REPORT OF ANALYSIS

MANATEE COUNTY UTILITIES DEPARTMENT
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FDOHLAB ID: E54560

USEPA LAB CODE: FL00031

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SAMPLE RECEIPT DATE: 11/24/2014

REPORT DATE: 1/11/2015

PROJECT NAME: Lena Road Semi Annual Groundwater Monitoring Report

Data Release Authorization:

The Methods of analysis in this report are in accordance with MCUD Central Laboratory's Quality Assurance Manual and meet all NELAC standards except where noted. Results pertain only to items tested and to the samples specified. This report may not be reproduced, except in full, without the written approval of this laboratory.

Kayse M. Hasiak

Digitally signed by Kayse M. Hasiak
DN: cn=Kayse M. Hasiak, o=Central Laboratory, ou=MCUD, email=kayse.hasiak@mymanatee.org, c=US
Date: 2015.01.12 08:12:01 -05'00'

Sample ID: AE59767 **Collection Date / Time:** 11/24/2014 10:32

Sample Point: Lena Road Monitoring Well BGW-1

Sample Comment:

Analysis Department: ANIONS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	31.0	mg/L		12/16/2014 18:37	0.100	1.00	AC

Analysis Department: CONTRACT

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/26/2014 23:42	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/26/2014 23:42	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/26/2014 23:42	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/26/2014 23:42	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 23:42	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 23:42	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 23:42	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/26/2014 23:42	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/26/2014 23:42	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/26/2014 23:42	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/26/2014 23:42	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/26/2014 23:42	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/26/2014 23:42	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/26/2014 23:42	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/26/2014 23:42	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 23:42	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/26/2014 23:42	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/26/2014 23:42	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab								

1,2-Dibromo-3-chloropropane	EPA 8011	<0.0055	ug/L	U C	12/01/2014	20:13	0.0055	0.022	CONTRACT
Ethylene dibromide	EPA 8011	<0.0055	ug/L	U C	12/01/2014	20:13	0.0055	0.022	CONTRACT
Mercury Contract Lab	EPA7470	<0.10	ug/L	U C	12/11/2014	15:59	0.10	0.50	CONTRACT
Metals Contract By 6010									
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/12/2014	18:15	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014	18:15	10	100	CONTRACT
Iron	EPA6010 ICP	1500	ug/L	C	12/12/2014	18:15	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014	18:15	1.1	20	CONTRACT
Sodium	EPA6010 ICP	21	mg/L	C	12/12/2014	18:15	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	10	ug/L	C	12/12/2014	18:15	7.8	10	CONTRACT
Metals Contract By 6020									
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014	17:18	1.0	50	CONTRACT
Barium	EPA6020 ICP	17	ug/L	C	12/15/2014	15:05	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	15:05	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	<0.35	ug/L	U C	12/15/2014	15:05	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	2.1	ug/L	C	12/15/2014	15:05	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	15:05	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	2.7	ug/L	I C	12/15/2014	15:05	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	1.2	ug/L	I C	12/17/2014	17:18	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	3.8	ug/L	I C	12/16/2014	16:39	0.88	5.0	CONTRACT

Analysis Department: FIELD

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	506	umhos/cm		11/24/2014	10:32	1		DWELLS
Field Dissolved Oxygen	FIELD	0.85	mg/L		11/24/2014	10:32	0.01		DWELLS
Field pH	FIELD	6.1	Std. units		11/24/2014	10:32	0.010		DWELLS
Field Temperature	FIELD	25.2	Degrees C		11/24/2014	10:32	0.01		DWELLS
Field Turbidity	FIELD	3.48	NTU		11/24/2014	10:32	0.02		DWELLS
Static Depth to Water	FIELD	9.4	feet		11/24/2014	10:32			DWELLS

Analysis Department: METALS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.0007	mg/L	I	12/12/2014	12:54	0.0004	0.001	AC
Reagent Blank for Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	12/11/2014	16:35	0.0006	0.002	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	12/11/2014	17:16	0.0006	0.002	AC

Analysis Department: NUTRIENTS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	1.92	mg/L	DF	12/01/2014	13:41	0.044	0.16	AC
Nitrate	Calculation	0.632	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.632	mg/L		12/03/2014	11:31	0.014	0.500	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/25/2014	15:09	0.003	0.005	AMH

Analysis Department: SOLIDS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	337	mg/L		11/24/2014	09:18	10.0	10.0	LW

Sample ID: AE59768 Collection Date / Time: 11/05/2014 09:20

Sample Point: Lena Road Monitoring Well GW-1

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	35.6	mg/L		11/15/2014 06:56	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/10/2014 19:12	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/10/2014 19:12	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/10/2014 19:12	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/10/2014 19:12	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/10/2014 19:12	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/10/2014 19:12	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/10/2014 19:12	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/10/2014 19:12	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/10/2014 19:12	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/10/2014 19:12	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/10/2014 19:12	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/10/2014 19:12	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/10/2014 19:12	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/10/2014 19:12	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/10/2014 19:12	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014 19:12	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/10/2014 19:12	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/10/2014 19:12	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab								
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0052	ug/L	U C	11/06/2014 22:34	0.0052	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0052	ug/L	U C	11/06/2014 22:34	0.0052	0.021	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Field conductivity	FIELD	720	umhos/cm		11/05/2014 09:20	1		DWELLS
Field Dissolved Oxygen	FIELD	1.42	mg/L		11/05/2014 09:20	0.01		DWELLS
Field pH	FIELD	5.8	Std. units		11/05/2014 09:20	0.010		DWELLS

Field Temperature	FIELD	24.5	Degrees C		11/05/2014	09:20	0.01	DWELLS
Field Turbidity	FIELD	5.88	NTU		11/05/2014	09:20	0.02	DWELLS
Static Depth to Water	FIELD	6.2	feet		11/05/2014	09:20		DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.022	mg/L		11/25/2014	15:10	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/07/2014	13:55	0.034	0.100	AC
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/17/2014	13:02	0.0039	0.005	KMH
Barium	EPA 200.7	0.030	mg/L		11/17/2014	13:02	0.0002	0.005	KMH
Beryllium	EPA 200.7	0.00010	mg/L	I	11/17/2014	13:02	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.0010	mg/L	I	11/17/2014	13:02	0.0004	0.005	KMH
Chromium	EPA 200.7	0.00080	mg/L	I	11/17/2014	13:02	0.0007	0.005	KMH
Cobalt	EPA 200.7	0.0011	mg/L	I	11/17/2014	13:02	0.0003	0.005	KMH
Copper	EPA 200.7	<0.0009	mg/L	U	11/17/2014	13:02	0.0009	0.005	KMH
Iron	EPA 200.7	5.33	mg/L		11/17/2014	13:02	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/17/2014	13:02	0.0017	0.005	KMH
Nickel	EPA 200.7	0.0024	mg/L	I,V,J	11/17/2014	13:02	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/17/2014	13:02	0.0046	0.005	KMH
Silver	EPA 200.7	0.0042	mg/L	I	11/17/2014	13:02	0.0007	0.005	KMH
Sodium	EPA 200.7	25.8	mg/L		11/17/2014	13:02	0.016	2.00	KMH
Vanadium	EPA 200.7	0.006	mg/L		11/17/2014	13:02	0.0005	0.005	KMH
Zinc	EPA 200.7	<0.0029	mg/L	U	11/17/2014	13:02	0.0029	0.005	KMH

Analysis Comments: Nickel: V and J Qualifiers: Method and Reagent blank values are greater than MDL and sample value is ten times lower than blanks values.

Reagent Blank for Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	11:53	0.0006	0.002	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	12:33	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	1.28	mg/L		11/12/2014	13:41	0.022	0.080	AMH
Nitrate	Calculation	0.191	mg/L		12/19/2014	12:28	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.191	mg/L		11/24/2014	13:41	0.014	0.050	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/06/2014	12:35	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	637	mg/L		11/05/2014	12:27	10.0	10.0	AMH

Sample ID: **AE59770** **Collection Date / Time:** **11/19/2014** **09:11**

Sample Point: **Lena Road Monitoring Well GW-11**

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	29.5	mg/L		12/03/2014	18:15	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/26/2014 19:31	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/26/2014 19:31	2.0	4.0	CONTRACT
Acetone	EPA 8260	2.0	ug/L	I C	11/26/2014 19:31	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/26/2014 19:31	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 19:31	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 19:31	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 19:31	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/26/2014 19:31	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/26/2014 19:31	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/26/2014 19:31	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/26/2014 19:31	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/26/2014 19:31	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/26/2014 19:31	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/26/2014 19:31	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/26/2014 19:31	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 19:31	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/26/2014 19:31	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/26/2014 19:31	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab								
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	11/25/2014 22:26	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	11/25/2014 22:26	0.0053	0.021	CONTRACT
Metals Contract By 6010								
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/12/2014 17:31	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014 17:31	10	100	CONTRACT
Iron	EPA6010 ICP	1200	ug/L	C	12/12/2014 17:31	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014 17:31	1.1	20	CONTRACT
Sodium	EPA6010 ICP	32	mg/L	C	12/12/2014 17:31	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	13	ug/L	C	12/12/2014 17:31	7.8	10	CONTRACT
Metals Contract By 6020								
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014 16:49	1.0	50	CONTRACT
Barium	EPA6020 ICP	12	ug/L	C	12/15/2014 14:05	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014 14:05	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	1.4	ug/L	I C	12/15/2014 14:05	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	0.88	ug/L	C	12/15/2014 14:05	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	0.38	ug/L	I C	12/15/2014 14:05	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	3.5	ug/L	I C	12/15/2014 14:05	0.46	5.0	CONTRACT

Selenium	EPA6020 ICP	<0.93	ug/L	U C	12/17/2014	16:49	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	1.3	ug/L	I C	12/16/2014	16:07	0.88	5.0	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	662	umhos/cm		11/19/2014	09:11	1		DWELLS
Field Dissolved Oxygen	FIELD	1.04	mg/L		11/19/2014	09:11	0.01		DWELLS
Field pH	FIELD	5.5	Std. units		11/19/2014	09:11	0.010		DWELLS
Field Temperature	FIELD	23.8	Degrees C		11/19/2014	09:11	0.01		DWELLS
Field Turbidity	FIELD	5.98	NTU		11/19/2014	09:11	0.02		DWELLS
Static Depth to Water	FIELD	7.2	feet		11/19/2014	09:11			DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.005	mg/L	J	11/25/2014	16:57	0.0004	0.001	AC

Analysis Comments: J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.

Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/30/2014	11:07	0.034	0.100	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	15:54	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	0.823	mg/L		12/01/2014	13:41	0.022	0.080	AC
Nitrate	Calculation	0.328	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.328	mg/L	DF	12/05/2014	12:32	0.028	0.10	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/19/2014	15:52	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	448	mg/L		11/20/2014	11:27	10.0	10.0	LW

Sample ID: AE59771 Collection Date / Time: 11/19/2014 09:51

Sample Point: Lena Road Monitoring Well GW-12

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	3.61	mg/L		12/03/2014	20:30	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab									
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT

1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/26/2014	20:34	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/26/2014	20:34	2.0	4.0	CONTRACT
Acetone	EPA 8260	2.4	ug/L	I C	11/26/2014	20:34	2.4	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/26/2014	20:34	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	20:34	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	20:34	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	20:34	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/26/2014	20:34	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/26/2014	20:34	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/26/2014	20:34	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/26/2014	20:34	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/26/2014	20:34	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/26/2014	20:34	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/26/2014	20:34	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/26/2014	20:34	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	20:34	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/26/2014	20:34	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/26/2014	20:34	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	11/25/2014	22:48	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	11/25/2014	22:48	0.0053	0.021	CONTRACT
Metals Contract By 6010									
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/15/2014	11:36	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014	17:34	10	100	CONTRACT
Iron	EPA6010 ICP	640	ug/L	C	12/12/2014	17:34	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014	17:34	1.1	20	CONTRACT
Sodium	EPA6010 ICP	4.9	mg/L	C	12/12/2014	17:34	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	26	ug/L	C	12/12/2014	17:34	7.8	10	CONTRACT
Metals Contract By 6020									
Antimony	EPA6020 ICP	2.7	ug/L	I C	12/17/2014	16:51	1.0	50	CONTRACT
Barium	EPA6020 ICP	35	ug/L	C	12/15/2014	14:10	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	14:10	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	0.62	ug/L	I C	12/15/2014	14:10	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	3.4	ug/L	C	12/15/2014	14:10	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	14:10	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	6.5	ug/L	C	12/15/2014	14:10	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	17	ug/L	C	12/17/2014	16:51	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	2.8	ug/L	I C	12/16/2014	16:12	0.88	5.0	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	795	umhos/cm		11/19/2014	09:51	1		DWELLS
Field Dissolved Oxygen	FIELD	1.67	mg/L		11/19/2014	09:51	0.01		DWELLS
Field pH	FIELD	5.6	Std. units		11/19/2014	09:51	0.010		DWELLS

Field Temperature	FIELD	24.2	Degrees C		11/19/2014	09:51	0.01	DWELLS
Field Turbidity	FIELD	2.46	NTU		11/19/2014	09:51	0.02	DWELLS
Static Depth to Water	FIELD	11.2	feet		11/19/2014	09:51		DWELLS

Analysis Department: METALS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.001	mg/L		11/25/2014	17:29	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/30/2014	11:09	0.034	0.100	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	16:04	0.0006	0.002	AC

Analysis Department: NUTRIENTS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	0.298	mg/L		12/01/2014	13:41	0.022	0.080	AC
Nitrate	Calculation	6.62	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	6.80	mg/L	DF	12/03/2014	12:30	0.028	1.00	AMH
Nitrite	SM 4500-NO2 B	0.184	mg/L		11/19/2014	15:53	0.003	0.005	AMH

Analysis Department: SOLIDS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	514	mg/L		11/20/2014	11:27	10.0	10.0	LW

Sample ID: AE59772 Collection Date / Time: 11/20/2014 10:39

Sample Point: Lena Road Monitoring Well GW-13

Sample Comment:

Analysis Department: ANIONS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	16.9	mg/L		12/16/2014	19:22	0.100	1.00	AC

Analysis Department: CONTRACT

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab									
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/25/2014	19:00	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/25/2014	19:00	2.0	4.0	CONTRACT
Acetone	EPA 8260	2.6	ug/L	I C	11/25/2014	19:00	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/25/2014	19:00	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT

Bromoform	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/25/2014	19:00	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/25/2014	19:00	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/25/2014	19:00	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/25/2014	19:00	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/25/2014	19:00	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/25/2014	19:00	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/25/2014	19:00	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/25/2014	19:00	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/25/2014	19:00	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/25/2014	19:00	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/25/2014	19:00	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	19:00	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/25/2014	19:00	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/25/2014	19:00	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	11/25/2014	03:15	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	11/25/2014	03:15	0.0053	0.021	CONTRACT
Metals Contract By 6010									
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/15/2014	11:39	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014	17:38	10	100	CONTRACT
Iron	EPA6010 ICP	1400	ug/L	C	12/12/2014	17:38	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014	17:38	1.1	20	CONTRACT
Sodium	EPA6010 ICP	19	mg/L	C	12/12/2014	17:38	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	30	ug/L	C	12/12/2014	17:38	7.8	10	CONTRACT
Metals Contract By 6020									
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014	17:04	1.0	50	CONTRACT
Barium	EPA6020 ICP	28	ug/L	C	12/15/2014	14:14	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	14:14	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	0.76	ug/L	I C	12/15/2014	14:14	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	4.6	ug/L	C	12/15/2014	14:14	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	14:14	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	7.2	ug/L	C	12/15/2014	14:14	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	5	ug/L	C	12/17/2014	17:04	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	4.3	ug/L	I C	12/16/2014	16:17	0.88	5.0	CONTRACT

Analysis Department: FIELD

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	1120	umhos/cm		11/20/2014	10:39	1		DWELLS
Field Dissolved Oxygen	FIELD	2.01	mg/L		11/20/2014	10:39	0.01		DWELLS
Field pH	FIELD	6.0	Std. units		11/20/2014	10:39	0.010		DWELLS
Field Temperature	FIELD	24.4	Degrees C		11/20/2014	10:39	0.01		DWELLS
Field Turbidity	FIELD	3.10	NTU		11/20/2014	10:39	0.02		DWELLS
Static Depth to Water	FIELD	10.6	feet		11/20/2014	10:39			DWELLS

Analysis Department: METALS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.002	mg/L		11/25/2014	17:50	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/30/2014	11:19	0.034	0.100	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	16:34	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	3.18	mg/L	DF	12/01/2014	13:41	0.11	0.40	AC
Nitrate	Calculation	5.97	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	5.97	mg/L	DF,J	12/11/2014	10:41	0.14	0.50	AC
Analysis Comments:	J Qualifier: method of standard addition technique performed for sample value determination due to matrix interference.								
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/21/2014	10:43	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	734	mg/L		11/24/2014	09:18	10.0	10.0	LW

Sample ID: **AE59773** **Collection Date / Time:** **11/20/2014** **10:01**

Sample Point: **Lena Road Monitoring Well GW-14**

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	10.4	mg/L		12/16/2014	20:06	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab									
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/26/2014	15:51	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/26/2014	15:51	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/26/2014	15:51	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/26/2014	15:51	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	15:51	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	15:51	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	15:51	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/26/2014	15:51	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT

Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/26/2014	15:51	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/26/2014	15:51	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/26/2014	15:51	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/26/2014	15:51	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/26/2014	15:51	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/26/2014	15:51	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/26/2014	15:51	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	15:51	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/26/2014	15:51	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/26/2014	15:51	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0052	ug/L	U C	11/25/2014	03:36	0.0052	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0052	ug/L	U C	11/25/2014	03:36	0.0052	0.021	CONTRACT
Metals Contract By 6010									
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/12/2014	17:41	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014	17:41	10	100	CONTRACT
Iron	EPA6010 ICP	1400	ug/L	C	12/12/2014	17:41	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014	17:41	1.1	20	CONTRACT
Sodium	EPA6010 ICP	13	mg/L	C	12/12/2014	17:41	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	11	ug/L	C	12/12/2014	17:41	7.8	10	CONTRACT
Metals Contract By 6020									
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014	17:07	1.0	50	CONTRACT
Barium	EPA6020 ICP	34	ug/L	C	12/15/2014	14:19	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	14:19	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	<0.35	ug/L	U C	12/15/2014	14:19	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	7.2	ug/L	C	12/15/2014	14:19	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	14:19	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	10	ug/L	C	12/15/2014	14:19	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	1.6	ug/L	I C	12/17/2014	17:07	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	5.5	ug/L	C	12/16/2014	16:21	0.88	5.0	CONTRACT

Analysis Department: FIELD

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	1180	umhos/cm		11/20/2014	10:01	1		DWELLS
Field Dissolved Oxygen	FIELD	1.75	mg/L		11/20/2014	10:01	0.01		DWELLS
Field pH	FIELD	5.6	Std. units		11/20/2014	10:01	0.010		DWELLS
Field Temperature	FIELD	22.1	Degrees C		11/20/2014	10:01	0.01		DWELLS
Field Turbidity	FIELD	7.14	NTU		11/20/2014	10:01	0.02		DWELLS
Static Depth to Water	FIELD	6.9	feet		11/20/2014	10:01			DWELLS

Analysis Department: METALS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.002	mg/L		11/25/2014	18:01	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/30/2014	11:25	0.034	0.100	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	16:44	0.0006	0.002	AC

Analysis Department: NUTRIENTS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	0.554	mg/L		12/01/2014	13:41	0.022	0.080	AC
Nitrate	Calculation	0.273	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.273	mg/L	DF,J	12/08/2014	15:12	0.028	0.10	AMH

Analysis Comments: J Qualifier: Method of Standard Addition technique performed for sample value determination due to matrix interference.

Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/21/2014	10:43	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	1090	mg/L		11/24/2014	09:18	10.0	10.0	LW

Sample ID: **AE59774** **Collection Date / Time:** **11/20/2014** **09:24**

Sample Point: **Lena Road Monitoring Well GW-15**

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	57.9	mg/L		12/16/2014	20:51	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab									
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/26/2014	17:25	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/26/2014	17:25	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/26/2014	17:25	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/26/2014	17:25	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	17:25	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	17:25	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	17:25	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/26/2014	17:25	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/26/2014	17:25	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/26/2014	17:25	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/26/2014	17:25	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/26/2014	17:25	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/26/2014	17:25	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT

trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/26/2014	17:25	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/26/2014	17:25	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	17:25	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/26/2014	17:25	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/26/2014	17:25	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	11/25/2014	03:58	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	11/25/2014	03:58	0.0053	0.021	CONTRACT
Metals Contract By 6010									
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/12/2014	17:47	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014	17:47	10	100	CONTRACT
Iron	EPA6010 ICP	19000	ug/L	C	12/12/2014	17:47	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014	17:47	1.1	20	CONTRACT
Sodium	EPA6010 ICP	40	mg/L	C	12/12/2014	17:47	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	33	ug/L	C	12/12/2014	17:47	7.8	10	CONTRACT
Metals Contract By 6020									
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014	17:10	1.0	50	CONTRACT
Barium	EPA6020 ICP	56	ug/L	C	12/15/2014	14:42	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	14:42	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	3.9	ug/L	I C	12/15/2014	14:42	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	2.7	ug/L	C	12/15/2014	14:42	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	14:42	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	2.9	ug/L	I C	12/15/2014	14:42	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	1.1	ug/L	I C	12/17/2014	17:10	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	3.3	ug/L	I C	12/16/2014	16:26	0.88	5.0	CONTRACT

Analysis Department: FIELD

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	704	umhos/cm		11/20/2014	09:24	1		DWELLS
Field Dissolved Oxygen	FIELD	1.62	mg/L		11/20/2014	09:24	0.01		DWELLS
Field pH	FIELD	5.2	Std. units		11/20/2014	09:24	0.010		DWELLS
Field Temperature	FIELD	23.6	Degrees C		11/20/2014	09:24	0.01		DWELLS
Field Turbidity	FIELD	6.72	NTU		11/20/2014	09:24	0.02		DWELLS
Static Depth to Water	FIELD	7.4	feet		11/20/2014	09:24			DWELLS

Analysis Department: METALS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.014	mg/L		11/25/2014	18:11	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/30/2014	11:27	0.034	0.100	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	16:54	0.0006	0.002	AC

Analysis Department: NUTRIENTS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	1.22	mg/L		12/01/2014	13:41	0.022	0.080	AC
Nitrate	Calculation	0.122	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.122	mg/L	J	12/05/2014	12:32	0.014	0.050	AMH
Analysis Comments:	J Qualifier:Method of Standard Addition technique used for sample value determination due to matrix interference.								
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/21/2014	10:43	0.003	0.005	AMH

Analysis Department: SOLIDS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	475	mg/L		11/24/2014	09:18	10.0	10.0	LW

Sample ID: AE59775 **Collection Date / Time:** 11/24/2014 09:16

Sample Point: Lena Road Monitoring Well GW-16

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	87.2	mg/L		12/16/2014 21:36	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/26/2014 21:37	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/26/2014 21:37	2.0	4.0	CONTRACT
Acetone	EPA 8260	2.1	ug/L	I C	11/26/2014 21:37	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/26/2014 21:37	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 21:37	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 21:37	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 21:37	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/26/2014 21:37	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/26/2014 21:37	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/26/2014 21:37	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/26/2014 21:37	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/26/2014 21:37	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/26/2014 21:37	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/26/2014 21:37	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/26/2014 21:37	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 21:37	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/26/2014 21:37	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/26/2014 21:37	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab								
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0054	ug/L	U C	12/01/2014 19:29	0.0054	0.022	CONTRACT
Ethylene dibromide	EPA 8011	<0.0054	ug/L	U C	12/01/2014 19:29	0.0054	0.022	CONTRACT

Mercury Contract Lab	EPA7470	<0.10	ug/L	U C	12/11/2014	15:56	0.10	0.50	CONTRACT
Metals Contract By 6010									
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/12/2014	17:57	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014	17:57	10	100	CONTRACT
Iron	EPA6010 ICP	280	ug/L	C	12/12/2014	17:57	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014	17:57	1.1	20	CONTRACT
Sodium	EPA6010 ICP	70	mg/L	C	12/12/2014	17:57	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	11	ug/L	C	12/12/2014	17:57	7.8	10	CONTRACT
Metals Contract By 6020									
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014	17:13	1.0	50	CONTRACT
Barium	EPA6020 ICP	23	ug/L	C	12/15/2014	14:46	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	14:46	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	0.81	ug/L	I C	12/15/2014	14:46	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	0.75	ug/L	C	12/15/2014	14:46	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	14:46	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	2.9	ug/L	I C	12/15/2014	14:46	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	0.96	ug/L	I C	12/17/2014	17:13	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	2.1	ug/L	I C	12/16/2014	16:30	0.88	5.0	CONTRACT

Analysis Department: FIELD

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	646	umhos/cm		11/24/2014	09:16	1		DWELLS
Field Dissolved Oxygen	FIELD	0.93	mg/L		11/24/2014	09:16	0.01		DWELLS
Field pH	FIELD	5.9	Std. units		11/24/2014	09:16	0.010		DWELLS
Field Temperature	FIELD	24.4	Degrees C		11/24/2014	09:16	0.01		DWELLS
Field Turbidity	FIELD	4.38	NTU		11/24/2014	09:16	0.02		DWELLS
Static Depth to Water	FIELD	9.6	feet		11/24/2014	09:16			DWELLS

Analysis Department: METALS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.004	mg/L		12/12/2014	13:05	0.0004	0.001	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	12/11/2014	17:46	0.0006	0.002	AC

Analysis Department: NUTRIENTS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	0.918	mg/L		12/01/2014	13:41	0.022	0.080	AC
Nitrate	Calculation	0.447	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.447	mg/L		12/11/2014	10:57	0.014	0.050	AC
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/25/2014	15:09	0.003	0.005	AMH

Analysis Department: SOLIDS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	391	mg/L		11/24/2014	09:18	10.0	10.0	LW

Sample ID: AE59776 Collection Date / Time: 11/24/2014 09:51

Sample Point: Lena Road Monitoring Well GW-17

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	3.76	mg/L		12/16/2014 22:20	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/26/2014 22:40	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/26/2014 22:40	2.0	4.0	CONTRACT
Acetone	EPA 8260	2.4	ug/L	I C	11/26/2014 22:40	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/26/2014 22:40	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 22:40	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 22:40	0.4	1.6	CONTRACT
Chloroform	EPA 8260	0.3	ug/L	I C	11/26/2014 22:40	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/26/2014 22:40	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/26/2014 22:40	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/26/2014 22:40	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/26/2014 22:40	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/26/2014 22:40	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/26/2014 22:40	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/26/2014 22:40	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/26/2014 22:40	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/26/2014 22:40	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014 22:40	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/26/2014 22:40	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/26/2014 22:40	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab								
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	12/01/2014 19:51	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	12/01/2014 19:51	0.0053	0.021	CONTRACT
Mercury Contract Lab	EPA7470	<0.10	ug/L	U C	12/11/2014 15:57	0.10	0.50	CONTRACT
Metals Contract By 6010								
Beryllium	EPA6010 ICP	0.25	ug/L	I C	12/15/2014 11:42	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014 18:12	10	100	CONTRACT
Iron	EPA6010 ICP	7400	ug/L	C	12/12/2014 18:12	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014 18:12	1.1	20	CONTRACT
Sodium	EPA6010 ICP	3.6	mg/L	C	12/12/2014 18:12	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	29	ug/L	C	12/12/2014 18:12	7.8	10	CONTRACT

Metals Contract By 6020

Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014	17:16	1.0	50	CONTRACT
Barium	EPA6020 ICP	6	ug/L	C	12/15/2014	15:00	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	15:00	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	6.2	ug/L	C	12/15/2014	15:00	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	2.4	ug/L	C	12/15/2014	15:00	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	0.27	ug/L	I C	12/15/2014	15:00	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	2.3	ug/L	I C	12/15/2014	15:00	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	1.8	ug/L	I C	12/17/2014	17:16	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	3.6	ug/L	I C	12/16/2014	16:35	0.88	5.0	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	465	umhos/cm		11/24/2014	09:51	1		DWELLS
Field Dissolved Oxygen	FIELD	0.75	mg/L		11/24/2014	09:51	0.01		DWELLS
Field pH	FIELD	6.0	Std. units		11/24/2014	09:51	0.010		DWELLS
Field Temperature	FIELD	24.8	Degrees C		11/24/2014	09:51	0.01		DWELLS
Field Turbidity	FIELD	4.46	NTU		11/24/2014	09:51	0.02		DWELLS
Static Depth to Water	FIELD	8.0	feet		11/24/2014	09:51			DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.001	mg/L		12/12/2014	13:16	0.0004	0.001	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	12/11/2014	17:56	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	1.32	mg/L		12/01/2014	13:52	0.022	0.080	AC
Nitrate	Calculation	0.700	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.700	mg/L	DF	12/11/2014	11:05	0.028	0.10	AC
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/25/2014	15:09	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	152	mg/L		11/24/2014	09:18	10.0	10.0	LW

Sample ID: **AE59777** **Collection Date / Time:** **11/05/2014** **09:53**

Sample Point: **Lena Road Monitoring Well GW-2**

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	36.4	mg/L		11/15/2014	07:41	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst

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1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/10/2014	20:15	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/10/2014	20:15	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/10/2014	20:15	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/10/2014	20:15	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/10/2014	20:15	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/10/2014	20:15	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/10/2014	20:15	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/10/2014	20:15	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/10/2014	20:15	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/10/2014	20:15	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/10/2014	20:15	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/10/2014	20:15	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/10/2014	20:15	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/10/2014	20:15	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/10/2014	20:15	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	20:15	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/10/2014	20:15	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/10/2014	20:15	0.3	1.6	CONTRACT

258 Pesticides -Contract Lab

1,2-Dibromo-3-chloropropane	EPA 8011	<0.0052	ug/L	U C	11/06/2014	22:12	0.0052	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0052	ug/L	U C	11/06/2014	22:12	0.0052	0.021	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	755	umhos/cm		11/05/2014	09:53	1		DWELLS
Field Dissolved Oxygen	FIELD	1.37	mg/L		11/05/2014	09:53	0.01		DWELLS
Field pH	FIELD	5.4	Std. units		11/05/2014	09:53	0.010		DWELLS
Field Temperature	FIELD	25.2	Degrees C		11/05/2014	09:53	0.01		DWELLS
Field Turbidity	FIELD	6.88	NTU		11/05/2014	09:53	0.02		DWELLS
Static Depth to Water	FIELD	8.3	feet		11/05/2014	09:53			DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.020	mg/L		11/25/2014	15:21	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/07/2014	13:57	0.034	0.100	AC

Metals by 200.7

Antimony	EPA 200.7	<0.0039	mg/L	U	11/17/2014	13:06	0.0039	0.005	KMH
Barium	EPA 200.7	0.036	mg/L		11/17/2014	13:06	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/17/2014	13:06	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.00080	mg/L	I	11/17/2014	13:06	0.0004	0.005	KMH
Chromium	EPA 200.7	0.0012	mg/L	I	11/17/2014	13:06	0.0007	0.005	KMH
Cobalt	EPA 200.7	0.00030	mg/L	I	11/17/2014	13:06	0.0003	0.005	KMH
Copper	EPA 200.7	<0.0009	mg/L	U	11/17/2014	13:06	0.0009	0.005	KMH
Iron	EPA 200.7	7.12	mg/L		11/17/2014	13:06	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/17/2014	13:06	0.0017	0.005	KMH
Nickel	EPA 200.7	0.0022	mg/L	I,V	11/17/2014	13:06	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/17/2014	13:06	0.0046	0.005	KMH
Silver	EPA 200.7	0.0040	mg/L	I	11/17/2014	13:06	0.0007	0.005	KMH
Sodium	EPA 200.7	34.4	mg/L		11/17/2014	13:06	0.016	2.00	KMH
Vanadium	EPA 200.7	0.0044	mg/L	I	11/17/2014	13:06	0.0005	0.005	KMH
Zinc	EPA 200.7	<0.0029	mg/L	U	11/17/2014	13:06	0.0029	0.005	KMH

Analysis Comments: Nickel: V s: Method blank value is greater than MDL and sample value is ten times lower than blank value.

Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	13:04	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	1.91	mg/L		11/12/2014	13:52	0.022	0.080	AMH
Nitrate	Calculation	0.132	mg/L		12/19/2014	12:28	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.132	mg/L		11/24/2014	13:33	0.014	0.050	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/06/2014	12:35	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	716	mg/L		11/05/2014	12:27	10.0	10.0	AMH

Sample ID: AE59778 Collection Date / Time: 11/05/2014 10:28

Sample Point: Lena Road Monitoring Well GW-3

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	17.8	mg/L		11/15/2014	08:26	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab									
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/10/2014	21:18	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/10/2014	21:18	2.0	4.0	CONTRACT

Acetone	EPA 8260	<2.0	ug/L	U C	11/10/2014	21:18	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/10/2014	21:18	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/10/2014	21:18	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/10/2014	21:18	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/10/2014	21:18	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/10/2014	21:18	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/10/2014	21:18	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/10/2014	21:18	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/10/2014	21:18	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/10/2014	21:18	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/10/2014	21:18	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/10/2014	21:18	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/10/2014	21:18	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/10/2014	21:18	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/10/2014	21:18	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/10/2014	21:18	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	11/06/2014	22:56	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	11/06/2014	22:56	0.0053	0.021	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	490	umhos/cm		11/05/2014	10:28	1		DWELLS
Field Dissolved Oxygen	FIELD	0.93	mg/L		11/05/2014	10:28	0.01		DWELLS
Field pH	FIELD	5.2	Std. units		11/05/2014	10:28	0.010		DWELLS
Field Temperature	FIELD	25.6	Degrees C		11/05/2014	10:28	0.01		DWELLS
Field Turbidity	FIELD	4.31	NTU		11/05/2014	10:28	0.02		DWELLS
Static Depth to Water	FIELD	6.6	feet		11/05/2014	10:28			DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.004	mg/L		11/25/2014	15:31	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/07/2014	13:59	0.034	0.100	AC
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/17/2014	13:10	0.0039	0.005	KMH
Barium	EPA 200.7	0.016	mg/L		11/17/2014	13:10	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/17/2014	13:10	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.00080	mg/L	I	11/17/2014	13:10	0.0004	0.005	KMH
Chromium	EPA 200.7	0.0016	mg/L	I	11/17/2014	13:10	0.0007	0.005	KMH
Cobalt	EPA 200.7	<0.0003	mg/L	U	11/17/2014	13:10	0.0003	0.005	KMH
Copper	EPA 200.7	0.0016	mg/L	I	11/17/2014	13:10	0.0009	0.005	KMH
Iron	EPA 200.7	1.83	mg/L		11/17/2014	13:10	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/17/2014	13:10	0.0017	0.005	KMH
Nickel	EPA 200.7	0.0011	mg/L	I,J,V	11/17/2014	13:10	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/17/2014	13:10	0.0046	0.005	KMH
Silver	EPA 200.7	0.0033	mg/L	I	11/17/2014	13:10	0.0007	0.005	KMH
Sodium	EPA 200.7	13.5	mg/L		11/17/2014	13:10	0.016	2.00	KMH

Vanadium	EPA 200.7	0.009	mg/L		11/17/2014	13:10	0.0005	0.005	KMH
Zinc	EPA 200.7	0.0039	mg/L	I	11/17/2014	13:10	0.0029	0.005	KMH

Analysis Comments: Nickel: V and J Qualifiers: Method and Reagent blank values are greater than MDL and sample value is ten times lower than blanks values.

Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	13:14	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	0.483	mg/L		11/12/2014	13:52	0.022	0.080	AMH
Nitrate	Calculation	0.996	mg/L		12/19/2014	12:28	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.996	mg/L		11/05/2014	15:26	0.014	0.500	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/06/2014	12:35	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	479	mg/L		11/05/2014	12:27	10.0	10.0	AMH

Sample ID: AE59779 Collection Date / Time: 11/06/2014 08:49

Sample Point: Lena Road Monitoring Well GW-4

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	10.4	mg/L		11/15/2014	09:10	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab									
1,1,1,2-Tetrachloroethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	2.0	4.0	CONTRACT
Acetone	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	1.3	4.0	CONTRACT
Benzene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Bromoform	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.4	1.6	CONTRACT
Chloroform	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT

Chloromethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	2.6	4.0	CONTRACT
Styrene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
Toluene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	NO RESULT	ug/L	O	11/26/2014	18:28	0.3	1.6	CONTRACT

Analysis Comments: O: Contract lab had instrument issues and ran out of sample for analysis. Sample will be recollected at a later date.

258 Pesticides -Contract Lab

1,2-Dibromo-3-chloropropane	EPA 8011	NO RESULT	ug/L	O	11/25/2014	22:04	0.0052	0.021	CONTRACT
Ethylene dibromide	EPA 8011	NO RESULT	ug/L	O	11/25/2014	22:04	0.0052	0.021	CONTRACT

Analysis Comments: O: Contract lab had instrument issues and ran out of sample for analysis. Sample will be recollected at a later date.

Analysis Department: FIELD

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	381	umhos/cm		11/06/2014	08:49	1		DWELLS
Field Dissolved Oxygen	FIELD	1.38	mg/L		11/06/2014	08:49	0.01		DWELLS
Field pH	FIELD	5.5	Std. units		11/06/2014	08:49	0.010		DWELLS
Field Temperature	FIELD	25.1	Degrees C		11/06/2014	08:49	0.01		DWELLS
Field Turbidity	FIELD	5.88	NTU		11/06/2014	08:49	0.02		DWELLS
Static Depth to Water	FIELD	8.6	feet		11/06/2014	08:49			DWELLS

Analysis Department: METALS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.002	mg/L		11/25/2014	14:38	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/07/2014	14:01	0.034	0.100	AC
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/17/2014	13:14	0.0039	0.005	KMH
Barium	EPA 200.7	0.012	mg/L		11/17/2014	13:14	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/17/2014	13:14	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.00060	mg/L	I	11/17/2014	13:14	0.0004	0.005	KMH
Chromium	EPA 200.7	0.0023	mg/L	I	11/17/2014	13:14	0.0007	0.005	KMH
Cobalt	EPA 200.7	<0.0003	mg/L	U	11/17/2014	13:14	0.0003	0.005	KMH
Copper	EPA 200.7	0.0013	mg/L	I	11/17/2014	13:14	0.0009	0.005	KMH
Iron	EPA 200.7	0.504	mg/L		11/17/2014	13:14	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/17/2014	13:14	0.0017	0.005	KMH
Nickel	EPA 200.7	0.0010	mg/L	I,J,V	11/17/2014	13:14	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/17/2014	13:14	0.0046	0.005	KMH
Silver	EPA 200.7	0.0015	mg/L	I	11/17/2014	13:14	0.0007	0.005	KMH
Sodium	EPA 200.7	4.47	mg/L		11/17/2014	13:14	0.016	2.00	KMH
Vanadium	EPA 200.7	0.014	mg/L		11/17/2014	13:14	0.0005	0.005	KMH
Zinc	EPA 200.7	<0.0029	mg/L	U	11/17/2014	13:14	0.0029	0.005	KMH

Analysis Comments: Nickel: V and J Qualifiers: Method and Reagent blank values are greater than MDL and sample value is ten times lower than blanks values.

Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	13:23	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Ammonia	EPA 350.1	0.968	mg/L		11/12/2014 13:31	0.022	0.080	AMH
Nitrate	Calculation	0.090	mg/L		12/19/2014 12:28	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.090	mg/L		11/24/2014 13:41	0.014	0.050	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/06/2014 12:35	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	235	mg/L		11/10/2014 07:25	10.0	10.0	LW

Sample ID: **AE59780** **Collection Date / Time:** **11/06/2014 09:25**

Sample Point: **Lena Road Monitoring Well GW-5**

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	25.3	mg/L		11/15/2014 09:55	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/13/2014 19:27	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/13/2014 19:27	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/13/2014 19:27	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/13/2014 19:27	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/13/2014 19:27	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/13/2014 19:27	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/13/2014 19:27	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/13/2014 19:27	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/13/2014 19:27	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/13/2014 19:27	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/13/2014 19:27	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/13/2014 19:27	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/13/2014 19:27	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/13/2014 19:27	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 19:27	0.2	0.8	CONTRACT

Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/13/2014	19:27	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/13/2014	19:27	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/13/2014	19:27	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/13/2014	19:27	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/13/2014	19:27	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/13/2014	19:27	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/13/2014	19:27	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/13/2014	19:27	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/13/2014	19:27	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/13/2014	19:27	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/13/2014	19:27	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/13/2014	19:27	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/13/2014	19:27	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/13/2014	19:27	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/13/2014	19:27	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0052	ug/L	U C	11/19/2014	22:36	0.0052	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0052	ug/L	U C	11/19/2014	22:36	0.0052	0.021	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	651	umhos/cm		11/06/2014	09:25	1		DWELLS
Field Dissolved Oxygen	FIELD	0.91	mg/L		11/06/2014	09:25	0.01		DWELLS
Field pH	FIELD	5.4	Std. units		11/06/2014	09:25	0.010		DWELLS
Field Temperature	FIELD	26.3	Degrees C		11/06/2014	09:25	0.01		DWELLS
Field Turbidity	FIELD	3.74	NTU		11/06/2014	09:25	0.02		DWELLS
Static Depth to Water	FIELD	8.8	feet		11/06/2014	09:25			DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.001	mg/L		11/25/2014	14:49	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/07/2014	13:49	0.034	0.100	AC
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/17/2014	13:18	0.0039	0.005	KMH
Barium	EPA 200.7	0.018	mg/L		11/17/2014	13:18	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/17/2014	13:18	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.00080	mg/L	I	11/17/2014	13:18	0.0004	0.005	KMH
Chromium	EPA 200.7	0.0017	mg/L	I	11/17/2014	13:18	0.0007	0.005	KMH
Cobalt	EPA 200.7	0.00070	mg/L	I	11/17/2014	13:18	0.0003	0.005	KMH
Copper	EPA 200.7	0.00090	mg/L	I	11/17/2014	13:18	0.0009	0.005	KMH
Iron	EPA 200.7	2.72	mg/L		11/17/2014	13:18	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/17/2014	13:18	0.0017	0.005	KMH
Nickel	EPA 200.7	0.0015	mg/L	I,J,V	11/17/2014	13:18	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/17/2014	13:18	0.0046	0.005	KMH
Silver	EPA 200.7	0.0021	mg/L	I	11/17/2014	13:18	0.0007	0.005	KMH
Sodium	EPA 200.7	15.2	mg/L		11/17/2014	13:18	0.016	2.00	KMH
Vanadium	EPA 200.7	0.010	mg/L		11/17/2014	13:18	0.0005	0.005	KMH
Zinc	EPA 200.7	<0.0029	mg/L	U	11/17/2014	13:18	0.0029	0.005	KMH

Analysis Comments: Nickel: V and J Qualifiers: Method and Reagent blank values are greater than MDL and sample value is ten times lower than blanks values.

Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	13:34	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	1.45	mg/L	DF	11/12/2014	13:31	0.044	0.16	AMH
Nitrate	Calculation	0.179	mg/L		12/19/2014	12:28	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.179	mg/L		11/24/2014	13:41	0.014	0.050	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/06/2014	12:35	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	498	mg/L		11/10/2014 07:25	10.0	10.0	LW

Sample ID: **AE59781** **Collection Date / Time:** **11/06/2014 10:02**

Sample Point: **Lena Road Monitoring Well GW-6**

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	4.86	mg/L		11/15/2014 10:40	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/13/2014 20:29	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/13/2014 20:29	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/13/2014 20:29	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/13/2014 20:29	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/13/2014 20:29	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/13/2014 20:29	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/13/2014 20:29	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/13/2014 20:29	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/13/2014 20:29	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/13/2014 20:29	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/13/2014 20:29	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/13/2014 20:29	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/13/2014 20:29	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/13/2014 20:29	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/13/2014 20:29	0.1	0.8	CONTRACT

trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/13/2014	20:29	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/13/2014	20:29	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/13/2014	20:29	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/13/2014	20:29	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/13/2014	20:29	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0054	ug/L	U C	11/19/2014	22:58	0.0054	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0054	ug/L	U C	11/19/2014	22:58	0.0054	0.021	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	721	umhos/cm		11/06/2014	10:02	1		DWELLS
Field Dissolved Oxygen	FIELD	0.92	mg/L		11/06/2014	10:02	0.01		DWELLS
Field pH	FIELD	5.6	Std. units		11/06/2014	10:02	0.010		DWELLS
Field Temperature	FIELD	25.8	Degrees C		11/06/2014	10:02	0.01		DWELLS
Field Turbidity	FIELD	3.50	NTU		11/06/2014	10:02	0.02		DWELLS
Static Depth to Water	FIELD	8.5	feet		11/06/2014	10:02			DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.003	mg/L		11/25/2014	14:59	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/07/2014	14:03	0.034	0.100	AC
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/17/2014	13:23	0.0039	0.005	KMH
Barium	EPA 200.7	0.016	mg/L		11/17/2014	13:23	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/17/2014	13:23	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.0010	mg/L	I	11/17/2014	13:23	0.0004	0.005	KMH
Chromium	EPA 200.7	0.00070	mg/L	I	11/17/2014	13:23	0.0007	0.005	KMH
Cobalt	EPA 200.7	<0.0003	mg/L	U	11/17/2014	13:23	0.0003	0.005	KMH
Copper	EPA 200.7	<0.0009	mg/L	U	11/17/2014	13:23	0.0009	0.005	KMH
Iron	EPA 200.7	0.310	mg/L		11/17/2014	13:23	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/17/2014	13:23	0.0017	0.005	KMH
Nickel	EPA 200.7	0.00080	mg/L	I,V,J	11/17/2014	13:23	0.0002	0.005	KMH
Selenium	EPA 200.7	0.0049	mg/L	I	11/17/2014	13:23	0.0046	0.005	KMH
Silver	EPA 200.7	0.006	mg/L		11/17/2014	13:23	0.0007	0.005	KMH
Sodium	EPA 200.7	4.98	mg/L		11/17/2014	13:23	0.016	2.00	KMH
Vanadium	EPA 200.7	0.016	mg/L		11/17/2014	13:23	0.0005	0.005	KMH
Zinc	EPA 200.7	<0.0029	mg/L	U	11/17/2014	13:23	0.0029	0.005	KMH

Analysis Comments: Nickel: V and J Qualifiers: Method and Reagent blank values are greater than MDL and sample value is ten times lower than blanks values.

Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	13:44	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	1.40	mg/L		11/12/2014	13:31	0.022	0.080	AMH
Nitrate	Calculation	0.161	mg/L		12/19/2014	12:28	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.161	mg/L		11/24/2014	13:41	0.014	0.050	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/06/2014	12:37	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	628	mg/L		11/10/2014	07:25	10.0	10.0	LW

Sample ID: AE59782 **Collection Date / Time:** 11/18/2014 08:59

Sample Point: Lena Road Monitoring Well GW-7

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	19.3	mg/L		12/03/2014 21:14	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/25/2014 15:49	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/25/2014 15:49	2.0	4.0	CONTRACT
Acetone	EPA 8260	2.4	ug/L	I C	11/25/2014 15:49	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/25/2014 15:49	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/25/2014 15:49	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/25/2014 15:49	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/25/2014 15:49	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/25/2014 15:49	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/25/2014 15:49	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/25/2014 15:49	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/25/2014 15:49	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/25/2014 15:49	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/25/2014 15:49	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/25/2014 15:49	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/25/2014 15:49	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 15:49	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/25/2014 15:49	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/25/2014 15:49	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab								
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	11/25/2014 02:09	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	11/25/2014 02:09	0.0053	0.021	CONTRACT

Metals Contract By 6010									
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/12/2014	17:02	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014	17:02	10	100	CONTRACT
Iron	EPA6010 ICP	310	ug/L	C	12/12/2014	17:02	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014	17:02	1.1	20	CONTRACT
Sodium	EPA6010 ICP	15	mg/L	C	12/12/2014	17:02	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	<7.8	ug/L	U C	12/12/2014	17:02	7.8	10	CONTRACT
Metals Contract By 6020									
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014	16:29	1.0	50	CONTRACT
Barium	EPA6020 ICP	13	ug/L	C	12/15/2014	13:42	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	13:42	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	1.2	ug/L	I C	12/15/2014	13:42	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	2	ug/L	C	12/15/2014	13:42	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	13:42	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	4.5	ug/L	I C	12/15/2014	13:42	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	1.6	ug/L	I C	12/17/2014	16:29	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	7.2	ug/L	C	12/16/2014	15:35	0.88	5.0	CONTRACT

Analysis Department: FIELD

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	670	umhos/cm		11/20/2014	08:59	1		DWELLS
Field Dissolved Oxygen	FIELD	1.09	mg/L		11/20/2014	08:59	0.01		DWELLS
Field pH	FIELD	5.5	Std. units		11/20/2014	08:59	0.010		DWELLS
Field Temperature	FIELD	24.1	Degrees C		11/20/2014	08:59	0.01		DWELLS
Field Turbidity	FIELD	3.76	NTU		11/20/2014	08:59	0.02		DWELLS
Static Depth to Water	FIELD	9.5	feet		11/20/2014	08:59			DWELLS

Analysis Department: METALS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.006	mg/L		11/25/2014	12:19	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/30/2014	10:50	0.034	0.100	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	13:54	0.0006	0.002	AC

Analysis Department: NUTRIENTS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	0.745	mg/L		11/25/2014	13:43	0.022	0.080	AC
Nitrate	Calculation	0.148	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.148	mg/L	J	12/05/2014	12:32	0.014	0.050	AMH
Analysis Comments:	J Qualifier:Method of Standard Addition technique used for sample value determination due to matrix interference.								
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/19/2014	15:52	0.003	0.005	AMH

Analysis Department: SOLIDS

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	500	mg/L		11/18/2014	07:49	10.0	10.0	LW

Sample ID: AE59783 Collection Date / Time: 11/18/2014 10:33

Sample Point: Lena Road Monitoring Well GW-8

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	16.9	mg/L		12/03/2014 21:59	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab								
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/25/2014 16:54	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/25/2014 16:54	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/25/2014 16:54	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/25/2014 16:54	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/25/2014 16:54	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/25/2014 16:54	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/25/2014 16:54	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/25/2014 16:54	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/25/2014 16:54	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/25/2014 16:54	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/25/2014 16:54	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/25/2014 16:54	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/25/2014 16:54	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/25/2014 16:54	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/25/2014 16:54	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014 16:54	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/25/2014 16:54	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/25/2014 16:54	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab								
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	11/25/2014 02:31	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	11/25/2014 02:31	0.0053	0.021	CONTRACT
Metals Contract By 6010								
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/15/2014 11:33	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014 17:05	10	100	CONTRACT
Iron	EPA6010 ICP	140	ug/L	C	12/12/2014 17:05	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014 17:05	1.1	20	CONTRACT
Sodium	EPA6010 ICP	16	mg/L	C	12/12/2014 17:05	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	8.4	ug/L	I C	12/12/2014 17:05	7.8	10	CONTRACT
Metals Contract By 6020								
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014 16:32	1.0	50	CONTRACT

Barium	EPA6020 ICP	18	ug/L	C	12/15/2014	13:47	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	13:47	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	1.8	ug/L	I C	12/15/2014	13:47	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	1.7	ug/L	C	12/15/2014	13:47	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	13:47	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	4.1	ug/L	I C	12/15/2014	13:47	0.46	5.0	CONTRACT
Selenium	EPA6020 ICP	1	ug/L	I C	12/17/2014	16:32	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	1.6	ug/L	I C	12/16/2014	15:40	0.88	5.0	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	636	umhos/cm		11/20/2014	10:33	1		DWELLS
Field Dissolved Oxygen	FIELD	1.68	mg/L		11/20/2014	10:33	0.01		DWELLS
Field pH	FIELD	5.4	Std. units		11/20/2014	10:33	0.010		DWELLS
Field Temperature	FIELD	25.5	Degrees C		11/20/2014	10:33	0.01		DWELLS
Field Turbidity	FIELD	6.26	NTU		11/20/2014	10:33	0.02		DWELLS
Static Depth to Water	FIELD	12.2	feet		11/20/2014	10:33			DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.006	mg/L		11/25/2014	12:30	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/30/2014	10:57	0.034	0.100	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	14:04	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	1.32	mg/L		12/01/2014	13:52	0.022	0.080	AC
Nitrate	Calculation	0.181	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.181	mg/L		11/24/2014	13:41	0.014	0.050	AMH
Nitrite	SM 4500-NO2 B	<0.003	mg/L	U	11/19/2014	15:52	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	437	mg/L		11/18/2014	07:49	10.0	10.0	LW

Sample ID: **AE59784** **Collection Date / Time:** **11/18/2014** **11:04**

Sample Point: **Lena Road Monitoring Well GW-9**

Sample Comment:

Analysis Department: **ANIONS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Chloride by Ion Chromatography	EPA 300.0	2.38	mg/L		12/03/2014	22:44	0.100	1.00	AC

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst

258 Appendix I Volatiles -Contract Lab

1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/25/2014	17:57	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/25/2014	17:57	2.0	4.0	CONTRACT
Acetone	EPA 8260	21	ug/L	C	11/25/2014	17:57	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/25/2014	17:57	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/25/2014	17:57	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/25/2014	17:57	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/25/2014	17:57	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/25/2014	17:57	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/25/2014	17:57	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/25/2014	17:57	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/25/2014	17:57	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/25/2014	17:57	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/25/2014	17:57	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/25/2014	17:57	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/25/2014	17:57	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/25/2014	17:57	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/25/2014	17:57	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/25/2014	17:57	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0053	ug/L	U C	11/25/2014	02:53	0.0053	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0053	ug/L	U C	11/25/2014	02:53	0.0053	0.021	CONTRACT
Metals Contract By 6010									
Beryllium	EPA6010 ICP	<0.096	ug/L	U C	12/12/2014	17:09	0.096	1.0	CONTRACT
Cobalt	EPA6010 ICP	<10	ug/L	U C	12/12/2014	17:09	10	100	CONTRACT
Iron	EPA6010 ICP	410	ug/L	C	12/12/2014	17:09	20	100	CONTRACT
Silver	EPA6010 ICP	<1.1	ug/L	U C	12/12/2014	17:09	1.1	20	CONTRACT
Sodium	EPA6010 ICP	2.2	mg/L	C	12/12/2014	17:09	0.13	0.50	CONTRACT
Vanadium	EPA6010 ICP	36	ug/L	C	12/12/2014	17:09	7.8	10	CONTRACT
Metals Contract By 6020									
Antimony	EPA6020 ICP	<1.0	ug/L	U C	12/17/2014	16:35	1.0	50	CONTRACT
Barium	EPA6020 ICP	6.9	ug/L	C	12/15/2014	13:51	0.18	0.50	CONTRACT
Cadmium	EPA6020 ICP	<0.27	ug/L	U C	12/15/2014	13:51	0.27	0.50	CONTRACT
Chromium	EPA6020 ICP	0.66	ug/L	I C	12/15/2014	13:51	0.35	5.0	CONTRACT
Copper	EPA6020 ICP	1.3	ug/L	C	12/15/2014	13:51	0.13	0.50	CONTRACT
Lead	EPA6020 ICP	<0.25	ug/L	U C	12/15/2014	13:51	0.25	0.50	CONTRACT
Nickel	EPA6020 ICP	2.4	ug/L	I C	12/15/2014	13:51	0.46	5	CONTRACT
Selenium	EPA6020 ICP	1	ug/L	I C	12/17/2014	16:35	0.93	5.0	CONTRACT
Zinc	EPA6020 ICP	1.6	ug/L	I C	12/16/2014	15:44	0.88	5.0	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed	MDL	PQL	Analyst

Field conductivity	FIELD	326	umhos/cm		11/18/2014	11:04	1	DWELLS
Field Dissolved Oxygen	FIELD	1.52	mg/L		11/18/2014	11:04	0.01	DWELLS
Field pH	FIELD	6.0	Std. units		11/18/2014	11:04	0.010	DWELLS
Field Temperature	FIELD	21.6	Degrees C		11/18/2014	11:04	0.01	DWELLS
Field Turbidity	FIELD	4.82	NTU		11/18/2014	11:04	0.02	DWELLS
Static Depth to Water	FIELD	9.8	feet		11/18/2014	11:04		DWELLS

Analysis Department: **METALS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	SM 3113B	0.004	mg/L		11/25/2014	17:39	0.0004	0.001	AC
Mercury Cold Vapor	EPA 245.1	<0.034	ug/L	U	11/30/2014	10:59	0.034	0.100	AC
Thallium by GFAAS	EPA 279.2	<0.0006	mg/L	U	11/26/2014	15:44	0.0006	0.002	AC

Analysis Department: **NUTRIENTS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Ammonia	EPA 350.1	0.927	mg/L		12/01/2014	13:52	0.022	0.080	AC
Nitrate	Calculation	0.145	mg/L		01/09/2015	10:35	0.014		EMM
Nitrate-Nitrite	SM 4500-NO3 H	0.188	mg/L		11/24/2014	13:49	0.014	0.050	AMH
Nitrite	SM 4500-NO2 B	0.043	mg/L		11/19/2014	15:52	0.003	0.005	AMH

Analysis Department: **SOLIDS**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	224	mg/L		11/18/2014	07:49	10.0	10.0	LW

Sample ID: **AE62289** **Collection Date / Time:** **11/24/2014** **09:21**

Sample Point: **Lena Road Monitoring Well GW-4**

Sample Comment:

Analysis Department: **CONTRACT**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
258 Appendix I Volatiles -Contract Lab									
1,1,1,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1,1-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1,2,2-Tetrachloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1,2-Trichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1-Dichloroethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
1,1-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
1,2,3-Trichloropropane	EPA 8260	<0.4	ug/L	U C	11/26/2014	18:28	0.4	0.8	CONTRACT
1,2-Dichlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
1,2-Dichloroethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
1,2-Dichloropropane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
1,4-Dichlorobenzene	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
2-Butanone	EPA 8260	<2.0	ug/L	U C	11/26/2014	18:28	2.0	4.0	CONTRACT
Acetone	EPA 8260	<2.0	ug/L	U C	11/26/2014	18:28	2.0	4.0	CONTRACT
Acrylonitrile	EPA 8260	<1.3	ug/L	U C	11/26/2014	18:28	1.3	4.0	CONTRACT
Benzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
Bromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
Bromodichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Bromoform	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Bromomethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	18:28	0.4	0.8	CONTRACT
Carbon disulfide	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT

Carbon tetrachloride	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Chlorobenzene	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
Chloroethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	18:28	0.4	1.6	CONTRACT
Chloroform	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Chloromethane	EPA 8260	<0.4	ug/L	U C	11/26/2014	18:28	0.4	1.6	CONTRACT
cis-1,2-Dichloroethylene	EPA 8260	<0.09	ug/L	U C	11/26/2014	18:28	0.09	0.8	CONTRACT
cis-1,3-Dichloropropene	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Dibromochloromethane	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
Dibromomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Dichloromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Ethylbenzene	EPA 8260	<0.08	ug/L	U C	11/26/2014	18:28	0.08	0.8	CONTRACT
Iodomethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Methyl butyl ketone	EPA 8260	<2.1	ug/L	U C	11/26/2014	18:28	2.1	4.0	CONTRACT
Methyl isobutyl ketone	EPA 8260	<2.6	ug/L	U C	11/26/2014	18:28	2.6	4.0	CONTRACT
Styrene	EPA 8260	<0.05	ug/L	U C	11/26/2014	18:28	0.05	0.8	CONTRACT
Tetrachloroethylene	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
Toluene	EPA 8260	<0.09	ug/L	U C	11/26/2014	18:28	0.09	0.8	CONTRACT
Total xylenes	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
trans-1,2-Dichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
trans-1,3-Dichloropropene	EPA 8260	<0.1	ug/L	U C	11/26/2014	18:28	0.1	0.8	CONTRACT
trans-1,4-Dichloro-2-butene	EPA 8260	<0.3	ug/L	U C	11/26/2014	18:28	0.3	0.8	CONTRACT
Trichloroethylene	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Trichlorofluoromethane	EPA 8260	<0.2	ug/L	U C	11/26/2014	18:28	0.2	0.8	CONTRACT
Vinyl acetate	EPA 8260	<0.4	ug/L	U C	11/26/2014	18:28	0.4	1.6	CONTRACT
Vinyl chloride	EPA 8260	<0.3	ug/L	U C	11/26/2014	18:28	0.3	1.6	CONTRACT
258 Pesticides -Contract Lab									
1,2-Dibromo-3-chloropropane	EPA 8011	<0.0052	ug/L	U C	11/25/2014	22:04	0.0052	0.021	CONTRACT
Ethylene dibromide	EPA 8011	<0.0052	ug/L	U C	11/25/2014	22:04	0.0052	0.021	CONTRACT
Static Depth to Water-Contract Lab	FIELD	19.60	meters	C	11/24/2014	09:21	0.01	0.01	CONTRACT

Analysis Department: **FIELD**

Parameter	Method	Results	Units	Qualifier	Date/Time Analyzed		MDL	PQL	Analyst
Field conductivity	FIELD	426	umhos/cm	C	11/24/2014	09:21	0.1	0.1	CONTRACT
Field Dissolved Oxygen	FIELD	0.1	mg/L	C	11/24/2014	09:21	0.1	0.1	CONTRACT
Field pH	FIELD	6.0	Std. units	C	11/24/2014	09:21	0.1	0.1	CONTRACT
Field Temperature	FIELD	24.9	Degrees C	C	11/24/2014	09:21	0.1	0.1	CONTRACT
Field Turbidity	FIELD	7.1	NTU	C	11/24/2014	09:21	0.01	0.01	CONTRACT

Batch Name: ASAA-30967 **QA Sample ID:** AE59809

Samples AE59767 AE59775 AE59776

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	0.006	mg/L	J	12/15/2014	16:04	0.0004		AC
Method Blank for Arsenic by GFAAS	<0.0004	mg/L	U	12/15/2014	16:04	0.0004		AC
CCB for Arsenic by GFAAS	<0.0004	mg/L	U	12/15/2014	16:04	0.0004		AC
CCV for Arsenic by GFAAS	0.053	mg/L		12/15/2014	16:04	0.0004		AC
CCV Rec for Arsenic by GFAAS	106	%		12/15/2014	16:04			AC
ICV for Arsenic by GFAAS	0.052	mg/L		12/15/2014	16:04	0.0004		AC
ICV Rec for Arsenic by GFAAS	104	%		12/15/2014	16:04			AC
LCS for Arsenic by GFAAS	0.054	mg/L		12/15/2014	16:04	0.0004		AC
LCS Rec for Arsenic by GFAAS	108	%		12/15/2014	16:04			AC
MS Rec for Arsenic by GFAAS	122	%		12/15/2014	16:04			AC
Reagent Blank for Arsenic by GFAAS	<0.0004	mg/L	U	12/15/2014	16:04	0.0004		AC
MSD Rec for Arsenic by GFAAS	122	%		12/15/2014	16:04			AC
MS Result for Arsenic by GFAAS	0.067	mg/L		12/15/2014	16:04	0.0004		AC
MSD Result for Arsenic by GFAAS	0.067	mg/L		12/15/2014	16:04	0.0004		AC
MS/MSD Prec for Arsenic by GFAAS	0.00	%		12/15/2014	16:04			AC

Batch Name: TLAA-30963 **QA Sample ID:** AE59767

Samples AE59767 AE59775 AE59776

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for Thallium by GFAAS	<0.0006	mg/L	U	12/12/2014	08:02	0.0006		AC
CCB for Thallium by GFAAS	<0.0006	mg/L	U	12/12/2014	08:02	0.0006		AC
Continuous Calibration for Thallium by G	0.053	mg/L		12/12/2014	08:02	0.0006		AC

Batch Name: TLAA-30963 **QA Sample ID:** AE59767

Samples AE59767 AE59775 AE59776

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Cont Calb Rec for Thallium by GFAAS	106	%		12/12/2014	08:02			AC
Initial Calibration for Thallium by GFAA	0.054	mg/L		12/12/2014	08:02	0.0006		AC
Int Calb Rec for Thallium by GFAAS	108	%		12/12/2014	08:02			AC
Lab Control for Thallium by GFAAS	0.055	mg/L		12/12/2014	08:02	0.0006		AC
LCS Recovery for Thallium by GFAAS	110	%		12/12/2014	08:02			AC
MS Rec for Thallium by GFAAS	104	%		12/12/2014	08:02			AC
Reagent Blank for Thallium by GFAAS	<0.0006	mg/L	U	12/12/2014	08:02	0.0006		AC
MSD Rec for Thallium by GFAAS	104	%		12/12/2014	08:02			AC
MS Result for Thallium by GFAAS	0.052	mg/L		12/12/2014	08:02	0.0006		AC
MSD Result for Thallium by GFAAS	0.052	mg/L		12/12/2014	08:02	0.0006		AC
MS/MSD Precision for Thallium by GFAAS	0.00	%		12/12/2014	08:02			AC
Thallium by GFAAS	<0.0006	mg/L	U	12/12/2014	08:02	0.0006		AC

Batch Name: NOX-30920 **QA Sample ID:** AE62177

Samples AE59767 AE59771

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for NOX	12.5	mg/L		12/05/2014	13:15	0.014		AMH
Method Blank for NOX	0.016	mg/L		12/05/2014	13:15	0.014		AMH
CCB for NOX	0.041	mg/L		12/05/2014	13:15	0.014		AMH
CCV for NOX	4.81	mg/L		12/05/2014	13:15	0.014		AMH
CCV Recovery for NOX	96.2	%		12/05/2014	13:15			AMH
Sample Dup for NOX	6.02	mg/L	DF	12/05/2014	13:15	0.028		AMH
ICV for NOX	2.44	mg/L		12/05/2014	13:15	0.014		AMH

Batch Name: NOX-30920 **QA Sample ID:** AE62177

Samples AE59767 AE59771

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
ICV Recovery for NOX	97.6	%		12/05/2014	13:15			AMH
Nitrate-Nitrite	6.08	mg/L	DF	12/05/2014	13:15	0.028		AMH
Dup Precision for NOX	0.992	%		12/05/2014	13:15			AMH
MS Rec for NOX	94.6	%		12/05/2014	13:15			AMH
Matrix Spike for NOX	17.9	mg/L	DF	12/05/2014	13:15	0.07		AMH

Batch Name: AMM-30906 **QA Sample ID:** AE59772

Samples AE59767 AE59770 AE59771 AE59772 AE59773 AE59774 AE59775 AE59776 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Ammonia	3.18	mg/L	DF	12/03/2014	12:01	0.11		AC
Sample Dup for Ammonia	3.29	mg/L	DF	12/03/2014	12:01	0.11		AC
Dup Precision for Ammonia	3.40	%		12/03/2014	12:01			AC
Amt Spiked for Ammonia	10.0	mg/L		12/03/2014	12:01	0.022		AC
MS Result for Ammonia	13.2	mg/L	DF	12/03/2014	12:01	0.22		AC
MS Recovery for Ammonia	100	%		12/03/2014	12:01			AC
Cont Calb Rec for Ammonia	99.0	%		12/03/2014	12:01			AC
Continuing Cal. Blank for Ammonia	<0.022	mg/L	U	12/03/2014	12:01	0.022		AC
Method Blank for Ammonia	<0.022	mg/L	U	12/03/2014	12:01	0.022		AC
Continuous Calibration for Ammonia	1.98	mg/L		12/03/2014	12:01	0.022		AC
ICV for Ammonia	1.00	mg/L		12/03/2014	12:01	0.022		AC
ICV Rec for Ammonia	100	%		12/03/2014	12:01			AC

Batch Name: NO2-30884 **QA Sample ID:** AE59767

Samples AE59767 AE59775 AE59776

Batch Name: NO2-30884 **QA Sample ID:** AE59767

Samples AE59767 AE59775 AE59776

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Nitrite	0.250	mg/L		11/26/2014	10:24	0.003		AMH
Method Blank for Nitrite	<0.003	mg/L	U	11/26/2014	10:24	0.003		AMH
CCB for Nitrite	<0.003	mg/L	U	11/26/2014	10:24	0.003		AMH
CCV for Nitrite	0.503	mg/L		11/26/2014	10:24	0.003		AMH
Cont Calb Rec for Nitrite as N	101	%		11/26/2014	10:24			AMH
Sample Dup for Nitrite	<0.003	mg/L	U	11/26/2014	10:24	0.003		AMH
ICV for Nitrite	0.247	mg/L		11/26/2014	10:24	0.003		AMH
ICV Rec for Nitrite	98.8	%		11/26/2014	10:24			AMH
Nitrite	<0.003	mg/L	U	11/26/2014	10:24	0.003		AMH
Dup Precision for Nitrite	PASSED	%		11/26/2014	10:24			AMH
MS Rec for Nitrite	98.0	%		11/26/2014	10:24			AMH
MS Result for Nitrite	0.245	mg/L		11/26/2014	10:24	0.003		AMH

Batch Name: CLIC-30877 **QA Sample ID:** AE62410

Samples AE59767 AE59772 AE59773 AE59774 AE59775 AE59776

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Chloride	2500	mg/L		12/17/2014	12:44	0.100		AC
Method Blank for Chloride	<0.100	mg/L	U	12/17/2014	12:44	0.100		AC
Cont. Blank for Chloride	<0.100	mg/L	U	12/17/2014	12:44	0.100		AC
Cont. Cal. for Chloride	202	mg/L		12/17/2014	12:44	0.100		AC
Cont Calb Rec for Chloride	101	%		12/17/2014	12:44			AC
Chloride by Ion Chromatography	1600	mg/L	DF	12/17/2014	12:44	1.00		AC
Sample Dup for Chloride	1450	mg/L	DF	12/17/2014	12:44	1.00		AC

Batch Name: CLIC-30877 **QA Sample ID:** AE62410

Samples AE59767 AE59772 AE59773 AE59774 AE59775 AE59776

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
ICV for Chloride	106	mg/L		12/17/2014	12:44	0.100		AC
Int Calb Rec for Chloride	106	%		12/17/2014	12:44			AC
Samp Dup Prec for Chloride	9.84	%		12/17/2014	12:44			AC
MS Recovery for Chloride	107	%		12/17/2014	12:44			AC
MS Result for Chloride	4270	mg/L	DF	12/17/2014	12:44	2.50		AC

Batch Name: TDS-30875 **QA Sample ID:** AE59773

Samples AE59767 AE59772 AE59773 AE59774 AE59775 AE59776

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for TDS	<10.0	mg/L		12/02/2014	10:23	10.0		LW
Sample Dup for TDS	1030	mg/L		12/02/2014	10:23	10.0		LW
Initial Calibration for TDS	1020	mg/L		12/02/2014	10:23	10.0		LW
Int Calb Conc for TDS	946	mg/L		12/02/2014	10:23	10.0		LW
Int Calb Rec for TDS	108	%		12/02/2014	10:23			LW
Samp Dup Precision for TDS	Pass	%		12/02/2014	10:24			LW
Total Dissolved Solids	1090	mg/L		12/02/2014	10:23	10.0		LW

Batch Name: TLAA-30872 **QA Sample ID:** AE59768

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781 AE59782 AE59783

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for Thallium by GFAAS	<0.0006	mg/L	U	11/27/2014	11:30	0.0006		AC
CCB for Thallium by GFAAS	<0.0006	mg/L	U	11/27/2014	11:30	0.0006		AC
Continuous Calibration for Thallium by G	0.054	mg/L		11/27/2014	11:30	0.0006		AC
Cont Calb Rec for Thallium by GFAAS	108	%		11/27/2014	11:30			AC

Batch Name: TLAA-30872 **QA Sample ID:** AE59768

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781 AE59782 AE59783

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Initial Calibration for Thallium by GFAA	0.053	mg/L		11/27/2014	11:30	0.0006		AC
Int Calb Rec for Thallium by GFAAS	106	%		11/27/2014	11:30			AC
Lab Control for Thallium by GFAAS	0.054	mg/L		11/27/2014	11:30	0.0006		AC
LCS Recovery for Thallium by GFAAS	108	%		11/27/2014	11:30			AC
MS Rec for Thallium by GFAAS	102	%		11/27/2014	11:30			AC
Reagent Blank for Thallium by GFAAS	<0.0006	mg/L	U	11/27/2014	11:30	0.0006		AC
MSD Rec for Thallium by GFAAS	104	%		11/27/2014	11:30			AC
MS Result for Thallium by GFAAS	0.051	mg/L		11/27/2014	11:30	0.0006		AC
MSD Result for Thallium by GFAAS	0.052	mg/L		11/27/2014	11:30	0.0006		AC
MS/MSD Precision for Thallium by GFAAS	1.94	%		11/27/2014	11:30			AC
Thallium by GFAAS	<0.0006	mg/L	U	11/27/2014	11:30	0.0006		AC

Batch Name: NOX-30867 **QA Sample ID:** AE59777

Samples AE59768 AE59777 AE59779 AE59780 AE59781 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for NOX	0.250	mg/L		11/25/2014	08:46	0.014		AMH
Method Blank for NOX	<0.014	mg/L	U	11/25/2014	08:46	0.014		AMH
CCB for NOX	<0.014	mg/L	U	11/25/2014	08:46	0.014		AMH
CCV for NOX	0.518	mg/L		11/25/2014	08:46	0.014		AMH
CCV Recovery for NOX	104	%		11/25/2014	08:46			AMH
Sample Dup for NOX	0.136	mg/L		11/25/2014	08:46	0.014		AMH
ICV for NOX	0.229	mg/L		11/25/2014	08:46	0.014		AMH
ICV Recovery for NOX	91.6	%		11/25/2014	08:46			AMH

Batch Name: NOX-30867 **QA Sample ID:** AE59777

Samples AE59768 AE59777 AE59779 AE59780 AE59781 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Nitrate-Nitrite	0.132	mg/L		11/25/2014	08:46	0.014		AMH
Dup Precision for NOX	2.98	%		11/25/2014	08:46			AMH
MS Rec for NOX	100	%		11/25/2014	08:46			AMH
Matrix Spike for NOX	0.382	mg/L		11/25/2014	08:46	0.014		AMH

Batch Name: ASAA-30856 **QA Sample ID:** AE61263

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	<0.0004	mg/L	U,J	12/05/2014	15:51	0.0004		AC
CCB for Arsenic by GFAAS	<0.0004	mg/L	U	12/05/2014	15:51	0.0004		AC
CCV for Arsenic by GFAAS	0.053	mg/L		12/05/2014	15:51	0.0004		AC
CCV Rec for Arsenic by GFAAS	106	%		12/05/2014	15:51			AC
MS Rec for Arsenic by GFAAS	122	%		12/05/2014	15:51			AC
MSD Rec for Arsenic by GFAAS	118	%		12/05/2014	15:51			AC
MS Result for Arsenic by GFAAS	0.061	mg/L		12/05/2014	15:51	0.0004		AC
MSD Result for Arsenic by GFAAS	0.059	mg/L		12/05/2014	15:51	0.0004		AC
MS/MSD Prec for Arsenic by GFAAS	3.33	%		12/05/2014	15:51			AC

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for Metals by 200.7								
Antimony	<0.0039	mg/L	U	11/17/2014	12:17	0.0039		KMH
Arsenic	<0.0038	mg/L	U	11/17/2014	12:17	0.0038		KMH
Barium	<0.0002	mg/L	U	11/17/2014	12:17	0.0002		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for Metals by 200.7								
Beryllium	<0.00004	mg/L	U	11/17/2014	12:17	0.00004		KMH
Cadmium	<0.0004	mg/L	U	11/17/2014	12:17	0.0004		KMH
Calcium	<0.017	mg/L	U	11/17/2014	12:17	0.017		KMH
Chromium	<0.0007	mg/L	U	11/17/2014	12:17	0.0007		KMH
Cobalt	<0.0003	mg/L	U	11/17/2014	12:17	0.0003		KMH
Copper	<0.0009	mg/L	U	11/17/2014	12:17	0.0009		KMH
Iron	<0.046	mg/L	U	11/17/2014	12:17	0.046		KMH
Lead	<0.0017	mg/L	U	11/17/2014	12:17	0.0017		KMH
Magnesium	<0.028	mg/L	U	11/17/2014	12:17	0.028		KMH
Nickel	0.00030	mg/L	I	11/17/2014	12:17	0.0002		KMH
Selenium	<0.0046	mg/L	U	11/17/2014	12:17	0.0046		KMH
Silver	<0.0007	mg/L	U	11/17/2014	12:17	0.0007		KMH
Sodium	<0.016	mg/L	U	11/17/2014	12:17	0.016		KMH
Thallium	<0.0016	mg/L	U	11/17/2014	12:17	0.0016		KMH
Tin	<0.0017	mg/L	U	11/17/2014	12:17	0.0017		KMH
Vanadium	<0.0005	mg/L	U	11/17/2014	12:17	0.0005		KMH
Zinc	<0.0029	mg/L	U	11/17/2014	12:17	0.0029		KMH
Int Calb Rec for Metals by 200.7								
Antimony	102	%		11/17/2014	11:32	0.0039		KMH
Arsenic	97.7	%		11/17/2014	11:32	0.0038		KMH
Barium	100	%		11/17/2014	11:32	0.0002		KMH
Beryllium	99.9	%		11/17/2014	11:32	0.00004		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Int Calb Rec for Metals by 200.7								
Cadmium	97.2	%		11/17/2014	11:32	0.0004		KMH
Calcium	101	%		11/17/2014	11:32	0.017		KMH
Chromium	101	%		11/17/2014	11:32	0.0007		KMH
Cobalt	102	%		11/17/2014	11:32	0.0003		KMH
Copper	98.9	%		11/17/2014	11:32	0.0009		KMH
Iron	104	%		11/17/2014	11:32	0.046		KMH
Lead	101	%		11/17/2014	11:32	0.0017		KMH
Magnesium	102	%		11/17/2014	11:32	0.028		KMH
Nickel	103	%		11/17/2014	11:32	0.0002		KMH
Selenium	104	%		11/17/2014	11:32	0.0046		KMH
Silver	96.8	%		11/17/2014	11:32	0.0007		KMH
Sodium	99.1	%		11/17/2014	11:32	0.016		KMH
Thallium	101	%		11/17/2014	11:32	0.0016		KMH
Tin	101	%		11/17/2014	11:32	0.0017		KMH
Vanadium	99.1	%		11/17/2014	11:32	0.0005		KMH
Zinc	102	%		11/17/2014	11:32	0.0029		KMH
LCS Recovery for Metals by 200.7								
Antimony	97.0	%		11/17/2014	12:26	0.0039		KMH
Arsenic	95.0	%		11/17/2014	12:26	0.0038		KMH
Barium	101	%		11/17/2014	12:26	0.0002		KMH
Beryllium	102	%		11/17/2014	12:26	0.00004		KMH
Cadmium	98.4	%		11/17/2014	12:26	0.0004		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
LCS Recovery for Metals by 200.7								
Calcium	103	%		11/17/2014	12:26	0.017		KMH
Chromium	102	%		11/17/2014	12:26	0.0007		KMH
Cobalt	101	%		11/17/2014	12:26	0.0003		KMH
Copper	97.4	%		11/17/2014	12:26	0.0009		KMH
Iron	102	%		11/17/2014	12:26	0.046		KMH
Lead	100	%		11/17/2014	12:26	0.0017		KMH
Magnesium	98.1	%		11/17/2014	12:26	0.028		KMH
Nickel	102	%		11/17/2014	12:26	0.0002		KMH
Selenium	105	%		11/17/2014	12:26	0.0046		KMH
Silver	98.8	%		11/17/2014	12:26	0.0007		KMH
Sodium	95.2	%		11/17/2014	12:26	0.016		KMH
Thallium	101	%		11/17/2014	12:26	0.0016		KMH
Tin	100	%		11/17/2014	12:26	0.0017		KMH
Vanadium	100	%		11/17/2014	12:26	0.0005		KMH
Zinc	105	%		11/17/2014	12:26	0.0029		KMH
MS Result for Metals by 200.7								
Antimony	0.435	mg/L		11/17/2014	12:49	0.0039		KMH
Arsenic	0.465	mg/L		11/17/2014	12:49	0.0038		KMH
Barium	0.585	mg/L		11/17/2014	12:49	0.0002		KMH
Beryllium	0.490	mg/L		11/17/2014	12:49	0.00004		KMH
Cadmium	0.500	mg/L		11/17/2014	12:49	0.0004		KMH
Chromium	0.495	mg/L		11/17/2014	12:49	0.0007		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
MS Result for Metals by 200.7								
Cobalt	0.486	mg/L		11/17/2014	12:49	0.0003		KMH
Copper	0.512	mg/L		11/17/2014	12:49	0.0009		KMH
Iron	17.8	mg/L		11/17/2014	12:49	0.046		KMH
Lead	0.471	mg/L		11/17/2014	12:49	0.0017		KMH
Nickel	0.481	mg/L		11/17/2014	12:49	0.0002		KMH
Selenium	0.511	mg/L		11/17/2014	12:49	0.0046		KMH
Silver	0.515	mg/L		11/17/2014	12:49	0.0007		KMH
Sodium	396	mg/L		11/17/2014	12:49	0.016		KMH
Thallium	0.462	mg/L		11/17/2014	12:49	0.0016		KMH
Tin	0.450	mg/L		11/17/2014	12:49	0.0017		KMH
Vanadium	0.518	mg/L		11/17/2014	12:49	0.0005		KMH
Zinc	0.487	mg/L		11/17/2014	12:49	0.0029		KMH
MS Recovery for Metals by 200.7								
Antimony	87.0	%		11/17/2014	12:40	0.0039		KMH
Arsenic	93.0	%		11/17/2014	12:40	0.0038		KMH
Barium	95.4	%		11/17/2014	12:40	0.0002		KMH
Beryllium	97.6	%		11/17/2014	12:40	0.00004		KMH
Cadmium	99.8	%		11/17/2014	12:40	0.0004		KMH
Chromium	97.4	%		11/17/2014	12:40	0.0007		KMH
Cobalt	94.6	%		11/17/2014	12:40	0.0003		KMH
Copper	102	%		11/17/2014	12:40	0.0009		KMH
Iron	92.0	%		11/17/2014	12:40	0.046		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
MS Recovery for Metals by 200.7								
Lead	94.2	%		11/17/2014	12:40	0.0017		KMH
Nickel	93.4	%		11/17/2014	12:40	0.0002		KMH
Selenium	102	%		11/17/2014	12:40	0.0046		KMH
Silver	102	%		11/17/2014	12:40	0.0007		KMH
Sodium	94.1	%		11/17/2014	12:40	0.016		KMH
Thallium	92.4	%		11/17/2014	12:40	0.0016		KMH
Tin	90.0	%		11/17/2014	12:40	0.0017		KMH
Vanadium	98.8	%		11/17/2014	12:40	0.0005		KMH
Zinc	95.2	%		11/17/2014	12:40	0.0029		KMH
MS/MSD Precision for Metals by 200.7								
Antimony	0.461	%		11/17/2014	12:49	0.0039		KMH
Arsenic	1.92	%		11/17/2014	12:49	0.0038		KMH
Barium	1.19	%		11/17/2014	12:49	0.0002		KMH
Beryllium	0.813	%		11/17/2014	12:49	0.00004		KMH
Cadmium	1.19	%		11/17/2014	12:49	0.0004		KMH
Chromium	1.00	%		11/17/2014	12:49	0.0007		KMH
Cobalt	1.02	%		11/17/2014	12:49	0.0003		KMH
Copper	0.584	%		11/17/2014	12:49	0.0009		KMH
Iron	0.560	%		11/17/2014	12:49	0.046		KMH
Lead	0.635	%		11/17/2014	12:49	0.0017		KMH
Nickel	1.03	%		11/17/2014	12:49	0.0002		KMH
Selenium	0.983	%		11/17/2014	12:49	0.0046		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
MS/MSD Precision for Metals by 200.7								
Silver	0.966	%		11/17/2014	12:49	0.0007		KMH
Sodium	0.252	%		11/17/2014	12:49	0.016		KMH
Thallium	0.647	%		11/17/2014	12:49	0.0016		KMH
Tin	0.664	%		11/17/2014	12:49	0.0017		KMH
Vanadium	0.961	%		11/17/2014	12:49	0.0005		KMH
Zinc	1.43	%		11/17/2014	12:49	0.0029		KMH
CCV Rec for Metals by 200.7								
Antimony	101	%		11/17/2014	13:39	0.0039		KMH
Arsenic	100	%		11/17/2014	13:39	0.0038		KMH
Barium	102	%		11/17/2014	13:39	0.0002		KMH
Beryllium	104	%		11/17/2014	13:39	0.00004		KMH
Cadmium	100	%		11/17/2014	13:39	0.0004		KMH
Chromium	103	%		11/17/2014	13:39	0.0007		KMH
Cobalt	102	%		11/17/2014	13:39	0.0003		KMH
Copper	98.9	%		11/17/2014	13:39	0.0009		KMH
Iron	101	%		11/17/2014	13:39	0.046		KMH
Lead	102	%		11/17/2014	13:39	0.0017		KMH
Nickel	103	%		11/17/2014	13:39	0.0002		KMH
Selenium	107	%		11/17/2014	13:39	0.0046		KMH
Silver	100	%		11/17/2014	13:39	0.0007		KMH
Sodium	97.0	%		11/17/2014	13:39	0.016		KMH
Thallium	103	%		11/17/2014	13:39	0.0016		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
CCV Rec for Metals by 200.7								
Tin	103	%		11/17/2014	13:39	0.0017		KMH
Vanadium	102	%		11/17/2014	13:39	0.0005		KMH
Zinc	106	%		11/17/2014	13:39	0.0029		KMH
Cont Blank for Metals by 200.7								
Antimony	<0.0039	mg/L	U	11/17/2014	14:03	0.0039		KMH
Arsenic	<0.0038	mg/L	U	11/17/2014	14:03	0.0038		KMH
Barium	<0.0002	mg/L	U	11/17/2014	14:03	0.0002		KMH
Beryllium	<0.00004	mg/L	U	11/17/2014	14:03	0.00004		KMH
Cadmium	<0.0004	mg/L	U	11/17/2014	14:03	0.0004		KMH
Chromium	<0.0007	mg/L	U	11/17/2014	14:03	0.0007		KMH
Cobalt	<0.0003	mg/L	U	11/17/2014	14:03	0.0003		KMH
Copper	<0.0009	mg/L	U	11/17/2014	14:03	0.0009		KMH
Iron	<0.046	mg/L	U	11/17/2014	14:03	0.046		KMH
Lead	<0.0017	mg/L	U	11/17/2014	14:03	0.0017		KMH
Nickel	0.00050	mg/L	I	11/17/2014	14:03	0.0002		KMH
Selenium	<0.0046	mg/L	U	11/17/2014	14:03	0.0046		KMH
Silver	<0.0007	mg/L	U	11/17/2014	14:03	0.0007		KMH
Sodium	<0.016	mg/L	U	11/17/2014	14:03	0.016		KMH
Thallium	<0.0016	mg/L	U	11/17/2014	14:03	0.0016		KMH
Tin	<0.0017	mg/L	U	11/17/2014	14:03	0.0017		KMH
Vanadium	<0.0005	mg/L	U	11/17/2014	14:03	0.0005		KMH
Zinc	<0.0029	mg/L	U	11/17/2014	14:03	0.0029		KMH
CCV for Metals by 200.7								

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
CCV for Metals by 200.7								
Antimony	1.01	mg/L		11/17/2014	13:39	0.0039		KMH
Arsenic	1.00	mg/L		11/17/2014	13:39	0.0038		KMH
Barium	1.02	mg/L		11/17/2014	13:39	0.0002		KMH
Beryllium	1.04	mg/L		11/17/2014	13:39	0.00004		KMH
Cadmium	1.00	mg/L		11/17/2014	13:39	0.0004		KMH
Chromium	1.03	mg/L		11/17/2014	13:39	0.0007		KMH
Cobalt	1.02	mg/L		11/17/2014	13:39	0.0003		KMH
Copper	0.989	mg/L		11/17/2014	13:39	0.0009		KMH
Iron	12.6	mg/L		11/17/2014	13:39	0.046		KMH
Lead	1.02	mg/L		11/17/2014	13:39	0.0017		KMH
Nickel	1.03	mg/L		11/17/2014	13:39	0.0002		KMH
Selenium	1.07	mg/L		11/17/2014	13:39	0.0046		KMH
Silver	0.500	mg/L		11/17/2014	13:39	0.0007		KMH
Sodium	193	mg/L		11/17/2014	13:39	0.016		KMH
Thallium	1.03	mg/L		11/17/2014	13:39	0.0016		KMH
Tin	1.03	mg/L		11/17/2014	13:39	0.0017		KMH
Vanadium	1.02	mg/L		11/17/2014	13:39	0.0005		KMH
Zinc	1.06	mg/L		11/17/2014	13:39	0.0029		KMH
Initial Calibration for Metals by 200.7								
Antimony	1.02	mg/L		11/17/2014	11:32	0.0039		KMH
Arsenic	0.977	mg/L		11/17/2014	11:32	0.0038		KMH
Barium	1.00	mg/L		11/17/2014	11:32	0.0002		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Initial Calibration for Metals by 200.7								
Beryllium	0.999	mg/L		11/17/2014	11:32	0.00004		KMH
Cadmium	0.972	mg/L		11/17/2014	11:32	0.0004		KMH
Calcium	50.3	mg/L		11/17/2014	11:32	0.017		KMH
Chromium	1.01	mg/L		11/17/2014	11:32	0.0007		KMH
Cobalt	1.02	mg/L		11/17/2014	11:32	0.0003		KMH
Copper	0.989	mg/L		11/17/2014	11:32	0.0009		KMH
Iron	13.0	mg/L		11/17/2014	11:32	0.046		KMH
Lead	1.01	mg/L		11/17/2014	11:32	0.0017		KMH
Magnesium	51.1	mg/L		11/17/2014	11:32	0.028		KMH
Nickel	1.03	mg/L		11/17/2014	11:32	0.0002		KMH
Selenium	1.04	mg/L		11/17/2014	11:32	0.0046		KMH
Silver	0.242	mg/L		11/17/2014	11:32	0.0007		KMH
Sodium	99.1	mg/L		11/17/2014	11:32	0.016		KMH
Thallium	1.01	mg/L		11/17/2014	11:32	0.0016		KMH
Tin	1.01	mg/L		11/17/2014	11:32	0.0017		KMH
Vanadium	0.991	mg/L		11/17/2014	11:32	0.0005		KMH
Zinc	1.02	mg/L		11/17/2014	11:32	0.0029		KMH
Metals by 200.7								
Antimony	<0.0039	mg/L	U	11/17/2014	12:40	0.0039		KMH
Arsenic	<0.0038	mg/L	U	11/17/2014	12:40	0.0038		KMH
Barium	0.108	mg/L		11/17/2014	12:40	0.0002		KMH
Beryllium	0.0018	mg/L	I	11/17/2014	12:40	0.00004		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Metals by 200.7								
Cadmium	0.00080	mg/L	I	11/17/2014	12:40	0.0004		KMH
Chromium	0.008	mg/L		11/17/2014	12:40	0.0007		KMH
Cobalt	0.013	mg/L		11/17/2014	12:40	0.0003		KMH
Copper	<0.0009	mg/L	U	11/17/2014	12:40	0.0009		KMH
Iron	11.6	mg/L		11/17/2014	12:40	0.046		KMH
Lead	<0.0017	mg/L	U	11/17/2014	12:40	0.0017		KMH
Nickel	0.014	mg/L		11/17/2014	12:40	0.0002		KMH
Selenium	<0.0046	mg/L	U	11/17/2014	12:40	0.0046		KMH
Silver	0.0023	mg/L	I	11/17/2014	12:40	0.0007		KMH
Sodium	302	mg/L		11/17/2014	12:40	0.016		KMH
Thallium	<0.0016	mg/L	U	11/17/2014	12:40	0.0016		KMH
Tin	<0.0017	mg/L	U	11/17/2014	12:40	0.0017		KMH
Vanadium	0.024	mg/L		11/17/2014	12:40	0.0005		KMH
Zinc	0.011	mg/L		11/17/2014	12:40	0.0029		KMH
LCS for Metals by 200.7								
Antimony	0.485	mg/L		11/17/2014	12:26	0.0039		KMH
Arsenic	0.475	mg/L		11/17/2014	12:26	0.0038		KMH
Barium	0.505	mg/L		11/17/2014	12:26	0.0002		KMH
Beryllium	0.509	mg/L		11/17/2014	12:26	0.00004		KMH
Cadmium	0.492	mg/L		11/17/2014	12:26	0.0004		KMH
Calcium	10.8	mg/L		11/17/2014	12:26	0.017		KMH
Chromium	0.509	mg/L		11/17/2014	12:26	0.0007		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
LCS for Metals by 200.7								
Cobalt	0.507	mg/L		11/17/2014	12:26	0.0003		KMH
Copper	0.487	mg/L		11/17/2014	12:26	0.0009		KMH
Iron	10.7	mg/L		11/17/2014	12:26	0.046		KMH
Lead	0.501	mg/L		11/17/2014	12:26	0.0017		KMH
Magnesium	10.3	mg/L		11/17/2014	12:26	0.028		KMH
Nickel	0.512	mg/L		11/17/2014	12:26	0.0002		KMH
Selenium	0.523	mg/L		11/17/2014	12:26	0.0046		KMH
Silver	0.494	mg/L		11/17/2014	12:26	0.0007		KMH
Sodium	10.0	mg/L		11/17/2014	12:26	0.016		KMH
Thallium	0.503	mg/L		11/17/2014	12:26	0.0016		KMH
Tin	0.500	mg/L		11/17/2014	12:26	0.0017		KMH
Vanadium	0.500	mg/L		11/17/2014	12:26	0.0005		KMH
Zinc	0.524	mg/L		11/17/2014	12:26	0.0029		KMH
RB for Metals by 200.7								
Antimony	<0.0039	mg/L	U	11/17/2014	12:22	0.0039		KMH
Arsenic	<0.0038	mg/L	U	11/17/2014	12:22	0.0038		KMH
Barium	<0.0002	mg/L	U	11/17/2014	12:22	0.0002		KMH
Beryllium	<0.00004	mg/L	U	11/17/2014	12:22	0.00004		KMH
Cadmium	<0.0004	mg/L	U	11/17/2014	12:22	0.0004		KMH
Calcium	<0.017	mg/L	U	11/17/2014	12:22	0.017		KMH
Chromium	<0.0007	mg/L	U	11/17/2014	12:22	0.0007		KMH
Cobalt	<0.0003	mg/L	U	11/17/2014	12:22	0.0003		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
RB for Metals by 200.7								
Copper	<0.0009	mg/L	U	11/17/2014	12:22	0.0009		KMH
Iron	<0.046	mg/L	U	11/17/2014	12:22	0.046		KMH
Lead	<0.0017	mg/L	U	11/17/2014	12:22	0.0017		KMH
Magnesium	<0.028	mg/L	U	11/17/2014	12:22	0.028		KMH
Nickel	0.00020	mg/L	I	11/17/2014	12:22	0.0002		KMH
Selenium	<0.0046	mg/L	U	11/17/2014	12:22	0.0046		KMH
Silver	<0.0007	mg/L	U	11/17/2014	12:22	0.0007		KMH
Sodium	<0.016	mg/L	U	11/17/2014	12:22	0.016		KMH
Thallium	<0.0016	mg/L	U	11/17/2014	12:22	0.0016		KMH
Tin	<0.0017	mg/L	U	11/17/2014	12:22	0.0017		KMH
Vanadium	<0.0005	mg/L	U	11/17/2014	12:22	0.0005		KMH
Zinc	<0.0029	mg/L	U	11/17/2014	12:22	0.0029		KMH
MSD Recovery for Metals by 200.7								
Antimony	86.6	%		11/17/2014	12:40	0.0039		KMH
Arsenic	94.8	%		11/17/2014	12:40	0.0038		KMH
Barium	96.8	%		11/17/2014	12:40	0.0002		KMH
Beryllium	98.4	%		11/17/2014	12:40	0.00004		KMH
Cadmium	101	%		11/17/2014	12:40	0.0004		KMH
Chromium	98.4	%		11/17/2014	12:40	0.0007		KMH
Cobalt	95.6	%		11/17/2014	12:40	0.0003		KMH
Copper	103	%		11/17/2014	12:40	0.0009		KMH
Iron	93.5	%		11/17/2014	12:40	0.046		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
MSD Recovery for Metals by 200.7								
Lead	94.8	%		11/17/2014	12:40	0.0017		KMH
Nickel	94.4	%		11/17/2014	12:40	0.0002		KMH
Selenium	101	%		11/17/2014	12:40	0.0046		KMH
Silver	104	%		11/17/2014	12:40	0.0007		KMH
Sodium	95.1	%		11/17/2014	12:40	0.016		KMH
Thallium	93.0	%		11/17/2014	12:40	0.0016		KMH
Tin	90.6	%		11/17/2014	12:40	0.0017		KMH
Vanadium	99.8	%		11/17/2014	12:40	0.0005		KMH
Zinc	96.6	%		11/17/2014	12:40	0.0029		KMH
MSD Result for Metals by 200.7								
Antimony	0.433	mg/L		11/17/2014	12:53	0.0039		KMH
Arsenic	0.474	mg/L		11/17/2014	12:53	0.0038		KMH
Barium	0.592	mg/L		11/17/2014	12:53	0.0002		KMH
Beryllium	0.494	mg/L		11/17/2014	12:53	0.00004		KMH
Cadmium	0.506	mg/L		11/17/2014	12:53	0.0004		KMH
Chromium	0.500	mg/L		11/17/2014	12:53	0.0007		KMH
Cobalt	0.491	mg/L		11/17/2014	12:53	0.0003		KMH
Copper	0.515	mg/L		11/17/2014	12:53	0.0009		KMH
Iron	17.9	mg/L		11/17/2014	12:53	0.046		KMH
Lead	0.474	mg/L		11/17/2014	12:53	0.0017		KMH
Nickel	0.486	mg/L		11/17/2014	12:53	0.0002		KMH
Selenium	0.506	mg/L		11/17/2014	12:53	0.0046		KMH

Batch Name: $ICPWATER-30828 **QA Sample ID:** AE62019

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
MSD Result for Metals by 200.7								
Silver	0.520	mg/L		11/17/2014	12:53	0.0007		KMH
Sodium	397	mg/L		11/17/2014	12:53	0.016		KMH
Thallium	0.465	mg/L		11/17/2014	12:53	0.0016		KMH
Tin	0.453	mg/L		11/17/2014	12:53	0.0017		KMH
Vanadium	0.523	mg/L		11/17/2014	12:53	0.0005		KMH
Zinc	0.494	mg/L		11/17/2014	12:53	0.0029		KMH

Batch Name: AMM-30801 **QA Sample ID:** AE62082

Samples AE59768 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Ammonia	42.9	mg/L	DF	11/25/2014	07:21	0.55		AMH
Sample Dup for Ammonia	44.9	mg/L	DF	11/25/2014	07:21	0.55		AMH
Dup Precision for Ammonia	4.56	%		11/25/2014	07:21			AMH
Amt Spiked for Ammonia	50.0	mg/L		11/25/2014	07:21	0.022		AMH
MS Result for Ammonia	97.8	mg/L	DF	11/25/2014	07:21	1.10		AMH
MS Recovery for Ammonia	110	%		11/25/2014	07:21			AMH
Cont Calb Rec for Ammonia	108	%		11/25/2014	07:21			AMH
Continuing Cal. Blank for Ammonia	<0.022	mg/L	U	11/25/2014	07:21	0.022		AMH
Method Blank for Ammonia	<0.022	mg/L	U	11/25/2014	07:21	0.022		AMH
Continuous Calibration for Ammonia	2.15	mg/L		11/25/2014	07:21	0.022		AMH
ICV for Ammonia	1.02	mg/L		11/25/2014	07:21	0.022		AMH
ICV Rec for Ammonia	102	%		11/25/2014	07:21			AMH

Batch Name: CLIC-30776 **QA Sample ID:** AE61262

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Chloride	1000	mg/L		11/20/2014	06:42	0.100		AC
Method Blank for Chloride	<0.100	mg/L	U	11/20/2014	06:42	0.100		AC
Cont. Blank for Chloride	<0.100	mg/L	U	11/20/2014	06:42	0.100		AC
Cont. Cal. for Chloride	204	mg/L		11/20/2014	06:42	0.100		AC
Cont Calb Rec for Chloride	102	%		11/20/2014	06:42			AC
Chloride by Ion Chromatography	245	mg/L	DF	11/20/2014	06:42	0.50		AC
Sample Dup for Chloride	248	mg/L	DF	11/20/2014	06:42	0.50		AC
ICV for Chloride	110	mg/L		11/20/2014	06:42	0.100		AC
Int Calb Rec for Chloride	110	%		11/20/2014	06:42			AC
Samp Dup Prec for Chloride	1.22	%		11/20/2014	06:42			AC
MS Recovery for Chloride	108	%		11/20/2014	06:42			AC
MS Result for Chloride	1320	mg/L	DF	11/20/2014	06:42	1.00		AC

Batch Name: NO2-30766 **QA Sample ID:** AE59768

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Nitrite	0.250	mg/L		11/12/2014	14:44	0.003		AMH
Method Blank for Nitrite	<0.003	mg/L	U	11/12/2014	14:44	0.003		AMH
CCB for Nitrite	<0.003	mg/L	U	11/12/2014	14:44	0.003		AMH
CCV for Nitrite	0.494	mg/L		11/12/2014	14:44	0.003		AMH
Cont Calb Rec for Nitrite as N	98.8	%		11/12/2014	14:44			AMH
Sample Dup for Nitrite	<0.003	mg/L	U	11/12/2014	14:44	0.003		AMH
ICV for Nitrite	0.244	mg/L		11/12/2014	14:44	0.003		AMH

Batch Name: NO2-30766 **QA Sample ID:** AE59768

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
ICV Rec for Nitrite	97.6	%		11/12/2014	14:44			AMH
Nitrite	<0.003	mg/L	U	11/12/2014	14:44	0.003		AMH
Dup Precision for Nitrite	PASSED	%		11/12/2014	14:44			AMH
MS Rec for Nitrite	92.4	%		11/12/2014	14:44			AMH
MS Result for Nitrite	0.231	mg/L		11/12/2014	14:44	0.003		AMH

Batch Name: TDS-30764 **QA Sample ID:** AE62016

Samples AE59768 AE59777 AE59778

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for TDS	<10.0	mg/L	U	11/09/2014	12:25	10.0		AMH
Sample Dup for TDS	4120	mg/L		11/09/2014	12:25	10.0		AMH
Initial Calibration for TDS	1000	mg/L		11/09/2014	12:25	10.0		AMH
Int Calb Conc for TDS	989	mg/L		11/09/2014	12:25	10.0		AMH
Int Calb Rec for TDS	101	%		11/09/2014	12:25			AMH
Samp Dup Precision for TDS	Pass	%		11/09/2014	12:26			AMH
Total Dissolved Solids	3960	mg/L		11/09/2014	12:25	10.0		AMH

Batch Name: HG-30751 **QA Sample ID:** AE59780

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Mercury Cold Vapor	2.00	ug/L		11/07/2014	14:55	0.034		AC
Method Blank for Mercury Cold Vapor	<0.034	ug/L	U	11/07/2014	14:55	0.034		AC
CCB for Mercury Cold Vapor	<0.034	ug/L	U	11/07/2014	14:55	0.034		AC
Continuous Calibration for Mercury Cold	2.51	ug/L		11/07/2014	14:55	0.034		AC

Batch Name: HG-30751 **QA Sample ID:** AE59780

Samples AE59768 AE59777 AE59778 AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
CCV Rec for Mercury	100	%		11/07/2014	14:55			AC
Mercury Cold Vapor	<0.034	ug/L	U	11/07/2014	14:55	0.034		AC
Initial Calibration for Mercury Cold Vap	2.54	ug/L		11/07/2014	14:55	0.034		AC
ICV Rec for Mercury	102	%		11/07/2014	14:55			AC
Lab Control for Mercury Cold Vapor	2.03	ug/L		11/07/2014	14:55	0.034		AC
LCS Rec for Mercury	102	%		11/07/2014	14:55			AC
MS Recovery for Mercury Cold Vapor	94.0	%		11/07/2014	14:55			AC
Reagent Blank for Mercury Cold Vapor	<0.034	ug/L	U	11/07/2014	14:55	0.034		AC
MSD Recovery for Mercury Cold Vapor	95.0	%		11/07/2014	14:55			AC
MS Result for Mercury Cold Vapor	1.88	ug/L		11/07/2014	14:55	0.034		AC
MSD Result for Mercury Cold Vapor	1.90	ug/L		11/07/2014	14:55	0.034		AC
MS/MSD Precision for Mercury Cold Vapor	1.06	%		11/07/2014	14:55			AC
ICV Rec for Hg	102	%		11/07/2014	14:56			AC
ICV for HG	2.54	ug/L		11/07/2014	14:55	0.034		AC

Batch Name: NOX-30951 **QA Sample ID:** AE62184

Samples AE59770 AE59774 AE59782

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for NOX	1.00	mg/L		12/10/2014	12:30	0.014		AMH
Method Blank for NOX	<0.014	mg/L	U	12/10/2014	12:30	0.014		AMH
CCB for NOX	<0.014	mg/L	U	12/10/2014	12:30	0.014		AMH
CCV for NOX	0.491	mg/L		12/10/2014	12:30	0.014		AMH
CCV Recovery for NOX	98.2	%		12/10/2014	12:30			AMH

Batch Name: NOX-30951 **QA Sample ID:** AE62184

Samples AE59770 AE59774 AE59782

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Sample Dup for NOX	0.560	mg/L	DF	12/10/2014	12:30	0.028		AMH
ICV for NOX	0.249	mg/L		12/10/2014	12:30	0.014		AMH
ICV Recovery for NOX	99.6	%		12/10/2014	12:30			AMH
Nitrate-Nitrite	0.554	mg/L	DF	12/10/2014	12:30	0.028		AMH
Dup Precision for NOX	1.08	%		12/10/2014	12:30			AMH
MS Rec for NOX	98.6	%		12/10/2014	12:30			AMH
Matrix Spike for NOX	1.54	mg/L	DF	12/10/2014	12:30	0.056		AMH

Batch Name: CLIC-30876 **QA Sample ID:** AE59770

Samples AE59770 AE59771 AE59782 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Chloride	100	mg/L		12/10/2014	08:22	0.100		AC
Method Blank for Chloride	<0.100	mg/L	U	12/10/2014	08:22	0.100		AC
Cont. Blank for Chloride	<0.100	mg/L	U	12/10/2014	08:22	0.100		AC
Cont. Cal. for Chloride	191	mg/L		12/10/2014	08:22	0.100		AC
Cont Calb Rec for Chloride	95.5	%		12/10/2014	08:22			AC
Chloride by Ion Chromatography	29.5	mg/L		12/10/2014	08:22	0.100		AC
Sample Dup for Chloride	31.1	mg/L		12/10/2014	08:22	0.100		AC
ICV for Chloride	104	mg/L		12/10/2014	08:22	0.100		AC
Int Calb Rec for Chloride	104	%		12/10/2014	08:22			AC
Samp Dup Prec for Chloride	5.28	%		12/10/2014	08:22			AC
MS Recovery for Chloride	90.5	%		12/10/2014	08:22			AC
MS Result for Chloride	120	mg/L		12/10/2014	08:22	0.100		AC

Batch Name: TLAA-30873 **QA Sample ID:** AE59812

Samples AE59770 AE59771 AE59772 AE59773 AE59774 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
CCB for Thallium by GFAAS	<0.0006	mg/L	U	11/27/2014	11:30	0.0006		AC
Continuous Calibration for Thallium by G	0.055	mg/L		11/27/2014	11:30	0.0006		AC
Cont Calb Rec for Thallium by GFAAS	110	%		11/27/2014	11:30			AC
MS Rec for Thallium by GFAAS	96.0	%		11/27/2014	11:30			AC
MSD Rec for Thallium by GFAAS	94.0	%		11/27/2014	11:30			AC
MS Result for Thallium by GFAAS	0.048	mg/L		11/27/2014	11:30	0.0006		AC
MSD Result for Thallium by GFAAS	0.047	mg/L		11/27/2014	11:30	0.0006		AC
MS/MSD Precision for Thallium by GFAAS	2.10	%		11/27/2014	11:30			AC
Thallium by GFAAS	<0.0006	mg/L	U	11/27/2014	11:30	0.0006		AC

Batch Name: HG-30860 **QA Sample ID:** AE59782

Samples AE59770 AE59771 AE59782 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Mercury Cold Vapor	2.00	ug/L		11/30/2014	11:57	0.034		AC
Method Blank for Mercury Cold Vapor	<0.034	ug/L	U	11/30/2014	11:57	0.034		AC
CCB for Mercury Cold Vapor	<0.034	ug/L	U	11/30/2014	11:57	0.034		AC
Continuous Calibration for Mercury Cold	2.55	ug/L		11/30/2014	11:57	0.034		AC
CCV Rec for Mercury	102	%		11/30/2014	11:57			AC
Mercury Cold Vapor	<0.034	ug/L	U	11/30/2014	11:57	0.034		AC
Initial Calibration for Mercury Cold Vap	2.65	ug/L		11/30/2014	11:57	0.034		AC
ICV Rec for Mercury	106	%		11/30/2014	11:57			AC
Lab Control for Mercury Cold Vapor	2.06	ug/L		11/30/2014	11:57	0.034		AC
LCS Rec for Mercury	103	%		11/30/2014	11:57			AC

Batch Name: HG-30860 **QA Sample ID:** AE59782

Samples AE59770 AE59771 AE59782 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
MS Recovery for Mercury Cold Vapor	100	%		11/30/2014	11:57			AC
Reagent Blank for Mercury Cold Vapor	<0.034	ug/L	U	11/30/2014	11:57	0.034		AC
MSD Recovery for Mercury Cold Vapor	100	%		11/30/2014	11:57			AC
MS Result for Mercury Cold Vapor	2.01	ug/L		11/30/2014	11:57	0.034		AC
MSD Result for Mercury Cold Vapor	2.01	ug/L		11/30/2014	11:57	0.034		AC
MS/MSD Precision for Mercury Cold Vapor	0.00	%		11/30/2014	11:57			AC
ICV Rec for Hg	103	%		11/30/2014	12:00			AC
ICV for HG	2.57	ug/L		11/30/2014	11:57	0.034		AC

Batch Name: ASAA-30857 **QA Sample ID:** AE59770

Samples AE59770 AE59771 AE59772 AE59773 AE59774 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	0.005	mg/L	J	12/05/2014	15:59	0.0004		AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
CCB for Arsenic by GFAAS	<0.0004	mg/L	U	12/05/2014	15:59	0.0004		AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
CCV for Arsenic by GFAAS	0.054	mg/L		12/05/2014	15:59	0.0004		AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
CCV Rec for Arsenic by GFAAS	108	%		12/05/2014	15:59			AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
LCS for Arsenic by GFAAS	0.054	mg/L		12/05/2014	15:59	0.0004		AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
LCS Rec for Arsenic by GFAAS	108	%		12/05/2014	15:59			AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
MS Rec for Arsenic by GFAAS	130	%		12/05/2014	15:59			AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
Reagent Blank for Arsenic by GFAAS	<0.0004	mg/L	U	12/05/2014	15:59	0.0004		AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
MSD Rec for Arsenic by GFAAS	130	%		12/05/2014	15:59			AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
MS Result for Arsenic by GFAAS	0.070	mg/L		12/05/2014	15:59	0.0004		AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							

Batch Name: ASAA-30857 **QA Sample ID:** AE59770

Samples AE59770 AE59771 AE59772 AE59773 AE59774 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
MSD Result for Arsenic by GFAAS	0.070	mg/L		12/05/2014	15:59	0.0004		AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							
MS/MSD Prec for Arsenic by GFAAS	0.00	%		12/05/2014	15:59			AC
Analysis Comments:	J Qualifier: Matrix spike sample failed to meet established criteria for accuracy evaluation (high recovery). After Post Digestion Spike recovery continue high.							

Batch Name: TDS-30848 **QA Sample ID:** AE59770

Samples AE59770 AE59771

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for TDS	<10.0	mg/L	U	11/25/2014	14:14	10.0		LW
Sample Dup for TDS	454	mg/L		11/25/2014	14:14	10.0		LW
Initial Calibration for TDS	989	mg/L		11/25/2014	14:14	10.0		LW
Int Calb Conc for TDS	946	mg/L		11/25/2014	14:14	10.0		LW
Int Calb Rec for TDS	105	%		11/25/2014	14:14			LW
Samp Dup Precision for TDS	Pass	%		11/25/2014	14:14			LW
Total Dissolved Solids	448	mg/L		11/25/2014	14:14	10.0		LW

Batch Name: NO2-30842 **QA Sample ID:** AE59782

Samples AE59770 AE59771 AE59782 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Nitrite	0.250	mg/L		11/24/2014	14:54	0.003		AMH
Method Blank for Nitrite	<0.003	mg/L	U	11/24/2014	14:54	0.003		AMH
CCB for Nitrite	<0.003	mg/L	U	11/24/2014	14:54	0.003		AMH
CCV for Nitrite	0.498	mg/L		11/24/2014	14:54	0.003		AMH
Cont Calb Rec for Nitrite as N	99.6	%		11/24/2014	14:54			AMH
Sample Dup for Nitrite	<0.003	mg/L	U	11/24/2014	14:54	0.003		AMH
ICV for Nitrite	0.252	mg/L		11/24/2014	14:54	0.003		AMH

Batch Name: NO2-30842 **QA Sample ID:** AE59782

Samples AE59770 AE59771 AE59782 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
ICV Rec for Nitrite	101	%		11/24/2014	14:54			AMH
Nitrite	<0.003	mg/L	U	11/24/2014	14:54	0.003		AMH
Dup Precision for Nitrite	PASSED	%		11/24/2014	14:54			AMH
MS Rec for Nitrite	90.0	%		11/24/2014	14:54			AMH
MS Result for Nitrite	0.225	mg/L		11/24/2014	14:54	0.003		AMH

Batch Name: NOX-30972 **QA Sample ID:** AE59772

Samples AE59772 AE59775 AE59776

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for NOX	<0.014	mg/L	U	12/12/2014	14:32	0.014		AC
Analysis Comments:	J Qualifier: method of standard addition technique performed for sample value determination due to matrix interference.							
CCB for NOX	<0.014	mg/L	U	12/12/2014	14:32	0.014		AC
Analysis Comments:	J Qualifier: method of standard addition technique performed for sample value determination due to matrix interference.							
CCV for NOX	0.507	mg/L		12/12/2014	14:32	0.014		AC
Analysis Comments:	J Qualifier: method of standard addition technique performed for sample value determination due to matrix interference.							
CCV Recovery for NOX	101	%		12/12/2014	14:32			AC
Analysis Comments:	J Qualifier: method of standard addition technique performed for sample value determination due to matrix interference.							
ICV for NOX	0.263	mg/L		12/12/2014	14:32	0.014		AC
Analysis Comments:	J Qualifier: method of standard addition technique performed for sample value determination due to matrix interference.							
ICV Recovery for NOX	105	%		12/12/2014	14:32			AC
Analysis Comments:	J Qualifier: method of standard addition technique performed for sample value determination due to matrix interference.							
Nitrate-Nitrite	5.97	mg/L	DF,J	12/12/2014	14:32	0.14		AC
Analysis Comments:	J Qualifier: method of standard addition technique performed for sample value determination due to matrix interference.							

Batch Name: HG-30861 **QA Sample ID:** AE59772

Samples AE59772 AE59773 AE59774

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Mercury Cold Vapor	2.00	ug/L		11/30/2014	11:57	0.034		AC
CCB for Mercury Cold Vapor	<0.034	ug/L	U	11/30/2014	11:57	0.034		AC
Continuous Calibration for Mercury Cold	2.47	ug/L		11/30/2014	11:57	0.034		AC

Batch Name: HG-30861 **QA Sample ID:** AE59772

Samples AE59772 AE59773 AE59774

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
CCV Rec for Mercury	98.8	%		11/30/2014	11:57			AC
Mercury Cold Vapor	<0.034	ug/L	U	11/30/2014	11:57	0.034		AC
MS Recovery for Mercury Cold Vapor	98.0	%		11/30/2014	11:57			AC
MSD Recovery for Mercury Cold Vapor	98.0	%		11/30/2014	11:57			AC
MS Result for Mercury Cold Vapor	1.96	ug/L		11/30/2014	11:57	0.034		AC
MSD Result for Mercury Cold Vapor	1.96	ug/L		11/30/2014	11:57	0.034		AC
MS/MSD Precision for Mercury Cold Vapor	0.00	%		11/30/2014	11:57			AC

Batch Name: NO2-30852 **QA Sample ID:** AE59772

Samples AE59772 AE59773 AE59774

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for Nitrite	0.250	mg/L		11/23/2014	11:11	0.003		AMH
Method Blank for Nitrite	<0.003	mg/L	U	11/23/2014	11:11	0.003		AMH
CCB for Nitrite	<0.003	mg/L	U	11/23/2014	11:11	0.003		AMH
CCV for Nitrite	0.499	mg/L		11/23/2014	11:11	0.003		AMH
Cont Calb Rec for Nitrite as N	99.8	%		11/23/2014	11:11			AMH
Sample Dup for Nitrite	<0.003	mg/L	U	11/23/2014	11:11	0.003		AMH
ICV for Nitrite	0.247	mg/L		11/23/2014	11:11	0.003		AMH
ICV Rec for Nitrite	98.8	%		11/23/2014	11:11			AMH
Nitrite	<0.003	mg/L	U	11/23/2014	11:11	0.003		AMH
Dup Precision for Nitrite	PASSED	%		11/23/2014	11:11			AMH
MS Rec for Nitrite	94.4	%		11/23/2014	11:11			AMH
MS Result for Nitrite	0.236	mg/L		11/23/2014	11:11	0.003		AMH

Batch Name: NOX-30969 **QA Sample ID:** AE62410

Samples AE59773

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for NOX	<0.014	mg/L	U	12/12/2014	13:52	0.014		AMH
CCB for NOX	<0.014	mg/L	U	12/12/2014	13:52	0.014		AMH
CCV for NOX	0.489	mg/L		12/12/2014	13:52	0.014		AMH
CCV Recovery for NOX	9.78	%		12/12/2014	13:52			AMH
ICV for NOX	0.242	mg/L		12/12/2014	13:52	0.014		AMH
ICV Recovery for NOX	9.68	%		12/12/2014	13:52			AMH
Nitrate-Nitrite	1.01	mg/L	DF,J	12/12/2014	13:52	0.07		AMH

Batch Name: AMM-30802 **QA Sample ID:** AE62090

Samples AE59777 AE59778

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Ammonia	41.9	mg/L	DF	11/25/2014	07:21	0.55		AMH
Sample Dup for Ammonia	40.6	mg/L	DF	11/25/2014	07:21	0.55		AMH
Dup Precision for Ammonia	3.15	%		11/25/2014	07:21			AMH
Amt Spiked for Ammonia	50.0	mg/L		11/25/2014	07:21	0.022		AMH
MS Result for Ammonia	95.0	mg/L	DF	11/25/2014	07:21	1.10		AMH
MS Recovery for Ammonia	106	%		11/25/2014	07:21			AMH
Cont Calb Rec for Ammonia	106	%		11/25/2014	07:21			AMH
Continuing Cal. Blank for Ammonia	<0.022	mg/L	U	11/25/2014	07:21	0.022		AMH
Continuous Calibration for Ammonia	2.13	mg/L		11/25/2014	07:21	0.022		AMH

Batch Name: NOX-30765 **QA Sample ID:** AE59778

Samples AE59778

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst

Batch Name: NOX-30765 **QA Sample ID:** AE59778

Samples AE59778

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Amt Spiked for NOX	2.50	mg/L		11/10/2014	10:59	0.014		AMH
Method Blank for NOX	<0.014	mg/L	U	11/10/2014	10:59	0.014		AMH
CCB for NOX	<0.014	mg/L	U	11/10/2014	10:59	0.014		AMH
CCV for NOX	4.63	mg/L		11/10/2014	10:59	0.014		AMH
CCV Recovery for NOX	92.6	%		11/10/2014	10:59			AMH
Sample Dup for NOX	0.937	mg/L		11/10/2014	10:59	0.014		AMH
ICV for NOX	2.44	mg/L		11/10/2014	10:59	0.014		AMH
ICV Recovery for NOX	97.6	%		11/10/2014	10:59			AMH
Nitrate-Nitrite	0.996	mg/L		11/10/2014	10:59	0.014		AMH
Dup Precision for NOX	6.10	%		11/10/2014	10:59			AMH
MS Rec for NOX	110	%		11/10/2014	10:59			AMH
Matrix Spike for NOX	3.74	mg/L		11/10/2014	10:59	0.014		AMH

Batch Name: TDS-30785 **QA Sample ID:** AE59779

Samples AE59779 AE59780 AE59781

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for TDS	<10.0	mg/L	U	11/12/2014	15:20	10.0		LW
Sample Dup for TDS	245	mg/L		11/12/2014	15:20	10.0		LW
Initial Calibration for TDS	991	mg/L		11/12/2014	15:20	10.0		LW
Int Calb Conc for TDS	989	mg/L		11/12/2014	15:20	10.0		LW
Int Calb Rec for TDS	100	%		11/12/2014	15:20			LW
Samp Dup Precision for TDS	Pass	%		11/12/2014	15:20			LW
Total Dissolved Solids	235	mg/L		11/12/2014	15:20	10.0		LW

Batch Name: AMM-30880 **QA Sample ID:** AE59782

Samples AE59782

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Ammonia	0.745	mg/L		11/26/2014	12:14	0.022		AC
Sample Dup for Ammonia	0.776	mg/L		11/26/2014	12:14	0.022		AC
Dup Precision for Ammonia	4.08	%		11/26/2014	12:14			AC
Amt Spiked for Ammonia	1.00	mg/L		11/26/2014	12:14	0.022		AC
MS Result for Ammonia	1.79	mg/L		11/26/2014	12:14	0.022		AC
MS Recovery for Ammonia	104	%		11/26/2014	12:14			AC
Cont Calb Rec for Ammonia	102	%		11/26/2014	12:14			AC
Continuing Cal. Blank for Ammonia	<0.022	mg/L	U	11/26/2014	12:14	0.022		AC
Method Blank for Ammonia	<0.022	mg/L	U	11/26/2014	12:14	0.022		AC
Continuous Calibration for Ammonia	2.05	mg/L		11/26/2014	12:14	0.022		AC
ICV for Ammonia	1.02	mg/L		11/26/2014	12:14	0.022		AC
ICV Rec for Ammonia	102	%		11/26/2014	12:14			AC

Batch Name: ASAA-30855 **QA Sample ID:** AE59807

Samples AE59782 AE59783

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Arsenic by GFAAS	0.002	mg/L	J	12/05/2014	15:46	0.0004		AC
Method Blank for Arsenic by GFAAS	<0.0004	mg/L	U	12/05/2014	15:46	0.0004		AC
CCB for Arsenic by GFAAS	<0.0004	mg/L	U	12/05/2014	15:46	0.0004		AC
CCV for Arsenic by GFAAS	0.053	mg/L		12/05/2014	15:46	0.0004		AC
CCV Rec for Arsenic by GFAAS	106	%		12/05/2014	15:46			AC
ICV for Arsenic by GFAAS	0.052	mg/L		12/05/2014	15:46	0.0004		AC
ICV Rec for Arsenic by GFAAS	104	%		12/05/2014	15:46			AC

Batch Name: ASAA-30855 **QA Sample ID:** AE59807

Samples AE59782 AE59783

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
LCS for Arsenic by GFAAS	0.053	mg/L		12/05/2014	15:46	0.0004		AC
LCS Rec for Arsenic by GFAAS	106	%		12/05/2014	15:46			AC
MS Rec for Arsenic by GFAAS	122	%		12/05/2014	15:46			AC
Reagent Blank for Arsenic by GFAAS	<0.0004	mg/L	U	12/05/2014	15:46	0.0004		AC
MSD Rec for Arsenic by GFAAS	122	%		12/05/2014	15:46			AC
MS Result for Arsenic by GFAAS	0.063	mg/L		12/05/2014	15:46	0.0004		AC
MSD Result for Arsenic by GFAAS	0.063	mg/L		12/05/2014	15:46	0.0004		AC
MS/MSD Prec for Arsenic by GFAAS	0.00	%		12/05/2014	15:46			AC

Batch Name: TDS-30837 **QA Sample ID:** AE59782

Samples AE59782 AE59783 AE59784

Parameter	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Method Blank for TDS	<10.0	mg/L	U	11/20/2014	13:15	10.0		LW
Sample Dup for TDS	502	mg/L		11/20/2014	13:15	10.0		LW
Initial Calibration for TDS	1000	mg/L		11/20/2014	13:15	10.0		LW
Int Calb Conc for TDS	989	mg/L		11/20/2014	13:15	10.0		LW
Int Calb Rec for TDS	101	%		11/20/2014	13:15			LW
Samp Dup Precision for TDS	Pass	%		11/20/2014	13:16			LW
Total Dissolved Solids	500	mg/L		11/20/2014	13:15	10.0		LW

DATA QUALIFIER CODES

A	Value reported is the arithmetic mean (average) of two or more determinations.
B	Results based upon colony counts outside the acceptable range. This code applies to microbiological tests, specifically to membrane filter colony counts, and is used only if the colony count is generated from a plate in which the total number of coliform colonies exceeds the method indicated ideal ranges.
C	Analysis performed by contract laboratory.
DF	Dilution factor applied to the reported data and MDL/PQL adjusted.
E	Indicates that extra samples were taken at composite stations.
G	Indicates that the analyte was detected at or above the MDL in both the sample and associated field blk, equipment blk, or trip blk, and the value of the 10 times the blank value was equal to or greater than the associated sample value. The value in the blank shall not be subtracted from associated samples.
H	Value based on field kit determination; results may not be accurate.
I	The reported value is greater than or equal to the laboratory method detection limit but less than the laboratory practical quanitation limit.
J	*Estimated value.
K	Indicates off scale low and the actual value is known to be less than the value listed. Used if the value is less than the lowest calibration standard when the calibration curve is known to be non-linear. Can also be used if the actual value is known to be less than the reported value based on sample size,dilution.
L	Off scale high and the actual value is known to be greater than the reported value. Used when the sample concentration of the analyte exceeds the linear range or highest calibration standard and the calibration curve is known to exhibit a negative deflection.
M	To be used for chemical analysis: the presence of the analyte is verified but not quantified and the actual value is less than the value reported.
N	Presumptive evidence of presence of compound. To be used when the compound has been determined by TIC (mass spectral library search) or if presence of the compound cannot be confirmed using alternate procedures
O	Indicates analysis was lost or not performed.
Q	Analyzed after holding time expired.
R	Significant rain in the past 24 hours.
T	Reported value is less than the laboratory method detection limit. The value is reported for informational purposes only and is not used in statistical analysis.
U	Indicated that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank, and the value of the 10 times the blank value was equal to or greater than the associated sample value. Note: unless specified by the method, the value in the blank shall not be subtracted from associated samples.
X	Time of collection not provided.
Y	Laboratory analysis was performed on sample, which was unpreserved or improperly preserved, therefore, the data may be inaccurate.
Z	Too many colonies present. (TNTC)
*	Analysis was not performed due to interference.
#	No sample received.
?	Data are rejected and should not be used since some or all quality control data fall outside limits and the presence or absence of the analyte cannot be determined from the data.
"-"	No data reported.
!	Data deviate from historically established concentration ranges.

***Note**

A "J" value shall not be used as a substitute for G, K,L,M,T,V or Y, however, if additional reasons exist for identifying the value as an estimate (e.g.,matrix spiked failed to meet acceptance criteria),the "J" code may be added to a G, K,L,M,T,U, V,or Y.

Examples of situations in which code "J" must be reported include:

+ where a quality control item associated with the reported value(s) failed to meet the established quality control criteria (the specific failure must be identified).
+ when the sample matrix interferes with the ability to make any accurate determination
+ when data is questionable due to improper laboratory or field protocols
+ when the analyte was detected at or above the method detection limits (MDL) in a blank other than the method blank (such as calibration blank) or field-generated blanks and the value of 10 times the blank value was equal to or greater than the associated sample
+ when the field or laboratory calibrations or calibration verifications did not meet calibration acceptance criteria.

All microbiology results greater than method detection limit are reported as verified, where applicable, unless otherwise noted.

CHAIN OF CUSTODY RECORD

Sampler Signature: [signature]

Print Name: DAVID E Wells

10/8/2014 1:09:24 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-24-14	1032	AE59767	GW	Lena Road Monitoring Well BGW-1	LENABGW-1	250 mL HDPE unpres. Grab/Comp.	1	✓	NO3IC
11-24-14	1032	AE59767	GW	Lena Road Monitoring Well BGW-1	LENABGW-1	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	$ICPWATER ASAA TLAA
11-24-14	1032	AE59767	GW	Lena Road Monitoring Well BGW-1	LENABGW-1	500 mL HDPE w/HNO3 Grab/Comp.	1	<2	HG
11-24-14	1032	AE59767	GW	Lena Road Monitoring Well BGW-1	LENABGW-1	250 mL HDPE unpres. Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	[signature]	David E Wells	MCUD	11-24-14	1133
Received By:	[signature]	Elizabeth Mayernick	MCUD Central Lab	11-24-14	1133
Relinquished By:					
Received By:					

Comments:

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E WELLS

10/8/2014 1:09:24 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-24-14	1032	AE59767	GW	Lena Road Monitoring Well BGW-1	LENABGW-1	40 ml glass Grab	3	✓	$25818011-CONTRACT
11-24-14	1032	AE59767	GW	Lena Road Monitoring Well BGW-1	LENABGW-1	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-24-14	1032	AE59767	GW	Lena Road Monitoring Well BGW-1	LENABGW-1	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-24-14	1032	AE59767	GW	Lena Road Monitoring Well BGW-1	LENABGW-1	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E WELLS	MCUD	11-24-14	1133
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-24-14	1133
Relinquished By:					
Received By:					

Comments:

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2727.755 / Long: 8226.386)	
WELL NO: BG 1	LAB SAMPLE ID: AE 59767	DATE: 11-24-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: feet to 20.3 feet	STATIC DEPTH TO WATER (feet): 9.4	PURGE PUMP TYPE OR BAILER: PP 59767

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.3 feet - 9.4) 10.9 0.16 = 1.744 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.744 + (0.0026 X 35 feet) + 0.132 = 1.967 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 1.967 / .25 = 7.868 Total Purge Time in minutes

Time to purge one (1) gallon = 4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1032	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
1026	2.00	2.00	.25	9.9	6.2	25.1	497	1.12	3.86	Clear	None	391
1029	.75	2.75	.25	10.0	6.1	25.1	500	1.26	3.66	Clear	None	388
1032	.75	3.50	.25	10.0	6.1	25.2	506	0.85	3.48	Clear	None	387

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 8" = 2.62; ; 10" = 4.10; 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: PWells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1032	SAMPLING ENDED AT: 1037
PUMP OR TUBING DEPTH IN WELL (feet): 11	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:10:02 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-5-14	0920	AE59768	GW	Lena Road Monitoring Well GW-1	LENAGW-1	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-5-14	0920	AE59768	GW	Lena Road Monitoring Well GW-1	LENAGW-1	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-5-14	0920	AE59768	GW	Lena Road Monitoring Well GW-1	LENAGW-1	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	✓	AMM
11-5-14	0920	AE59768	GW	Lena Road Monitoring Well GW-1	LENAGW-1	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-5-14	1131
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-5-14	1131
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: David E Wells

10/8/2014 1:10:02 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-5-14	0920	AE59768	GW	Lena Road Monitoring Well GW-1	LENAGW-1	250 mL HDPE unpres., Grab/Comp.	1		NO3IC
11-5-14	0920	AE59768	GW	Lena Road Monitoring Well GW-1	LENAGW-1	500 mL HDPE w/HNO3, Grab/Comp.	1	<2	$ICPWATER ASAA TLAA
11-5-14	0920	AE59768	GW	Lena Road Monitoring Well GW-1	LENAGW-1	500 mL HDPE w/HNO3, Grab/Comp.	1	<2	HG
11-5-14	0920	AE59768	GW	Lena Road Monitoring Well GW-1	LENAGW-1	250 mL HDPE unpres., Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	David E Wells	MCUD	11-5-14	1131
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-5-14	1131
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2728.413 / Long: 8226.473)	
WELL NO: GW 01	LAB SAMPLE ID: AE 59768	DATE: ~~10-30-14~~ 11-5-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to 19.5 feet	STATIC DEPTH TO WATER (feet): 6.2	PURGE PUMP TYPE OR BAILER: PP 57867

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (19.5 feet - 6.2) 13.3 x 0.16 = 2.128 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.128 + (0.0026 X 35 feet) + 0.132 = 2.351 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 2.351 / .25 = 9.4 min Total Purge Time in minutes

Time to purge one (1) gallon = 4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0904 11-5-14	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0914	2.50	2.50	.25	6.6	6.0	24.4	740	2.30	6.14	Cloudy	Slight	47.7
0917	.75	3.25	.25	6.7	5.9	24.4	730	1.63	6.02	Cloudy	Slight	44.8
0920	.75	4.00	.25	6.7	5.8	24.5	720	1.42	5.88	Cloudy	Slight	47.0

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 8" = 2.62; ; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0923
PUMP OR TUBING DEPTH IN WELL (feet): 8.0	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:18:49 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-5-14	0953	AE59777	GW	Lena Road Monitoring Well GW-2	LENAGW-2	250 mL HDPE unpres., Grab/Comp.	1	✓	NO3IC
11-5-14	0953	AE59777	GW	Lena Road Monitoring Well GW-2	LENAGW-2	500 mL HDPE w/HNO3, Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-5-14	0953	AE59777	GW	Lena Road Monitoring Well GW-2	LENAGW-2	500 mL HDPE w/HNO3, Grab/Comp.	1	<2	HG
11-5-14	0953	AE59777	GW	Lena Road Monitoring Well GW-2	LENAGW-2	250 mL HDPE unpres., Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-5-14	1131
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-5-14	1131
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:18:49 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-5-14	0953	AE59777	GW	Lena Road Monitoring Well GW-2	LENAGW-2	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-5-14	0953	AE59777	GW	Lena Road Monitoring Well GW-2	LENAGW-2	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-5-14	0953	AE59777	GW	Lena Road Monitoring Well GW-2	LENAGW-2	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-5-14	0953	AE59777	GW	Lena Road Monitoring Well GW-2	LENAGW-2	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-5-14	1131
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-5-14	1131
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITELOCATION: (Lat: 2728.415 / Long: 8226.652)	
WELL NO: GW 02	LAB SAMPLE ID: AE 59777	DATE: 11-5-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to 19.4 feet	STATIC DEPTH TO WATER (feet): 8.3	PURGE PUMP TYPE OR BAILER: PP 57967

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (18.4 feet - 8.3) 11.1 x 0.16 = 1.76 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

1.726 + .091 + (0.0026 X 35 feet) + 0.132 = 1.999 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 1.999 / .29 = 6.89 min 10 Total Purge Time in minutes

Time to purge one (1) gallon = 3.5 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0940	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 3.77

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0947	2.03	2.03	.29	8.8	5.4	25.1	746	1.53	7.10	Cloudy	None	-30.1
0950	.87	2.90	.29	8.8	5.4	25.2	753	1.43	6.94	Cloudy	None	-30.2
0953	.87	3.77	.29	8.8	5.4	25.2	755	1.37	6.88	Cloudy	None	-25.1

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 8" = 2.62; ; 10" = 4.10; 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: DWell S	SAMPLER(S) SIGNATURE(S): David Ellis	SAMPLING INITIATED AT: 0953	SAMPLING ENDED AT: 0957
PUMP OR TUBING DEPTH IN WELL (feet): 9.8	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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

CHAIN OF CUSTODY RECORD

Sampler Signature: Paul Ellis

Print Name: David Wells

10/8/2014 1:19:16 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-5-14	1028	AE59778	GW	Lena Road Monitoring Well GW-3	LENAGW-3	250 mL HDPE unpres. Grab/Comp.	1	✓	NO3IC
11-5-14	1028	AE59778	GW	Lena Road Monitoring Well GW-3	LENAGW-3	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-5-14	1028	AE59778	GW	Lena Road Monitoring Well GW-3	LENAGW-3	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-5-14	1028	AE59778	GW	Lena Road Monitoring Well GW-3	LENAGW-3	250 mL HDPE unpres. Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	Paul Ellis	David Wells	MCUD	11-5-14	1131
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-5-14	1131
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: [signature]

Print Name: David E Wells

10/8/2014 1:19:16 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-5-14	1028	AE59778	GW	Lena Road Monitoring Well GW-3	LENAGW-3	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-5-14	1028	AE59778	GW	Lena Road Monitoring Well GW-3	LENAGW-3	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-5-14	1028	AE59778	GW	Lena Road Monitoring Well GW-3	LENAGW-3	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-5-14	1028	AE59778	GW	Lena Road Monitoring Well GW-3	LENAGW-3	500 mL HDPE unpreserved; Grab/Comp.	1	—	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	[signature]	David E Wells	MCUD	11-5-14	1131
Received By:	[signature]	Elizabeth Mayernick	MCUD Central Lab	11-5-14	1131
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITELOCATION: (Lat: 2728.381 / Long: 8226.791)	
WELL NO: GW 03	LAB SAMPLE ID: AE 59728	DATE: 11-5-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to 19.6 feet	STATIC DEPTH TO WATER (feet): 6.6	PURGE PUMP TYPE OR BAILER: BP 579 67

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (19.6 feet - 6.6) 13 x 0.16 = 2.02 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.08 + (0.0026 X 35 feet) + 0.132 = 2.303 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 2.303 / .27 = 8.52 min Total Purge Time in minutes

Time to purge one (1) gallon = 3 1/4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1013	PURGING ENDED AT: 1028	TOTAL VOLUME PURGED (gallons): 4.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
1022	2.43	2.43	.27	7.2	5.3	25.6	464	1.14	4.61	Yellow	None	77.6
1025	.81	3.24	.27	7.3	5.3	25.6	477	1.03	4.40	Yellow	None	85.0
1028	.81	4.05	.27	7.3	5.2	25.6	490	0.93	4.31	Yellow	None	75.1

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 8" = 2.62; 10" = 4.10; 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: DUNELLS	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1028	SAMPLING ENDED AT: 1034
PUMP OR TUBING DEPTH IN WELL (feet): 8-5	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:19:36 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-6-14	0849	AE59779	GW	Lena Road Monitoring Well GW-4	LENAGW-4	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-6-14	0849	AE59779	GW	Lena Road Monitoring Well GW-4	LENAGW-4	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-6-14	0849	AE59779	GW	Lena Road Monitoring Well GW-4	LENAGW-4	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	< 2	AMM
11-6-14	0849	AE59779	GW	Lena Road Monitoring Well GW-4	LENAGW-4	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-6-14	1055
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-6-14	1055
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:19:36 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-6-14	0849	AE59779	GW	Lena Road Monitoring Well GW-4	LENAGW-4	250 mL HDPE unpres.; Grab/Comp.	1	✓	NO3IC
11-6-14	0849	AE59779	GW	Lena Road Monitoring Well GW-4	LENAGW-4	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-6-14	0849	AE59779	GW	Lena Road Monitoring Well GW-4	LENAGW-4	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-6-14	0849	AE59779	GW	Lena Road Monitoring Well GW-4	LENAGW-4	250 mL HDPE unpres.; Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-6-14	1055
Received By:	[illegible]	Elizabeth Mayernick	MCUD central lab	11-6-14	1055
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2728.388 / Long: 8226.881)	
WELL NO: GW 04	LAB SAMPLE ID: AE 59279	DATE: 11-6-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to 19.6 feet	STATIC DEPTH TO WATER (feet): 8.6	PURGE PUMP TYPE OR BAILER: PP 07967

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (19.6 feet - 8.6) 11 x 0.16 = 1.76 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

1.76 + (0.0026 X 35 feet) + 0.132 = 1.983 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 1.983/.25 = 7.9 Total Purge Time In minutes

Time to purge one (1) gallon = 4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16	PURGING INITIATED AT: 0835	PURGING ENDED AT: 0849	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0843	2.00	2.00	.25	9.1	5.7	25.0	372	1.88	6.14	yellow	None	170
0846	.75	2.75	.25	9.2	5.5	25.1	370	1.55	6.06	yellow	None	163
0849	.75	3.50	.25	9.2	5.5	25.1	381	1.38	5.88	yellow	None	155

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 8" = 2.62; ; 10" = 4.10; 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: Dwells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0849	SAMPLING ENDED AT: 0854
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:19:57 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-6-14	0925	AE59780	GW	Lena Road Monitoring Well GW-5	LENAGW-5	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-6-14	0925	AE59780	GW	Lena Road Monitoring Well GW-5	LENAGW-5	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-6-14	0925	AE59780	GW	Lena Road Monitoring Well GW-5	LENAGW-5	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-6-14	0925	AE59780	GW	Lena Road Monitoring Well GW-5	LENAGW-5	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-6-14	1055
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-6-14	1055
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:19:57 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-6-14	0925	AE59780	GW	Lena Road Monitoring Well GW-5	LENAGW-5	250 mL HDPE unpres., Grab/Comp.	1	✓	NO3IC
11-6-14	0925	AE59780	GW	Lena Road Monitoring Well GW-5	LENAGW-5	500 mL HDPE w/HNO3, Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-6-14	0925	AE59780	GW	Lena Road Monitoring Well GW-5	LENAGW-5	500 mL HDPE w/HNO3, Grab/Comp.	1	<2	HG
11-6-14	0925	AE59780	GW	Lena Road Monitoring Well GW-5	LENAGW-5	250 mL HDPE unpres., Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-6-14	1055
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-6-14	1055
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2728.390 / Long: 8227.973)	
WELL NO: GW 05	LAB SAMPLE ID: AE 59780	DATE: 11-6-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to 19.5 feet	STATIC DEPTH TO WATER (feet): 8.8	PURGE PUMP TYPE OR BAILER: PP 57967

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (19.5 feet - 8.8)10.7x 0.16 = 1.712 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.712 + (0.0026 X 35 feet) + 0.132 = 1.935 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 1.935 / .22 = 8.79 MIN Total Purge Time in minutes

Time to purge one (1) gallon = _____minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0910	PURGING ENDED AT: 0925	TOTAL VOLUME PURGED (gallons): 3.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0919	.198	1.98	.22	9.3	5.5	26.3	628	0.98	4.02	Slight	None	35.3
0922	.66	2.64	.22	9.3	5.4	26.3	643	0.53	3.88	Slight	None	25.5
0925	.66	3.30	.22	9.3	5.4	26.3	651	0.91	3.74	Slight	None	22.7

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 8" = 2.62; ; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): David Ellis	SAMPLING INITIATED AT: 0925	SAMPLING ENDED AT: 0930
PUMP OR TUBING DEPTH IN WELL (feet): 10.5	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:20:17 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-6-14	1002	AE59781	GW	Lena Road Monitoring Well GW-6	LENAGW-6	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-6-14	1002	AE59781	GW	Lena Road Monitoring Well GW-6	LENAGW-6	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-6-14	1002	AE59781	GW	Lena Road Monitoring Well GW-6	LENAGW-6	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-6-14	1002	AE59781	GW	Lena Road Monitoring Well GW-6	LENAGW-6	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-6-14	1055
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-6-14	1055
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:20:17 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-6-14	1002	AE59781	GW	Lena Road Monitoring Well GW-6	LENAGW-6	250 mL HDPE unpres.; Grab/Comp.	1	✓	NO3IC
11-6-14	1002	AE59781	GW	Lena Road Monitoring Well GW-6	LENAGW-6	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	$ICPWATER ASAA TLAA
11-6-14	1002	AE59781	GW	Lena Road Monitoring Well GW-6	LENAGW-6	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-6-14	1002	AE59781	GW	Lena Road Monitoring Well GW-6	LENAGW-6	250 mL HDPE unpres.; Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-6-14	1058
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-6-14	1055
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2728.391 / Long: 8227.068)	
WELL NO: GW 06	LAB SAMPLE ID: AE 69781	DATE: 11-6-24

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to feet 20'	STATIC DEPTH TO WATER (feet): 8.5	PURGE PUMP TYPE OR BAILER: PP 57867

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (20 feet - 8.5) 11.5 x 0.16 = 1.84 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

1.84 + (0.0026 X 35 feet) + 0.132 = 2.063 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 2.063 / .25 = 8.25 Total Purge Time in minutes

Time to purge one (1) gallon = 4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 0947	PURGING ENDED AT: 1002	TOTAL VOLUME PURGED (gallons): 3.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0956	2.25	2.25	.25	9.2	5.7	25.7	730	1.65	3.66	Clear	None	198
0959	.75	3.00	.25	9.2	5.6	25.7	725	1.42	3.54	Clear	None	3.8
1002	.75	3.75	.25	9.2	5.6	25.8	721	0.92	3.50	Clear	None	-1.9

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 8" = 2.62; ; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1002	SAMPLING ENDED AT: 1006
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: / µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:20:39 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-18-14	0859	AE59782	GW	Lena Road Monitoring Well GW-7	LENAGW-7	250 mL HDPE unpres.; Grab/Comp.	1	✓	NO3IC
11-18-14	0859	AE59782	GW	Lena Road Monitoring Well GW-7	LENAGW-7	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	$ICPWATER ASAA TLAA
11-18-14	0859	AE59782	GW	Lena Road Monitoring Well GW-7	LENAGW-7	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-18-14	0859	AE59782	GW	Lena Road Monitoring Well GW-7	LENAGW-7	250 mL HDPE unpres.; Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-18-14	1201
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-18-14	1201
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E wells

10/8/2014 1:20:39 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-18-14	0859	AE59782	GW	Lena Road Monitoring Well GW-7	LENAGW-7	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-18-14	0859	AE59782	GW	Lena Road Monitoring Well GW-7	LENAGW-7	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-18-14	0859	AE59782	GW	Lena Road Monitoring Well GW-7	LENAGW-7	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-18-14	0859	AE59782	GW	Lena Road Monitoring Well GW-7	LENAGW-7	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E wells	MCUD	11-18-14	1201
Received By:	[illegible]	Elizabeth Mayernick	MCUD central lab	11-18-14	1201
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2728.392 / Long: 8227.159)	
WELL NO: GW 07	LAB SAMPLE ID. AE 59782	DATE: 11-18-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to 19.3 feet	STATIC DEPTH TO WATER (feet): 9.5	PURGE PUMP TYPE OR BAILER: PP 52345

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (19.3 feet - 9.5) 9.8 0.16 = 1.568 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.568 + (0.0026 X 35 feet) + 0.132 = 1.791 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 1.791 / .27 = 6.63 Total Purge Time in minutes

Time to purge one (1) gallon = 3.5 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	PURGING INITIATED AT: 0846	PURGING ENDED AT: 0859	TOTAL VOLUME PURGED (gallons): 3.51

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0853	1.89	1.89	.27	10.0	5.45	24.1	644	1.12	4.16	Clear	None	-437
0856	.81	2.70	.27	10.0	5.47	24.1	650	1.11	3.85	Clear	None	-438
0859	.81	3.51	.27	10.0	5.45	24.1	670	1.09	3.76	Clear	None	-443

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 8" = 2.62; ; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0859	SAMPLING ENDED AT: 0903
PUMP OR TUBING DEPTH IN WELL (feet): 10.5	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:21:03 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-18-14	1033	AE59783	GW	Lena Road Monitoring Well GW-8	LENAGW-8	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-18-14	1033	AE59783	GW	Lena Road Monitoring Well GW-8	LENAGW-8	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-18-14	1033	AE59783	GW	Lena Road Monitoring Well GW-8	LENAGW-8	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	c 2	AMM
11-18-14	1033	AE59783	GW	Lena Road Monitoring Well GW-8	LENAGW-8	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-18-14	1201
Received By:	[illegible]	Elizabeth Mayernicle	MCUD Central Lab	11-18-14	1201
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:21:03 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-18-14	1033	AE59783	GW	Lena Road Monitoring Well GW-8	LENAGW-8	250 mL HDPE unpres.; Grab/Comp.	1	✓	NO3IC
11-18-14	1033	AE59783	GW	Lena Road Monitoring Well GW-8	LENAGW-8	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-18-14	1033	AE59783	GW	Lena Road Monitoring Well GW-8	LENAGW-8	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-18-14	1033	AE59783	GW	Lena Road Monitoring Well GW-8	LENAGW-8	250 mL HDPE unpres.; Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-18-14	1201
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-18-14	1201
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITELOCATION: (Lat: 2728.365 / Long: 8227.229)
WELL NO: GW1 08	LAB SAMPLE ID: AE 59783 — DATE: 11-18-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: _____ feet to 20.1 feet	STATIC DEPTH TO WATER (feet) 12.2	PURGE PUMP TYPE OR BAILER: PP 57967

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.1 feet - 12.2) 8.9 x 0.16 = 1.424 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.424 + (0.0026 X 35 feet) + 0.132 = 1.647 gallons

Total Purge Time = Equipment Purge volume / Purge Rate: 1.647 / .25 = 6.588 Total Purge Time in minutes

Time to purge one (1) gallon 4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14	PURGING INITIATED AT: 1020	PURGING ENDED AT: 1033	TOTAL VOLUME PURGED (gallons): 3.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
1027	1.75	1.75	.25	12.9	5.43	25.4	635	1.82	6.41	Cloudy	None	-478
1030	.75	2.50	.25	12.9	5.45	25.5	638	1.82	6.18	Cloudy	None	-473
1033	.75	3.25	.25	12.9	5.42	25.5	636	1.08	6.26	Cloudy	None	-471

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; 8" = 2.62; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1033	SAMPLING ENDED AT: 1037
PUMP OR TUBING DEPTH IN WELL (feet): 14	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:22:06 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-18-14	1104	AE59784	GW	Lena Road Monitoring Well GW-9	LENAGW-9	250 mL HDPE unpres. Grab/Comp.	1	✓	NO3IC
11-18-14	1104	AE59784	GW	Lena Road Monitoring Well GW-9	LENAGW-9	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-18-14	1104	AE59784	GW	Lena Road Monitoring Well GW-9	LENAGW-9	500 mL HDPE w/HNO3 Grab/Comp.	1	<2	HG
11-18-14	1104	AE59784	GW	Lena Road Monitoring Well GW-9	LENAGW-9	250 mL HDPE unpres. Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-18-14	1201
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-18-14	1201
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:22:06 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-18-14	1104	AE59784	GW	Lena Road Monitoring Well GW-9	LENAGW-9	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-18-14	1104	AE59784	GW	Lena Road Monitoring Well GW-9	LENAGW-9	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-18-14	1104	AE59784	GW	Lena Road Monitoring Well GW-9	LENAGW-9	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-18-14	1104	AE59784	GW	Lena Road Monitoring Well GW-9	LENAGW-9	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-18-14	1201
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-18-14	1201
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITELOCATION: (Lat: 2728.187 / Long: 8227.458) (Lat: 2728.211 / Long: 8227.174)	
WELL NO: GW 09	LAB SAMPLE ID: AE 59784	DATE: 11-18-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: _____ feet to 20.5 feet	STATIC DEPTH TO WATER (feet): 9.8	PURGE PUMP TYPE OR BAILER: ~~PP~~ 59767

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.5 feet - 9.8)16.7 0.16 = 1.712 gallons 1.935

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.712 + (0.0026 X 35 feet) + 0.132 = 1.935 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 1.935 / .27 = 7.166 Total Purge Time in minutes

Time to purge one (1) gallon = 3 1/2 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	PURGING INITIATED AT: 1050	PURGING ENDED AT: 1104	TOTAL VOLUME PURGED (gallons): 3.78

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
1058	2.16	2.16	.27	10.6	5.9	21.8	327	1.76	6.01	Clear	None	45 F
1101	.81	2.97	.27	10.7	5.9	21.7	327	1.61	5.03	Clear	None	45 F
1104	.81	3.78	.27	10.7	6.0	21.6	326	1.52	4.82	Clear	None	45 F

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 8" = 2.62; ; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1101	SAMPLING ENDED AT: 1105
PUMP OR TUBING DEPTH IN WELL (feet): 10.5	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type: /	FILTER SIZE: / µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:11:54 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-19-14	0911	AE59770	GW	Lena Road Monitoring Well GW-11	LENAGW-11	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-19-14	0911	AE59770	GW	Lena Road Monitoring Well GW-11	LENAGW-11	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-19-14	0911	AE59770	GW	Lena Road Monitoring Well GW-11	LENAGW-11	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-19-14	0911	AE59770	GW	Lena Road Monitoring Well GW-11	LENAGW-11	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-19-14	1047 ~~1147~~ 11-19-14
Received By:	[illegible]	Elizabeth Mayerricke	MCUD Central Lab	11-19-14	1047 ~~1147~~ EMM 111914
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E WELLS

10/8/2014 1:11:54 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-19-14	0911	AE59770	GW	Lena Road Monitoring Well GW-11	LENAGW-11	250 mL HDPE unpres.; Grab/Comp.	1	✓	NO3IC
11-19-14	0911	AE59770	GW	Lena Road Monitoring Well GW-11	LENAGW-11	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	$ICPWATER ASAA TLAA
11-19-14	0911	AE59770	GW	Lena Road Monitoring Well GW-11	LENAGW-11	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-19-14	0911	AE59770	GW	Lena Road Monitoring Well GW-11	LENAGW-11	250 mL HDPE unpres.; Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E WELLS	MCUD	11-19-14	1047 ~~1147~~ DW 11-19-14
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-19-14	1047 ~~1147~~ EM 11/19/14
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2728.131 / Long: 8226.976)	
WELL NO: GW11	LAB SAMPLE ID: AE 59770	DATE: 11-19-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: ____feet to 20.5 feet	STATIC DEPTH TO WATER (feet): 7.2	PURGE PUMP TYPE OR BAILER: PP 57867

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.5 feet - 7.2) 13 x 0.16 = 2.128 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.128 + (0.0026 X 35 feet) + 0.132 = 2.351 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 2.351 / .25 = 9.4 Total Purge Time in minutes

Time to purge one (1) gallon = 4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 0855	PURGING ENDED AT: 0911	TOTAL VOLUME PURGED (gallons): 4.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0905	2.50	2.50	.25	7.9	5.6	23.7	645	1.14	4.16	Yellow	None	-430
0908	.75	3.25	.25	8.0	5.5	23.8	655	1.08	4.11	Yellow	None	-440
0911	.75	4.00	.25	8.0	5.5	23.9	662	1.04	3.88	Yellow	None	-441

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 8" = 2.62; ; 10" = 4.10; 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: DWells	SAMPLER(S) SIGNATURE(S): David E Wells	SAMPLING INITIATED AT: 0911	SAMPLING ENDED AT: 0916
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:13:15 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-19-14	0951	AE59771	GW	Lena Road Monitoring Well GW-12	LENAGW-12	40 ml glass Grab	3	✓	$25818011-CONTRACT
11-19-14	0951	AE59771	GW	Lena Road Monitoring Well GW-12	LENAGW-12	40 ml glass wHCl Grab	3	✓	$258IVOCS-CONTRACT
11-19-14	0951	AE59771	GW	Lena Road Monitoring Well GW-12	LENAGW-12	250 mL ~~HDPE~~ w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-19-14	0951	AE59771	GW	Lena Road Monitoring Well GW-12	LENAGW-12	500 mL ~~HDPE~~ unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-19-14	1047 ~~1147~~ 11-19-14 DW
Received By:	[illegible]	Elizabeth Mayerrick	MCUD Central Lab	11-19-14	1047 ~~1147~~ EMM 111914
Relinquished By:					
Received By:					

Comments:

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:13:15 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-19-14	0951	AE59771	GW	Lena Road Monitoring Well GW-12	LENAGW-12	250 mL HDPE unpres., Grab/Comp.	1	✓	NO3IC
11-19-14	0951	AE59771	GW	Lena Road Monitoring Well GW-12	LENAGW-12	500 mL HDPE w/HNO3, Grab/Comp.	1	C2	SICPWATER ASAA TLAA
11-19-14	0951	AE59771	GW	Lena Road Monitoring Well GW-12	LENAGW-12	500 mL HDPE w/HNO3, Grab/Comp.	1	C2	HG
11-19-14	0951	AE59771	GW	Lena Road Monitoring Well GW-12	LENAGW-12	250 mL HDPE unpres., Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-19-14	1047 ~~1147~~ 11-19-14
Received By:	[illegible]	Elizabeth Mayernick	MCUS Central Lab	11-19-14 19 9mm 111914	1047 ~~1147~~ 9mm 111914
Relinquished By:					
Received By:					

Comments:

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITELOCATION: (Lat: 2728.076 / Long: 8226.782)
WELL NO: GW12	LAB SAMPLE ID AE 59771 / DATE 11-19-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: _____ feet to 20.3 feet	STATIC DEPTH TO WATER (feet): 11.2	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.3 feet - 11.2) 9.1 x 0.16 = 1.456 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.456 + (0.0026 X 35 feet) + 0.132 = 1.679 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 1.679 / .25 = 6.716 Total Purge Time in minutes

Time to purge one (1) gallon = 4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	PURGING INITIATED AT: 0938	PURGING ENDED AT: 0951	TOTAL VOLUME PURGED (gallons): 3.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0945	1.75	1.75	.25	11.6	5.6	24.2	803	2.04	2.57	Clear	None	-351
0948	.75	2.50	.25	11.6	5.5	24.2	794	1.92	2.68	clear	NAP	-345
0951	.75	3.25	.25	11.6	5.6	242	795	1.67	2.46	clear	None	-358

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 8" = 2.62; 10" = 4.10; 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: DWells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0951	SAMPLING ENDED AT: 0956
PUMP OR TUBING DEPTH IN WELL (feet): 12.5	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:14:29 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-20-14	1039	AE59772	GW	Lena Road Monitoring Well GW-13	LENAGW-13	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-20-14	1039	AE59772	GW	Lena Road Monitoring Well GW-13	LENAGW-13	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-20-14	1039	AE59772	GW	Lena Road Monitoring Well GW-13	LENAGW-13	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-20-14	1039	AE59772	GW	Lena Road Monitoring Well GW-13	LENAGW-13	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-20-14	1138
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-20-14	1138
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:14:29 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-20-14	1039	AE59772	GW	Lena Road Monitoring Well GW-13	LENAGW-13	250 mL HDPE unpres. Grab/Comp.	1		NO3IC
11-20-14	1039	AE59772	GW	Lena Road Monitoring Well GW-13	LENAGW-13	500 mL HDPE w/HNO3 Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-20-14	1039	AE59772	GW	Lena Road Monitoring Well GW-13	LENAGW-13	500 mL HDPE w/HNO3 Grab/Comp.	1	<2	HG
11-20-14	1039	AE59772	GW	Lena Road Monitoring Well GW-13	LENAGW-13	250 mL HDPE unpres. Grab/Comp.	1		CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-20-14	1135
Received By:	[illegible]	Elizabeth Mayernick	MCUD central lab	11-20-14	1138
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: **Lena Road Landfill**	SITELOCATION: **(Lat: 2728.024 / Long: 8226.653)**	
WELL NO: **GW13**	LAB SAMPLE ID: **AE** 59772	DATE: 11-20-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: _____feet to 20.3 feet	STATIC DEPTH TO WATER (feet) 10.6	PURGE PUMP TYPE OR BAILER: BP 5796 7

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (20.3 feet - 10.6) 9.7 x 0.16 = gallons 1.552

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

1.552 + (0.0026 X 35 feet) + 0.132 = ~~1.552~~ 1.775 gallons
DW 11-20-14

Total Purge Time = Equipment Purge volume / Purge Rate : 1.775 / .25 = 7.1 MIN Total Purge Time in minutes

Time to purge one (1) gallon = 4 **minutes**

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11-20-14 12	PURGING INITIATED AT: 1025	PURGING ENDED AT: 1038	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units) DW	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
1033	2.00	2.00	.25	11.2	24.2	6.0	1120	2.24	308	Clear	None	-257
1036	.75	2.75	.25	11.2	24.3	6.0	1120	2.10	3.14	Clear	None	-286
1039	.75	3.50	.25	11.2	24.4	6.0	1120	2.01	3.10	Clear	None	-314

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 8" = 2.62; ; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): Daniel E Wells	SAMPLING INITIATED AT: 1039	SAMPLING ENDED AT: 1043
PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:15:11 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-20-14	1001	AE59773	GW	Lena Road Monitoring Well GW-14	LENAGW-14	250 mL HDPE unpres.; Grab/Comp.	1		NO3IC
11-20-14	1001	AE59773	GW	Lena Road Monitoring Well GW-14	LENAGW-14	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-20-14	1001	AE59773	GW	Lena Road Monitoring Well GW-14	LENAGW-14	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-20-14	1001	AE59773	GW	Lena Road Monitoring Well GW-14	LENAGW-14	250 mL HDPE unpres.; Grab/Comp.	1		CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-20-14	1130
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-20-14	1138
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:15:11 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-20-14	1001	AE59773	GW	Lena Road Monitoring Well GW-14	LENAGW-14	40 ml glass, Grab	3	✓	$25818011-CONTRACT
11-20-14	1001	AE59773	GW	Lena Road Monitoring Well GW-14	LENAGW-14	40 ml glass wHCl, Grab	3	✓	$258IVOCS-CONTRACT
11-20-14	1001	AE59773	GW	Lena Road Monitoring Well GW-14	LENAGW-14	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-20-14	1001	AE59773	GW	Lena Road Monitoring Well GW-14	LENAGW-14	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-20-14	1138
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-20-14	1138
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2727.908 / Long: 8226.486)	
WELL NO: GW14	LAB SAMPLE ID: AE 05773	DATE: 11-20-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: ____feet to 20.1 feet	STATIC DEPTH TO WATER (feet): 6.9	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.1 feet - 6.9) 13.2 0.16 = 2.112 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.112 + (0.0026 X 35 feet) + 0.132 = 2.335 gallons

Total Purge Time = Equipment Purge volume / Purge Rate: 2.335 / .25 = 9.34 Total Purge Time in minutes

Time to purge one (1) gallon = 4 minutes DW 11-20-14

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1001	TOTAL VOLUME PURGED (gallons): 4.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0955	2.50	2.50	.25	~~21.7~~ 7.0	5.5	21.7	1150	1.88	7.00	yellow	Clear	-325
0958	.75	3.25	.25	7.6	5.5	22.1	1170	1.71	7.06	yellow	Clear	-347
1001	.75	4.00	.25	7.6	5.6	22.1	1180	1.75	7.14	yellow	Clear	-348

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 8" = 2.62; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): Daniel Ellells	SAMPLING INITIATED AT: 1001	SAMPLING ENDED AT: 1005
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:16:14 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-20-14	0924	AE59774	GW	Lena Road Monitoring Well GW-15	LENAGW-15	250 mL HDPE unpres.; Grab/Comp.	1	✓	NO3IC
11-20-14	0924	AE59774	GW	Lena Road Monitoring Well GW-15	LENAGW-15	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	$ICPWATER ASAA TLAA
11-20-14	0924	AE59774	GW	Lena Road Monitoring Well GW-15	LENAGW-15	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-20-14	0924	AE59774	GW	Lena Road Monitoring Well GW-15	LENAGW-15	250 mL HDPE unpres.; Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-20-14	1138
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-20-14	1138
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:16:14 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-20-14	0924	AE59774	GW	Lena Road Monitoring Well GW-15	LENAGW-15	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-20-14	0924	AE59774	GW	Lena Road Monitoring Well GW-15	LENAGW-15	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-20-14	0924	AE59774	GW	Lena Road Monitoring Well GW-15	LENAGW-15	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-20-14	0924	AE59774	GW	Lena Road Monitoring Well GW-15	LENAGW-15	500 mL HDPE unpreserved; Grab/Comp.	1	/	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-20-14	1138
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-20-14	1138
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2727.987 / Long: 8226.374)	
WELL NO: GW15	LAB SAMPLE ID: AE 59774	DATE: 11-20-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: ____feet to 20.1 feet	STATIC DEPTH TO WATER (feet): 7.4	PURGE PUMP TYPE OR BAILER: PP 57967

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (20.1 feet - 7.4) 12.7 x 0.16 = 2.032 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

2.032 + (0.0026 X 35 feet) + 0.132 = 2.255 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 2.255 / ____ = 7.77 Total Purge Time in minutes

Time to purge one (1) gallon = 3.5 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 0910	PURGING ENDED AT: 0924	TOTAL VOLUME PURGED (gallons): 4.06

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0918	2.32	2.32	.29	8.0	5.3	23.6	709	1.82	7.10	Yellow	None	-431
0921	.87	3.19	.29	8.1	5.2	23.6	710	1.71	6.88	Yellow	None	-430
0924	.87	4.06	.29	8.1	5.2	23.6	704	1.62	6.72	Yellow	None	-430

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; 8" = 2.62; 10" = 4.10; 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: DWells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0921	SAMPLING ENDED AT: 0928
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E WELLS

10/8/2014 1:16:54 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-24-14	0916	AE59775	GW	Lena Road Monitoring Well GW-16	LENAGW-16	40 ml glass; Grab	3	✓	$25818011-CONTRACT
11-24-14	0916	AE59775	GW	Lena Road Monitoring Well GW-16	LENAGW-16	40 ml glass wHCl; Grab	3	✓	$258IVOCS-CONTRACT
11-24-14	0916	AE59775	GW	Lena Road Monitoring Well GW-16	LENAGW-16	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	C2	AMM
11-24-14	0916	AE59775	GW	Lena Road Monitoring Well GW-16	LENAGW-16	500 mL HDPE unpreserved; Grab/Comp.	1	✓	TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E WELLS	MCUD	11-24-14	1133
Received By:	[illegible]	Elizabeth Mayersick	MCUD Central Lab	11-24-14	1133
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:16:54 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-24-14	0916	AE59775	GW	Lena Road Monitoring Well GW-16	LENAGW-16	250 mL HDPE unpres.; Grab/Comp.	1	✓	NO3IC
11-24-14	0916	AE59775	GW	Lena Road Monitoring Well GW-16	LENAGW-16	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-24-14	0916	AE59775	GW	Lena Road Monitoring Well GW-16	LENAGW-16	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-24-14	0916	AE59775	GW	Lena Road Monitoring Well GW-16	LENAGW-16	250 mL HDPE unpres.; Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-24-14	1133
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-24-14	1133
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2728.201 / Long: 8226.369)	
WELL NO: GW16	LAB SAMPLE ID: AE 59775	DATE: 11-24-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to 19.9 feet	STATIC DEPTH TO WATER (feet): 9.6	PURGE PUMP TYPE OR BAILER: PP 57967

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

(19.9 feet - 9.6 10.3 0.16 = 1.648 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

1.648 + (0.0026 X 35 feet) + 0.132 = 1.871 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 1.871 / .25 = 7.48 Total Purge Time in minutes

Time to purge one (1) gallon = 4 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 110	PURGING INITIATED AT: 0902	PURGING ENDED AT: 096	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0910	2.00	2.00	.25	10.1	6.1	24.4	640	1.08	4.68	clear	None	-486
0913	.75	2.75	.25	10.2	6.0	24.4	643	1.02	4.42	Clear	None	-498
0916	.75	3.50	.25	10.2	5.9	24.4	646	0.93	4.38	Clear	None	-514

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 8" = 2.62; ; 10" = 4.10; 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: D Wells	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0916	SAMPLING ENDED AT: 0921
PUMP OR TUBING DEPTH IN WELL (feet): 110	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E Wells

10/8/2014 1:17:33 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 8

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-24-14	0951	AE59776	GW	Lena Road Monitoring Well GW-17	LENAGW-17	40 ml glass; Grab	3	DW 11-24-14	$25818011-CONTRACT
11-24-14	0951	AE59776	GW	Lena Road Monitoring Well GW-17	LENAGW-17	40 ml glass wHCl; Grab	3		$258IVOCS-CONTRACT
11-24-14	0951	AE59776	GW	Lena Road Monitoring Well GW-17	LENAGW-17	250 mL HDPE w/H2SO4 pres.; Grab/Comp.	1	<2	AMM
11-24-14	0951	AE59776	GW	Lena Road Monitoring Well GW-17	LENAGW-17	500 mL HDPE unpreserved; Grab/Comp.	1		TDS

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E Wells	MCUD	11-24-14	1133
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-24-14	1133
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

CHAIN OF CUSTODY RECORD

Sampler Signature: David E Wells

Print Name: DAVID E WELLS

10/8/2014 1:17:33 PM

Manatee County Utilities
Central Laboratory
4751 66th Street West
Bradenton, FL 34210

Phone: 941-792-8811, Ext. 5285
Fax: 941-795-3477
Contact: Kayse Hasiak-Solan

Total Number of Containers: 4

Temperature: 3

Collection Date	Collection Time	Sample ID	Matrix	Description	Loc Code	Pres., Bottle/Sample Type	# Cont	Pres Check	Analysis
11-24-14	0951	AE59776	GW	Lena Road Monitoring Well GW-17	LENAGW-17	250 mL HDPE unpres., Grab/Comp.	1	✓	NO3IC
11-24-14	0951	AE59776	GW	Lena Road Monitoring Well GW-17	LENAGW-17	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	SICPWATER ASAA TLAA
11-24-14	0951	AE59776	GW	Lena Road Monitoring Well GW-17	LENAGW-17	500 mL HDPE w/HNO3; Grab/Comp.	1	<2	HG
11-24-14	0951	AE59776	GW	Lena Road Monitoring Well GW-17	LENAGW-17	250 mL HDPE unpres.; Grab/Comp.	1	✓	CLIC

	Signature	Print Name	Company	Date	Time
Relinquished By:	David E Wells	DAVID E WELLS	MCUD	11-24-14	1133
Received By:	[illegible]	Elizabeth Mayernick	MCUD Central Lab	11-24-14	1133
Relinquished By:					
Received By:					

Comments: 2014-06-30-007

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Lena Road Landfill	SITE LOCATION: (Lat: 2728.341 / Long: 8226.371))	
WELL NO: GW 17	LAB SAMPLE ID: AE 59776	DATE: 11-21-14

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 "	WELL SCREEN INTERVAL DEPTH: feet to 20.8 feet	STATIC DEPTH TO WATER (feet): 8.0	PURGE PUMP TYPE OR BAILER: PP 57967

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.8 feet - 8.0) 12.8 x 0.16 = 2.048 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.048 + (0.0026 X 35 feet) + 0.132 = 2.271 gallons

Total Purge Time = Equipment Purge volume / Purge Rate : 2.271 / _____ = 7.5 min Total Purge Time in minutes

Time to purge one (1) gallon = 3 1/2 minutes

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	PURGING INITIATED AT: 0937	PURGING ENDED AT: 0951	TOTAL VOLUME PURGED (gallons): 4.06

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. µmhos/cm	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP (MV)
0945	2.32	2.32	.29	8.8	6.1	24.9	473	0.81	4.88	Clear	None	-332
0948	.87	3.19	.29	8.8	6.0	24.7	464	0.76	4.61	Clear	None	-337
0951	.87	4.06	.29	8.8	6.0	24.8	465	0.75	4.46	Clear	None	-339

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 8" = 2.62; ; 10" = 4.10; 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: Duell G	SAMPLER(S) SIGNATURE(S): Daniel G Willis	SAMPLING INITIATED AT: 0951	SAMPLING ENDED AT: 0956
PUMP OR TUBING DEPTH IN WELL (feet): 9.5	TUBING MATERIAL CODE: TYGON	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

Remarks: Reference to the internal chain of custody for sample container and preservation information.

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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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)

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-1 21593**
Matrix	**Groundwater**
SAL Sample Number	**1411981-01**
Date/Time Collected	**11/05/14 09:20**
Collected by	**David E. Wells**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/10/14 19:12	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 19:12	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 19:12	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/10/14 19:12	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/10/14 19:12	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/10/14 19:12	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/10/14 19:12	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/10/14 19:12	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 19:12	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 19:12	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/10/14 19:12	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 19:12	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/10/14 19:12	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/10/14 19:12	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/10/14 19:12	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 19:12	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/10/14 19:12	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 19:12	1

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-1 21593**
Matrix	**Groundwater**
SAL Sample Number	**1411981-01**
Date/Time Collected	**11/05/14 09:20**
Collected by	**David E. Wells**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/10/14 19:12	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 19:12	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/10/14 19:12	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 19:12	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 19:12	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/10/14 19:12	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/10/14 19:12	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/10/14 19:12	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/10/14 19:12	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 19:12	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 19:12	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*107 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*105 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*101 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/06/14 10:52	11/06/14 22:34	1
1,2-Dibromoethane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/06/14 10:52	11/06/14 22:34	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*94 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank1 21593**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-02**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/10/14 19:43	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/10/14 19:43	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/10/14 19:43	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/10/14 19:43	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/10/14 19:43	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/10/14 19:43	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/10/14 19:43	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/10/14 19:43	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/10/14 19:43	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/10/14 19:43	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/10/14 19:43	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
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4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank1 21593**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-02**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/10/14 19:43	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/10/14 19:43	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/10/14 19:43	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/10/14 19:43	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/10/14 19:43	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/10/14 19:43	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 19:43	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 19:43	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*101 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*98 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*101 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*98 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-2 21594**
Matrix	**Groundwater**
SAL Sample Number	**1411981-03**
Date/Time Collected	**11/05/14 09:53**
Collected by	**David E. Wells**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/10/14 20:15	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 20:15	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 20:15	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/10/14 20:15	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/10/14 20:15	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/10/14 20:15	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/10/14 20:15	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/10/14 20:15	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 20:15	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 20:15	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/10/14 20:15	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 20:15	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/10/14 20:15	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/10/14 20:15	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/10/14 20:15	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 20:15	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/10/14 20:15	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 20:15	1

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-2 21594**
Matrix	**Groundwater**
SAL Sample Number	**1411981-03**
Date/Time Collected	**11/05/14 09:53**
Collected by	**David E. Wells**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/10/14 20:15	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 20:15	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/10/14 20:15	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 20:15	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 20:15	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/10/14 20:15	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/10/14 20:15	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/10/14 20:15	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/10/14 20:15	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 20:15	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 20:15	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*104 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*101 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*98 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/06/14 10:52	11/06/14 22:12	1
1,2-Dibromoethane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/06/14 10:52	11/06/14 22:12	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*96 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank2 21594**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-04**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/10/14 20:46	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/10/14 20:46	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/10/14 20:46	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/10/14 20:46	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/10/14 20:46	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/10/14 20:46	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/10/14 20:46	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/10/14 20:46	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/10/14 20:46	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/10/14 20:46	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/10/14 20:46	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank2 21594**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-04**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/10/14 20:46	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/10/14 20:46	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/10/14 20:46	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/10/14 20:46	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/10/14 20:46	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/10/14 20:46	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/10/14 20:46	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/10/14 20:46	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*104 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*102 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*105 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*99 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-3 21595**
Matrix	**Groundwater**
SAL Sample Number	**1411981-05**
Date/Time Collected	**11/05/14 10:28**
Collected by	**David E. Wells**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/10/14 21:18	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 21:18	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 21:18	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/10/14 21:18	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/10/14 21:18	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/10/14 21:18	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/10/14 21:18	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/10/14 21:18	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 21:18	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 21:18	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/10/14 21:18	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 21:18	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/10/14 21:18	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/10/14 21:18	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/10/14 21:18	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/10/14 21:18	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/10/14 21:18	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/10/14 21:18	1

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-3 21595**
Matrix	**Groundwater**
SAL Sample Number	**1411981-05**
Date/Time Collected	**11/05/14 10:28**
Collected by	**David E. Wells**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/10/14 21:18	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 21:18	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/10/14 21:18	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 21:18	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 21:18	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/10/14 21:18	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/10/14 21:18	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/10/14 21:18	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/10/14 21:18	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/10/14 21:18	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/10/14 21:18	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*106 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*102 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*101 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*99 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/06/14 10:52	11/06/14 22:56	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/06/14 10:52	11/06/14 22:56	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*105 %*	*Limits*	*85-123*			

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Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank3 21595**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-06**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/13/14 17:20	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/13/14 17:20	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/13/14 17:20	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/13/14 17:20	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/13/14 17:20	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/13/14 17:20	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/13/14 17:20	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 17:20	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 17:20	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/13/14 17:20	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/13/14 17:20	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank3 21595**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-06**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/06/14 10:30**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/13/14 17:20	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/13/14 17:20	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/13/14 17:20	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 17:20	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/13/14 17:20	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/13/14 17:20	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 17:20	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 17:20	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*101 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*98 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*97 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*99 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-5 21597**
Matrix	**Groundwater**
SAL Sample Number	**1411981-09**
Date/Time Collected	**11/06/14 09:25**
Collected by	**David E. Wells**
Date/Time Received	**11/07/14 13:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/13/14 19:27	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 19:27	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 19:27	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/13/14 19:27	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/13/14 19:27	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/13/14 19:27	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/13/14 19:27	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/13/14 19:27	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 19:27	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 19:27	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/13/14 19:27	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 19:27	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/13/14 19:27	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/13/14 19:27	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/13/14 19:27	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 19:27	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/13/14 19:27	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 19:27	1

Manatee County Utility Operations Central Lab
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Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-5 21597**
Matrix	**Groundwater**
SAL Sample Number	**1411981-09**
Date/Time Collected	**11/06/14 09:25**
Collected by	**David E. Wells**
Date/Time Received	**11/07/14 13:40**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/13/14 19:27	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/13/14 19:27	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/13/14 19:27	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 19:27	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/13/14 19:27	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/13/14 19:27	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/13/14 19:27	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/13/14 19:27	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/13/14 19:27	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 19:27	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/13/14 19:27	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*97 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*95 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*100 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/19/14 11:45	11/19/14 22:36	1
1,2-Dibromoethane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/19/14 11:45	11/19/14 22:36	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*98 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank5 21597**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-10**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/07/14 13:40**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/13/14 19:58	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
2-Butanone	ug/L	2.8	I,Q	EPA 8260	4.0	2.0		11/13/14 19:58	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/13/14 19:58	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/13/14 19:58	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/13/14 19:58	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/13/14 19:58	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/13/14 19:58	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 19:58	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 19:58	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/13/14 19:58	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/13/14 19:58	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1

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Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank5 21597**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-10**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/07/14 13:40**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/13/14 19:58	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/13/14 19:58	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/13/14 19:58	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 19:58	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/13/14 19:58	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/13/14 19:58	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 19:58	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 19:58	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*98 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*96 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*98 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

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Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-6 21598**
Matrix	**Groundwater**
SAL Sample Number	**1411981-11**
Date/Time Collected	**11/06/14 10:02**
Collected by	**David E. Wells**
Date/Time Received	**11/07/14 13:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/13/14 20:29	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 20:29	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 20:29	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/13/14 20:29	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/13/14 20:29	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/13/14 20:29	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/13/14 20:29	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/13/14 20:29	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 20:29	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 20:29	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/13/14 20:29	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 20:29	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/13/14 20:29	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/13/14 20:29	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/13/14 20:29	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/13/14 20:29	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/13/14 20:29	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/13/14 20:29	1

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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-6 21598**
Matrix	**Groundwater**
SAL Sample Number	**1411981-11**
Date/Time Collected	**11/06/14 10:02**
Collected by	**David E. Wells**
Date/Time Received	**11/07/14 13:40**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/13/14 20:29	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/13/14 20:29	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/13/14 20:29	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 20:29	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/13/14 20:29	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/13/14 20:29	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/13/14 20:29	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/13/14 20:29	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/13/14 20:29	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/13/14 20:29	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/13/14 20:29	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*101 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*98 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*97 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*99 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0054	U	EPA 8011	0.021	0.0054	11/19/14 11:45	11/19/14 22:58	1
1,2-Dibromoethane	ug/L	0.0054	U	EPA 8011	0.021	0.0054	11/19/14 11:45	11/19/14 22:58	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*95 %*	*Limits*	*85-123*			

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank6 21598**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-12**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/07/14 13:40**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/13/14 21:01	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/13/14 21:01	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/13/14 21:01	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/13/14 21:01	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/13/14 21:01	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/13/14 21:01	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/13/14 21:01	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 21:01	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 21:01	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/13/14 21:01	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/13/14 21:01	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank6 21598**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-12**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/07/14 13:40**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/13/14 21:01	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/13/14 21:01	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/13/14 21:01	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/13/14 21:01	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/13/14 21:01	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/13/14 21:01	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/13/14 21:01	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/13/14 21:01	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*97 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*99 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*96 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*98 %*	*Limits*	*65-135*	*Note:*	*Q*

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank7 1663**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-14**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/14/14 14:20**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/19/14 17:59	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/19/14 17:59	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/19/14 17:59	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/19/14 17:59	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/19/14 17:59	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/19/14 17:59	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/19/14 17:59	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/19/14 17:59	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/19/14 17:59	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/19/14 17:59	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/19/14 17:59	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank7 1663**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-14**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/14/14 14:20**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/19/14 17:59	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/19/14 17:59	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/19/14 17:59	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/19/14 17:59	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/19/14 17:59	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/19/14 17:59	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/19/14 17:59	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/19/14 17:59	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*99 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*102 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*101 %*	*Limits*	*65-135*	*Note:*	*Q*

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank8 1665**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-16**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/14/14 14:20**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/20/14 14:16	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/20/14 14:16	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/20/14 14:16	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/20/14 14:16	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/20/14 14:16	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/20/14 14:16	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/20/14 14:16	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/20/14 14:16	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/20/14 14:16	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/20/14 14:16	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/20/14 14:16	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank8 1665**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-16**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Client**
Date/Time Received	**11/14/14 14:20**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/20/14 14:16	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/20/14 14:16	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/20/14 14:16	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/20/14 14:16	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/20/14 14:16	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/20/14 14:16	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/20/14 14:16	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/20/14 14:16	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*100 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*101 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*104 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*101 %*	*Limits*	*65-135*	*Note:*	*Q*

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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-7 21599**
Matrix	**Groundwater**
SAL Sample Number	**1411981-21**
Date/Time Collected	**11/18/14 08:59**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 15:49	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/25/14 15:49	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 15:49	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/25/14 15:49	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 15:49	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 15:49	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/25/14 15:49	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 15:49	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 15:49	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/25/14 15:49	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/25/14 15:49	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/25/14 15:49	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 15:49	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 15:49	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*96 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*98 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 02:09	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 02:09	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*105 %*	*Limits*	*85-123*			

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank9 21599**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-22**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/25/14 16:22	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/25/14 16:22	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/25/14 16:22	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/25/14 16:22	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/25/14 16:22	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/25/14 16:22	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/25/14 16:22	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 16:22	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 16:22	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/25/14 16:22	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/25/14 16:22	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank9 21599**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-22**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/25/14 16:22	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/25/14 16:22	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/25/14 16:22	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 16:22	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/25/14 16:22	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/25/14 16:22	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 16:22	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 16:22	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*105 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*92 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*96 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-8 21600**
Matrix	**Groundwater**
SAL Sample Number	**1411981-23**
Date/Time Collected	**11/18/14 10:33**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
1,1,1-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
1,1,2-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
1,1-Dichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
1,1-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
1,2,3-Trichloropropane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/25/14 16:54	1
1,2-Dichlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
1,2-Dichloroethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
1,2-Dichloropropane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
1,4-Dichlorobenzene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
2-Butanone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/25/14 16:54	1
2-Hexanone	ug/L	2.1	U	EPA 8260	4.0	2.1		11/25/14 16:54	1
4-Methyl-2-pentanone	ug/L	2.6	U	EPA 8260	4.0	2.6		11/25/14 16:54	1
Acetone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/25/14 16:54	1
Acrylonitrile	ug/L	1.3	U	EPA 8260	4.0	1.3		11/25/14 16:54	1
Benzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
Bromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
Bromodichloromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Bromoform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Bromomethane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/25/14 16:54	1
Carbon disulfide	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Carbon tetrachloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Chlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
Chloroethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/25/14 16:54	1
Chloroform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Chloromethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/25/14 16:54	1
cis-1,2-Dichloroethene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/25/14 16:54	1
cis-1,3-Dichloropropene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Dibromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
Dibromomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Ethylbenzene	ug/L	0.08	U	EPA 8260	0.8	0.08		11/25/14 16:54	1
Iodomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1

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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-8 21600**
Matrix	**Groundwater**
SAL Sample Number	**1411981-23**
Date/Time Collected	**11/18/14 10:33**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/25/14 16:54	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/25/14 16:54	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/25/14 16:54	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/25/14 16:54	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/25/14 16:54	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/25/14 16:54	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 16:54	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 16:54	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*101 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*98 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 02:31	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 02:31	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*110 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank10 21600**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-24**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
1,1,1-Trichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
1,1,2-Trichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
1,1-Dichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
1,1-Dichloroethene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
1,2,3-Trichloropropane	ug/L	0.4 U,Q	EPA 8260	0.8	0.4		11/25/14 17:26	1
1,2-Dichlorobenzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1
1,2-Dichloroethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1
1,2-Dichloropropane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
1,4-Dichlorobenzene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
2-Butanone	ug/L	2.0 U,Q	EPA 8260	4.0	2.0		11/25/14 17:26	1
2-Hexanone	ug/L	2.1 U,Q	EPA 8260	4.0	2.1		11/25/14 17:26	1
4-Methyl-2-pentanone	ug/L	2.6 U,Q	EPA 8260	4.0	2.6		11/25/14 17:26	1
Acetone	ug/L	2.0 U,Q	EPA 8260	4.0	2.0		11/25/14 17:26	1
Acrylonitrile	ug/L	1.3 U,Q	EPA 8260	4.0	1.3		11/25/14 17:26	1
Benzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1
Bromochloromethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1
Bromodichloromethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Bromoform	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Bromomethane	ug/L	0.4 U,Q	EPA 8260	0.8	0.4		11/25/14 17:26	1
Carbon disulfide	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Carbon tetrachloride	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Chlorobenzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1
Chloroethane	ug/L	0.4 U,Q	EPA 8260	1.6	0.4		11/25/14 17:26	1
Chloroform	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Chloromethane	ug/L	0.4 U,Q	EPA 8260	1.6	0.4		11/25/14 17:26	1
cis-1,2-Dichloroethene	ug/L	0.09 U,Q	EPA 8260	0.8	0.09		11/25/14 17:26	1
cis-1,3-Dichloropropene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Dibromochloromethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1
Dibromomethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Ethylbenzene	ug/L	0.08 U,Q	EPA 8260	0.8	0.08		11/25/14 17:26	1
Iodomethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank10 21600**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-24**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/25/14 17:26	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/25/14 17:26	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/25/14 17:26	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 17:26	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/25/14 17:26	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/25/14 17:26	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 17:26	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 17:26	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*97 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*100 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-9 21601**
Matrix	**Groundwater**
SAL Sample Number	**1411981-25**
Date/Time Collected	**11/18/14 11:04**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/25/14 17:57	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/25/14 17:57	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/25/14 17:57	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/25/14 17:57	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/25/14 17:57	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/25/14 17:57	1
Acetone	ug/L	21	EPA 8260	4.0	2.0		11/25/14 17:57	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/25/14 17:57	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/25/14 17:57	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/25/14 17:57	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/25/14 17:57	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/25/14 17:57	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/25/14 17:57	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/25/14 17:57	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/25/14 17:57	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/25/14 17:57	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/25/14 17:57	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/25/14 17:57	1

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-9 21601**
Matrix	**Groundwater**
SAL Sample Number	**1411981-25**
Date/Time Collected	**11/18/14 11:04**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/25/14 17:57	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 17:57	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/25/14 17:57	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 17:57	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 17:57	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/25/14 17:57	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/25/14 17:57	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/25/14 17:57	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/25/14 17:57	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 17:57	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 17:57	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*105 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*98 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*102 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*97 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 02:53	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 02:53	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*114 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank11 21601**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-26**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/25/14 18:28	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/25/14 18:28	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/25/14 18:28	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/25/14 18:28	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/25/14 18:28	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/25/14 18:28	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/25/14 18:28	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 18:28	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 18:28	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/25/14 18:28	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/25/14 18:28	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1

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December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank11 21601**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-26**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/25/14 18:28	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/25/14 18:28	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/25/14 18:28	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 18:28	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/25/14 18:28	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/25/14 18:28	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 18:28	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 18:28	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*109 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*100 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*106 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*95 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-13 21605**
Matrix	**Groundwater**
SAL Sample Number	**1411981-27**
Date/Time Collected	**11/20/14 10:39**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
1,1,1-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
1,1,2-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
1,1-Dichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
1,1-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
1,2,3-Trichloropropane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/25/14 19:00	1
1,2-Dichlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
1,2-Dichloroethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
1,2-Dichloropropane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
1,4-Dichlorobenzene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
2-Butanone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/25/14 19:00	1
2-Hexanone	ug/L	2.1	U	EPA 8260	4.0	2.1		11/25/14 19:00	1
4-Methyl-2-pentanone	ug/L	2.6	U	EPA 8260	4.0	2.6		11/25/14 19:00	1
Acetone	ug/L	2.6	I	EPA 8260	4.0	2.0		11/25/14 19:00	1
Acrylonitrile	ug/L	1.3	U	EPA 8260	4.0	1.3		11/25/14 19:00	1
Benzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
Bromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
Bromodichloromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Bromoform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Bromomethane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/25/14 19:00	1
Carbon disulfide	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Carbon tetrachloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Chlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
Chloroethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/25/14 19:00	1
Chloroform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Chloromethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/25/14 19:00	1
cis-1,2-Dichloroethene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/25/14 19:00	1
cis-1,3-Dichloropropene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Dibromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
Dibromomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Ethylbenzene	ug/L	0.08	U	EPA 8260	0.8	0.08		11/25/14 19:00	1
Iodomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1

Manatee County Utility Operations Central Lab
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-13 21605**
Matrix	**Groundwater**
SAL Sample Number	**1411981-27**
Date/Time Collected	**11/20/14 10:39**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/25/14 19:00	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/25/14 19:00	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/25/14 19:00	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/25/14 19:00	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/25/14 19:00	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/25/14 19:00	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/25/14 19:00	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/25/14 19:00	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*105 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*100 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*102 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*97 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 03:15	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 03:15	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*103 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank12 21605**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-28**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/25/14 19:31	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/25/14 19:31	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/25/14 19:31	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/25/14 19:31	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/25/14 19:31	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/25/14 19:31	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/25/14 19:31	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 19:31	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 19:31	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/25/14 19:31	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/25/14 19:31	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1

Manatee County Utility Operations Central Lab
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Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank12 21605**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-28**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/25/14 19:31	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/25/14 19:31	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/25/14 19:31	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/25/14 19:31	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/25/14 19:31	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/25/14 19:31	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/25/14 19:31	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/25/14 19:31	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*107 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*96 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*101 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*100 %*	*Limits*	*65-135*	*Note:*	*Q*

Manatee County Utility Operations Central Lab
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-14 21606**
Matrix	**Groundwater**
SAL Sample Number	**1411981-29**
Date/Time Collected	**11/20/14 10:01**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/26/14 15:51	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 15:51	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 15:51	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/26/14 15:51	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/26/14 15:51	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/26/14 15:51	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/26/14 15:51	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/26/14 15:51	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 15:51	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 15:51	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/26/14 15:51	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 15:51	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/26/14 15:51	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/26/14 15:51	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/26/14 15:51	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 15:51	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/26/14 15:51	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 15:51	1

Manatee County Utility Operations Central Lab
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Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-14 21606**
Matrix	**Groundwater**
SAL Sample Number	**1411981-29**
Date/Time Collected	**11/20/14 10:01**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 15:51	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 15:51	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 15:51	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 15:51	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 15:51	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 15:51	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 15:51	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 15:51	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 15:51	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 15:51	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 15:51	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*94 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*104 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*97 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/24/14 17:38	11/25/14 03:36	1
1,2-Dibromoethane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/24/14 17:38	11/25/14 03:36	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*108 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank13 21606**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-30**
Date/Time Collected	**10/28/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 16:54	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 16:54	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/26/14 16:54	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/26/14 16:54	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 16:54	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/26/14 16:54	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 16:54	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 16:54	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 16:54	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 16:54	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/26/14 16:54	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank13 21606**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-30**
Date/Time Collected	**10/28/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/26/14 16:54	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 16:54	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/26/14 16:54	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 16:54	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/26/14 16:54	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/26/14 16:54	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 16:54	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 16:54	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*102 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*95 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*104 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*98 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-15 21607**
Matrix	**Groundwater**
SAL Sample Number	**1411981-31**
Date/Time Collected	**11/20/14 09:24**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/26/14 17:25	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 17:25	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 17:25	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/26/14 17:25	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/26/14 17:25	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/26/14 17:25	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/26/14 17:25	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/26/14 17:25	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 17:25	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 17:25	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/26/14 17:25	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 17:25	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/26/14 17:25	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/26/14 17:25	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/26/14 17:25	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 17:25	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/26/14 17:25	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 17:25	1

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-15 21607**
Matrix	**Groundwater**
SAL Sample Number	**1411981-31**
Date/Time Collected	**11/20/14 09:24**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 17:25	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 17:25	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 17:25	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 17:25	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 17:25	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 17:25	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 17:25	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 17:25	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 17:25	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 17:25	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 17:25	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*104 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*100 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*104 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*96 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 03:58	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/24/14 17:38	11/25/14 03:58	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*115 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank14 21607**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-32**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 17:57	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 17:57	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/26/14 17:57	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/26/14 17:57	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 17:57	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/26/14 17:57	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 17:57	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 17:57	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 17:57	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 17:57	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/26/14 17:57	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1

Manatee County Utility Operations Central Lab
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Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank14 21607**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-32**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/26/14 17:57	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 17:57	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/26/14 17:57	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 17:57	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/26/14 17:57	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/26/14 17:57	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 17:57	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 17:57	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*109 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*96 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*104 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*95 %*	*Limits*	*65-135*	*Note:*	*Q*

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-4 21596**
Matrix	**Groundwater**
SAL Sample Number	**1411981-33**
Date/Time Collected	**11/24/14 09:21**
Collected by	**Ian Geraldi**
Date/Time Received	**11/24/14 12:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Suspended Solids	DEP SOPs				11/24/14 09:21	1
Dissolved Oxygen	mg/L	0.1	DEP FT1500	0.1	0.1		11/24/14 09:21	1
Odor at sampling		None	DEP SOPs				11/24/14 09:21	1
pH	SU	6.0	DEP FT1100	0.1	0.1		11/24/14 09:21	1
Specific conductance	umhos/cm	426	DEP FT1200	0.1	0.1		11/24/14 09:21	1
Total Water Depth	meters	19.60	DEP SOP	0.01	0.01		11/24/14 09:21	1
Turbidity	NTU	7.1	DEP FT1600	0.01	0.01		11/24/14 09:21	1
Water Temperature	°C	24.9	DEP FT1400	0.1	0.1		11/24/14 09:21	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/26/14 18:28	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:28	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:28	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/26/14 18:28	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/26/14 18:28	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/26/14 18:28	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/26/14 18:28	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/26/14 18:28	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:28	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:28	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/26/14 18:28	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:28	1

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-4 21596**
Matrix	**Groundwater**
SAL Sample Number	**1411981-33**
Date/Time Collected	**11/24/14 09:21**
Collected by	**Ian Geraldi**
Date/Time Received	**11/24/14 12:00**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Chlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 18:28	1
Chloroethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 18:28	1
Chloroform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Chloromethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 18:28	1
cis-1,2-Dichloroethene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 18:28	1
cis-1,3-Dichloropropene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Dibromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 18:28	1
Dibromomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Ethylbenzene	ug/L	0.08	U	EPA 8260	0.8	0.08		11/26/14 18:28	1
Iodomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 18:28	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 18:28	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 18:28	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 18:28	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 18:28	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 18:28	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 18:28	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 18:28	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:28	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 18:28	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*105 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*97 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*96 %*	*Limits*	*65-135*			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/25/14 10:09	11/25/14 22:04	1
1,2-Dibromoethane	ug/L	0.0052	U	EPA 8011	0.021	0.0052	11/25/14 10:09	11/25/14 22:04	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*99 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank15 21596**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-34**
Date/Time Collected	**11/21/14 11:00**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/24/14 12:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/26/14 18:59	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:59	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:59	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/26/14 18:59	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		11/26/14 18:59	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		11/26/14 18:59	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		11/26/14 18:59	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		11/26/14 18:59	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:59	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:59	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		11/26/14 18:59	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:59	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/26/14 18:59	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		11/26/14 18:59	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		11/26/14 18:59	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		11/26/14 18:59	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		11/26/14 18:59	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		11/26/14 18:59	1

Manatee County Utility Operations Central Lab
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December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank15 21596**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-34**
Date/Time Collected	**11/21/14 11:00**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/24/14 12:00**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 18:59	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 18:59	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 18:59	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:59	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 18:59	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 18:59	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 18:59	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 18:59	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 18:59	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 18:59	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 18:59	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*101 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*97 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*102 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*98 %*	*Limits*	*65-135*			

Manatee County Utility Operations Central Lab
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December 16, 2014
Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-11 21603**
Matrix	**Groundwater**
SAL Sample Number	**1411981-35**
Date/Time Collected	**11/19/14 09:11**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
1,1,1-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
1,1,2-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
1,1-Dichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
1,1-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
1,2,3-Trichloropropane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 19:31	1
1,2-Dichlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
1,2-Dichloroethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
1,2-Dichloropropane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
1,4-Dichlorobenzene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
2-Butanone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/26/14 19:31	1
2-Hexanone	ug/L	2.1	U	EPA 8260	4.0	2.1		11/26/14 19:31	1
4-Methyl-2-pentanone	ug/L	2.6	U	EPA 8260	4.0	2.6		11/26/14 19:31	1
Acetone	ug/L	2.0	I	EPA 8260	4.0	2.0		11/26/14 19:31	1
Acrylonitrile	ug/L	1.3	U	EPA 8260	4.0	1.3		11/26/14 19:31	1
Benzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
Bromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
Bromodichloromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Bromoform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Bromomethane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 19:31	1
Carbon disulfide	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Carbon tetrachloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Chlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
Chloroethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 19:31	1
Chloroform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Chloromethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 19:31	1
cis-1,2-Dichloroethene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 19:31	1
cis-1,3-Dichloropropene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Dibromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
Dibromomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Ethylbenzene	ug/L	0.08	U	EPA 8260	0.8	0.08		11/26/14 19:31	1
Iodomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-11 21603**
Matrix	**Groundwater**
SAL Sample Number	**1411981-35**
Date/Time Collected	**11/19/14 09:11**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 19:31	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 19:31	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 19:31	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 19:31	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 19:31	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 19:31	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 19:31	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 19:31	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*105 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*98 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*105 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*95 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/25/14 10:09	11/25/14 22:26	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/25/14 10:09	11/25/14 22:26	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*93 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank16 21603**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-36**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 20:02	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 20:02	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/26/14 20:02	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/26/14 20:02	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 20:02	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/26/14 20:02	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 20:02	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 20:02	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 20:02	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 20:02	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/26/14 20:02	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank16 21603**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-36**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/26/14 20:02	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 20:02	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/26/14 20:02	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 20:02	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/26/14 20:02	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/26/14 20:02	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 20:02	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 20:02	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*105 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*99 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*104 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*95 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-12 21604**
Matrix	**Groundwater**
SAL Sample Number	**1411981-37**
Date/Time Collected	**11/19/14 09:51**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
1,1,1-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
1,1,2-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
1,1-Dichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
1,1-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
1,2,3-Trichloropropane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 20:34	1
1,2-Dichlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
1,2-Dichloroethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
1,2-Dichloropropane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
1,4-Dichlorobenzene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
2-Butanone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/26/14 20:34	1
2-Hexanone	ug/L	2.1	U	EPA 8260	4.0	2.1		11/26/14 20:34	1
4-Methyl-2-pentanone	ug/L	2.6	U	EPA 8260	4.0	2.6		11/26/14 20:34	1
Acetone	ug/L	2.4	I	EPA 8260	4.0	2.0		11/26/14 20:34	1
Acrylonitrile	ug/L	1.3	U	EPA 8260	4.0	1.3		11/26/14 20:34	1
Benzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
Bromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
Bromodichloromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Bromoform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Bromomethane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 20:34	1
Carbon disulfide	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Carbon tetrachloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Chlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
Chloroethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 20:34	1
Chloroform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Chloromethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 20:34	1
cis-1,2-Dichloroethene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 20:34	1
cis-1,3-Dichloropropene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Dibromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
Dibromomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Ethylbenzene	ug/L	0.08	U	EPA 8260	0.8	0.08		11/26/14 20:34	1
Iodomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-12 21604**
Matrix	**Groundwater**
SAL Sample Number	**1411981-37**
Date/Time Collected	**11/19/14 09:51**
Collected by	**David E. Wells**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 20:34	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 20:34	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 20:34	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 20:34	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 20:34	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 20:34	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 20:34	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 20:34	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*106 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*94 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*102 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*97 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/25/14 10:09	11/25/14 22:48	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	11/25/14 10:09	11/25/14 22:48	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*111 %*	*Limits*	*85-123*			

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank17 21604**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-38**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 21:05	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 21:05	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/26/14 21:05	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/26/14 21:05	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 21:05	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/26/14 21:05	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 21:05	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 21:05	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 21:05	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 21:05	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/26/14 21:05	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
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Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank17 21604**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-38**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/20/14 15:55**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	I,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/26/14 21:05	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 21:05	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/26/14 21:05	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 21:05	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/26/14 21:05	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/26/14 21:05	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 21:05	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 21:05	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*96 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*106 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*96 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-16 21608**
Matrix	**Groundwater**
SAL Sample Number	**1411981-39**
Date/Time Collected	**11/24/14 09:10**
Collected by	**David E. Wells**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
1,1,1-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
1,1,2-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
1,1-Dichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
1,1-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
1,2,3-Trichloropropane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 21:37	1
1,2-Dichlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
1,2-Dichloroethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
1,2-Dichloropropane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
1,4-Dichlorobenzene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
2-Butanone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/26/14 21:37	1
2-Hexanone	ug/L	2.1	U	EPA 8260	4.0	2.1		11/26/14 21:37	1
4-Methyl-2-pentanone	ug/L	2.6	U	EPA 8260	4.0	2.6		11/26/14 21:37	1
Acetone	ug/L	2.1	I	EPA 8260	4.0	2.0		11/26/14 21:37	1
Acrylonitrile	ug/L	1.3	U	EPA 8260	4.0	1.3		11/26/14 21:37	1
Benzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
Bromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
Bromodichloromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Bromoform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Bromomethane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 21:37	1
Carbon disulfide	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Carbon tetrachloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Chlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
Chloroethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 21:37	1
Chloroform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Chloromethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 21:37	1
cis-1,2-Dichloroethene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 21:37	1
cis-1,3-Dichloropropene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Dibromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
Dibromomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Ethylbenzene	ug/L	0.08	U	EPA 8260	0.8	0.08		11/26/14 21:37	1
Iodomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1

Manatee County Utility Operations Central Lab
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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-16 21608**
Matrix	**Groundwater**
SAL Sample Number	**1411981-39**
Date/Time Collected	**11/24/14 09:10**
Collected by	**David E. Wells**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 21:37	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 21:37	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 21:37	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 21:37	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 21:37	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 21:37	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 21:37	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 21:37	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*108 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*97 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*103 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*96 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0054	U	EPA 8011	0.022	0.0054	12/01/14 11:07	12/01/14 19:29	1
1,2-Dibromoethane	ug/L	0.0054	U	EPA 8011	0.022	0.0054	12/01/14 11:07	12/01/14 19:29	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*90 %*	*Limits*	*85-123*			

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank18 21608**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-40**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 22:08	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 22:08	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/26/14 22:08	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/26/14 22:08	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 22:08	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/26/14 22:08	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 22:08	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 22:08	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 22:08	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 22:08	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/26/14 22:08	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank18 21608**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-40**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/26/14 22:08	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 22:08	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/26/14 22:08	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 22:08	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/26/14 22:08	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/26/14 22:08	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 22:08	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 22:08	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*106 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*97 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*97 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-17 21609**
Matrix	**Groundwater**
SAL Sample Number	**1411981-41**
Date/Time Collected	**11/24/14 09:51**
Collected by	**David E. Wells**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
1,1,1-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
1,1,2-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
1,1-Dichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
1,1-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
1,2,3-Trichloropropane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 22:40	1
1,2-Dichlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
1,2-Dichloroethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
1,2-Dichloropropane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
1,4-Dichlorobenzene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
2-Butanone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/26/14 22:40	1
2-Hexanone	ug/L	2.1	U	EPA 8260	4.0	2.1		11/26/14 22:40	1
4-Methyl-2-pentanone	ug/L	2.6	U	EPA 8260	4.0	2.6		11/26/14 22:40	1
Acetone	ug/L	2.4	I	EPA 8260	4.0	2.0		11/26/14 22:40	1
Acrylonitrile	ug/L	1.3	U	EPA 8260	4.0	1.3		11/26/14 22:40	1
Benzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
Bromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
Bromodichloromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Bromoform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Bromomethane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 22:40	1
Carbon disulfide	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Carbon tetrachloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Chlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
Chloroethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 22:40	1
Chloroform	ug/L	0.3	I	EPA 8260	0.8	0.2		11/26/14 22:40	1
Chloromethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 22:40	1
cis-1,2-Dichloroethene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 22:40	1
cis-1,3-Dichloropropene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Dibromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
Dibromomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Ethylbenzene	ug/L	0.08	U	EPA 8260	0.8	0.08		11/26/14 22:40	1
Iodomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1

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Project Name **LENA RD COUNTY LF**

Sample Description	**GW-17 21609**
Matrix	**Groundwater**
SAL Sample Number	**1411981-41**
Date/Time Collected	**11/24/14 09:51**
Collected by	**David E. Wells**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 22:40	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 22:40	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 22:40	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 22:40	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 22:40	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 22:40	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 22:40	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 22:40	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*106 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*94 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*105 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*98 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	12/01/14 11:07	12/01/14 19:51	1
1,2-Dibromoethane	ug/L	0.0053	U	EPA 8011	0.021	0.0053	12/01/14 11:07	12/01/14 19:51	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*103 %*	*Limits*	*85-123*			

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank19 21609**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-42**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 23:11	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 23:11	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/26/14 23:11	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/26/14 23:11	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/26/14 23:11	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/26/14 23:11	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/26/14 23:11	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 23:11	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 23:11	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 23:11	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/26/14 23:11	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank19 21609**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-42**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/26/14 23:11	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/26/14 23:11	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/26/14 23:11	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/26/14 23:11	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/26/14 23:11	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/26/14 23:11	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/26/14 23:11	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/26/14 23:11	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*96 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*103 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*97 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
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Project Name **LENA RD COUNTY LF**

Sample Description	**BGW-1 21610**
Matrix	**Groundwater**
SAL Sample Number	**1411981-43**
Date/Time Collected	**11/24/14 11:32**
Collected by	**David E. Wells**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
1,1,1-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
1,1,2-Trichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
1,1-Dichloroethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
1,1-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
1,2,3-Trichloropropane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 23:42	1
1,2-Dichlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
1,2-Dichloroethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
1,2-Dichloropropane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
1,4-Dichlorobenzene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
2-Butanone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/26/14 23:42	1
2-Hexanone	ug/L	2.1	U	EPA 8260	4.0	2.1		11/26/14 23:42	1
4-Methyl-2-pentanone	ug/L	2.6	U	EPA 8260	4.0	2.6		11/26/14 23:42	1
Acetone	ug/L	2.0	U	EPA 8260	4.0	2.0		11/26/14 23:42	1
Acrylonitrile	ug/L	1.3	U	EPA 8260	4.0	1.3		11/26/14 23:42	1
Benzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
Bromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
Bromodichloromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Bromoform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Bromomethane	ug/L	0.4	U	EPA 8260	0.8	0.4		11/26/14 23:42	1
Carbon disulfide	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Carbon tetrachloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Chlorobenzene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
Chloroethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 23:42	1
Chloroform	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Chloromethane	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 23:42	1
cis-1,2-Dichloroethene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 23:42	1
cis-1,3-Dichloropropene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Dibromochloromethane	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
Dibromomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Ethylbenzene	ug/L	0.08	U	EPA 8260	0.8	0.08		11/26/14 23:42	1
Iodomethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1

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Project Name **LENA RD COUNTY LF**

Sample Description	**BGW-1 21610**
Matrix	**Groundwater**
SAL Sample Number	**1411981-43**
Date/Time Collected	**11/24/14 11:32**
Collected by	**David E. Wells**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Styrene	ug/L	0.05	U	EPA 8260	0.8	0.05		11/26/14 23:42	1
Tetrachloroethene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
Toluene	ug/L	0.09	U	EPA 8260	0.8	0.09		11/26/14 23:42	1
trans-1,2-Dichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
trans-1,3-Dichloropropene	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U	EPA 8260	0.8	0.3		11/26/14 23:42	1
Trichloroethene	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Trichlorofluoromethane	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Vinyl acetate	ug/L	0.4	U	EPA 8260	1.6	0.4		11/26/14 23:42	1
Vinyl chloride	ug/L	0.3	U	EPA 8260	1.6	0.3		11/26/14 23:42	1
Xylene-m,p	ug/L	0.2	U	EPA 8260	1.6	0.2		11/26/14 23:42	1
Xylene-o	ug/L	0.2	U	EPA 8260	0.8	0.2		11/26/14 23:42	1
Xylenes- Total	ug/L	0.1	U	EPA 8260	0.8	0.1		11/26/14 23:42	1
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*			*104 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*4-Bromofluorobenzene*			*95 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Dibromofluoromethane*			*104 %*	*Limits*	*65-135*			
Surrogate for EPA 8260	*Toluene-d8*			*98 %*	*Limits*	*65-135*			
Pesticide Analyses									
1,2-Dibromo-3-chloropropane	ug/L	0.0055	U	EPA 8011	0.022	0.0055	12/01/14 11:07	12/01/14 20:13	1
1,2-Dibromoethane	ug/L	0.0055	U	EPA 8011	0.022	0.0055	12/01/14 11:07	12/01/14 20:13	1
Surrogate for EPA 8011	*2-Bromo-1-chloropropane*			*110 %*	*Limits*	*85-123*			

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Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank20 21610**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-44**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
1,1,1-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
1,1,2,2-Tetrachloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
1,1,2-Trichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
1,1-Dichloroethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
1,1-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
1,2,3-Trichloropropane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/27/14 00:14	1
1,2-Dichlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1
1,2-Dichloroethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1
1,2-Dichloropropane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
1,4-Dichlorobenzene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
2-Butanone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/27/14 00:14	1
2-Hexanone	ug/L	2.1	U,Q	EPA 8260	4.0	2.1		11/27/14 00:14	1
4-Methyl-2-pentanone	ug/L	2.6	U,Q	EPA 8260	4.0	2.6		11/27/14 00:14	1
Acetone	ug/L	2.0	U,Q	EPA 8260	4.0	2.0		11/27/14 00:14	1
Acrylonitrile	ug/L	1.3	U,Q	EPA 8260	4.0	1.3		11/27/14 00:14	1
Benzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1
Bromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1
Bromodichloromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Bromoform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Bromomethane	ug/L	0.4	U,Q	EPA 8260	0.8	0.4		11/27/14 00:14	1
Carbon disulfide	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Carbon tetrachloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Chlorobenzene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1
Chloroethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/27/14 00:14	1
Chloroform	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Chloromethane	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/27/14 00:14	1
cis-1,2-Dichloroethene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/27/14 00:14	1
cis-1,3-Dichloropropene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Dibromochloromethane	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1
Dibromomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Ethylbenzene	ug/L	0.08	U,Q	EPA 8260	0.8	0.08		11/27/14 00:14	1
Iodomethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**Trip Blank20 21610**
Matrix	**Reagent Water**
SAL Sample Number	**1411981-44**
Date/Time Collected	**10/23/14 12:30**
Collected by	**Melissa McLaughlin**
Date/Time Received	**11/25/14 13:10**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Styrene	ug/L	0.05	U,Q	EPA 8260	0.8	0.05		11/27/14 00:14	1
Tetrachloroethene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1
Toluene	ug/L	0.09	U,Q	EPA 8260	0.8	0.09		11/27/14 00:14	1
trans-1,2-Dichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
trans-1,3-Dichloropropene	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1
trans-1,4-Dichloro-2-butene	ug/L	0.3	U,Q	EPA 8260	0.8	0.3		11/27/14 00:14	1
Trichloroethene	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Trichlorofluoromethane	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Vinyl acetate	ug/L	0.4	U,Q	EPA 8260	1.6	0.4		11/27/14 00:14	1
Vinyl chloride	ug/L	0.3	U,Q	EPA 8260	1.6	0.3		11/27/14 00:14	1
Xylene-m,p	ug/L	0.2	U,Q	EPA 8260	1.6	0.2		11/27/14 00:14	1
Xylene-o	ug/L	0.2	U,Q	EPA 8260	0.8	0.2		11/27/14 00:14	1
Xylenes- Total	ug/L	0.1	U,Q	EPA 8260	0.8	0.1		11/27/14 00:14	1

Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*107 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*97 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Dibromofluoromethane*	*102 %*	*Limits*	*65-135*	*Note:*	*Q*
Surrogate for EPA 8260	*Toluene-d8*	*97 %*	*Limits*	*65-135*	*Note:*	*Q*

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

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Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41029 - VOC - Prep										
Blank (BK41029-BLK1)					Prepared & Analyzed: 11/10/14 14:44					
Acetone	2.0 U	4.0	2.0	ug/L						
Acrylonitrile	1.3 U	4.0	1.3	ug/L						
Benzene	0.1 U	0.8	0.1	ug/L						
Bromochloromethane	0.1 U	0.8	0.1	ug/L						
Bromodichloromethane	0.2 U	0.8	0.2	ug/L						
Bromoform	0.2 U	0.8	0.2	ug/L						
Bromomethane	0.4 U	0.8	0.4	ug/L						
2-Butanone	2.0 U	4.0	2.0	ug/L						
Carbon disulfide	0.2 U	0.8	0.2	ug/L						
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L						
Chlorobenzene	0.1 U	0.8	0.1	ug/L						
Chloroethane	0.4 U	1.6	0.4	ug/L						
Chloroform	0.2 U	0.8	0.2	ug/L						
Chloromethane	0.4 U	1.6	0.4	ug/L						
Dibromochloromethane	0.1 U	0.8	0.1	ug/L						
Dibromomethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L						
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L						
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L						
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L						
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L						
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L						
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L						
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L						
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L						
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L						
Ethylbenzene	0.08 U	0.8	0.08	ug/L						
2-Hexanone	2.1 U	4.0	2.1	ug/L						
Iodomethane	0.2 U	0.8	0.2	ug/L						
Methylene Chloride	0.2 U	0.8	0.2	ug/L						
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L						
Styrene	0.05 U	0.8	0.05	ug/L						
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
Tetrachloroethene	0.1 U	0.8	0.1	ug/L						
Toluene	0.09 U	0.8	0.09	ug/L						
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L						
Trichloroethene	0.2 U	0.8	0.2	ug/L						
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L						
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L						
Vinyl acetate	0.4 U	1.6	0.4	ug/L						
Vinyl chloride	0.3 U	1.6	0.3	ug/L						
Xylene-m,p	0.2 U	1.6	0.2	ug/L						

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Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41029 - VOC - Prep										
Blank (BK41029-BLK1)					Prepared & Analyzed: 11/10/14 14:44					
Xylene-o	0.2 U	0.8	0.2	ug/L						
Xylenes- Total	0.1 U	0.8	0.1	ug/L						
Surrogate: 4-Bromofluorobenzene	*Result:*	*20.1*		*ug/L*	*20*		*100*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result:*	*20.3*		*ug/L*	*20*		*102*	*65-135*		
Surrogate: Toluene-d8	*Result:*	*19.7*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: Dibromofluoromethane	*Result:*	*20.4*		*ug/L*	*20*		*102*	*65-135*		
LCS (BK41029-BS1)					Prepared & Analyzed: 11/10/14 15:15					
Acetone	102	4.0	2.0	ug/L	100		102	70-130		
Acrylonitrile	108	4.0	1.3	ug/L	100		108	70-130		
Benzene	20.0	0.8	0.1	ug/L	20		100	37-151		
Bromochloromethane	19.6	0.8	0.1	ug/L	20		98	70-130		
Bromodichloromethane	19.8	0.8	0.2	ug/L	20		99	35-155		
Bromoform	20.5	0.8	0.2	ug/L	20		102	45-169		
Bromomethane	35.8	0.8	0.4	ug/L	40		90	0-242		
2-Butanone	93.5	4.0	2.0	ug/L	100		93	70-130		
Carbon disulfide	21.3	0.8	0.2	ug/L	20		106	70-130		
Carbon tetrachloride	19.3	0.8	0.2	ug/L	20		97	70-140		
Chlorobenzene	20.3	0.8	0.1	ug/L	20		101	37-160		
Chloroethane	44.2	1.6	0.4	ug/L	40		110	14-230		
Chloroform	19.8	0.8	0.2	ug/L	20		99	51-138		
Chloromethane	47.1	1.6	0.4	ug/L	40		118	1-273		
Dibromochloromethane	19.8	0.8	0.1	ug/L	20		99	53-149		
Dibromomethane	19.4	0.8	0.2	ug/L	20		97	70-130		
1,2-Dichlorobenzene	20.8	0.8	0.1	ug/L	20		104	18-190		
1,4-Dichlorobenzene	20.2	0.8	0.2	ug/L	20		101	18-190		
trans-1,4-Dichloro-2-butene	19.2	0.8	0.3	ug/L	20		96	70-130		
1,1-Dichloroethane	20.1	0.8	0.2	ug/L	20		101	59-155		
1,2-Dichloroethane	19.3	0.8	0.1	ug/L	20		96	49-155		
1,1-Dichloroethene	20.7	0.8	0.2	ug/L	20		104	1-234		
cis-1,2-Dichloroethene	20.2	0.8	0.09	ug/L	20		101	70-130		
trans-1,2-Dichloroethene	20.6	0.8	0.2	ug/L	20		103	54-156		
1,2-Dichloropropane	20.7	0.8	0.2	ug/L	20		104	1-210		
cis-1,3-Dichloropropene	21.3	0.8	0.2	ug/L	20		107	1-227		
trans-1,3-Dichloropropene	19.3	0.8	0.1	ug/L	20		97	17-183		
Ethylbenzene	19.5	0.8	0.08	ug/L	20		98	37-162		
2-Hexanone	98.2	4.0	2.1	ug/L	100		98	70-130		
Iodomethane	23.1	0.8	0.2	ug/L	20		116	70-130		
Methylene Chloride	20.7	0.8	0.2	ug/L	20		103	1-221		
4-Methyl-2-pentanone	94.8	4.0	2.6	ug/L	100		95	70-130		
Styrene	18.9	0.8	0.05	ug/L	20		94	70-130		
1,1,1,2-Tetrachloroethane	19.7	0.8	0.2	ug/L	20		99	70-130		
1,1,2,2-Tetrachloroethane	20.2	0.8	0.2	ug/L	20		101	46-157		
Tetrachloroethene	20.2	0.8	0.1	ug/L	20		101	64-148		
Toluene	19.7	0.8	0.09	ug/L	20		98	47-150		

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Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41029 - VOC - Prep										
LCS (BK41029-BS1)					Prepared & Analyzed: 11/10/14 15:15					
1,1,1-Trichloroethane	19.9	0.8	0.2	ug/L	20		99	52-162		
1,1,2-Trichloroethane	18.9	0.8	0.2	ug/L	20		94	52-150		
Trichloroethene	19.6	0.8	0.2	ug/L	20		98	71-157		
Trichlorofluoromethane	21.9	0.8	0.2	ug/L	20		110	17-181		
1,2,3-Trichloropropane	20.6	0.8	0.4	ug/L	20		103	70-130		
Vinyl acetate	40.2	1.6	0.4	ug/L	40		100	70-130		
Vinyl chloride	43.3	1.6	0.3	ug/L	40		108	1-251		
Xylene-m,p	39.3	1.6	0.2	ug/L	40		98	70-130		
Xylene-o	18.9	0.8	0.2	ug/L	20		95	70-130		
Surrogate: 4-Bromofluorobenzene		*Result: 20.3*		*ug/L*	*20*		*101*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 20.0*		*ug/L*	*20*		*100*	*65-135*		
Surrogate: Toluene-d8		*Result: 20.0*		*ug/L*	*20*		*100*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 19.6*		*ug/L*	*20*		*98*	*65-135*		
Duplicate (BK41029-DUP1)		**Source: 1411981-01**			Prepared & Analyzed: 11/10/14 18:40					
Acetone	2.0 U	4.0	2.0	ug/L		ND				20
Acrylonitrile	1.3 U	4.0	1.3	ug/L		ND				20
Benzene	0.1 U	0.8	0.1	ug/L		ND				20
Bromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Bromodichloromethane	0.2 U	0.8	0.2	ug/L		ND				20
Bromoform	0.2 U	0.8	0.2	ug/L		ND				20
Bromomethane	0.4 U	0.8	0.4	ug/L		ND				20
2-Butanone	2.0 U	4.0	2.0	ug/L		ND				20
Carbon disulfide	0.2 U	0.8	0.2	ug/L		ND				20
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L		ND				20
Chlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
Chloroethane	0.4 U	1.6	0.4	ug/L		ND				20
Chloroform	0.2 U	0.8	0.2	ug/L		ND				20
Chloromethane	0.4 U	1.6	0.4	ug/L		ND				20
Dibromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Dibromomethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L		ND				20
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L		ND				20
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L		ND				20
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L		ND				20
Ethylbenzene	0.08 U	0.8	0.08	ug/L		ND				20
2-Hexanone	2.1 U	4.0	2.1	ug/L		ND				20
Iodomethane	0.2 U	0.8	0.2	ug/L		ND				20

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Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41029 - VOC - Prep										
Duplicate (BK41029-DUP1)		**Source: 1411981-01**			Prepared & Analyzed: 11/10/14 18:40					
Methylene Chloride	0.2 U	0.8	0.2	ug/L		ND				20
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L		ND				20
Styrene	0.05 U	0.8	0.05	ug/L		ND				20
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Tetrachloroethene	0.1 U	0.8	0.1	ug/L		ND				20
Toluene	0.09 U	0.8	0.09	ug/L		ND				20
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Trichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L		ND				20
Vinyl acetate	0.4 U	1.6	0.4	ug/L		ND				20
Vinyl chloride	0.3 U	1.6	0.3	ug/L		ND				20
Xylene-m,p	0.2 U	1.6	0.2	ug/L		ND				20
Xylene-o	0.2 U	0.8	0.2	ug/L		ND				20
Xylenes- Total	0.1 U	0.8	0.1	ug/L		ND				20
Surrogate: 4-Bromofluorobenzene		*Result:*	*19.9*	*ug/L*	*20*		*99*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result:*	*20.8*	*ug/L*	*20*		*104*	*65-135*		
Surrogate: Toluene-d8		*Result:*	*19.7*	*ug/L*	*20*		*99*	*65-135*		
Surrogate: Dibromofluoromethane		*Result:*	*20.8*	*ug/L*	*20*		*104*	*65-135*		
Matrix Spike (BK41029-MS1)		**Source: 1411981-03**			Prepared & Analyzed: 11/10/14 17:38					
Acetone	95.7	4.0	2.0	ug/L	100	ND	96	65-135		
Acrylonitrile	105	4.0	1.3	ug/L	100	ND	105	60-140		
Benzene	19.8	0.8	0.1	ug/L	20	ND	99	37-151		
Bromochloromethane	19.5	0.8	0.1	ug/L	20	ND	98	65-135		
Bromodichloromethane	20.0	0.8	0.2	ug/L	20	ND	100	35-155		
Bromoform	20.8	0.8	0.2	ug/L	20	ND	104	45-169		
Bromomethane	44.8	0.8	0.4	ug/L	40	ND	112	1-242		
2-Butanone	91.8	4.0	2.0	ug/L	100	ND	92	65-135		
Carbon disulfide	20.8	0.8	0.2	ug/L	20	ND	104	65-135		
Carbon tetrachloride	19.9	0.8	0.2	ug/L	20	ND	99	70-140		
Chlorobenzene	19.9	0.8	0.1	ug/L	20	ND	99	37-160		
Chloroethane	45.1	1.6	0.4	ug/L	40	ND	113	14-230		
Chloroform	20.2	0.8	0.2	ug/L	20	ND	101	51-138		
Chloromethane	38.6	1.6	0.4	ug/L	40	ND	97	0-273		
Dibromochloromethane	20.5	0.8	0.1	ug/L	20	ND	102	53-149		
Dibromomethane	19.4	0.8	0.2	ug/L	20	ND	97	65-135		
1,2-Dichlorobenzene	20.2	0.8	0.1	ug/L	20	ND	101	18-190		
1,4-Dichlorobenzene	19.9	0.8	0.2	ug/L	20	ND	99	18-190		
trans-1,4-Dichloro-2-butene	19.5	0.8	0.3	ug/L	20	ND	98	65-135		
1,1-Dichloroethane	20.2	0.8	0.2	ug/L	20	ND	101	59-155		
1,2-Dichloroethane	19.7	0.8	0.1	ug/L	20	ND	98	49-155		
1,1-Dichloroethene	19.4	0.8	0.2	ug/L	20	ND	97	1-234		

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Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41029 - VOC - Prep										
Matrix Spike (BK41029-MS1)		**Source: 1411981-03**			Prepared & Analyzed: 11/10/14 17:38					
cis-1,2-Dichloroethene	19.8	0.8	0.09	ug/L	20	ND	99	65-135		
trans-1,2-Dichloroethene	20.1	0.8	0.2	ug/L	20	ND	100	54-156		
1,2-Dichloropropane	20.6	0.8	0.2	ug/L	20	ND	103	0-210		
cis-1,3-Dichloropropene	20.5	0.8	0.2	ug/L	20	ND	102	1-227		
trans-1,3-Dichloropropene	19.1	0.8	0.1	ug/L	20	ND	95	17-183		
Ethylbenzene	19.1	0.8	0.08	ug/L	20	ND	96	37-162		
2-Hexanone	99.3	4.0	2.1	ug/L	100	ND	99	65-135		
Iodomethane	25.8	0.8	0.2	ug/L	20	ND	129	65-135		
Methylene Chloride	20.2	0.8	0.2	ug/L	20	ND	101	1-221		
4-Methyl-2-pentanone	94.0	4.0	2.6	ug/L	100	ND	94	65-135		
Styrene	18.6	0.8	0.05	ug/L	20	ND	93	65-135		
1,1,1,2-Tetrachloroethane	19.4	0.8	0.2	ug/L	20	ND	97	65-135		
1,1,2,2-Tetrachloroethane	19.3	0.8	0.2	ug/L	20	ND	97	46-157		
Tetrachloroethene	19.9	0.8	0.1	ug/L	20	ND	100	64-148		
Toluene	19.2	0.8	0.09	ug/L	20	ND	96	47-150		
1,1,1-Trichloroethane	20.0	0.8	0.2	ug/L	20	ND	100	52-162		
1,1,2-Trichloroethane	18.5	0.8	0.2	ug/L	20	ND	92	52-150		
Trichloroethene	19.4	0.8	0.2	ug/L	20	ND	97	71-157		
Trichlorofluoromethane	21.6	0.8	0.2	ug/L	20	ND	108	17-181		
1,2,3-Trichloropropane	20.0	0.8	0.4	ug/L	20	ND	100	65-135		
Vinyl acetate	41.5	1.6	0.4	ug/L	40	ND	104	65-135		
Vinyl chloride	39.5	1.6	0.3	ug/L	40	ND	99	1-251		
Xylene-m,p	39.3	1.6	0.2	ug/L	40	ND	98	60-140		
Xylene-o	18.5	0.8	0.2	ug/L	20	ND	93	60-140		
Surrogate: 4-Bromofluorobenzene		*Result: 20.1*		*ug/L*	*20*		*101*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 20.2*		*ug/L*	*20*		*101*	*65-135*		
Surrogate: Toluene-d8		*Result: 20.1*		*ug/L*	*20*		*101*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 20.1*		*ug/L*	*20*		*100*	*65-135*		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41317 - VOC - Prep										
Blank (BK41317-BLK1)					Prepared & Analyzed: 11/13/14 13:23					
Acetone	2.0 U	4.0	2.0	ug/L						
Acrylonitrile	1.3 U	4.0	1.3	ug/L						
Benzene	0.1 U	0.8	0.1	ug/L						
Bromochloromethane	0.1 U	0.8	0.1	ug/L						
Bromodichloromethane	0.2 U	0.8	0.2	ug/L						
Bromoform	0.2 U	0.8	0.2	ug/L						
Bromomethane	0.4 U	0.8	0.4	ug/L						
2-Butanone	2.0 U	4.0	2.0	ug/L						
Carbon disulfide	0.2 U	0.8	0.2	ug/L						
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L						
Chlorobenzene	0.1 U	0.8	0.1	ug/L						
Chloroethane	0.4 U	1.6	0.4	ug/L						
Chloroform	0.2 U	0.8	0.2	ug/L						
Chloromethane	0.4 U	1.6	0.4	ug/L						
Dibromochloromethane	0.1 U	0.8	0.1	ug/L						
Dibromomethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L						
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L						
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L						
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L						
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L						
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L						
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L						
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L						
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L						
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L						
Ethylbenzene	0.08 U	0.8	0.08	ug/L						
2-Hexanone	2.1 U	4.0	2.1	ug/L						
Iodomethane	0.2 U	0.8	0.2	ug/L						
Methylene Chloride	0.2 U	0.8	0.2	ug/L						
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L						
Styrene	0.05 U	0.8	0.05	ug/L						
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
Tetrachloroethene	0.1 U	0.8	0.1	ug/L						
Toluene	0.09 U	0.8	0.09	ug/L						
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L						
Trichloroethene	0.2 U	0.8	0.2	ug/L						
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L						
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L						
Vinyl acetate	0.4 U	1.6	0.4	ug/L						
Vinyl chloride	0.3 U	1.6	0.3	ug/L						
Xylene-m,p	0.2 U	1.6	0.2	ug/L						

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41317 - VOC - Prep										
Blank (BK41317-BLK1)					Prepared & Analyzed: 11/13/14 13:23					
Xylene-o	0.2 U	0.8	0.2	ug/L						
Xylenes- Total	0.1 U	0.8	0.1	ug/L						
Surrogate: 4-Bromofluorobenzene	*Result:*	*19.5*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result:*	*20.9*		*ug/L*	*20*		*104*	*65-135*		
Surrogate: Toluene-d8	*Result:*	*19.6*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: Dibromofluoromethane	*Result:*	*20.5*		*ug/L*	*20*		*103*	*65-135*		
LCS (BK41317-BS1)					Prepared & Analyzed: 11/13/14 13:54					
Acetone	108	4.0	2.0	ug/L	100		108	70-130		
Acrylonitrile	119	4.0	1.3	ug/L	100		119	70-130		
Benzene	20.6	0.8	0.1	ug/L	20		103	37-151		
Bromochloromethane	20.1	0.8	0.1	ug/L	20		101	70-130		
Bromodichloromethane	20.5	0.8	0.2	ug/L	20		102	35-155		
Bromoform	21.6	0.8	0.2	ug/L	20		108	45-169		
Bromomethane	44.3	0.8	0.4	ug/L	40		111	0-242		
2-Butanone	109	4.0	2.0	ug/L	100		109	70-130		
Carbon disulfide	21.9	0.8	0.2	ug/L	20		110	70-130		
Carbon tetrachloride	19.6	0.8	0.2	ug/L	20		98	70-140		
Chlorobenzene	20.5	0.8	0.1	ug/L	20		102	37-160		
Chloroethane	43.0	1.6	0.4	ug/L	40		107	14-230		
Chloroform	20.4	0.8	0.2	ug/L	20		102	51-138		
Chloromethane	41.8	1.6	0.4	ug/L	40		105	1-273		
Dibromochloromethane	20.7	0.8	0.1	ug/L	20		104	53-149		
Dibromomethane	20.6	0.8	0.2	ug/L	20		103	70-130		
1,2-Dichlorobenzene	20.8	0.8	0.1	ug/L	20		104	18-190		
1,4-Dichlorobenzene	20.2	0.8	0.2	ug/L	20		101	18-190		
trans-1,4-Dichloro-2-butene	20.7	0.8	0.3	ug/L	20		103	70-130		
1,1-Dichloroethane	20.8	0.8	0.2	ug/L	20		104	59-155		
1,2-Dichloroethane	20.3	0.8	0.1	ug/L	20		102	49-155		
1,1-Dichloroethene	20.0	0.8	0.2	ug/L	20		100	1-234		
cis-1,2-Dichloroethene	20.5	0.8	0.09	ug/L	20		103	70-130		
trans-1,2-Dichloroethene	20.4	0.8	0.2	ug/L	20		102	54-156		
1,2-Dichloropropane	21.5	0.8	0.2	ug/L	20		107	1-210		
cis-1,3-Dichloropropene	21.2	0.8	0.2	ug/L	20		106	1-227		
trans-1,3-Dichloropropene	19.6	0.8	0.1	ug/L	20		98	17-183		
Ethylbenzene	19.7	0.8	0.08	ug/L	20		99	37-162		
2-Hexanone	111	4.0	2.1	ug/L	100		111	70-130		
Iodomethane	21.4	0.8	0.2	ug/L	20		107	70-130		
Methylene Chloride	21.1	0.8	0.2	ug/L	20		106	1-221		
4-Methyl-2-pentanone	107	4.0	2.6	ug/L	100		107	70-130		
Styrene	18.9	0.8	0.05	ug/L	20		94	70-130		
1,1,1,2-Tetrachloroethane	19.7	0.8	0.2	ug/L	20		99	70-130		
1,1,2,2-Tetrachloroethane	21.7	0.8	0.2	ug/L	20		108	46-157		
Tetrachloroethene	19.8	0.8	0.1	ug/L	20		99	64-148		
Toluene	19.8	0.8	0.09	ug/L	20		99	47-150		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41317 - VOC - Prep										
LCS (BK41317-BS1)					Prepared & Analyzed: 11/13/14 13:54					
1,1,1-Trichloroethane	20.0	0.8	0.2	ug/L	20		100	52-162		
1,1,2-Trichloroethane	19.6	0.8	0.2	ug/L	20		98	52-150		
Trichloroethene	20.8	0.8	0.2	ug/L	20		104	71-157		
Trichlorofluoromethane	22.3	0.8	0.2	ug/L	20		112	17-181		
1,2,3-Trichloropropane	22.5	0.8	0.4	ug/L	20		113	70-130		
Vinyl acetate	43.9	1.6	0.4	ug/L	40		110	70-130		
Vinyl chloride	39.5	1.6	0.3	ug/L	40		99	1-251		
Xylene-m,p	40.1	1.6	0.2	ug/L	40		100	70-130		
Xylene-o	19.0	0.8	0.2	ug/L	20		95	70-130		
Surrogate: 4-Bromofluorobenzene		*Result: 20.6*		*ug/L*	*20*		*103*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 19.4*		*ug/L*	*20*		*97*	*65-135*		
Surrogate: Toluene-d8		*Result: 20.0*		*ug/L*	*20*		*100*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 20.2*		*ug/L*	*20*		*101*	*65-135*		
Duplicate (BK41317-DUP1)		**Source: 1411981-07**			Prepared & Analyzed: 11/13/14 18:24					
Acetone	2.0 U	4.0	2.0	ug/L		ND				20
Acrylonitrile	1.3 U	4.0	1.3	ug/L		ND				20
Benzene	0.1 U	0.8	0.1	ug/L		ND				20
Bromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Bromodichloromethane	0.2 U	0.8	0.2	ug/L		ND				20
Bromoform	0.2 U	0.8	0.2	ug/L		ND				20
Bromomethane	0.4 U	0.8	0.4	ug/L		ND				20
2-Butanone	8.59	4.0	2.0	ug/L		8.63			0.5	20
Carbon disulfide	0.2 U	0.8	0.2	ug/L		ND				20
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L		ND				20
Chlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
Chloroethane	2.62	1.6	0.4	ug/L		ND				20
Chloroform	0.2 U	0.8	0.2	ug/L		ND				20
Chloromethane	0.4 U	1.6	0.4	ug/L		ND				20
Dibromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Dibromomethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L		ND				20
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L		ND				20
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L		ND				20
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L		ND				20
Ethylbenzene	0.08 U	0.8	0.08	ug/L		ND				20
2-Hexanone	2.1 U	4.0	2.1	ug/L		ND				20
Iodomethane	0.2 U	0.8	0.2	ug/L		ND				20

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41317 - VOC - Prep										
Duplicate (BK41317-DUP1)		**Source: 1411981-07**			Prepared & Analyzed: 11/13/14 18:24					
Methylene Chloride	0.2 U	0.8	0.2	ug/L		ND				20
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L		ND				20
Styrene	0.05 U	0.8	0.05	ug/L		ND				20
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Tetrachloroethene	0.1 U	0.8	0.1	ug/L		ND				20
Toluene	0.09 U	0.8	0.09	ug/L		ND				20
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Trichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L		ND				20
Vinyl acetate	0.4 U	1.6	0.4	ug/L		ND				20
Vinyl chloride	0.3 U	1.6	0.3	ug/L		ND				20
Xylene-m,p	0.2 U	1.6	0.2	ug/L		ND				20
Xylene-o	0.2 U	0.8	0.2	ug/L		ND				20
Xylenes- Total	0.1 U	0.8	0.1	ug/L		ND				20
Surrogate: 4-Bromofluorobenzene	*Result:*	*19.5*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result:*	*20.2*		*ug/L*	*20*		*101*	*65-135*		
Surrogate: Toluene-d8	*Result:*	*19.6*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: Dibromofluoromethane	*Result:*	*19.0*		*ug/L*	*20*		*95*	*65-135*		
Matrix Spike (BK41317-MS1)		**Source: 1411981-11**			Prepared & Analyzed: 11/13/14 15:45					
Acetone	106	4.0	2.0	ug/L	100	ND	106	65-135		
Acrylonitrile	114	4.0	1.3	ug/L	100	ND	114	60-140		
Benzene	20.9	0.8	0.1	ug/L	20	ND	104	37-151		
Bromochloromethane	19.5	0.8	0.1	ug/L	20	ND	98	65-135		
Bromodichloromethane	19.7	0.8	0.2	ug/L	20	ND	98	35-155		
Bromoform	20.1	0.8	0.2	ug/L	20	ND	100	45-169		
Bromomethane	46.9	0.8	0.4	ug/L	40	ND	117	1-242		
2-Butanone	93.7	4.0	2.0	ug/L	100	ND	94	65-135		
Carbon disulfide	22.8	0.8	0.2	ug/L	20	ND	114	65-135		
Carbon tetrachloride	18.2	0.8	0.2	ug/L	20	ND	91	70-140		
Chlorobenzene	20.6	0.8	0.1	ug/L	20	ND	103	37-160		
Chloroethane	46.2	1.6	0.4	ug/L	40	ND	115	14-230		
Chloroform	19.8	0.8	0.2	ug/L	20	ND	99	51-138		
Chloromethane	40.3	1.6	0.4	ug/L	40	ND	101	0-273		
Dibromochloromethane	19.6	0.8	0.1	ug/L	20	ND	98	53-149		
Dibromomethane	19.4	0.8	0.2	ug/L	20	ND	97	65-135		
1,2-Dichlorobenzene	21.1	0.8	0.1	ug/L	20	ND	106	18-190		
1,4-Dichlorobenzene	21.0	0.8	0.2	ug/L	20	ND	105	18-190		
trans-1,4-Dichloro-2-butene	18.4	0.8	0.3	ug/L	20	ND	92	65-135		
1,1-Dichloroethane	20.5	0.8	0.2	ug/L	20	ND	103	59-155		
1,2-Dichloroethane	18.3	0.8	0.1	ug/L	20	ND	91	49-155		
1,1-Dichloroethene	20.8	0.8	0.2	ug/L	20	ND	104	1-234		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41317 - VOC - Prep										
Matrix Spike (BK41317-MS1)		**Source: 1411981-11**			Prepared & Analyzed: 11/13/14 15:45					
cis-1,2-Dichloroethene	20.8	0.8	0.09	ug/L	20	ND	104	65-135		
trans-1,2-Dichloroethene	21.0	0.8	0.2	ug/L	20	ND	105	54-156		
1,2-Dichloropropane	21.7	0.8	0.2	ug/L	20	ND	108	0-210		
cis-1,3-Dichloropropene	21.2	0.8	0.2	ug/L	20	ND	106	1-227		
trans-1,3-Dichloropropene	18.8	0.8	0.1	ug/L	20	ND	94	17-183		
Ethylbenzene	19.8	0.8	0.08	ug/L	20	ND	99	37-162		
2-Hexanone	96.3	4.0	2.1	ug/L	100	ND	96	65-135		
Iodomethane	23.8	0.8	0.2	ug/L	20	ND	119	65-135		
Methylene Chloride	21.7	0.8	0.2	ug/L	20	ND	108	1-221		
4-Methyl-2-pentanone	98.9	4.0	2.6	ug/L	100	ND	99	65-135		
Styrene	19.2	0.8	0.05	ug/L	20	ND	96	65-135		
1,1,1,2-Tetrachloroethane	19.1	0.8	0.2	ug/L	20	ND	95	65-135		
1,1,2,2-Tetrachloroethane	20.7	0.8	0.2	ug/L	20	ND	104	46-157		
Tetrachloroethene	19.9	0.8	0.1	ug/L	20	ND	99	64-148		
Toluene	20.3	0.8	0.09	ug/L	20	ND	101	47-150		
1,1,1-Trichloroethane	18.5	0.8	0.2	ug/L	20	ND	93	52-162		
1,1,2-Trichloroethane	19.3	0.8	0.2	ug/L	20	ND	97	52-150		
Trichloroethene	20.1	0.8	0.2	ug/L	20	ND	101	71-157		
Trichlorofluoromethane	20.5	0.8	0.2	ug/L	20	ND	102	17-181		
1,2,3-Trichloropropane	21.0	0.8	0.4	ug/L	20	ND	105	65-135		
Vinyl acetate	40.6	1.6	0.4	ug/L	40	ND	101	65-135		
Vinyl chloride	41.0	1.6	0.3	ug/L	40	ND	103	1-251		
Xylene-m,p	39.8	1.6	0.2	ug/L	40	ND	100	60-140		
Xylene-o	19.1	0.8	0.2	ug/L	20	ND	95	60-140		
Surrogate: 4-Bromofluorobenzene		*Result: 20.1*		*ug/L*	*20*		*101*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 20.0*		*ug/L*	*20*		*100*	*65-135*		
Surrogate: Toluene-d8		*Result: 19.8*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 18.6*		*ug/L*	*20*		*93*	*65-135*		

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Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41933 - VOC - Prep										
Blank (BK41933-BLK1)					Prepared & Analyzed: 11/19/14 12:51					
Acetone	2.0 U	4.0	2.0	ug/L						
Acrylonitrile	1.3 U	4.0	1.3	ug/L						
Benzene	0.1 U	0.8	0.1	ug/L						
Bromochloromethane	0.1 U	0.8	0.1	ug/L						
Bromodichloromethane	0.2 U	0.8	0.2	ug/L						
Bromoform	0.2 U	0.8	0.2	ug/L						
Bromomethane	0.4 U	0.8	0.4	ug/L						
2-Butanone	2.0 U	4.0	2.0	ug/L						
Carbon disulfide	0.2 U	0.8	0.2	ug/L						
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L						
Chlorobenzene	0.1 U	0.8	0.1	ug/L						
Chloroethane	0.4 U	1.6	0.4	ug/L						
Chloroform	0.2 U	0.8	0.2	ug/L						
Chloromethane	0.4 U	1.6	0.4	ug/L						
Dibromochloromethane	0.1 U	0.8	0.1	ug/L						
Dibromomethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L						
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L						
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L						
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L						
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L						
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L						
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L						
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L						
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L						
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L						
Ethylbenzene	0.08 U	0.8	0.08	ug/L						
2-Hexanone	2.1 U	4.0	2.1	ug/L						
Iodomethane	0.2 U	0.8	0.2	ug/L						
Methylene Chloride	0.2 U	0.8	0.2	ug/L						
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L						
Styrene	0.05 U	0.8	0.05	ug/L						
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
Tetrachloroethene	0.1 U	0.8	0.1	ug/L						
Toluene	0.09 U	0.8	0.09	ug/L						
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L						
Trichloroethene	0.2 U	0.8	0.2	ug/L						
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L						
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L						
Vinyl acetate	0.4 U	1.6	0.4	ug/L						
Vinyl chloride	0.3 U	1.6	0.3	ug/L						
Xylene-m,p	0.2 U	1.6	0.2	ug/L						

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41933 - VOC - Prep										
Blank (BK41933-BLK1)					Prepared & Analyzed: 11/19/14 12:51					
Xylene-o	0.2 U	0.8	0.2	ug/L						
Xylenes- Total	0.1 U	0.8	0.1	ug/L						
Surrogate: 4-Bromofluorobenzene	*Result:*	*20.0*		*ug/L*	*20*		*100*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result:*	*20.2*		*ug/L*	*20*		*101*	*65-135*		
Surrogate: Toluene-d8	*Result:*	*19.6*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: Dibromofluoromethane	*Result:*	*20.6*		*ug/L*	*20*		*103*	*65-135*		
Blank (BK41933-BLK2)					Prepared & Analyzed: 11/20/14 12:10					
Acetone	2.0 U	4.0	2.0	ug/L						
Acrylonitrile	1.3 U	4.0	1.3	ug/L						
Benzene	0.1 U	0.8	0.1	ug/L						
Bromochloromethane	0.1 U	0.8	0.1	ug/L						
Bromodichloromethane	0.2 U	0.8	0.2	ug/L						
Bromoform	0.2 U	0.8	0.2	ug/L						
Bromomethane	0.4 U	0.8	0.4	ug/L						
2-Butanone	2.0 U	4.0	2.0	ug/L						
Carbon disulfide	0.2 U	0.8	0.2	ug/L						
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L						
Chlorobenzene	0.1 U	0.8	0.1	ug/L						
Chloroethane	0.4 U	1.6	0.4	ug/L						
Chloroform	0.2 U	0.8	0.2	ug/L						
Chloromethane	0.4 U	1.6	0.4	ug/L						
Dibromochloromethane	0.1 U	0.8	0.1	ug/L						
Dibromomethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L						
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L						
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L						
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L						
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L						
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L						
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L						
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L						
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L						
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L						
Ethylbenzene	0.08 U	0.8	0.08	ug/L						
2-Hexanone	2.1 U	4.0	2.1	ug/L						
Iodomethane	0.2 U	0.8	0.2	ug/L						
Methylene Chloride	0.2 U	0.8	0.2	ug/L						
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L						
Styrene	0.05 U	0.8	0.05	ug/L						
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
Tetrachloroethene	0.1 U	0.8	0.1	ug/L						
Toluene	0.09 U	0.8	0.09	ug/L						

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41933 - VOC - Prep										
Blank (BK41933-BLK2)					Prepared & Analyzed: 11/20/14 12:10					
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L						
Trichloroethene	0.2 U	0.8	0.2	ug/L						
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L						
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L						
Vinyl acetate	0.4 U	1.6	0.4	ug/L						
Vinyl chloride	0.3 U	1.6	0.3	ug/L						
Xylene-m,p	0.2 U	1.6	0.2	ug/L						
Xylene-o	0.2 U	0.8	0.2	ug/L						
Xylenes- Total	0.1 U	0.8	0.1	ug/L						
Surrogate: 4-Bromofluorobenzene	*Result:*	*19.6*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result:*	*22.0*		*ug/L*	*20*		*110*	*65-135*		
Surrogate: Toluene-d8	*Result:*	*19.5*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: Dibromofluoromethane	*Result:*	*20.7*		*ug/L*	*20*		*104*	*65-135*		
LCS (BK41933-BS1)					Prepared & Analyzed: 11/19/14 13:22					
Acetone	97.4	4.0	2.0	ug/L	100		97	70-130		
Acrylonitrile	103	4.0	1.3	ug/L	100		103	70-130		
Benzene	19.7	0.8	0.1	ug/L	20		98	37-151		
Bromochloromethane	20.5	0.8	0.1	ug/L	20		103	70-130		
Bromodichloromethane	20.0	0.8	0.2	ug/L	20		100	35-155		
Bromoform	18.8	0.8	0.2	ug/L	20		94	45-169		
Bromomethane	40.7	0.8	0.4	ug/L	40		102	0-242		
2-Butanone	101	4.0	2.0	ug/L	100		101	70-130		
Carbon disulfide	21.9	0.8	0.2	ug/L	20		109	70-130		
Carbon tetrachloride	20.8	0.8	0.2	ug/L	20		104	70-140		
Chlorobenzene	20.1	0.8	0.1	ug/L	20		101	37-160		
Chloroethane	45.6	1.6	0.4	ug/L	40		114	14-230		
Chloroform	20.8	0.8	0.2	ug/L	20		104	51-138		
Chloromethane	42.6	1.6	0.4	ug/L	40		106	1-273		
Dibromochloromethane	20.3	0.8	0.1	ug/L	20		101	53-149		
Dibromomethane	20.6	0.8	0.2	ug/L	20		103	70-130		
1,2-Dichlorobenzene	19.9	0.8	0.1	ug/L	20		100	18-190		
1,4-Dichlorobenzene	19.9	0.8	0.2	ug/L	20		100	18-190		
trans-1,4-Dichloro-2-butene	17.9	0.8	0.3	ug/L	20		89	70-130		
1,1-Dichloroethane	20.9	0.8	0.2	ug/L	20		105	59-155		
1,2-Dichloroethane	20.2	0.8	0.1	ug/L	20		101	49-155		
1,1-Dichloroethene	21.4	0.8	0.2	ug/L	20		107	1-234		
cis-1,2-Dichloroethene	19.8	0.8	0.09	ug/L	20		99	70-130		
trans-1,2-Dichloroethene	20.4	0.8	0.2	ug/L	20		102	54-156		
1,2-Dichloropropane	21.0	0.8	0.2	ug/L	20		105	1-210		
cis-1,3-Dichloropropene	19.3	0.8	0.2	ug/L	20		96	1-227		
trans-1,3-Dichloropropene	19.2	0.8	0.1	ug/L	20		96	17-183		
Ethylbenzene	19.8	0.8	0.08	ug/L	20		99	37-162		
2-Hexanone	103	4.0	2.1	ug/L	100		103	70-130		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41933 - VOC - Prep										
LCS (BK41933-BS1)					Prepared & Analyzed: 11/19/14 13:22					
Iodomethane	21.8	0.8	0.2	ug/L	20		109	70-130		
Methylene Chloride	20.4	0.8	0.2	ug/L	20		102	1-221		
4-Methyl-2-pentanone	102	4.0	2.6	ug/L	100		102	70-130		
Styrene	19.8	0.8	0.05	ug/L	20		99	70-130		
1,1,1,2-Tetrachloroethane	20.7	0.8	0.2	ug/L	20		104	70-130		
1,1,2,2-Tetrachloroethane	19.4	0.8	0.2	ug/L	20		97	46-157		
Tetrachloroethene	20.0	0.8	0.1	ug/L	20		100	64-148		
Toluene	19.2	0.8	0.09	ug/L	20		96	47-150		
1,1,1-Trichloroethane	20.7	0.8	0.2	ug/L	20		104	52-162		
1,1,2-Trichloroethane	20.2	0.8	0.2	ug/L	20		101	52-150		
Trichloroethene	20.6	0.8	0.2	ug/L	20		103	71-157		
Trichlorofluoromethane	22.3	0.8	0.2	ug/L	20		111	17-181		
1,2,3-Trichloropropane	20.2	0.8	0.4	ug/L	20		101	70-130		
Vinyl acetate	29.1	1.6	0.4	ug/L	40		73	70-130		
Vinyl chloride	44.7	1.6	0.3	ug/L	40		112	1-251		
Xylene-m,p	38.6	1.6	0.2	ug/L	40		96	70-130		
Xylene-o	19.6	0.8	0.2	ug/L	20		98	70-130		
Surrogate: 4-Bromofluorobenzene		*Result: 19.4*		*ug/L*	*20*		*97*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 20.0*		*ug/L*	*20*		*100*	*65-135*		
Surrogate: Toluene-d8		*Result: 19.7*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 20.0*		*ug/L*	*20*		*100*	*65-135*		
LCS (BK41933-BS2)					Prepared & Analyzed: 11/20/14 12:42					
Acetone	92.8	4.0	2.0	ug/L	100		93	70-130		
Acrylonitrile	103	4.0	1.3	ug/L	100		103	70-130		
Benzene	19.3	0.8	0.1	ug/L	20		97	37-151		
Bromochloromethane	20.0	0.8	0.1	ug/L	20		100	70-130		
Bromodichloromethane	18.7	0.8	0.2	ug/L	20		93	35-155		
Bromoform	16.1	0.8	0.2	ug/L	20		80	45-169		
Bromomethane	41.4	0.8	0.4	ug/L	40		104	0-242		
2-Butanone	99.4	4.0	2.0	ug/L	100		99	70-130		
Carbon disulfide	19.6	0.8	0.2	ug/L	20		98	70-130		
Carbon tetrachloride	18.0	0.8	0.2	ug/L	20		90	70-140		
Chlorobenzene	20.0	0.8	0.1	ug/L	20		100	37-160		
Chloroethane	41.5	1.6	0.4	ug/L	40		104	14-230		
Chloroform	19.8	0.8	0.2	ug/L	20		99	51-138		
Chloromethane	41.2	1.6	0.4	ug/L	40		103	1-273		
Dibromochloromethane	18.5	0.8	0.1	ug/L	20		92	53-149		
Dibromomethane	19.3	0.8	0.2	ug/L	20		97	70-130		
1,2-Dichlorobenzene	19.8	0.8	0.1	ug/L	20		99	18-190		
1,4-Dichlorobenzene	19.5	0.8	0.2	ug/L	20		97	18-190		
trans-1,4-Dichloro-2-butene	18.0	0.8	0.3	ug/L	20		90	70-130		
1,1-Dichloroethane	19.8	0.8	0.2	ug/L	20		99	59-155		
1,2-Dichloroethane	19.4	0.8	0.1	ug/L	20		97	49-155		
1,1-Dichloroethene	19.0	0.8	0.2	ug/L	20		95	1-234		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41933 - VOC - Prep										
LCS (BK41933-BS2)					Prepared & Analyzed: 11/20/14 12:42					
cis-1,2-Dichloroethene	19.5	0.8	0.09	ug/L	20		98	70-130		
trans-1,2-Dichloroethene	19.4	0.8	0.2	ug/L	20		97	54-156		
1,2-Dichloropropane	19.9	0.8	0.2	ug/L	20		100	1-210		
cis-1,3-Dichloropropene	19.0	0.8	0.2	ug/L	20		95	1-227		
trans-1,3-Dichloropropene	18.9	0.8	0.1	ug/L	20		95	17-183		
Ethylbenzene	19.3	0.8	0.08	ug/L	20		96	37-162		
2-Hexanone	98.1	4.0	2.1	ug/L	100		98	70-130		
Iodomethane	21.9	0.8	0.2	ug/L	20		109	70-130		
Methylene Chloride	19.8	0.8	0.2	ug/L	20		99	1-221		
4-Methyl-2-pentanone	101	4.0	2.6	ug/L	100		101	70-130		
Styrene	19.4	0.8	0.05	ug/L	20		97	70-130		
1,1,1,2-Tetrachloroethane	19.0	0.8	0.2	ug/L	20		95	70-130		
1,1,2,2-Tetrachloroethane	19.0	0.8	0.2	ug/L	20		95	46-157		
Tetrachloroethene	18.9	0.8	0.1	ug/L	20		95	64-148		
Toluene	19.1	0.8	0.09	ug/L	20		96	47-150		
1,1,1-Trichloroethane	19.4	0.8	0.2	ug/L	20		97	52-162		
1,1,2-Trichloroethane	19.9	0.8	0.2	ug/L	20		99	52-150		
Trichloroethene	20.2	0.8	0.2	ug/L	20		101	71-157		
Trichlorofluoromethane	20.3	0.8	0.2	ug/L	20		101	17-181		
1,2,3-Trichloropropane	19.5	0.8	0.4	ug/L	20		97	70-130		
Vinyl acetate	28.2	1.6	0.4	ug/L	40		70	70-130		
Vinyl chloride	41.6	1.6	0.3	ug/L	40		104	1-251		
Xylene-m,p	37.9	1.6	0.2	ug/L	40		95	70-130		
Xylene-o	19.7	0.8	0.2	ug/L	20		99	70-130		
Surrogate: 4-Bromofluorobenzene		*Result:*	*19.6*	*ug/L*	*20*		*98*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result:*	*20.1*	*ug/L*	*20*		*100*	*65-135*		
Surrogate: Toluene-d8		*Result:*	*19.8*	*ug/L*	*20*		*99*	*65-135*		
Surrogate: Dibromofluoromethane		*Result:*	*19.6*	*ug/L*	*20*		*98*	*65-135*		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41933 - VOC - Prep										
Duplicate (BK41933-DUP1)		**Source: 1411981-13**			Prepared & Analyzed: 11/19/14 17:28					
Acetone	2.0 U	4.0	2.0	ug/L		ND				20
Acrylonitrile	1.3 U	4.0	1.3	ug/L		ND				20
Benzene	0.1 U	0.8	0.1	ug/L		ND				20
Bromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Bromodichloromethane	0.2 U	0.8	0.2	ug/L		ND				20
Bromoform	0.2 U	0.8	0.2	ug/L		ND				20
Bromomethane	0.4 U	0.8	0.4	ug/L		ND				20
2-Butanone	2.0 U	4.0	2.0	ug/L		ND				20
Carbon disulfide	0.2 U	0.8	0.2	ug/L		ND				20
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L		ND				20
Chlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
Chloroethane	0.4 U	1.6	0.4	ug/L		ND				20
Chloroform	1.66	0.8	0.2	ug/L		1.61			3	20
Chloromethane	0.4 U	1.6	0.4	ug/L		ND				20
Dibromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Dibromomethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L		ND				20
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L		ND				20
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L		ND				20
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L		ND				20
Ethylbenzene	0.08 U	0.8	0.08	ug/L		ND				20
2-Hexanone	2.1 U	4.0	2.1	ug/L		ND				20
Iodomethane	0.2 U	0.8	0.2	ug/L		ND				20
Methylene Chloride	0.2 U	0.8	0.2	ug/L		ND				20
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L		ND				20
Styrene	0.05 U	0.8	0.05	ug/L		ND				20
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Tetrachloroethene	0.1 U	0.8	0.1	ug/L		ND				20
Toluene	0.09 U	0.8	0.09	ug/L		ND				20
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Trichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L		ND				20
Vinyl acetate	0.4 U	1.6	0.4	ug/L		ND				20
Vinyl chloride	0.3 U	1.6	0.3	ug/L		ND				20
Xylene-m,p	0.2 U	1.6	0.2	ug/L		ND				20

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41933 - VOC - Prep										
Duplicate (BK41933-DUP1)		**Source: 1411981-13**			Prepared & Analyzed: 11/19/14 17:28					
Xylene-o	0.2 U	0.8	0.2	ug/L		ND				20
Xylenes- Total	0.1 U	0.8	0.1	ug/L		ND				20
Surrogate: 4-Bromofluorobenzene		*Result: 19.5*		*ug/L*	*20*		*97*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 20.0*		*ug/L*	*20*		*100*	*65-135*		
Surrogate: Toluene-d8		*Result: 19.8*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 20.9*		*ug/L*	*20*		*104*	*65-135*		
Matrix Spike (BK41933-MS1)		**Source: 1411981-15**			Prepared & Analyzed: 11/19/14 15:22					
Acetone	84.8	4.0	2.0	ug/L	100	ND	85	65-135		
Acrylonitrile	94.3	4.0	1.3	ug/L	100	ND	94	60-140		
Benzene	18.9	0.8	0.1	ug/L	20	ND	94	37-151		
Bromochloromethane	19.5	0.8	0.1	ug/L	20	ND	98	65-135		
Bromodichloromethane	19.8	0.8	0.2	ug/L	20	ND	99	35-155		
Bromoform	17.6	0.8	0.2	ug/L	20	ND	88	45-169		
Bromomethane	37.8	0.8	0.4	ug/L	40	ND	95	1-242		
2-Butanone	91.9	4.0	2.0	ug/L	100	ND	92	65-135		
Carbon disulfide	18.9	0.8	0.2	ug/L	20	ND	94	65-135		
Carbon tetrachloride	20.4	0.8	0.2	ug/L	20	ND	102	70-140		
Chlorobenzene	19.8	0.8	0.1	ug/L	20	ND	99	37-160		
Chloroethane	40.5	1.6	0.4	ug/L	40	ND	101	14-230		
Chloroform	19.5	0.8	0.2	ug/L	20	ND	98	51-138		
Chloromethane	34.7	1.6	0.4	ug/L	40	ND	87	0-273		
Dibromochloromethane	19.3	0.8	0.1	ug/L	20	ND	97	53-149		
Dibromomethane	19.5	0.8	0.2	ug/L	20	ND	98	65-135		
1,2-Dichlorobenzene	19.9	0.8	0.1	ug/L	20	ND	99	18-190		
1,4-Dichlorobenzene	19.9	0.8	0.2	ug/L	20	ND	99	18-190		
trans-1,4-Dichloro-2-butene	21.3	0.8	0.3	ug/L	20	ND	106	65-135		
1,1-Dichloroethane	19.7	0.8	0.2	ug/L	20	ND	99	59-155		
1,2-Dichloroethane	19.5	0.8	0.1	ug/L	20	ND	97	49-155		
1,1-Dichloroethene	19.2	0.8	0.2	ug/L	20	ND	96	1-234		
cis-1,2-Dichloroethene	19.4	0.8	0.09	ug/L	20	ND	97	65-135		
trans-1,2-Dichloroethene	19.2	0.8	0.2	ug/L	20	ND	96	54-156		
1,2-Dichloropropane	19.9	0.8	0.2	ug/L	20	ND	99	0-210		
cis-1,3-Dichloropropene	20.4	0.8	0.2	ug/L	20	ND	102	1-227		
trans-1,3-Dichloropropene	19.9	0.8	0.1	ug/L	20	ND	100	17-183		
Ethylbenzene	19.2	0.8	0.08	ug/L	20	ND	96	37-162		
2-Hexanone	93.7	4.0	2.1	ug/L	100	ND	94	65-135		
Iodomethane	20.2	0.8	0.2	ug/L	20	ND	101	65-135		
Methylene Chloride	19.1	0.8	0.2	ug/L	20	ND	96	1-221		
4-Methyl-2-pentanone	91.9	4.0	2.6	ug/L	100	ND	92	65-135		
Styrene	18.8	0.8	0.05	ug/L	20	ND	94	65-135		
1,1,1,2-Tetrachloroethane	19.5	0.8	0.2	ug/L	20	ND	97	65-135		
1,1,2,2-Tetrachloroethane	19.1	0.8	0.2	ug/L	20	ND	96	46-157		
Tetrachloroethene	19.5	0.8	0.1	ug/L	20	ND	98	64-148		
Toluene	18.9	0.8	0.09	ug/L	20	ND	94	47-150		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41933 - VOC - Prep										
Matrix Spike (BK41933-MS1)		**Source: 1411981-15**			Prepared & Analyzed: 11/19/14 15:22					
1,1,1-Trichloroethane	19.8	0.8	0.2	ug/L	20	ND	99	52-162		
1,1,2-Trichloroethane	18.8	0.8	0.2	ug/L	20	ND	94	52-150		
Trichloroethene	19.3	0.8	0.2	ug/L	20	ND	96	71-157		
Trichlorofluoromethane	21.1	0.8	0.2	ug/L	20	ND	105	17-181		
1,2,3-Trichloropropane	19.1	0.8	0.4	ug/L	20	ND	96	65-135		
Vinyl acetate	35.2	1.6	0.4	ug/L	40	ND	88	65-135		
Vinyl chloride	38.8	1.6	0.3	ug/L	40	ND	97	1-251		
Xylene-m,p	37.8	1.6	0.2	ug/L	40	ND	95	60-140		
Xylene-o	18.8	0.8	0.2	ug/L	20	ND	94	60-140		
Surrogate: 4-Bromofluorobenzene		*Result: 20.6*		*ug/L*	*20*		*103*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 19.9*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: Toluene-d8		*Result: 19.7*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 20.4*		*ug/L*	*20*		*102*	*65-135*		
Batch BK42521 - VOC - Prep										
Blank (BK42521-BLK1)					Prepared & Analyzed: 11/25/14 12:25					
Acetone	2.0 U	4.0	2.0	ug/L						
Acrylonitrile	1.3 U	4.0	1.3	ug/L						
Benzene	0.1 U	0.8	0.1	ug/L						
Bromochloromethane	0.1 U	0.8	0.1	ug/L						
Bromodichloromethane	0.2 U	0.8	0.2	ug/L						
Bromoform	0.2 U	0.8	0.2	ug/L						
Bromomethane	0.4 U	0.8	0.4	ug/L						
2-Butanone	2.0 U	4.0	2.0	ug/L						
Carbon disulfide	0.2 U	0.8	0.2	ug/L						
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L						
Chlorobenzene	0.1 U	0.8	0.1	ug/L						
Chloroethane	0.4 U	1.6	0.4	ug/L						
Chloroform	0.2 U	0.8	0.2	ug/L						
Chloromethane	0.4 U	1.6	0.4	ug/L						
Dibromochloromethane	0.1 U	0.8	0.1	ug/L						
Dibromomethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L						
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L						
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L						
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L						
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L						
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L						
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L						
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L						
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L						
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L						
Ethylbenzene	0.08 U	0.8	0.08	ug/L						
2-Hexanone	2.1 U	4.0	2.1	ug/L						

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42521 - VOC - Prep										
Blank (BK42521-BLK1)					Prepared & Analyzed: 11/25/14 12:25					
Iodomethane	0.2 U	0.8	0.2	ug/L						
Methylene Chloride	0.2 U	0.8	0.2	ug/L						
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L						
Styrene	0.05 U	0.8	0.05	ug/L						
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
Tetrachloroethene	0.1 U	0.8	0.1	ug/L						
Toluene	0.09 U	0.8	0.09	ug/L						
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L						
Trichloroethene	0.2 U	0.8	0.2	ug/L						
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L						
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L						
Vinyl acetate	0.4 U	1.6	0.4	ug/L						
Vinyl chloride	0.3 U	1.6	0.3	ug/L						
Xylene-m,p	0.2 U	1.6	0.2	ug/L						
Xylene-o	0.2 U	0.8	0.2	ug/L						
Xylenes- Total	0.1 U	0.8	0.1	ug/L						
Surrogate: 4-Bromofluorobenzene	*Result:*	*18.9*		*ug/L*	*20*		*94*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result:*	*19.9*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: Toluene-d8	*Result:*	*19.3*		*ug/L*	*20*		*97*	*65-135*		
Surrogate: Dibromofluoromethane	*Result:*	*19.8*		*ug/L*	*20*		*99*	*65-135*		
LCS (BK42521-BS1)					Prepared & Analyzed: 11/25/14 12:57					
Acetone	105	4.0	2.0	ug/L	100		105	70-130		
Acrylonitrile	106	4.0	1.3	ug/L	100		106	70-130		
Benzene	19.7	0.8	0.1	ug/L	20		98	37-151		
Bromochloromethane	20.2	0.8	0.1	ug/L	20		101	70-130		
Bromodichloromethane	18.9	0.8	0.2	ug/L	20		95	35-155		
Bromoform	18.0	0.8	0.2	ug/L	20		90	45-169		
Bromomethane	34.8	0.8	0.4	ug/L	40		87	0-242		
2-Butanone	106	4.0	2.0	ug/L	100		106	70-130		
Carbon disulfide	18.5	0.8	0.2	ug/L	20		92	70-130		
Carbon tetrachloride	18.9	0.8	0.2	ug/L	20		94	70-140		
Chlorobenzene	19.8	0.8	0.1	ug/L	20		99	37-160		
Chloroethane	34.6	1.6	0.4	ug/L	40		86	14-230		
Chloroform	19.2	0.8	0.2	ug/L	20		96	51-138		
Chloromethane	39.2	1.6	0.4	ug/L	40		98	1-273		
Dibromochloromethane	18.8	0.8	0.1	ug/L	20		94	53-149		
Dibromomethane	19.4	0.8	0.2	ug/L	20		97	70-130		
1,2-Dichlorobenzene	20.1	0.8	0.1	ug/L	20		101	18-190		
1,4-Dichlorobenzene	20.1	0.8	0.2	ug/L	20		101	18-190		
trans-1,4-Dichloro-2-butene	19.6	0.8	0.3	ug/L	20		98	70-130		
1,1-Dichloroethane	19.9	0.8	0.2	ug/L	20		100	59-155		
1,2-Dichloroethane	18.7	0.8	0.1	ug/L	20		93	49-155		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42521 - VOC - Prep										
LCS (BK42521-BS1)					Prepared & Analyzed: 11/25/14 12:57					
1,1-Dichloroethene	17.8	0.8	0.2	ug/L	20		89	1-234		
cis-1,2-Dichloroethene	19.8	0.8	0.09	ug/L	20		99	70-130		
trans-1,2-Dichloroethene	20.0	0.8	0.2	ug/L	20		100	54-156		
1,2-Dichloropropane	20.5	0.8	0.2	ug/L	20		103	1-210		
cis-1,3-Dichloropropene	20.7	0.8	0.2	ug/L	20		104	1-227		
trans-1,3-Dichloropropene	19.4	0.8	0.1	ug/L	20		97	17-183		
Ethylbenzene	19.2	0.8	0.08	ug/L	20		96	37-162		
2-Hexanone	103	4.0	2.1	ug/L	100		103	70-130		
Iodomethane	20.6	0.8	0.2	ug/L	20		103	70-130		
Methylene Chloride	20.0	0.8	0.2	ug/L	20		100	1-221		
4-Methyl-2-pentanone	103	4.0	2.6	ug/L	100		103	70-130		
Styrene	19.6	0.8	0.05	ug/L	20		98	70-130		
1,1,1,2-Tetrachloroethane	19.1	0.8	0.2	ug/L	20		96	70-130		
1,1,2,2-Tetrachloroethane	20.6	0.8	0.2	ug/L	20		103	46-157		
Tetrachloroethene	20.3	0.8	0.1	ug/L	20		102	64-148		
Toluene	18.9	0.8	0.09	ug/L	20		95	47-150		
1,1,1-Trichloroethane	19.1	0.8	0.2	ug/L	20		95	52-162		
1,1,2-Trichloroethane	19.7	0.8	0.2	ug/L	20		99	52-150		
Trichloroethene	19.5	0.8	0.2	ug/L	20		97	71-157		
Trichlorofluoromethane	18.5	0.8	0.2	ug/L	20		92	17-181		
1,2,3-Trichloropropane	20.0	0.8	0.4	ug/L	20		100	70-130		
Vinyl acetate	37.4	1.6	0.4	ug/L	40		93	70-130		
Vinyl chloride	36.2	1.6	0.3	ug/L	40		90	1-251		
Xylene-m,p	37.5	1.6	0.2	ug/L	40		94	70-130		
Xylene-o	19.2	0.8	0.2	ug/L	20		96	70-130		
Surrogate: 4-Bromofluorobenzene	*Result:*	*19.7*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result:*	*20.6*		*ug/L*	*20*		*103*	*65-135*		
Surrogate: Toluene-d8	*Result:*	*19.5*		*ug/L*	*20*		*97*	*65-135*		
Surrogate: Dibromofluoromethane	*Result:*	*19.8*		*ug/L*	*20*		*99*	*65-135*		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42521 - VOC - Prep										
Duplicate (BK42521-DUP1)		**Source: 1411981-21**			Prepared & Analyzed: 11/25/14 15:18					
Acetone	2.00 I	4.0	2.0	ug/L		2.40			18	20
Acrylonitrile	1.3 U	4.0	1.3	ug/L		ND				20
Benzene	0.1 U	0.8	0.1	ug/L		ND				20
Bromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Bromodichloromethane	0.2 U	0.8	0.2	ug/L		ND				20
Bromoform	0.2 U	0.8	0.2	ug/L		ND				20
Bromomethane	0.4 U	0.8	0.4	ug/L		ND				20
2-Butanone	2.0 U	4.0	2.0	ug/L		ND				20
Carbon disulfide	0.2 U	0.8	0.2	ug/L		ND				20
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L		ND				20
Chlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
Chloroethane	0.4 U	1.6	0.4	ug/L		ND				20
Chloroform	0.2 U	0.8	0.2	ug/L		ND				20
Chloromethane	0.4 U	1.6	0.4	ug/L		ND				20
Dibromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Dibromomethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L		ND				20
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L		ND				20
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L		ND				20
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L		ND				20
Ethylbenzene	0.08 U	0.8	0.08	ug/L		ND				20
2-Hexanone	2.1 U	4.0	2.1	ug/L		ND				20
Iodomethane	0.2 U	0.8	0.2	ug/L		ND				20
Methylene Chloride	0.2 U	0.8	0.2	ug/L		ND				20
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L		ND				20
Styrene	0.05 U	0.8	0.05	ug/L		ND				20
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Tetrachloroethene	0.1 U	0.8	0.1	ug/L		ND				20
Toluene	0.09 U	0.8	0.09	ug/L		ND				20
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Trichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L		ND				20
Vinyl acetate	0.4 U	1.6	0.4	ug/L		ND				20
Vinyl chloride	0.3 U	1.6	0.3	ug/L		ND				20
Xylene-m,p	0.2 U	1.6	0.2	ug/L		ND				20

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Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42521 - VOC - Prep										
Duplicate (BK42521-DUP1)		**Source: 1411981-21**			Prepared & Analyzed: 11/25/14 15:18					
Xylene-o	0.2 U	0.8	0.2	ug/L		ND				20
Xylenes- Total	0.1 U	0.8	0.1	ug/L		ND				20
Surrogate: 4-Bromofluorobenzene		*Result: 19.6*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 19.5*		*ug/L*	*20*		*97*	*65-135*		
Surrogate: Toluene-d8		*Result: 19.7*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 20.9*		*ug/L*	*20*		*104*	*65-135*		
Matrix Spike (BK42521-MS1)		**Source: 1411981-23**			Prepared & Analyzed: 11/25/14 14:15					
Acetone	91.1	4.0	2.0	ug/L	100	ND	91	65-135		
Acrylonitrile	102	4.0	1.3	ug/L	100	ND	102	60-140		
Benzene	19.8	0.8	0.1	ug/L	20	ND	99	37-151		
Bromochloromethane	20.9	0.8	0.1	ug/L	20	ND	104	65-135		
Bromodichloromethane	19.3	0.8	0.2	ug/L	20	ND	96	35-155		
Bromoform	18.3	0.8	0.2	ug/L	20	ND	91	45-169		
Bromomethane	31.6	0.8	0.4	ug/L	40	ND	79	1-242		
2-Butanone	98.7	4.0	2.0	ug/L	100	ND	99	65-135		
Carbon disulfide	19.3	0.8	0.2	ug/L	20	ND	97	65-135		
Carbon tetrachloride	19.5	0.8	0.2	ug/L	20	ND	98	70-140		
Chlorobenzene	20.1	0.8	0.1	ug/L	20	ND	101	37-160		
Chloroethane	38.0	1.6	0.4	ug/L	40	ND	95	14-230		
Chloroform	20.1	0.8	0.2	ug/L	20	ND	101	51-138		
Chloromethane	31.7	1.6	0.4	ug/L	40	ND	79	0-273		
Dibromochloromethane	19.6	0.8	0.1	ug/L	20	ND	98	53-149		
Dibromomethane	19.7	0.8	0.2	ug/L	20	ND	99	65-135		
1,2-Dichlorobenzene	20.4	0.8	0.1	ug/L	20	ND	102	18-190		
1,4-Dichlorobenzene	20.2	0.8	0.2	ug/L	20	ND	101	18-190		
trans-1,4-Dichloro-2-butene	20.4	0.8	0.3	ug/L	20	ND	102	65-135		
1,1-Dichloroethane	20.0	0.8	0.2	ug/L	20	ND	100	59-155		
1,2-Dichloroethane	18.3	0.8	0.1	ug/L	20	ND	92	49-155		
1,1-Dichloroethene	19.3	0.8	0.2	ug/L	20	ND	96	1-234		
cis-1,2-Dichloroethene	20.1	0.8	0.09	ug/L	20	ND	101	65-135		
trans-1,2-Dichloroethene	20.0	0.8	0.2	ug/L	20	ND	100	54-156		
1,2-Dichloropropane	20.7	0.8	0.2	ug/L	20	ND	104	0-210		
cis-1,3-Dichloropropene	20.7	0.8	0.2	ug/L	20	ND	104	1-227		
trans-1,3-Dichloropropene	19.7	0.8	0.1	ug/L	20	ND	99	17-183		
Ethylbenzene	19.3	0.8	0.08	ug/L	20	ND	96	37-162		
2-Hexanone	98.7	4.0	2.1	ug/L	100	ND	99	65-135		
Iodomethane	22.0	0.8	0.2	ug/L	20	ND	110	65-135		
Methylene Chloride	19.9	0.8	0.2	ug/L	20	ND	99	1-221		
4-Methyl-2-pentanone	101	4.0	2.6	ug/L	100	ND	101	65-135		
Styrene	19.9	0.8	0.05	ug/L	20	ND	100	65-135		
1,1,1,2-Tetrachloroethane	19.6	0.8	0.2	ug/L	20	ND	98	65-135		
1,1,2,2-Tetrachloroethane	19.7	0.8	0.2	ug/L	20	ND	98	46-157		
Tetrachloroethene	20.6	0.8	0.1	ug/L	20	ND	103	64-148		
Toluene	19.0	0.8	0.09	ug/L	20	ND	95	47-150		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42521 - VOC - Prep										
Matrix Spike (BK42521-MS1)		**Source: 1411981-23**			Prepared & Analyzed: 11/25/14 14:15					
1,1,1-Trichloroethane	19.1	0.8	0.2	ug/L	20	ND	96	52-162		
1,1,2-Trichloroethane	19.6	0.8	0.2	ug/L	20	ND	98	52-150		
Trichloroethene	19.6	0.8	0.2	ug/L	20	ND	98	71-157		
Trichlorofluoromethane	17.1	0.8	0.2	ug/L	20	ND	85	17-181		
1,2,3-Trichloropropane	19.5	0.8	0.4	ug/L	20	ND	98	65-135		
Vinyl acetate	37.8	1.6	0.4	ug/L	40	ND	95	65-135		
Vinyl chloride	31.0	1.6	0.3	ug/L	40	ND	77	1-251		
Xylene-m,p	38.7	1.6	0.2	ug/L	40	ND	97	60-140		
Xylene-o	19.8	0.8	0.2	ug/L	20	ND	99	60-140		
Surrogate: 4-Bromofluorobenzene		*Result: 19.9*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 19.0*		*ug/L*	*20*		*95*	*65-135*		
Surrogate: Toluene-d8		*Result: 19.9*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 19.8*		*ug/L*	*20*		*99*	*65-135*		
Batch BK42522 - VOC - Prep										
Blank (BK42522-BLK1)					Prepared & Analyzed: 11/26/14 10:41					
Acetone	2.0 U	4.0	2.0	ug/L						
Acrylonitrile	1.3 U	4.0	1.3	ug/L						
Benzene	0.1 U	0.8	0.1	ug/L						
Bromochloromethane	0.1 U	0.8	0.1	ug/L						
Bromodichloromethane	0.2 U	0.8	0.2	ug/L						
Bromoform	0.2 U	0.8	0.2	ug/L						
Bromomethane	0.4 U	0.8	0.4	ug/L						
2-Butanone	2.0 U	4.0	2.0	ug/L						
Carbon disulfide	0.2 U	0.8	0.2	ug/L						
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L						
Chlorobenzene	0.1 U	0.8	0.1	ug/L						
Chloroethane	0.4 U	1.6	0.4	ug/L						
Chloroform	0.2 U	0.8	0.2	ug/L						
Chloromethane	0.4 U	1.6	0.4	ug/L						
Dibromochloromethane	0.1 U	0.8	0.1	ug/L						
Dibromomethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L						
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L						
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L						
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L						
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L						
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L						
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L						
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L						
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L						
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L						
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L						
Ethylbenzene	0.08 U	0.8	0.08	ug/L						
2-Hexanone	2.1 U	4.0	2.1	ug/L						

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42522 - VOC - Prep										
Blank (BK42522-BLK1)					Prepared & Analyzed: 11/26/14 10:41					
Iodomethane	0.2 U	0.8	0.2	ug/L						
Methylene Chloride	0.2 U	0.8	0.2	ug/L						
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L						
Styrene	0.05 U	0.8	0.05	ug/L						
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L						
Tetrachloroethene	0.1 U	0.8	0.1	ug/L						
Toluene	0.09 U	0.8	0.09	ug/L						
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L						
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L						
Trichloroethene	0.2 U	0.8	0.2	ug/L						
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L						
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L						
Vinyl acetate	0.4 U	1.6	0.4	ug/L						
Vinyl chloride	0.3 U	1.6	0.3	ug/L						
Xylene-m,p	0.2 U	1.6	0.2	ug/L						
Xylene-o	0.2 U	0.8	0.2	ug/L						
Xylenes- Total	0.1 U	0.8	0.1	ug/L						
Surrogate: 4-Bromofluorobenzene	*Result:*	*19.4*		*ug/L*	*20*		*97*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result:*	*20.5*		*ug/L*	*20*		*102*	*65-135*		
Surrogate: Toluene-d8	*Result:*	*19.2*		*ug/L*	*20*		*96*	*65-135*		
Surrogate: Dibromofluoromethane	*Result:*	*21.1*		*ug/L*	*20*		*105*	*65-135*		
LCS (BK42522-BS1)					Prepared & Analyzed: 11/26/14 11:13					
Acetone	92.4	4.0	2.0	ug/L	100		92	70-130		
Acrylonitrile	102	4.0	1.3	ug/L	100		102	70-130		
Benzene	19.7	0.8	0.1	ug/L	20		99	37-151		
Bromochloromethane	21.2	0.8	0.1	ug/L	20		106	70-130		
Bromodichloromethane	20.0	0.8	0.2	ug/L	20		100	35-155		
Bromoform	18.1	0.8	0.2	ug/L	20		90	45-169		
Bromomethane	36.1	0.8	0.4	ug/L	40		90	0-242		
2-Butanone	97.8	4.0	2.0	ug/L	100		98	70-130		
Carbon disulfide	18.5	0.8	0.2	ug/L	20		92	70-130		
Carbon tetrachloride	19.7	0.8	0.2	ug/L	20		98	70-140		
Chlorobenzene	19.8	0.8	0.1	ug/L	20		99	37-160		
Chloroethane	34.5	1.6	0.4	ug/L	40		86	14-230		
Chloroform	19.8	0.8	0.2	ug/L	20		99	51-138		
Chloromethane	41.5	1.6	0.4	ug/L	40		104	1-273		
Dibromochloromethane	19.5	0.8	0.1	ug/L	20		98	53-149		
Dibromomethane	19.8	0.8	0.2	ug/L	20		99	70-130		
1,2-Dichlorobenzene	20.5	0.8	0.1	ug/L	20		103	18-190		
1,4-Dichlorobenzene	19.9	0.8	0.2	ug/L	20		99	18-190		
trans-1,4-Dichloro-2-butene	15.2	0.8	0.3	ug/L	20		76	70-130		
1,1-Dichloroethane	20.2	0.8	0.2	ug/L	20		101	59-155		
1,2-Dichloroethane	19.6	0.8	0.1	ug/L	20		98	49-155		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42522 - VOC - Prep										
LCS (BK42522-BS1)					Prepared & Analyzed: 11/26/14 11:13					
1,1-Dichloroethene	19.4	0.8	0.2	ug/L	20		97	1-234		
cis-1,2-Dichloroethene	20.1	0.8	0.09	ug/L	20		100	70-130		
trans-1,2-Dichloroethene	20.3	0.8	0.2	ug/L	20		101	54-156		
1,2-Dichloropropane	20.7	0.8	0.2	ug/L	20		103	1-210		
cis-1,3-Dichloropropene	19.7	0.8	0.2	ug/L	20		98	1-227		
trans-1,3-Dichloropropene	17.4	0.8	0.1	ug/L	20		87	17-183		
Ethylbenzene	19.2	0.8	0.08	ug/L	20		96	37-162		
2-Hexanone	98.8	4.0	2.1	ug/L	100		99	70-130		
Iodomethane	21.9	0.8	0.2	ug/L	20		109	70-130		
Methylene Chloride	19.2	0.8	0.2	ug/L	20		96	1-221		
4-Methyl-2-pentanone	96.7	4.0	2.6	ug/L	100		97	70-130		
Styrene	19.6	0.8	0.05	ug/L	20		98	70-130		
1,1,1,2-Tetrachloroethane	19.5	0.8	0.2	ug/L	20		98	70-130		
1,1,2,2-Tetrachloroethane	19.4	0.8	0.2	ug/L	20		97	46-157		
Tetrachloroethene	19.9	0.8	0.1	ug/L	20		99	64-148		
Toluene	18.8	0.8	0.09	ug/L	20		94	47-150		
1,1,1-Trichloroethane	19.7	0.8	0.2	ug/L	20		98	52-162		
1,1,2-Trichloroethane	19.8	0.8	0.2	ug/L	20		99	52-150		
Trichloroethene	20.1	0.8	0.2	ug/L	20		100	71-157		
Trichlorofluoromethane	19.1	0.8	0.2	ug/L	20		96	17-181		
1,2,3-Trichloropropane	20.0	0.8	0.4	ug/L	20		100	70-130		
Vinyl acetate	29.8	1.6	0.4	ug/L	40		75	70-130		
Vinyl chloride	37.3	1.6	0.3	ug/L	40		93	1-251		
Xylene-m,p	36.7	1.6	0.2	ug/L	40		92	70-130		
Xylene-o	19.6	0.8	0.2	ug/L	20		98	70-130		
Surrogate: 4-Bromofluorobenzene		*Result:*	*19.7*	*ug/L*	*20*		*99*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result:*	*20.1*	*ug/L*	*20*		*101*	*65-135*		
Surrogate: Toluene-d8		*Result:*	*18.8*	*ug/L*	*20*		*94*	*65-135*		
Surrogate: Dibromofluoromethane		*Result:*	*19.9*	*ug/L*	*20*		*100*	*65-135*		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42522 - VOC - Prep										
Duplicate (BK42522-DUP1)		**Source: 1411981-29**			Prepared & Analyzed: 11/26/14 16:22					
Acetone	2.0 U	4.0	2.0	ug/L		ND				20
Acrylonitrile	1.3 U	4.0	1.3	ug/L		ND				20
Benzene	0.1 U	0.8	0.1	ug/L		ND				20
Bromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Bromodichloromethane	0.2 U	0.8	0.2	ug/L		ND				20
Bromoform	0.2 U	0.8	0.2	ug/L		ND				20
Bromomethane	0.4 U	0.8	0.4	ug/L		ND				20
2-Butanone	2.0 U	4.0	2.0	ug/L		ND				20
Carbon disulfide	0.2 U	0.8	0.2	ug/L		ND				20
Carbon tetrachloride	0.2 U	0.8	0.2	ug/L		ND				20
Chlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
Chloroethane	0.4 U	1.6	0.4	ug/L		ND				20
Chloroform	0.2 U	0.8	0.2	ug/L		ND				20
Chloromethane	0.4 U	1.6	0.4	ug/L		ND				20
Dibromochloromethane	0.1 U	0.8	0.1	ug/L		ND				20
Dibromomethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichlorobenzene	0.1 U	0.8	0.1	ug/L		ND				20
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,4-Dichloro-2-butene	0.3 U	0.8	0.3	ug/L		ND				20
1,1-Dichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloroethane	0.1 U	0.8	0.1	ug/L		ND				20
1,1-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,2-Dichloroethene	0.09 U	0.8	0.09	ug/L		ND				20
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
1,2-Dichloropropane	0.2 U	0.8	0.2	ug/L		ND				20
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/L		ND				20
trans-1,3-Dichloropropene	0.1 U	0.8	0.1	ug/L		ND				20
Ethylbenzene	0.08 U	0.8	0.08	ug/L		ND				20
2-Hexanone	2.1 U	4.0	2.1	ug/L		ND				20
Iodomethane	0.2 U	0.8	0.2	ug/L		ND				20
Methylene Chloride	0.2 U	0.8	0.2	ug/L		ND				20
4-Methyl-2-pentanone	2.6 U	4.0	2.6	ug/L		ND				20
Styrene	0.05 U	0.8	0.05	ug/L		ND				20
1,1,1,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Tetrachloroethene	0.1 U	0.8	0.1	ug/L		ND				20
Toluene	0.09 U	0.8	0.09	ug/L		ND				20
1,1,1-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
1,1,2-Trichloroethane	0.2 U	0.8	0.2	ug/L		ND				20
Trichloroethene	0.2 U	0.8	0.2	ug/L		ND				20
Trichlorofluoromethane	0.2 U	0.8	0.2	ug/L		ND				20
1,2,3-Trichloropropane	0.4 U	0.8	0.4	ug/L		ND				20
Vinyl acetate	0.4 U	1.6	0.4	ug/L		ND				20
Vinyl chloride	0.3 U	1.6	0.3	ug/L		ND				20
Xylene-m,p	0.2 U	1.6	0.2	ug/L		ND				20

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42522 - VOC - Prep										
Duplicate (BK42522-DUP1)		**Source: 1411981-29**			Prepared & Analyzed: 11/26/14 16:22					
Xylene-o	0.2 U	0.8	0.2	ug/L		ND				20
Xylenes- Total	0.1 U	0.8	0.1	ug/L		ND				20
Surrogate: 4-Bromofluorobenzene		*Result: 19.4*		*ug/L*	*20*		*97*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 20.8*		*ug/L*	*20*		*104*	*65-135*		
Surrogate: Toluene-d8		*Result: 18.7*		*ug/L*	*20*		*93*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 20.9*		*ug/L*	*20*		*104*	*65-135*		
Matrix Spike (BK42522-MS1)		**Source: 1411981-31**			Prepared & Analyzed: 11/26/14 14:16					
Acetone	80.0	4.0	2.0	ug/L	100	ND	80	65-135		
Acrylonitrile	91.6	4.0	1.3	ug/L	100	ND	92	60-140		
Benzene	17.5	0.8	0.1	ug/L	20	ND	87	37-151		
Bromochloromethane	18.6	0.8	0.1	ug/L	20	ND	93	65-135		
Bromodichloromethane	17.4	0.8	0.2	ug/L	20	ND	87	35-155		
Bromoform	16.2	0.8	0.2	ug/L	20	ND	81	45-169		
Bromomethane	28.1	0.8	0.4	ug/L	40	ND	70	1-242		
2-Butanone	89.9	4.0	2.0	ug/L	100	ND	90	65-135		
Carbon disulfide	15.3	0.8	0.2	ug/L	20	ND	76	65-135		
Carbon tetrachloride	17.2	0.8	0.2	ug/L	20	ND	86	70-140		
Chlorobenzene	18.0	0.8	0.1	ug/L	20	ND	90	37-160		
Chloroethane	25.5	1.6	0.4	ug/L	40	ND	64	14-230		
Chloroform	17.8	0.8	0.2	ug/L	20	ND	89	51-138		
Chloromethane	28.0	1.6	0.4	ug/L	40	ND	70	0-273		
Dibromochloromethane	17.2	0.8	0.1	ug/L	20	ND	86	53-149		
Dibromomethane	17.7	0.8	0.2	ug/L	20	ND	88	65-135		
1,2-Dichlorobenzene	18.2	0.8	0.1	ug/L	20	ND	91	18-190		
1,4-Dichlorobenzene	18.4	0.8	0.2	ug/L	20	ND	92	18-190		
trans-1,4-Dichloro-2-butene	17.5	0.8	0.3	ug/L	20	ND	88	65-135		
1,1-Dichloroethane	18.0	0.8	0.2	ug/L	20	ND	90	59-155		
1,2-Dichloroethane	16.7	0.8	0.1	ug/L	20	ND	83	49-155		
1,1-Dichloroethene	15.4	0.8	0.2	ug/L	20	ND	77	1-234		
cis-1,2-Dichloroethene	17.9	0.8	0.09	ug/L	20	ND	90	65-135		
trans-1,2-Dichloroethene	17.6	0.8	0.2	ug/L	20	ND	88	54-156		
1,2-Dichloropropane	18.6	0.8	0.2	ug/L	20	ND	93	0-210		
cis-1,3-Dichloropropene	18.4	0.8	0.2	ug/L	20	ND	92	1-227		
trans-1,3-Dichloropropene	17.4	0.8	0.1	ug/L	20	ND	87	17-183		
Ethylbenzene	17.2	0.8	0.08	ug/L	20	ND	86	37-162		
2-Hexanone	88.3	4.0	2.1	ug/L	100	ND	88	65-135		
Iodomethane	18.5	0.8	0.2	ug/L	20	ND	92	65-135		
Methylene Chloride	17.7	0.8	0.2	ug/L	20	ND	88	1-221		
4-Methyl-2-pentanone	88.2	4.0	2.6	ug/L	100	ND	88	65-135		
Styrene	17.9	0.8	0.05	ug/L	20	ND	90	65-135		
1,1,1,2-Tetrachloroethane	17.4	0.8	0.2	ug/L	20	ND	87	65-135		
1,1,2,2-Tetrachloroethane	17.6	0.8	0.2	ug/L	20	ND	88	46-157		
Tetrachloroethene	18.0	0.8	0.1	ug/L	20	ND	90	64-148		
Toluene	17.4	0.8	0.09	ug/L	20	ND	87	47-150		

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Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42522 - VOC - Prep										
Matrix Spike (BK42522-MS1)		**Source: 1411981-31**			Prepared & Analyzed: 11/26/14 14:16					
1,1,1-Trichloroethane	17.5	0.8	0.2	ug/L	20	ND	88	52-162		
1,1,2-Trichloroethane	17.7	0.8	0.2	ug/L	20	ND	88	52-150		
Trichloroethene	17.9	0.8	0.2	ug/L	20	ND	90	71-157		
Trichlorofluoromethane	14.8	0.8	0.2	ug/L	20	ND	74	17-181		
1,2,3-Trichloropropane	17.2	0.8	0.4	ug/L	20	ND	86	65-135		
Vinyl acetate	32.6	1.6	0.4	ug/L	40	ND	81	65-135		
Vinyl chloride	27.2	1.6	0.3	ug/L	40	ND	68	1-251		
Xylene-m,p	34.7	1.6	0.2	ug/L	40	ND	87	60-140		
Xylene-o	17.7	0.8	0.2	ug/L	20	ND	89	60-140		
Surrogate: 4-Bromofluorobenzene		*Result: 19.8*		*ug/L*	*20*		*99*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 19.2*		*ug/L*	*20*		*96*	*65-135*		
Surrogate: Toluene-d8		*Result: 19.7*		*ug/L*	*20*		*98*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 19.8*		*ug/L*	*20*		*99*	*65-135*		

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Pesticide Analyses - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK40621 - 8011 microextraction for EDB/DBCP										
Blank (BK40621-BLK1)					Prepared & Analyzed: 11/06/14 16:42					
1,2-Dibromo-3-chloropropane	0.0050 U	0.020	0.0050	ug/L						
1,2-Dibromoethane	0.0050 U	0.020	0.0050	ug/L						
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0964*		*ug/L*	*0.10*		*96*	*85-123*		
LCS (BK40621-BS1)					Prepared & Analyzed: 11/06/14 17:04					
1,2-Dibromo-3-chloropropane	0.0981	0.020	0.0050	ug/L	0.10		98	70-130		
1,2-Dibromoethane	0.0947	0.020	0.0050	ug/L	0.10		95	70-130		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0956*		*ug/L*	*0.10*		*96*	*85-123*		
LCS Dup (BK40621-BSD1)					Prepared & Analyzed: 11/06/14 17:26					
1,2-Dibromo-3-chloropropane	0.0965	0.020	0.0050	ug/L	0.10		96	70-130	2	20
1,2-Dibromoethane	0.0927	0.020	0.0050	ug/L	0.10		93	70-130	2	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.101*		*ug/L*	*0.10*		*101*	*85-123*		
Matrix Spike (BK40621-MS1)		**Source: 1411918-01**			Prepared & Analyzed: 11/06/14 17:48					
1,2-Dibromoethane	0.0966	0.020	0.0051	ug/L	0.10	ND	94	65-135		
1,2-Dibromo-3-chloropropane	0.100	0.020	0.0051	ug/L	0.10	ND	98	65-135		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.105*		*ug/L*	*0.10*		*103*	*85-123*		
Matrix Spike Dup (BK40621-MSD1)		**Source: 1411918-01**			Prepared & Analyzed: 11/06/14 18:10					
1,2-Dibromoethane	0.0916	0.020	0.0051	ug/L	0.10	ND	90	65-135	5	20
1,2-Dibromo-3-chloropropane	0.101	0.020	0.0051	ug/L	0.10	ND	99	65-135	1	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0993*		*ug/L*	*0.10*		*98*	*85-123*		
Batch BK41923 - 8011 microextraction for EDB/DBCP										
Blank (BK41923-BLK1)					Prepared & Analyzed: 11/19/14 20:48					
1,2-Dibromoethane	0.0050 U	0.020	0.0050	ug/L						
1,2-Dibromo-3-chloropropane	0.0050 U	0.020	0.0050	ug/L						
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.102*		*ug/L*	*0.10*		*102*	*85-123*		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41923 - 8011 microextraction for EDB/DBCP										
LCS (BK41923-BS1)					Prepared & Analyzed: 11/19/14 21:09					
1,2-Dibromo-3-chloropropane	0.101	0.020	0.0050	ug/L	0.10		101	70-130		
1,2-Dibromoethane	0.0915	0.020	0.0050	ug/L	0.10		92	70-130		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0951*		*ug/L*	*0.10*		*95*	*85-123*		
LCS Dup (BK41923-BSD1)					Prepared & Analyzed: 11/19/14 21:31					
1,2-Dibromoethane	0.0967	0.020	0.0050	ug/L	0.10		97	70-130	6	20
1,2-Dibromo-3-chloropropane	0.100	0.020	0.0050	ug/L	0.10		100	70-130	1	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0966*		*ug/L*	*0.10*		*97*	*85-123*		
Matrix Spike (BK41923-MS1)		**Source: 1412274-01**			Prepared & Analyzed: 11/19/14 21:53					
1,2-Dibromoethane	0.105	0.021	0.0053	ug/L	0.11	ND	99	65-135		
1,2-Dibromo-3-chloropropane	0.109	0.021	0.0053	ug/L	0.11	ND	102	65-135		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0980*		*ug/L*	*0.11*		*92*	*85-123*		
Matrix Spike Dup (BK41923-MSD1)		**Source: 1412274-01**			Prepared & Analyzed: 11/19/14 22:14					
1,2-Dibromo-3-chloropropane	0.110	0.022	0.0054	ug/L	0.11	ND	102	65-135	0.9	20
1,2-Dibromoethane	0.106	0.022	0.0054	ug/L	0.11	ND	99	65-135	0.9	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0982*		*ug/L*	*0.11*		*91*	*85-123*		
Batch BK42413 - 8011 microextraction for EDB/DBCP										
Blank (BK42413-BLK1)					Prepared & Analyzed: 11/24/14 21:46					
1,2-Dibromo-3-chloropropane	0.0050 U	0.020	0.0050	ug/L						
1,2-Dibromoethane	0.0050 U	0.020	0.0050	ug/L						
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.106*		*ug/L*	*0.10*		*106*	*85-123*		
LCS (BK42413-BS1)					Prepared & Analyzed: 11/24/14 22:08					
1,2-Dibromo-3-chloropropane	0.0980	0.020	0.0050	ug/L	0.10		98	70-130		
1,2-Dibromoethane	0.0916	0.020	0.0050	ug/L	0.10		92	70-130		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.101*		*ug/L*	*0.10*		*101*	*85-123*		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42413 - 8011 microextraction for EDB/DBCP										
LCS Dup (BK42413-BSD1)					Prepared & Analyzed: 11/24/14 22:30					
1,2-Dibromo-3-chloropropane	0.0952	0.020	0.0050	ug/L	0.10		95	70-130	3	20
1,2-Dibromoethane	0.0973	0.020	0.0050	ug/L	0.10		97	70-130	6	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.109*		*ug/L*	*0.10*		*109*	*85-123*		
Matrix Spike (BK42413-MS1)		**Source: 1411981-23**			Prepared & Analyzed: 11/24/14 22:51					
1,2-Dibromoethane	0.110	0.021	0.0052	ug/L	0.10	ND	106	65-135		
1,2-Dibromo-3-chloropropane	0.115	0.021	0.0052	ug/L	0.10	ND	111	65-135		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.112*		*ug/L*	*0.10*		*108*	*85-123*		
Matrix Spike Dup (BK42413-MSD1)		**Source: 1411981-23**			Prepared & Analyzed: 11/24/14 23:13					
1,2-Dibromo-3-chloropropane	0.117	0.021	0.0052	ug/L	0.10	ND	113	65-135	2	20
1,2-Dibromoethane	0.111	0.021	0.0052	ug/L	0.10	ND	108	65-135	0.9	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.110*		*ug/L*	*0.10*		*107*	*85-123*		
Batch BK42514 - 8011 microextraction for EDB/DBCP										
Blank (BK42514-BLK1)					Prepared & Analyzed: 11/25/14 20:14					
1,2-Dibromoethane	0.0050 U	0.020	0.0050	ug/L						
1,2-Dibromo-3-chloropropane	0.0050 U	0.020	0.0050	ug/L						
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0978*		*ug/L*	*0.10*		*98*	*85-123*		
LCS (BK42514-BS1)					Prepared & Analyzed: 11/25/14 20:37					
1,2-Dibromo-3-chloropropane	0.103	0.020	0.0050	ug/L	0.10		103	70-130		
1,2-Dibromoethane	0.0972	0.020	0.0050	ug/L	0.10		97	70-130		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0965*		*ug/L*	*0.10*		*96*	*85-123*		
LCS Dup (BK42514-BSD1)					Prepared & Analyzed: 11/25/14 20:58					
1,2-Dibromo-3-chloropropane	0.0970	0.020	0.0050	ug/L	0.10		97	70-130	6	20
1,2-Dibromoethane	0.0972	0.020	0.0050	ug/L	0.10		97	70-130	0	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.0931*		*ug/L*	*0.10*		*93*	*85-123*		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK42514 - 8011 microextraction for EDB/DBCP										
Matrix Spike (BK42514-MS1)		**Source: 1411981-37**			Prepared & Analyzed: 11/25/14 21:20					
1,2-Dibromo-3-chloropropane	0.104	0.022	0.0054	ug/L	0.11	ND	96	65-135		
1,2-Dibromoethane	0.106	0.022	0.0054	ug/L	0.11	ND	98	65-135		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.100*		*ug/L*	*0.11*		*93*	*85-123*		
Matrix Spike Dup (BK42514-MSD1)		**Source: 1411981-37**			Prepared & Analyzed: 11/25/14 21:42					
1,2-Dibromoethane	0.100	0.021	0.0052	ug/L	0.10	ND	96	65-135	6	20
1,2-Dibromo-3-chloropropane	0.0994	0.021	0.0052	ug/L	0.10	ND	96	65-135	5	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.102*		*ug/L*	*0.10*		*98*	*85-123*		
Batch BL40116 - 8011 microextraction for EDB/DBCP										
Blank (BL40116-BLK1)					Prepared & Analyzed: 12/01/14 17:39					
1,2-Dibromo-3-chloropropane	0.0050 U	0.020	0.0050	ug/L						
1,2-Dibromoethane	0.0050 U	0.020	0.0050	ug/L						
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.109*		*ug/L*	*0.10*		*109*	*85-123*		
LCS (BL40116-BS1)					Prepared & Analyzed: 12/01/14 18:01					
1,2-Dibromo-3-chloropropane	0.114	0.020	0.0050	ug/L	0.10		114	70-130		
1,2-Dibromoethane	0.107	0.020	0.0050	ug/L	0.10		107	70-130		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.101*		*ug/L*	*0.10*		*101*	*85-123*		
LCS Dup (BL40116-BSD1)					Prepared & Analyzed: 12/01/14 18:23					
1,2-Dibromoethane	0.108	0.020	0.0050	ug/L	0.10		108	70-130	0.9	20
1,2-Dibromo-3-chloropropane	0.112	0.020	0.0050	ug/L	0.10		112	70-130	2	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.103*		*ug/L*	*0.10*		*103*	*85-123*		
Matrix Spike (BL40116-MS1)		**Source: 1411981-43**			Prepared & Analyzed: 12/01/14 18:45					
1,2-Dibromoethane	0.107	0.021	0.0053	ug/L	0.11	ND	101	65-135		
1,2-Dibromo-3-chloropropane	0.110	0.021	0.0053	ug/L	0.11	ND	104	65-135		
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.113*		*ug/L*	*0.11*		*107*	*85-123*		

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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL40116 - 8011 microextraction for EDB/DBCP										
Matrix Spike Dup (BL40116-MSD1)		**Source: 1411981-43**			Prepared & Analyzed: 12/01/14 19:07					
1,2-Dibromo-3-chloropropane	0.116	0.021	0.0052	ug/L	0.10	ND	112	65-135	5	20
1,2-Dibromoethane	0.111	0.021	0.0052	ug/L	0.10	ND	107	65-135	4	20
Surrogate: 2-Bromo-1-chloropropane		*Result: 0.109*		*ug/L*	*0.10*		*105*	*85-123*		

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Inorganics - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41418 - Chlorophyll a, corrected prep										
Blank (BK41418-BLK1)					Prepared: 11/14/14 Analyzed: 11/21/14 15:34					
Chlorophyll a, Corrected	0.50 U	0.50	0.50	ug/L						
LCS (BK41418-BS1)					Prepared: 11/14/14 Analyzed: 11/21/14 15:34					
Chlorophyll a, Corrected	430	0.50	0.50	ug/L	450		97	73-111		
Duplicate (BK41418-DUP1)		**Source: 1412268-01**			Prepared: 11/14/14 Analyzed: 11/21/14 15:34					
Chlorophyll a, Corrected	3.1	0.50	0.50	ug/L		3.8			20	39
Batch BK42512 - Digestion for TP and TKN										
Blank (BK42512-BLK1)					Prepared: 11/25/14 Analyzed: 11/26/14 10:10					
Total Kjeldahl Nitrogen	0.05 U	0.20	0.05	mg/L						
LCS (BK42512-BS1)					Prepared: 11/25/14 Analyzed: 11/26/14 10:10					
Total Kjeldahl Nitrogen	1.07	0.20	0.05	mg/L	1.0		107	90-110		
Matrix Spike (BK42512-MS1)		**Source: 1411981-19**			Prepared: 11/25/14 Analyzed: 11/26/14 10:10					
Total Kjeldahl Nitrogen	2.56	0.20	0.05	mg/L	1.0	1.57	100	90-110		
Matrix Spike (BK42512-MS2)		**Source: 1411981-20**			Prepared: 11/25/14 Analyzed: 11/26/14 10:10					
Total Kjeldahl Nitrogen	2.58	0.20	0.05	mg/L	1.0	1.62	96	90-110		
Matrix Spike Dup (BK42512-MSD1)		**Source: 1411981-19**			Prepared: 11/25/14 Analyzed: 11/26/14 10:10					
Total Kjeldahl Nitrogen	2.58	0.20	0.05	mg/L	1.0	1.57	101	90-110	0.6	20
Matrix Spike Dup (BK42512-MSD2)		**Source: 1411981-20**			Prepared: 11/25/14 Analyzed: 11/26/14 10:10					
Total Kjeldahl Nitrogen	2.54	0.20	0.05	mg/L	1.0	1.62	92	90-110	2	20

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Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK41814 - Digestion Procedure for Hg Analysis by EPA 1631										
Blank (BK41814-BLK1)					Prepared: 11/18/14 Analyzed: 11/19/14 09:15					
Mercury	0.00020 U	0.00040	0.00020	ug/L						
LCS (BK41814-BS1)					Prepared: 11/18/14 Analyzed: 11/19/14 09:15					
Mercury	0.020	0.00040	0.00020	ug/L	0.020		98	77-123		
Matrix Spike (BK41814-MS1)		**Source: 1411981-17**			Prepared: 11/18/14 Analyzed: 11/19/14 09:15					
Mercury	0.020	0.00040	0.00020	ug/L	0.020	0.00023	98	71-125		
Matrix Spike Dup (BK41814-MSD1)		**Source: 1411981-17**			Prepared: 11/18/14 Analyzed: 11/19/14 09:15					
Mercury	0.018	0.00040	0.00020	ug/L	0.020	0.00023	91	71-125	7	36

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 16, 2014
Work Order: 1411981
Revised Report

* Qualifiers, Notes and Definitions

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limts and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

For methods marked with **, all QC criteria have been met for this method which is equivalent to a SAL certified method.

Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

Q Sample held beyond the accepted holding time.

Questions regarding this report should be directed to :

Kathryn Nordmark
Telephone (813) 855-1844 FAX (813) 855-2218
Kathryn@southernanalyticallabs.com

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD OLDSMAR FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab	Contact / Phone: Kayse Hasiak-Solon
Project Name / Location: Lena Road Landfill Groundwater Appendix I	
Samplers: (Signature) Paul E Wills	

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
01	Lena GW-1	11-5-14	0920	GW		X		3	3							6
02	Trip Blank	10-23	1230	R		X		1								1

Containers Prepared/ Relinquished: KJM	Date/Time: 1300 10-23-14	Received:	Date/Time: 10-28-14 0728
Relinquished: Paul E Wills	Date/Time: 11-5-14 1131 ~~10-30-14~~	Received:	Date/Time: 11-5-14 1131
Relinquished: ~~Paul E Wills~~	Date/Time: 11-5-14 1131	Received:	Date/Time:
Relinquished:	Date/Time: 11-6-14 0842	Received:	Date/Time: 0842 11-6-14
Relinquished:	Date/Time: 1030 11-6-14	Received:	Date/Time: 1030 11-6-14

DW 11-5-14

Seal intact?	Y N (N/A)
Samples intact upon arrival?	(Y) N N/A
Received on ice? Temp_____	(Y) N N/A
Proper preservatives indicated?	(Y) N N/A
Rec'd within holding time?	(Y) N N/A
Volatiles rec'd w/out headspace?	Y N (N/A)
Proper containers used?	(Y) N N/A

Instructions / Remarks

Chain of Custody.xls
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Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. ~~1411980~~ 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature)

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
03	Lena GW-2	11-5-14	0953	GW		X		3	3						6
04	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished:	Date/Time: 1300 10-23-14	Received:	Date/Time: 10-28-14 0728
Relinquished:	Date/Time: 1131 11-5-14	Received:	Date/Time: 11-5-14 1131
Relinquished:	Date/Time: 11-6-14 0842	Received:	Date/Time: 0842 11-6-14
Relinquished:	Date/Time: 1030 11-6-14	Received:	Date/Time: 1030 11-6-14
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp_____ Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks

Chain of Custody.xls
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Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. ~~1411984~~ 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature)

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
05	Lena GW-3	11-5-14	1028	GW		X		3	3						6
06	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
HOM	1300 10-23-14		10-28-14 0728
	1131 11-5-14		11-5-14 1131
	11-6-14 0842		0842 11-6-14
	1030 11-6-14		1030 11-6-14
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp. Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks

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Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) [signature]

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
07	Lena GW-4 AE59779	11-6-14	0849	GW		X		3	3						6
08	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished:	Date/Time: 1300 102314	Received:	Date/Time: 10-28-14 0728
Relinquished:	Date/Time: 11-5-14 1145	Received:	Date/Time: 1145 11-5-14
Relinquished:	Date/Time: 1055 11-6-14	Received:	Date/Time: 1055 11-6-14
Relinquished:	Date/Time: 11-7-14 1052	Received:	Date/Time: 11/7/14 1052
Relinquished:	Date/Time: 11/7/14 1340	Received:	Date/Time: 11/7/14 1340

Seal intact? N N/A
Samples intact upon arrival? N N/A
Received on ice? Temp. 0 N N/A
Proper preservatives indicated? N N/A
Rec'd within holding time? N N/A
Volatiles rec'd w/out headspace? N N/A
Proper containers used? N N/A

Instructions / Remarks: Release # B1501233

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SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411961

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) [signature]

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011 Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
09	Lena GW-5 AG 59780	11-6-14	0925	GW		X		3	3							6
10	Trip Blank	10-23	1230	R		X		1								1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
MJM	1300 102314	[signature]	10-28-14 0728
[signature]	11-5-14 1145	[signature]	1145 11-5-14
[signature]	1055 11-6-14	[signature]	11-6-14 1055
[signature]	11-7-14 1052	[signature]	11/7/14 1052
[signature]	11/7/14 1340	[signature]	11/7/14 1340

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp 1.0 Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks
Release #
B1501233

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Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name	Contact / Phone:
Manatee County Utilities Operations Central Lab	Kayse Hasiak-Solon
Project Name / Location: Lena Road Landfill Groundwater Appendix I	
Samplers: (Signature) [signature]	

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
11	Lena GW-6 AE 59781	7/6-14	1002	GW		X		3	3						6
12	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished:	Date/Time:	Received:	Date/Time:
[signature]	1300 102314	[signature]	10-28-14 0728
Relinquished: [signature]	Date/Time: 11-5-14 1145	Received: [signature]	Date/Time: 1145 11-5-14
Relinquished: [signature]	Date/Time: 1055 11-6-14	Received: [signature]	Date/Time: 11-6-14 1055
Relinquished: [signature]	Date/Time: 11-7-14 1052	Received: [signature]	Date/Time: 11/7/14 1052
Relinquished: [signature]	Date/Time: 11/7/14 1340	Received: [signature]	Date/Time: 11/7/14 1340

Seal intact?	Y	N	N/A
Samples intact upon arrival?	Y	N	N/A
Received on ice? Temp 1.0	Y	N	N/A
Proper preservatives indicated?	Y	N	N/A
Rec'd within holding time?	Y	N	N/A
Volatiles rec'd w/out headspace?	Y	N	N/A
Proper containers used?	Y	N	N/A

Instructions / Remarks

Release # B1501233

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SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) [signature]

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011 Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
21	Lena GW-7 AE 59782	11-18-14	0859	GW		X		3	3							6
22	Trip Blank	10-23	1230	R		X		1								1

Containers Prepared/ Relinquished:	Date/Time	Received:	Date/Time:
MJM	1300 10-23-14	[signature]	10-28-14 0728
[signature]	11-6-14 1110	[signature]	1110 11-6-14
[signature]	1201 11-18-14	[signature]	1201 11-18-14
[signature]	112014 1415	[signature]	1415 11-20-14
[signature]	1555 11-20-14	K Mudrenak	1555 11-20-14

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp 0.3 Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks
WAC facility 44795
Testsite ID 21599
GW-7
Reference# B1501523

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Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD OLDSMAR, FL 34677 813-855-1844 fax 813-855-2216

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) Paul E Wills

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011 Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
23	Lena GW-8 AE 59783	11-6-14	1033	GW		X		3	3							6
24	Trip Blank	10-23	1230	R		X		1								1

Containers Prepared/ Relinquished: [signature]	Date/Time: 1300 10-23-14	Received: [signature]	Date/Time: 10-28-14 0728
Relinquished: [signature]	Date/Time: 11-6-14 1110	Received: Paul E Wills	Date/Time: 1110 11-6-14
Relinquished: Paul E Wills	Date/Time: 1201 11-18-14	Received: [signature]	Date/Time: ~~11-6-14~~ 11-18-14 1201
Relinquished: [signature]	Date/Time: 112014 1415	Received: [signature]	Date/Time: 1415 11-20-14
Relinquished: [signature]	Date/Time: 1555 11-20-14	Received: K Midmark	Date/Time: 1555 11-20-14

Seal intact?	Y N N/A	Samples intact upon arrival?	Y N N/A
Received on ice? Temp 0.3	Y N N/A	Proper preservatives indicated?	Y N N/A
Rec'd within holding time?	Y N N/A	Volatiles rec'd w/out headspace?	Y N N/A
Proper containers used?	Y N N/A		

Instructions / Remarks
WACS Facility ID 44795
WAS Testsite ID 21600
GW-8
Release# B1501523

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Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) Laurel E Mills

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011 Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
25	Lena GW-9 AE 59784	11-18-14	1104	GW		X		3	3						6
26	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished:	Date/Time	Received:	Date/Time:
MJM	1300 10-23-14	[signature]	10-28-14 0728
[signature]	11-6-14 1110	Laurel E Mills	11-6-14 1110
Laurel E Mills	1201 11-18-14	[signature]	1201 11-18-14
[signature]	11-20-14 1415	MJM	1415 11-20-14
MJM	1555 11-20-14	K Mudmont	1555 11-20-14

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp 6.3 Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks
WACS Facility ID 44795
WACS Test Site ID 21601
GW-9
Release# B1501523

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Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) [signature]

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011 Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
27	Lena GW-13 AE 59772	11-20-14	1039	GW		X		3	3							6
28	Trip Blank	10-23	1230	R		X		1								1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
MJM	1400 10-23-14	[signature]	10-28-14 0728
[signature]	11-19-14 1150	[signature]	1150 11-19-14
[signature]	1138 11-20-14	[signature]	11-20-14 1138
[signature]	112014 1415	[signature]	1415 11-20-14
[signature]	1555 11-20-14	[signature]	1555 11-20-14

Seal intact? Y N N/A

Samples intact upon arrival? Y N N/A

Received on ice? Temp 0.3 Y N N/A

Proper preservatives indicated? Y N N/A

Rec'd within holding time? Y N N/A

Volatiles rec'd w/out headspace? Y N N/A

Proper containers used? Y N N/A

Instructions / Remarks

WACS Facility ID 44795

WACS Testsite ID ~~21605~~ 21605

WACS Testsite Name GW-13

Release# B1501523

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SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) [signature]

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
29	Lena GW-14 AE59773	11-2014	1001	GW		X		3	3						6
30	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
MJM	1300 10-23-14	[signature]	10-28-14 0728
[signature]	11-19-14 1150	[signature]	1150 11-19-14
[signature]	1138 11-20-14	[signature]	11-20-14 1138
[signature]	11 2014 1415	[signature]	1415 11-20-14
[signature]	1555 11-20-14	[signature]	1555 11-20-14

Seal intact?	Y N	N/A
Samples intact upon arrival?	Y N	N/A
Received on ice? Temp 0.3	Y N	N/A
Proper preservatives indicated?	Y N	N/A
Rec'd within holding time?	Y N	N/A
Volatiles rec'd w/out headspace?	Y N	N/A
Proper containers used?	Y N	N/A

Instructions / Remarks
WACS facility ID 44705
WACS Testsite ID 21606
WACS Testsite Name GW14
Release # B1501523

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Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) Paul Ellis

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
31	Lena GW-15 AE 55774	11-20-14	0924	GW		X		3	3							6
32	Trip Blank	10-23	1230	R		X		1								1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
MOM	1300 102314	[illegible]	10-28-14 0728
[illegible]	11-19-14 1150	Paul Ellis	1150 11-19-14
Paul Ellis	1138 11-20-14	[illegible]	11-20-14 1138
[illegible]	112014 1415	[illegible]	1415 11-20-14
[illegible]	1555 11-20-14	K Muhmerh	1555 11-20-14

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp 6.3 Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks
WACS Facility ID 44795
WACS Testsite ID 21607
WACS Testsite Name GW-15
Release# B1501523

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SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab	Contact / Phone: Kayse Hasiak-Solon
Project Name / Location: Lena Road Landfill Groundwater Appendix I	
Samplers: (Signature)	

Matrix Codes:
DW-Drinking Water WW-Wastewater
SW-SurfaceWater SL-Sludge SO-Soil
GW-Groundwater SA-Saline Water O-Other
R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
-33	Lena GW-4	11/24/14	921	GW		X		3	3							6
-34	Trip Blank	11-21	1100	R		X		1								1

Containers Prepared/ Relinquished: MOM	Date/Time: 1100 112114	Received:	Date/Time: 11/24/14 0630
Relinquished:	Date/Time: 11/24/14 1200	Received:	Date/Time: 11/24/14 1200
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact?	Y N N/A
Samples intact upon arrival?	Y N N/A
Received on ice? Temp_____	Y N N/A
Proper preservatives indicated?	Y N N/A
Rec'd within holding time?	Y N N/A
Volatiles rec'd w/out headspace?	Y N N/A
Proper containers used?	Y N N/A

Instructions / Remarks

Chain of Custody.xls
Rev.Date 11/19/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, fl 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County	Project Name:		Contact: Phone:	
Date Sampled:	11/24/14	SAL WO#	1411981	Location:	Lena Landfill
Well Number:	MW 4	Sample ID	- 33	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)		Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	8.57	PURGE PUMP CODE	PP GP IBP
Total Well Depth (Feet)	19.60	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.8000	1/4 WELL VOLUME	.4500	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME			TUBING LENGTH		FLOW CELL VOLUME			EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)			FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	0904	PURGE TIME END	0920	TOTAL PURGED (gallons)	3.25	
INSTRUMENT ID#					YSI 556 →				FURB →		
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (5U) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0914	2.0	2.0	.25		6.01	24.9	421.2	.23	9.78	Slightly tannic	none
0917	.75	2.75	↓		6.03	24.9	423.6	.18	8.08	suspended solids clear	↓
0920	.75	3.25	↓		6.03	24.9	425.9	.12	7.10	↓	↓

Well Capacity (gallons/foot): 0.75"=0.02, 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

SAMPLING DATA

PUMP CODES: PP+Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polyproplyene, PE = Polyethylene, NP=Non-inert Plastic, TK= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)			PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (gpm)		
SAMPLING INITIATED	0921	SAMPLING ENDED	0928	FIELD CLEANED	Y N	CLEANING STEPS			
FIELD FILTERED?	Y N	FILTER SIZE (um)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A
PRESERVATION CHECKED IN FIELD?		N N/A	LIST PRESERVATIVES ADDED						
WEATHER CONDITIONS	Overcast 70°F								
COMMENTS									

SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: JB

DATE SIGNED: 11/24/14

SAMPLER'S SIGNATURE:

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD OLDSMAR FL 34677 813-855-1844 fax 813-855-2218

SAL Project No 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) [signature]

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011 Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
35	Lena GW-11 AE 59770	11-19-14	0911	GW		X		3	3						6
36	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
[signature]	1023	[signature]	0728 10-28-14
[signature]	11-12-14 0800	[signature]	0800 11-12-14
[signature]	11-19-14 1147	[signature]	11-19-14 1147
			1415 11/20/14
[signature]	1555 11/20/14	K Mudmark	1555 11/20/14

Seal intact? Y N N/A

Samples intact upon arrival? Y N N/A

Received on ice? Temp 0.3 Y N N/A

Proper preservatives indicated? Y N N/A

Rec'd within holding time? Y N N/A

Volatiles rec'd w/out headspace? Y N N/A

Proper containers used? Y N N/A

Instructions / Remarks

Chain of Custody xls
Rev Date 11/18/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD OLDSMAR FL 346[illegible] 813-8[illegible]5 1844 fax 813 855-2218

SAL Project No 141981

Client Name	Contact / Phone
Manatee County Utilities Operations Central Lab	Kayse Hasiak-Solon
Project Name / Location: Lena Road Landfill Groundwater Appendix I	
Samplers (Signature): Jamie E Mills	

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
37	Lena GW-12 AB 5222	11-19-14	0851	GW		X		3	3							6
38	Trip Blank	10-23	1230	R		X		1								1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
MOM	1400 10-23-14	[signature]	10-28-14 0728
[signature]	11-12-14 0800	Jamie E Mills	
Jamie E Mills	1147 11-19-14	[signature]	11-19-14 1147
			1415 11/20/14
OM	1555 11/20/14	K Mudmach	1555 11/20/14

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp 0.3 Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks

Chain of Custody.xls
Rev Date 11/19/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) Paul Ellis

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)							No. of Containers (Total per each location)
39	Lena GW-16 AE 59775	11-24-14	0910	GW		X		3	3							6
40	Trip Blank	10-23	1230	R		X		1								1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
MOM	1300 102314		10-28-14 0728
	11-20-14 1145		1145 11-20-14
	1133 11-24-14		11-24-14 1133
	11-25-14 1035		11-25-14 1035
	1310 11-25-14		1310 11-25-14

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp 0.2 Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks
WACS Facility 44795
21608 Testsite
GW-16
Release
B1501622

Chain of Custody.xls
Rev.Date 11/19/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD OLDSMAR FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers: (Signature) Paul E Wells

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011 Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
41	Lena GW-17 AE 59776	11-24-14	0957	GW		X		3	3						6
42	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
MDM	1300 10-23-14	[signature]	10-23-14 0728
[signature]	11-20-14 1145	Paul E Wells	1145 11-20-14
Paul E Wells	11-24-14 1133	[signature]	11-24-14 1133
[signature]	11-25-14 1035	[signature]	1035 11-25-14
[signature]	1310 11-25-14	[signature]	1310 11-25-14

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp 0.2 Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks
WAES Facility 44295
Testsite 21609
Release GW-17
B1501622

Chain of Custody

Chain of Custody.xls
Rev Date 11/19/01

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1411981

Client Name: Manatee County Utilities Operations Central Lab

Contact / Phone: Kayse Hasiak-Solon

Project Name / Location: Lena Road Landfill Groundwater Appendix I

Samplers (Signature): David E Mills

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab		40 mL Vials, HCl 8260 App.I Volatiles	40 mL Vials, Cool 8011Organics ** (DBCP, EDB only)						No. of Containers (Total per each location)
43	Lena BGW-1 AE 59767	11-24-14	1132	GW		X		3	3						6
44	Trip Blank	10-23	1230	R		X		1							1

Containers Prepared/ Relinquished	Date/Time	Received	Date/Time
MJM	1300 102314	[illegible]	10-28-14 0728
[illegible]	11-20-14 1145	David E Mills	11-20-14 1145
David E Mills	11-24-14 1133	[illegible]	11-24-14 1133
[illegible]	11-25-14 1035	[illegible]	11-25-14 1035
[illegible]	1310 11-25-14	[illegible]	11-25-14 1310

Seal intact? N N/A
Samples intact upon arrival? N N/A
Received on ice? Temp 0.2 N N/A
Proper preservatives indicated? N N/A
Rec'd within holding time? N N/A
Volatiles rec'd w/out headspace? N N/A
Proper containers used? N N/A

Instructions / Remarks
WACS facility 44795
Testsite 21610
B1501622 (Rehen)

Chain of Custody xls
Rev.Date 11/19/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 30, 2014
Work Order: 1412995

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-7 21599**
Matrix	**Groundwater**
SAL Sample Number	**1412995-01**
Date/Time Collected	**11/18/14 08:59**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	1.0	U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 16:29	1
Barium	ug/L	13		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 13:42	1
Beryllium	ug/L	0.096	U	EPA 6010	1.0	0.096	12/11/14 14:32	12/12/14 17:02	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 13:42	1
Chromium	ug/L	1.2	I	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 13:42	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:02	1
Copper	ug/L	2.0		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 13:42	1
Iron	ug/L	310		EPA 6010	100	20	12/11/14 14:32	12/12/14 17:02	1
Lead	ug/L	0.25	U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 13:42	1
Nickel	ug/L	4.5	I	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 13:42	1
Selenium	ug/L	1.6	I	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 16:29	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:02	1
Sodium	mg/L	15		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:02	1
Vanadium	ug/L	7.8	U	EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:02	1
Zinc	ug/L	7.2		EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 15:35	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 30, 2014
Work Order: 1412995

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-8 21600**
Matrix	**Groundwater**
SAL Sample Number	**1412995-02**
Date/Time Collected	**11/18/14 10:33**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 16:32	1
Barium	ug/L	18	EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 13:47	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	12/11/14 14:32	12/15/14 11:33	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 13:47	1
Chromium	ug/L	1.8 I	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 13:47	1
Cobalt	ug/L	10 U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:05	1
Copper	ug/L	1.7	EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 13:47	1
Iron	ug/L	140	EPA 6010	100	20	12/11/14 14:32	12/12/14 17:05	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 13:47	1
Nickel	ug/L	4.1 I	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 13:47	1
Selenium	ug/L	1.0 I	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 16:32	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:05	1
Sodium	mg/L	16	EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:05	1
Vanadium	ug/L	8.4 I	EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:05	1
Zinc	ug/L	1.6 I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 15:40	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 30, 2014
Work Order: 1412995

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-9 21601**
Matrix	**Groundwater**
SAL Sample Number	**1412995-03**
Date/Time Collected	**11/18/14 11:04**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	1.0	U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 16:35	1
Barium	ug/L	6.9		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 13:51	1
Beryllium	ug/L	0.096	U	EPA 6010	1.0	0.096	12/11/14 14:32	12/12/14 17:09	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 13:51	1
Chromium	ug/L	0.66	I	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 13:51	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:09	1
Copper	ug/L	1.3		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 13:51	1
Iron	ug/L	410		EPA 6010	100	20	12/11/14 14:32	12/12/14 17:09	1
Lead	ug/L	0.25	U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 13:51	1
Nickel	ug/L	2.4	I	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 13:51	1
Selenium	ug/L	1.0	I	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 16:35	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:09	1
Sodium	mg/L	2.2		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:09	1
Vanadium	ug/L	36		EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:09	1
Zinc	ug/L	1.6	I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 15:44	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

December 30, 2014
Work Order: 1412995

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-11 21603**
Matrix	**Groundwater**
SAL Sample Number	**1412995-06**
Date/Time Collected	**11/19/14 09:11**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	1.0	U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 16:49	1
Barium	ug/L	12		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 14:05	1
Beryllium	ug/L	0.096	U	EPA 6010	1.0	0.096	12/11/14 14:32	12/12/14 17:31	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 14:05	1
Chromium	ug/L	1.4	I	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 14:05	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:31	1
Copper	ug/L	0.88		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 14:05	1
Iron	ug/L	1,200		EPA 6010	100	20	12/11/14 14:32	12/12/14 17:31	1
Lead	ug/L	0.38	I	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 14:05	1
Nickel	ug/L	3.5	I	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 14:05	1
Selenium	ug/L	0.93	U	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 16:49	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:31	1
Sodium	mg/L	32		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:31	1
Vanadium	ug/L	13		EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:31	1
Zinc	ug/L	1.3	I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 16:07	1

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Work Order: 1412995

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-12 21604**
Matrix	**Groundwater**
SAL Sample Number	**1412995-07**
Date/Time Collected	**11/19/14 09:51**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	2.7	I	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 16:51	1
Barium	ug/L	35		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 14:10	1
Beryllium	ug/L	0.096	U	EPA 6010	1.0	0.096	12/11/14 14:32	12/15/14 11:36	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 14:10	1
Chromium	ug/L	0.62	I	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 14:10	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:34	1
Copper	ug/L	3.4		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 14:10	1
Iron	ug/L	640		EPA 6010	100	20	12/11/14 14:32	12/12/14 17:34	1
Lead	ug/L	0.25	U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 14:10	1
Nickel	ug/L	6.5		EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 14:10	1
Selenium	ug/L	17		EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 16:51	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:34	1
Sodium	mg/L	4.9		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:34	1
Vanadium	ug/L	26		EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:34	1
Zinc	ug/L	2.8	I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 16:12	1

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Work Order: 1412995

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-13 21605**
Matrix	**Groundwater**
SAL Sample Number	**1412995-08**
Date/Time Collected	**11/20/14 10:39**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	1.0	U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 17:04	1
Barium	ug/L	28		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 14:14	1
Beryllium	ug/L	0.096	U	EPA 6010	1.0	0.096	12/11/14 14:32	12/15/14 11:39	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 14:14	1
Chromium	ug/L	0.76	I	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 14:14	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:38	1
Copper	ug/L	4.6		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 14:14	1
Iron	ug/L	1,400		EPA 6010	100	20	12/11/14 14:32	12/12/14 17:38	1
Lead	ug/L	0.25	U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 14:14	1
Nickel	ug/L	7.2		EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 14:14	1
Selenium	ug/L	5.0		EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 17:04	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:38	1
Sodium	mg/L	19		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:38	1
Vanadium	ug/L	30		EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:38	1
Zinc	ug/L	4.3	I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 16:17	1

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-14 21606**
Matrix	**Groundwater**
SAL Sample Number	**1412995-09**
Date/Time Collected	**11/20/14 10:01**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 17:07	1
Barium	ug/L	34	EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 14:19	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	12/11/14 14:32	12/12/14 17:41	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 14:19	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 14:19	1
Cobalt	ug/L	10 U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:41	1
Copper	ug/L	7.2	EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 14:19	1
Iron	ug/L	1,400	EPA 6010	100	20	12/11/14 14:32	12/12/14 17:41	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 14:19	1
Nickel	ug/L	10	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 14:19	1
Selenium	ug/L	1.6 I	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 17:07	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:41	1
Sodium	mg/L	13	EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:41	1
Vanadium	ug/L	11	EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:41	1
Zinc	ug/L	5.5	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 16:21	1

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-15 21607**
Matrix	**Groundwater**
SAL Sample Number	**1412995-10**
Date/Time Collected	**11/20/14 09:24**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	1.0	U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 17:10	1
Barium	ug/L	56		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 14:42	1
Beryllium	ug/L	0.096	U	EPA 6010	1.0	0.096	12/11/14 14:32	12/12/14 17:47	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 14:42	1
Chromium	ug/L	3.9	I	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 14:42	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:47	1
Copper	ug/L	2.7		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 14:42	1
Iron	ug/L	19,000		EPA 6010	100	20	12/11/14 14:32	12/12/14 17:47	1
Lead	ug/L	0.25	U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 14:42	1
Nickel	ug/L	2.9	I	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 14:42	1
Selenium	ug/L	1.1	I	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 17:10	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:47	1
Sodium	mg/L	40		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:47	1
Vanadium	ug/L	33		EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:47	1
Zinc	ug/L	3.3	I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 16:26	1

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-16 21608**
Matrix	**Groundwater**
SAL Sample Number	**1412995-11**
Date/Time Collected	**11/24/14 09:16**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	1.0	U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 17:13	1
Barium	ug/L	23		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 14:46	1
Beryllium	ug/L	0.096	U	EPA 6010	1.0	0.096	12/11/14 14:32	12/12/14 17:57	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 14:46	1
Chromium	ug/L	0.81	I	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 14:46	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 17:57	1
Copper	ug/L	0.75		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 14:46	1
Iron	ug/L	280		EPA 6010	100	20	12/11/14 14:32	12/12/14 17:57	1
Lead	ug/L	0.25	U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 14:46	1
Mercury	ug/L	0.10	U	EPA 7470	0.50	0.10	12/11/14 10:17	12/11/14 15:56	1
Nickel	ug/L	2.9	I	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 14:46	1
Selenium	ug/L	0.96	I	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 17:13	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 17:57	1
Sodium	mg/L	70		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 17:57	1
Vanadium	ug/L	11		EPA 6010	10	7.8	12/11/14 14:32	12/12/14 17:57	1
Zinc	ug/L	2.1	I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 16:30	1

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December 30, 2014
Work Order: 1412995

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**GW-17 21609**
Matrix	**Groundwater**
SAL Sample Number	**1412995-12**
Date/Time Collected	**11/24/14 09:51**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	1.0	U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 17:16	1
Barium	ug/L	6.0		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 15:00	1
Beryllium	ug/L	0.25	I	EPA 6010	1.0	0.096	12/11/14 14:32	12/15/14 11:42	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 15:00	1
Chromium	ug/L	6.2		EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 15:00	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 18:12	1
Copper	ug/L	2.4		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 15:00	1
Iron	ug/L	7,400		EPA 6010	100	20	12/11/14 14:32	12/12/14 18:12	1
Lead	ug/L	0.27	I	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 15:00	1
Mercury	ug/L	0.10	U	EPA 7470	0.50	0.10	12/11/14 10:17	12/11/14 15:57	1
Nickel	ug/L	2.3	I	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 15:00	1
Selenium	ug/L	1.8	I	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 17:16	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 18:12	1
Sodium	mg/L	3.6		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 18:12	1
Vanadium	ug/L	29		EPA 6010	10	7.8	12/11/14 14:32	12/12/14 18:12	1
Zinc	ug/L	3.6	I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 16:35	1

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Bradenton, FL 34210

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Work Order: 1412995

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	**BGW-1 21599**
Matrix	**Groundwater**
SAL Sample Number	**1412995-13**
Date/Time Collected	**11/24/14 10:32**
Collected by	**Client**
Date/Time Received	**12/08/14 13:45**

Parameters	Units	Results *		Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals									
Antimony	ug/L	1.0	U	EPA 6020	50	1.0	12/17/14 15:29	12/17/14 17:18	1
Barium	ug/L	17		EPA 6020	0.50	0.18	12/11/14 15:01	12/15/14 15:05	1
Beryllium	ug/L	0.096	U	EPA 6010	1.0	0.096	12/11/14 14:32	12/12/14 18:15	1
Cadmium	ug/L	0.27	U	EPA 6020	0.50	0.27	12/11/14 15:01	12/15/14 15:05	1
Chromium	ug/L	0.35	U	EPA 6020	5.0	0.35	12/11/14 15:01	12/15/14 15:05	1
Cobalt	ug/L	10	U	EPA 6010	100	10	12/11/14 14:32	12/12/14 18:15	1
Copper	ug/L	2.1		EPA 6020	0.50	0.13	12/11/14 15:01	12/15/14 15:05	1
Iron	ug/L	1,500		EPA 6010	100	20	12/11/14 14:32	12/12/14 18:15	1
Lead	ug/L	0.25	U	EPA 6020	0.50	0.25	12/11/14 15:01	12/15/14 15:05	1
Mercury	ug/L	0.10	U	EPA 7470	0.50	0.10	12/11/14 10:17	12/11/14 15:59	1
Nickel	ug/L	2.7	I	EPA 6020	5.0	0.46	12/11/14 15:01	12/15/14 15:05	1
Selenium	ug/L	1.2	I	EPA 6020	5.0	0.93	12/17/14 15:29	12/17/14 17:18	1
Silver	ug/L	1.1	U	EPA 6010	20	1.1	12/11/14 14:32	12/12/14 18:15	1
Sodium	mg/L	21		EPA 6010	0.50	0.13	12/11/14 14:32	12/12/14 18:15	1
Vanadium	ug/L	10		EPA 6010	10	7.8	12/11/14 14:32	12/12/14 18:15	1
Zinc	ug/L	3.8	I	EPA 6020	5.0	0.88	12/11/14 15:01	12/16/14 16:39	1

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Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL41113 - Digestion Procedure for Hg Analysis by EPA 245.1										
Blank (BL41113-BLK1)					Prepared & Analyzed: 12/11/14 15:45					
Mercury	0.10 U	0.50	0.10	ug/L						
LCS (BL41113-BS1)					Prepared & Analyzed: 12/11/14 15:46					
Mercury	5.0	0.50	0.10	ug/L	5.0		99	90-110		
Matrix Spike (BL41113-MS1)		**Source: 1412994-03**			Prepared & Analyzed: 12/11/14 15:51					
Mercury	4.9	0.50	0.10	ug/L	5.0	ND	98	85-115		
Matrix Spike Dup (BL41113-MSD1)		**Source: 1412994-03**			Prepared & Analyzed: 12/11/14 15:53					
Mercury	5.1	0.50	0.10	ug/L	5.0	ND	102	85-115	4	20
Batch BL41126 - Metals Preparation for EPA Method 200.7										
Blank (BL41126-BLK1)					Prepared: 12/11/14 Analyzed: 12/15/14 11:12					
Beryllium	0.096 U	1.0	0.096	ug/L						
Sodium	0.13 U	0.50	0.13	mg/L						
Cobalt	10 U	100	10	ug/L						
Silver	1.1 U	20	1.1	ug/L						
Iron	20 U	100	20	ug/L						
Vanadium	7.8 U	10	7.8	ug/L						
LCS (BL41126-BS1)					Prepared: 12/11/14 Analyzed: 12/12/14 16:09					
Cobalt	430	100	10	ug/L	400		109	85-115		
Iron	8,800	100	20	ug/L	8000		110	85-115		
Sodium	21	0.50	0.13	mg/L	20		106	85-115		
Vanadium	440	10	7.8	ug/L	400		109	85-115		
Beryllium	43	1.0	0.096	ug/L	40		108	85-115		
Silver	86	20	1.1	ug/L	80		107	85-115		

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Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL41126 - Metals Preparation for EPA Method 200.7										
Matrix Spike (BL41126-MS1)		**Source: 1412994-03**			Prepared: 12/11/14 Analyzed: 12/12/14 16:43					
Iron	16,000	100	20	ug/L	8000	7600	102	75-125		
Cobalt	440	100	10	ug/L	400	ND	109	75-125		
Silver	83	20	1.1	ug/L	80	ND	104	75-125		
Beryllium	43	1.0	0.096	ug/L	40	ND	107	75-125		
Sodium	96	0.50	0.13	mg/L	20	80	76	75-125		
Vanadium	430	10	7.8	ug/L	400	13	106	75-125		
Matrix Spike (BL41126-MS2)		**Source: 1412995-10**			Prepared: 12/11/14 Analyzed: 12/12/14 17:51					
Silver	86	20	1.1	ug/L	80	ND	107	75-125		
Beryllium	46	1.0	0.096	ug/L	40	ND	115	75-125		
Cobalt	460	100	10	ug/L	400	ND	115	75-125		
Iron	28,000	100	20	ug/L	8000	19000	110	75-125		
Sodium	63	0.50	0.13	mg/L	20	40	115	75-125		
Vanadium	470	10	7.8	ug/L	400	33	108	75-125		
Matrix Spike Dup (BL41126-MSD1)		**Source: 1412994-03**			Prepared: 12/11/14 Analyzed: 12/12/14 16:46					
Vanadium	440	10	7.8	ug/L	400	13	108	75-125	2	30
Sodium	100	0.50	0.13	mg/L	20	80	97	75-125	4	20
Beryllium	46	1.0	0.096	ug/L	40	ND	114	75-125	7	20
Silver	85	20	1.1	ug/L	80	ND	106	75-125	2	20
Cobalt	460	100	10	ug/L	400	ND	115	75-125	5	20
Iron	17,000	100	20	ug/L	8000	7600	113	75-125	6	20
Matrix Spike Dup (BL41126-MSD2)		**Source: 1412995-10**			Prepared: 12/11/14 Analyzed: 12/12/14 17:54					
Cobalt	440	100	10	ug/L	400	ND	110	75-125	4	20
Beryllium	43	1.0	0.096	ug/L	40	ND	109	75-125	5	20
Sodium	59	0.50	0.13	mg/L	20	40	94	75-125	7	20
Vanadium	440	10	7.8	ug/L	400	33	101	75-125	6	30
Silver	81	20	1.1	ug/L	80	ND	102	75-125	5	20
Iron	27,000	100	20	ug/L	8000	19000	93	75-125	5	20

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4751 66th St. W.
Bradenton, FL 34210

December 30, 2014
Work Order: 1412995

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL41128 - EPA 3020A										
Blank (BL41128-BLK1)					Prepared: 12/11/14 Analyzed: 12/15/14 12:52					
Chromium	0.35 U	5.0	0.35	ug/L						
Barium	0.18 U	0.50	0.18	ug/L						
Copper	0.13 U	0.50	0.13	ug/L						
Cadmium	0.27 U	0.50	0.27	ug/L						
Nickel	0.46 U	5.0	0.46	ug/L						
Lead	0.25 U	0.50	0.25	ug/L						
Zinc	0.88 U	5.0	0.88	ug/L						
LCS (BL41128-BS1)					Prepared: 12/11/14 Analyzed: 12/15/14 12:56					
Zinc	55	5.0	0.88	ug/L	50		110	85-115		
Chromium	56	5.0	0.35	ug/L	50		112	85-115		
Copper	57	0.50	0.13	ug/L	50		115	85-115		
Cadmium	56	0.50	0.27	ug/L	50		113	85-115		
Barium	52	0.50	0.18	ug/L	50		104	85-115		
Lead	55	0.50	0.25	ug/L	50		110	85-115		
Nickel	56	5.0	0.46	ug/L	50		113	85-115		
Matrix Spike (BL41128-MS1)		**Source: 1412995-09**			Prepared: 12/11/14 Analyzed: 12/15/14 14:23					
Nickel	60	5.0	0.46	ug/L	50	10	100	75-125		
Barium	89	0.50	0.18	ug/L	50	34	109	75-125		
Cadmium	54	0.50	0.27	ug/L	50	ND	109	75-125		
Chromium	53	5.0	0.35	ug/L	50	ND	107	75-125		
Copper	57	0.50	0.13	ug/L	50	7.2	100	75-125		
Lead	51	0.50	0.25	ug/L	50	ND	102	75-125		
Zinc	54	5.0	0.88	ug/L	50	5.5	97	75-125		
Matrix Spike (BL41128-MS2)		**Source: 1412995-11**			Prepared: 12/11/14 Analyzed: 12/15/14 14:51					
Copper	52	0.50	0.13	ug/L	50	0.75	102	75-125		
Chromium	54	5.0	0.35	ug/L	50	0.81	106	75-125		
Barium	75	0.50	0.18	ug/L	50	23	104	75-125		
Lead	50	0.50	0.25	ug/L	50	ND	99	75-125		
Zinc	52	5.0	0.88	ug/L	50	2.1	101	75-125		
Cadmium	55	0.50	0.27	ug/L	50	ND	110	75-125		
Nickel	53	5.0	0.46	ug/L	50	2.9	101	75-125		

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Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL41128 - EPA 3020A										
Matrix Spike Dup (BL41128-MSD1)		**Source: 1412995-09**			Prepared: 12/11/14 Analyzed: 12/15/14 14:37					
Zinc	53	5.0	0.88	ug/L	50	5.5	96	75-125	1	20
Chromium	54	5.0	0.35	ug/L	50	ND	108	75-125	1	20
Barium	89	0.50	0.18	ug/L	50	34	109	75-125	0.1	20
Copper	58	0.50	0.13	ug/L	50	7.2	101	75-125	1	20
Cadmium	55	0.50	0.27	ug/L	50	ND	110	75-125	2	20
Nickel	60	5.0	0.46	ug/L	50	10	100	75-125	0.06	20
Lead	51	0.50	0.25	ug/L	50	ND	102	75-125	0.04	20
Matrix Spike Dup (BL41128-MSD2)		**Source: 1412995-11**			Prepared: 12/11/14 Analyzed: 12/15/14 14:55					
Chromium	54	5.0	0.35	ug/L	50	0.81	106	75-125	0.2	20
Barium	75	0.50	0.18	ug/L	50	23	104	75-125	0.4	20
Cadmium	56	0.50	0.27	ug/L	50	ND	112	75-125	1	20
Lead	50	0.50	0.25	ug/L	50	ND	99	75-125	0.2	20
Zinc	51	5.0	0.88	ug/L	50	2.1	97	75-125	3	20
Copper	51	0.50	0.13	ug/L	50	0.75	101	75-125	0.9	20
Nickel	53	5.0	0.46	ug/L	50	2.9	100	75-125	0.4	20
Batch BL41727 - EPA 3020A										
Blank (BL41727-BLK1)					Prepared & Analyzed: 12/17/14 15:57					
Antimony	1.0 U	50	1.0	ug/L						
Selenium	0.93 U	5.0	0.93	ug/L						
LCS (BL41727-BS1)					Prepared & Analyzed: 12/17/14 16:00					
Antimony	4.7 I	50	1.0	ug/L	5.0		94	85-115		
Selenium	5.0	5.0	0.93	ug/L	5.0		100	85-115		

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Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL41727 - EPA 3020A										
Matrix Spike (BL41727-MS1)		**Source: 1412995-03**			Prepared & Analyzed: 12/17/14 16:38					
Antimony	49 I	500	10	ug/L	50	ND	98	75-125		
Selenium	50	50	9.3	ug/L	50	1.0	97	75-125		
Matrix Spike (BL41727-MS2)		**Source: 1412995-07**			Prepared & Analyzed: 12/17/14 16:59					
Selenium	65	50	9.3	ug/L	50	17	98	75-125		
Antimony	50 I	500	10	ug/L	50	2.7	94	75-125		
Matrix Spike Dup (BL41727-MSD1)		**Source: 1412995-03**			Prepared & Analyzed: 12/17/14 16:40					
Antimony	51 I	500	10	ug/L	50	ND	101	75-125	3	20
Selenium	52	50	9.3	ug/L	50	1.0	102	75-125	5	20
Matrix Spike Dup (BL41727-MSD2)		**Source: 1412995-07**			Prepared & Analyzed: 12/17/14 17:02					
Selenium	77	50	9.3	ug/L	50	17	121	75-125	16	20
Antimony	58 I	500	10	ug/L	50	2.7	110	75-125	15	20

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* Qualifiers, Notes and Definitions

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limts and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

For methods marked with **, all QC criteria have been met for this method which is equivalent to a SAL certified method.

Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

Questions regarding this report should be directed to :

Kathryn Nordmark
Telephone (813) 855-1844 FAX (813) 855-2218
Kathryn@southernanalyticallabs.com

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1412995

Client Name: MCUD Central Lab

Contact / Phone: Kayse Hasiak-Solan/(941)792-8811 ext. 5166

Project Name / Location: Lena Road WACS Facility ID 44795

Samplers: (Signature)

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	Metals by 200.7 (See List)	Mercury								Total Items
01	AE59782 WACS ID 21599 GW-7	11/18/2014	8:59	GW		X	X									1
02	AE59783 WACS ID 21600 GW-8	11/18/2014	10:33	GW		X	X									1
03	AE59784 WACS ID 21601 GW-9	11/18/2014	11:04	GW		X	X									1
04	AE59785 WACS ID 1663 SW-1	11/14/2014	10:45	SW		X	X									1
05	AE59786 WACS ID 1665 SW-2	11/14/2014	9:45	SW		X	X									1
06	AE59770 WACS ID 21603 GW-11	11/19/2014	9:11	GW		X	X									1
07	AE59771 WACS ID 21604 GW-12	11/19/2014	9:51	GW		X	X									1
08	AE59772 WACS ID 21605 GW-13	11/20/2014	10:39	GW		X	X									1
09	AE59773 WACS ID 21606 GW-14	11/20/2014	10:01	GW		X	X									1
10	AE59774 WACS ID 21607 GW-15	11/20/2014	9:24	GW		X	X									1
11	AE59775 WACS ID 21608 GW-16	11/24/2014	9:16	GW		X	X	X								1
12	AE59776 WACS ID 21609 GW-17	11/24/2014	9:51	GW		X	X	X								1

Containers Prepared/ Relinquished:	Date/Time: 12-8-12 1221	Received:	Date/Time: 1221 12-8-14
Relinquished:	Date/Time: 1345 12-8-14	Received: K Mudrment	Date/Time: 1345 12-8-14
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N N/A

Samples intact upon arrival? Y N N/A

Received on ice? Temp_____ Y N N/A

Proper preservatives indicated? Y N N/A

Rec'd within holding time? Y N N/A

Volatiles rec'd w/out headspace Y N N/A

Proper containers used? Y N N/A

Instructions / Remarks **Release number B1501847 Metals List: Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Se, Ag, Na, V, Zn**

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1412995

Client Name: MCUD Central Lab

Contact / Phone: Kayse Hasiak-Solan/(941)792-8811 ext. 5166

Project Name / Location: Lena Road WACS Facility ID 44795

Samplers: (Signature)

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	Metals by 200.7 (See List)	Mercury							Total Items
13	AE59767 WACS ID 21599 BGW-1	11/24/2014	10:32	GW		X	X	X							1

Containers Prepared/ Relinquished:	Date/Time: 12-8-14 1221	Received:	Date/Time: 1221 12-8-14
Relinquished:	Date/Time: 1345 12-8-14	Received:	Date/Time: 1345 12-8-14
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N N/A

Samples intact upon arrival? Y N N/A

Received on ice? Temp_____ Y N N/A

Proper preservatives indicated? Y N N/A

Rec'd within holding time? Y N N/A

Volatiles rec'd w/out headspace Y N N/A

Proper containers used? Y N N/A

Instructions / Remarks Release number B1501847 Metals List: Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Se, Ag, Na, V, Zn

Chain of Custody.xls
Rev.Date 11/19/01

Chain of Custody