Total/NA	Water	350.1	
660-58713-1	Leachate Effluent	Total/NA	Water	350.1	
LCS 680-313380/27	Lab Control Sample	Total/NA	Water	350.1	
MB 680-313380/31	Method Blank	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 145658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-58711-9	MW-6	Total/NA	Ground Water	Field Sampling	
660-58713-1	Leachate Effluent	Total/NA	Water	Field Sampling	

TestAmerica Tampa

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Client Sample ID: MW-6

Date Collected: 01/22/14 10:26

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58711-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	313499	01/30/14 21:09	WJC	TAL SAV
Total/NA	Analysis	300.0		10	313994	02/03/14 15:06	PAT	TAL SAV
Total Recoverable	Prep	3005A			312897	01/24/14 13:09	BJB	TAL SAV
Total Recoverable	Analysis	6020		1	313361	01/28/14 11:54	BWR	TAL SAV
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 10:26		TAL TAM

Client Sample ID: Leachate Effluent

Date Collected: 01/22/14 08:50

Date Received: 01/23/14 08:00

Lab Sample ID: 660-58713-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145584	01/24/14 23:46	ECC	TAL TAM
Total/NA	Analysis	524.2		1	313499	01/30/14 16:56	WJC	TAL SAV
Total/NA	Analysis	300.0		20	313813	02/01/14 14:53	PAT	TAL SAV
Total Recoverable	Prep	3005A			145538	01/24/14 08:07	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	145537	01/24/14 15:15	GAF	TAL TAM
Total/NA	Analysis	SM 2540C		1	145667	01/29/14 15:26	TKO	TAL TAM
Total/NA	Analysis	350.1		1	313380	01/28/14 14:17	JME	TAL SAV
Total/NA	Analysis	Field Sampling		1	145658	01/22/14 08:50		TAL TAM

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Method Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Method	Method Description	Protocol	Laboratory
524.2	Total Trihalomethane Calculation	EPA-DW	TAL SAV
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAM
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6010B	Metals (ICP)	SW846	TAL TAM
6020	Metals (ICP/MS)	SW846	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
Field Sampling	Field Sampling	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

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 SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: CDM Smith, Inc.
Project/Site: Citrus County LF Effluent (Jan. 2014)

TestAmerica Job ID: 660-58711-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-14
Florida	NELAP	4	E84282	06-30-14
Georgia	State Program	4	905	06-30-14
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tampa

Certification Summary

Client: CDM Smith, Inc.

TestAmerica Job ID: 660-58711-1

Project/Site: Citrus County LF Effluent (Jan. 2014)

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-13 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tampa

[illegible]

PAGE: 7 of 7

PURGING DATA

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; 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" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

REMARKS:	
CPN-2 15/15 65 ps.	
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Revision Date: February 12, 2009

McCaughey, Becky

From: Victory, Shawn
Sent: Monday, January 27, 2014 8:02 AM
To: McCaughey, Becky
Subject: RE: Color and Sheen field results needed for Leachate Effluent collected 01.22.14, please
No sheen and tan in color

From: McCaughey, Becky [mailto:becky.mccaughey@testamericainc.com]
Sent: Friday, January 24, 2014 10:51 AM
To: Victory, Shawn
Subject: Color and Sheen field results needed for Leachate Effluent collected 01.22.14, please

Hi Shawn,
Do you remember if this Leachate Eff was clear in color? I also need to know if any sheen was present. Client is CDM Smith. Project is Citrus County Landfill Leachate collected 01.22.14. Thank you.

BECKY MCCAUGHEY

TestAmerica Tampa
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 813.885.7427
www.testamericainc.com

Reference: [103679]
Attachments: 1

Field Calibration Logbook

Name: Citrus County Landfill Date: 1-22-14 Instrument #: M-1 / T-3 Make/Model: YSI 586 / Hach 1100

pH:

	pH Buffer	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)	Temp. (°C)
Initial	7.00	130534	1/5	715	7.04	NO	CCV	14.4
	4.00	126018	6/14	717	4.62	+	+	14.4
	10.00							
Post	7.00	130534	1/5	908	7.05	NO	CCV	12.1
	4.00	126018	6/14	910	4.04	+	+	12.3
	10.00							

CONDUCTIVITY STANDARD:

	Conductivity (uS/cm)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	100	430539	5/14	720	103	NO	CCV
	1000						
	10000						
Post	100	430539	5/14	911	104	NO	CCV
	1000						
	10000						

DISSOLVED OXYGEN: (Reference Table FS2200-2)*

Temperature Probe Annual Calibration: Date:

NIST Therm. ID#:

	Temp. (°C)	DO* (mg/L)	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	5.37	12.61	702	5.39/12.57	YES	ICV
Post	16.5	9.97	904	15.5/9.81	NO	CCV

ORP: (Reference Table 6.2 Zobell Solution Values)*

	ORP (milliVolts)*	Lot #	Exp. Date	Time	Temp. (°C)	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	244.5	2305073	2/14	723	13.0	242.2	NO	CCV
Post	244.5	2305073	2/14	917	13.0	242.1	NO	CCV

TURBIDITY:

	Turbidity (NTU)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	6.32	A230	2/14	725	6.47	NO	CCV
	57.9	+	+	+	52.4	+	+
	520				524		
Post	6.32	A230	2/14	918	6.50	NO	CCV
	57.9	+	+	+	52.4	+	+
	520				527		

Acceptance Criteria: 1-10 NTU=10%, 11-40 NTU=8%, 41-100 NTU=6.5%, >100 NTU=5%

Calibrated only in Calibrate Mode

ICV- Initial Calibration Verification (perform only in Run Mode)

CCV- Continuing Calibration Verification (perform only in Run Mode)

Signature: [Signature]

Signature: _____

Date: 1-22-14

Date: _____

Field Calibration Logbook

Name: Citrus County Landfill Date: 1-21-14 Instrument #: 17-217-3 Make/Model: YSI 556 / Hach 210UP

pH:

	pH Buffer	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)	Temp. (°C)
Initial	7.00	130534	1-15	0817	7.00	Y	CCV	14.5
	4.00	126018	9-14	0819	4.01	Y	CCV	14.5
	10.00							
Post	7.00	130534	1/15	1540	7.02	NO	CCV	14.3
	4.00	126018	9/14	1542	4.02	Y	CCV	14.3
	10.00							

CONDUCTIVITY STANDARD:

	Conductivity (uS/cm)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	100	430539	5-14	0825	102	Y	CCV
	1000						
	10000						
Post	100	430539	5/14	1545	103	NO	CCV
	1000						
	10000						

DISSOLVED OXYGEN: (Reference Table FS2200-2)*

Temperature Probe Annual Calibration: Date:

NIST Therm. ID#:

	Temp. (°C)	DO* (mg/L)	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	16.9	9.685	0829	16.7/9.71	Y	CCV
Post	17.3	9.60	1547	17.3/9.74	NO	CCV

ORP: (Reference Table 6.2 Zobell Solution Values)*

	ORP (milliVolts)*	Lot #	Exp. Date	Time	Temp. (°C)	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial								
Post								

TURBIDITY:

	Turbidity (NTU)	Lot #	Exp. Date	Time	Inst. Response	Calibrated (Y/N)	Type (ICV, CCV)
Initial	6.32	A230	2/14	8:33	6.45	NO	CCV
	51.9	g	g	g	52.1	g	g
	520	g	g	g	524	g	g
Post	6.32	A230	12/14	15:50	6.47	NO	CCV
	51.9	g	g	g	524	g	g
	520	g	g	g	524	g	g

Acceptance Criteria: 1-10 NTU=10%, 11-40 NTU=8%, 41-100 NTU=5.5%, >100 NTU=5%

Calibrated only in Calibrate Mode

ICV- Initial Calibration Verification (perform only in Run Mode)

CCV- Continuing Calibration Verification (perform only in Run Mode)

Signature: [Signature]

Signature: _____

Date: 1/21/14

Date: _____

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58711-1

Login Number: 58711

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58711-1

Login Number: 58711

List Source: TestAmerica Savannah

List Number: 1

List Creation: 01/24/14 08:57 AM

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58711-1

Login Number: 58713

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 660-58711-1

Login Number: 58713

List Source: TestAmerica Savannah

List Number: 1

List Creation: 01/24/14 08:57 AM

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

