

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **BGW-1 21610**
 Matrix **Groundwater**
 SAL Sample Number **1501766-01**
 Date/Time Collected **02/25/15 12:03**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/25/15 12:03	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		02/25/15 12:03	1
pH	SU	6.0	DEP FT1100	0.1	0.1		02/25/15 12:03	1
Specific conductance	umhos/cm	500	DEP FT1200	0.1	0.1		02/25/15 12:03	1
Turbidity	NTU	1.3	DEP FT1600	0.01	0.01		02/25/15 12:03	1
Water Temperature	°C	22.3	DEP FT1400	0.1	0.1		02/25/15 12:03	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 01:04	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 01:04	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 01:04	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/06/15 01:04	1
Acetone	ug/L	2.3 u	EPA 8260	4.0	2.0		03/06/15 01:04	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/06/15 01:04	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 01:04	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 01:04	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1

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Sample Description **BGW-1 21610**
 Matrix **Groundwater**
 SAL Sample Number **1501766-01**
 Date/Time Collected **02/25/15 12:03**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 01:04	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 01:04	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 01:04	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 01:04	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 01:04	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 01:04	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 01:04	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 01:04	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 01:04	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 01:04	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 01:04	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	99 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	100 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/27/15 20:49	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/27/15 20:49	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	103 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	1.7 J5	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	29	EPA 300.0	0.20	0.050		02/26/15 12:48	1
Nitrate (as N)	mg/L	0.06	EPA 300.0	0.04	0.01		02/26/15 12:48	1

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Sample Description	BGW-1 21610
Matrix	Groundwater
SAL Sample Number	1501766-01
Date/Time Collected	02/25/15 12:03
Collected by	Eric Glass
Date/Time Received	02/26/15 09:10

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Total Dissolved Solids	mg/L	240	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:19	03/09/15 13:30	1
Arsenic	ug/L	1.4 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 18:21	1
Barium	ug/L	15	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 18:21	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 18:39	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 18:21	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 18:21	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 18:39	1
Copper	ug/L	0.51	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 18:21	1
Iron	ug/L	1,800	EPA 6010	100	20	02/26/15 12:12	03/06/15 18:39	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 18:21	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:29	1
Nickel	ug/L	2.5 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 18:21	1
Selenium	ug/L	3.9 I	EPA 6020	5.0	0.93	03/09/15 12:19	03/09/15 13:30	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 18:39	1
Sodium	mg/L	25	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 18:39	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 18:21	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 18:39	1
Zinc	ug/L	5.5	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 18:21	1

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-1 21593**
 Matrix **Groundwater**
 SAL Sample Number **1501766-02**
 Date/Time Collected **02/24/15 08:59**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Large Particles	DEP SOPs				02/24/15 08:59	1
Dissolved Oxygen	mg/L	0.4	DEP FT1500	0.1	0.1		02/24/15 08:59	1
pH	SU	6.3	DEP FT1100	0.1	0.1		02/24/15 08:59	1
Specific conductance	umhos/cm	786	DEP FT1200	0.1	0.1		02/24/15 08:59	1
Turbidity	NTU	3.7	DEP FT1600	0.01	0.01		02/24/15 08:59	1
Water Elevation	ft., NGVD	33.15	DEP FS2211	0.01	0.01		02/24/15 08:59	1
Water Temperature	°C	20.8	DEP FT1400	0.1	0.1		02/24/15 08:59	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 01:35	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 01:35	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 01:35	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 01:35	1
Acetone	ug/L	2.0 I	EPA 8260	4.0	2.0		03/06/15 01:35	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 01:35	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 01:35	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-1 21593**
 Matrix **Groundwater**
 SAL Sample Number **1501766-02**
 Date/Time Collected **02/24/15 08:59**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 01:35	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 01:35	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		03/06/15 01:35	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		03/06/15 01:35	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05		03/06/15 01:35	1
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09		03/06/15 01:35	1
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		03/06/15 01:35	1
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 01:35	1
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3		03/06/15 01:35	1
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2		03/06/15 01:35	1
Xylene-o	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 01:35	1
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 01:35	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	96 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 U	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 21:11	1
1,2-Dibromoethane	ug/L	0.0055 U	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 21:11	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	113 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.35 I	EPA 350.1	0.40	0.095		02/26/15 14:32	10
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Laboratory Report

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Sample Description **GW-1 21593**
 Matrix **Groundwater**
 SAL Sample Number **1501766-02**
 Date/Time Collected **02/24/15 08:59**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloride	mg/L	42	EPA 300.0	0.20	0.050		02/25/15 18:30	1
Nitrate (as N)	mg/L	0.12	EPA 300.0	0.04	0.01		02/25/15 18:30	1
Total Dissolved Solids	mg/L	400	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
Metals								
Antimony	ug/L	1.8 I	EPA 6020	50	1.0	03/09/15 12:19	03/09/15 13:43	1
Arsenic	ug/L	3.5 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 18:26	1
Barium	ug/L	21	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 18:26	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 18:58	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 18:26	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 18:26	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 18:58	1
Copper	ug/L	2.1	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 18:26	1
Iron	ug/L	790	EPA 6010	100	20	02/26/15 12:12	03/06/15 18:58	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 18:26	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:37	1
Nickel	ug/L	6.2	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 18:26	1
Selenium	ug/L	2.7 I	EPA 6020	5.0	0.93	03/09/15 12:19	03/09/15 13:43	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 18:58	1
Sodium	mg/L	36	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 18:58	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 18:26	1
Vanadium	ug/L	16	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 18:58	1
Zinc	ug/L	7.9	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 18:26	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-2 21594**
 Matrix **Groundwater**
 SAL Sample Number **1501766-03**
 Date/Time Collected **02/24/15 09:18**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/24/15 09:18	1
Dissolved Oxygen	mg/L	0.7	DEP FT1500	0.1	0.1		02/24/15 09:18	1
pH	SU	6.3	DEP FT1100	0.1	0.1		02/24/15 09:18	1
Specific conductance	umhos/cm	1,331	DEP FT1200	0.1	0.1		02/24/15 09:18	1
Turbidity	NTU	2.8	DEP FT1600	0.01	0.01		02/24/15 09:18	1
Water Elevation	ft., NGVD	33.58	DEP FS2211	0.01	0.01		02/24/15 09:18	1
Water Temperature	°C	20.3	DEP FT1400	0.1	0.1		02/24/15 09:18	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 02:07	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:07	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:07	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 02:07	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 02:07	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 02:07	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 02:07	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 02:07	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:07	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:07	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 02:07	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:07	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:07	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 02:07	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-2 21594**
 Matrix **Groundwater**
 SAL Sample Number **1501766-03**
 Date/Time Collected **02/24/15 09:18**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 02:07	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 02:07	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:07	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 02:07	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 02:07	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:07	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 02:07	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:07	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 02:07	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 02:07	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 02:07	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 02:07	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:07	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:07	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	99 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	100 %	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	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 21:33	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 21:33	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	105 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	1.4	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	42	EPA 300.0	0.20	0.050		02/25/15 18:41	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-2 21594**
 Matrix **Groundwater**
 SAL Sample Number **1501766-03**
 Date/Time Collected **02/24/15 09:18**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.01 u	EPA 300.0	0.04	0.01		02/25/15 18:41	1
Total Dissolved Solids	mg/L	750	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 u	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:13	1
Arsenic	ug/L	9.1	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 18:30	1
Barium	ug/L	36	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 18:30	1
Beryllium	ug/L	0.096 u	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:02	1
Cadmium	ug/L	0.27 u	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 18:30	1
Chromium	ug/L	0.35 u	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 18:30	1
Cobalt	ug/L	10 u	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:02	1
Copper	ug/L	1.9	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 18:30	1
Iron	ug/L	5,900	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:02	1
Lead	ug/L	0.25 u	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 18:30	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:39	1
Nickel	ug/L	10	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 18:30	1
Selenium	ug/L	1.7 l	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:13	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:02	1
Sodium	mg/L	89	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:02	1
Thallium	ug/L	0.24 u	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 18:30	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:02	1
Zinc	ug/L	4.5 l	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 18:30	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-3 21595**
 Matrix **Groundwater**
 SAL Sample Number **1501766-04**
 Date/Time Collected **02/24/15 09:52**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Tannic Large	DEP SOPs				02/24/15 09:52	1
Dissolved Oxygen	mg/L	0.1	DEP FT1500	0.1	0.1		02/24/15 09:52	1
pH	SU	6.3	DEP FT1100	0.1	0.1		02/24/15 09:52	1
Specific conductance	umhos/cm	584	DEP FT1200	0.1	0.1		02/24/15 09:52	1
Turbidity	NTU	9.7	DEP FT1600	0.01	0.01		02/24/15 09:52	1
Water Elevation	ft., NGVD	33.38	DEP FS2211	0.01	0.01		02/24/15 09:52	1
Water Temperature	°C	21.2	DEP FT1400	0.1	0.1		02/24/15 09:52	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 02:38	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:38	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:38	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 02:38	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 02:38	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/06/15 02:38	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 02:38	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/06/15 02:38	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:38	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:38	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 02:38	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 02:38	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 02:38	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-3 21595**
 Matrix **Groundwater**
 SAL Sample Number **1501766-04**
 Date/Time Collected **02/24/15 09:52**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 02:38	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 02:38	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		03/06/15 02:38	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:38	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		03/06/15 02:38	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05		03/06/15 02:38	1
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:38	1
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09		03/06/15 02:38	1
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:38	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		03/06/15 02:38	1
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 02:38	1
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3		03/06/15 02:38	1
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2		03/06/15 02:38	1
Xylene-o	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 02:38	1
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 02:38	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	100 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	100 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	101 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	101 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 U	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 21:55	1
1,2-Dibromoethane	ug/L	0.0055 U	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 21:55	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	105 %	Limits	85-123				

Inorganics

Ammonia as N	mg/L	0.29 I	EPA 350.1	0.40	0.095		02/26/15 14:32	10
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Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-3 21595**
 Matrix **Groundwater**
 SAL Sample Number **1501766-04**
 Date/Time Collected **02/24/15 09:52**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloride	mg/L	9.5	EPA 300.0	0.20	0.050		02/25/15 18:52	1
Nitrate (as N)	mg/L	0.09	EPA 300.0	0.04	0.01		02/25/15 18:52	1
Total Dissolved Solids	mg/L	380	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:15	1
Arsenic	ug/L	1.9 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 18:35	1
Barium	ug/L	8.4	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 18:35	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:05	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 18:35	1
Chromium	ug/L	0.54 I	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 18:35	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:05	1
Copper	ug/L	0.88	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 18:35	1
Iron	ug/L	2,100	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:05	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 18:35	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:40	1
Nickel	ug/L	4.6 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 18:35	1
Selenium	ug/L	2.5 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:15	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:05	1
Sodium	mg/L	13	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:05	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 18:35	1
Vanadium	ug/L	12	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:05	1
Zinc	ug/L	1.8 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 18:35	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-4 21596**
 Matrix **Groundwater**
 SAL Sample Number **1501766-05**
 Date/Time Collected **02/24/15 09:54**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/24/15 09:54	1
Dissolved Oxygen	mg/L	0.5	DEP FT1500	0.1	0.1		02/24/15 09:54	1
pH	SU	6.2	DEP FT1100	0.1	0.1		02/24/15 09:54	1
Specific conductance	umhos/cm	402	DEP FT1200	0.1	0.1		02/24/15 09:54	1
Turbidity	NTU	9.3	DEP FT1600	0.01	0.01		02/24/15 09:54	1
Water Elevation	ft., NGVD	33.18	DEP FS2211	0.01	0.01		02/24/15 09:54	1
Water Temperature	°C	20.7	DEP FT1400	0.1	0.1		02/24/15 09:54	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 03:09	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 03:09	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 03:09	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 03:09	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 03:09	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 03:09	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 03:09	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 03:09	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 03:09	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 03:09	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 03:09	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 03:09	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 03:09	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 03:09	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-4 21596**
 Matrix **Groundwater**
 SAL Sample Number **1501766-05**
 Date/Time Collected **02/24/15 09:54**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 03:09	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 03:09	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:09	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 03:09	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 03:09	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:09	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 03:09	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:09	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 03:09	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 03:09	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 03:09	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 03:09	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:09	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:09	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	96 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	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	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 22:17	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 22:17	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	105 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.74	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	15	EPA 300.0	0.20	0.050		02/25/15 19:04	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-4 21596**
 Matrix **Groundwater**
 SAL Sample Number **1501766-05**
 Date/Time Collected **02/24/15 09:54**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.11	EPA 300.0	0.04	0.01		02/25/15 19:04	1
Total Dissolved Solids	mg/L	230	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:18	1
Arsenic	ug/L	1.9 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 18:58	1
Barium	ug/L	9.5	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 18:58	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:09	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 18:58	1
Chromium	ug/L	1.2 I	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 18:58	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:09	1
Copper	ug/L	1.4	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 18:58	1
Iron	ug/L	3,400	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:09	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 18:58	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:42	1
Nickel	ug/L	2.4 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 18:58	1
Selenium	ug/L	2.9 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:18	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:09	1
Sodium	mg/L	7.6	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:09	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 18:58	1
Vanadium	ug/L	10	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:09	1
Zinc	ug/L	24	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 18:58	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-5 21597**
 Matrix **Groundwater**
 SAL Sample Number **1501766-06**
 Date/Time Collected **02/24/15 10:30**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Tannic Large	DEP SOPs				02/24/15 10:30	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		02/24/15 10:30	1
pH	SU	6.2	DEP FT1100	0.1	0.1		02/24/15 10:30	1
Specific conductance	umhos/cm	792	DEP FT1200	0.1	0.1		02/24/15 10:30	1
Turbidity	NTU	11	DEP FT1600	0.01	0.01		02/24/15 10:30	1
Water Elevation	ft., NGVD	32.48	DEP FS2211	0.01	0.01		02/24/15 10:30	1
Water Temperature	°C	22.2	DEP FT1400	0.1	0.1		02/24/15 10:30	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 03:41	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 03:41	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 03:41	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/06/15 03:41	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 03:41	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/06/15 03:41	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 03:41	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-5 21597**
 Matrix **Groundwater**
 SAL Sample Number **1501766-06**
 Date/Time Collected **02/24/15 10:30**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 03:41	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 03:41	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 03:41	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 03:41	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 03:41	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 03:41	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 03:41	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 03:41	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 03:41	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 03:41	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 03:41	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 03:41	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	101 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	101 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	103 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 23:23	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/27/15 23:23	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	109 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	1.3	EPA 350.1	0.40	0.095		02/26/15 14:32	10
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Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-5 21597**
 Matrix **Groundwater**
 SAL Sample Number **1501766-06**
 Date/Time Collected **02/24/15 10:30**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloride	mg/L	24	EPA 300.0	0.20	0.050		02/25/15 19:15	1
Nitrate (as N)	mg/L	0.49	EPA 300.0	0.04	0.01		02/25/15 19:15	1
Total Dissolved Solids	mg/L	480	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:26	1
Arsenic	ug/L	6.0	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:03	1
Barium	ug/L	17	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:03	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:12	1
Cadmium	ug/L	0.52	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:03	1
Chromium	ug/L	0.58 I	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:03	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:12	1
Copper	ug/L	1.2	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:03	1
Iron	ug/L	15,000	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:12	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:03	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:43	1
Nickel	ug/L	4.5 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:03	1
Selenium	ug/L	9.3 U	EPA 6020	50	9.3	03/09/15 12:29	03/10/15 10:03	10
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:12	1
Sodium	mg/L	28	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:12	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:03	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:12	1
Zinc	ug/L	2.9 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:03	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-6 21598**
 Matrix **Groundwater**
 SAL Sample Number **1501766-07**
 Date/Time Collected **02/24/15 10:34**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/24/15 10:34	1
Dissolved Oxygen	mg/L	0.3	DEP FT1500	0.1	0.1		02/24/15 10:34	1
pH	SU	6.5	DEP FT1100	0.1	0.1		02/24/15 10:34	1
Specific conductance	umhos/cm	1,518	DEP FT1200	0.1	0.1		02/24/15 10:34	1
Turbidity	NTU	3.6	DEP FT1600	0.01	0.01		02/24/15 10:34	1
Water Elevation	ft., NGVD	31.00	DEP FS2211	0.01	0.01		02/24/15 10:34	1
Water Temperature	°C	21.3	DEP FT1400	0.1	0.1		02/24/15 10:34	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 04:12	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 04:12	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 04:12	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 04:12	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 04:12	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 04:12	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 04:12	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 04:12	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 04:12	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 04:12	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 04:12	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 04:12	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 04:12	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 04:12	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-6 21598**
 Matrix **Groundwater**
 SAL Sample Number **1501766-07**
 Date/Time Collected **02/24/15 10:34**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 04:12	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 04:12	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:12	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 04:12	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 04:12	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:12	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 04:12	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:12	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 04:12	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 04:12	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 04:12	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 04:12	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:12	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:12	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	105 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	100 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/27/15 23:45	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/27/15 23:45	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	108 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	2.4	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	4.6	EPA 300.0	0.20	0.050		02/25/15 19:26	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-6 21598**
 Matrix **Groundwater**
 SAL Sample Number **1501766-07**
 Date/Time Collected **02/24/15 10:34**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01		02/25/15 19:26	1
Total Dissolved Solids	mg/L	1,000	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:29	1
Arsenic	ug/L	4.2 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:08	1
Barium	ug/L	21	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:08	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:15	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:08	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:08	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:15	1
Copper	ug/L	1.8	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:08	1
Iron	ug/L	3,200	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:15	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:08	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:45	1
Nickel	ug/L	9.9	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:08	1
Selenium	ug/L	5.1	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:29	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:15	1
Sodium	mg/L	6.2	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:15	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:08	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:15	1
Zinc	ug/L	2.3 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:08	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-7 21599**
 Matrix **Groundwater**
 SAL Sample Number **1501766-08**
 Date/Time Collected **02/24/15 11:31**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Large Particles	DEP SOPs				02/24/15 11:31	1
Dissolved Oxygen	mg/L	0.5	DEP FT1500	0.1	0.1		02/24/15 11:31	1
pH	SU	6.5	DEP FT1100	0.1	0.1		02/24/15 11:31	1
Specific conductance	umhos/cm	586	DEP FT1200	0.1	0.1		02/24/15 11:31	1
Turbidity	NTU	7.1	DEP FT1600	0.01	0.01		02/24/15 11:31	1
Water Elevation	ft., NGVD	31.08	DEP FS2211	0.01	0.01		02/24/15 11:31	1
Water Temperature	°C	21.2	DEP FT1400	0.1	0.1		02/24/15 11:31	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 04:44	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 04:44	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 04:44	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/06/15 04:44	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 04:44	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/06/15 04:44	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 04:44	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-7 21599**
 Matrix **Groundwater**
 SAL Sample Number **1501766-08**
 Date/Time Collected **02/24/15 11:31**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 04:44	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 04:44	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 04:44	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 04:44	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 04:44	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 04:44	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 04:44	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 04:44	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 04:44	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 04:44	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 04:44	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 04:44	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	96 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	98 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/28/15 00:07	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/28/15 00:07	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	111 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.53	EPA 350.1	0.40	0.095		02/26/15 14:32	10
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Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-7 21599**
 Matrix **Groundwater**
 SAL Sample Number **1501766-08**
 Date/Time Collected **02/24/15 11:31**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloride	mg/L	21	EPA 300.0	0.20	0.050		02/25/15 19:37	1
Nitrate (as N)	mg/L	0.20	EPA 300.0	0.04	0.01		02/25/15 19:37	1
Total Dissolved Solids	mg/L	350	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:32	1
Arsenic	ug/L	2.9 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:12	1
Barium	ug/L	7.6	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:12	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:21	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:12	1
Chromium	ug/L	0.55 I	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:12	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:21	1
Copper	ug/L	1.3	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:12	1
Iron	ug/L	320	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:21	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:12	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:46	1
Nickel	ug/L	3.9 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:12	1
Selenium	ug/L	9.3 U	EPA 6020	50	9.3	03/09/15 12:29	03/10/15 10:05	10
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:21	1
Sodium	mg/L	21	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:21	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:12	1
Vanadium	ug/L	9.3 I	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:21	1
Zinc	ug/L	2.6 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:12	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-8 21600**
 Matrix **Groundwater**
 SAL Sample Number **1501766-09**
 Date/Time Collected **02/24/15 11:32**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/24/15 11:32	1
Dissolved Oxygen	mg/L	0.3	DEP FT1500	0.1	0.1		02/24/15 11:32	1
pH	SU	6.6	DEP FT1100	0.1	0.1		02/24/15 11:32	1
Specific conductance	umhos/cm	525	DEP FT1200	0.1	0.1		02/24/15 11:32	1
Turbidity	NTU	5.5	DEP FT1600	0.01	0.01		02/24/15 11:32	1
Water Elevation	ft., NGVD	29.95	DEP FS2211	0.01	0.01		02/24/15 11:32	1
Water Temperature	°C	21.9	DEP FT1400	0.1	0.1		02/24/15 11:32	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 17:59	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 17:59	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 17:59	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 17:59	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 17:59	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 17:59	1
Acetone	ug/L	2.0 U,J3	EPA 8260	4.0	2.0		03/06/15 17:59	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 17:59	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 17:59	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 17:59	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 17:59	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 17:59	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 17:59	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 17:59	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-8 21600**
 Matrix **Groundwater**
 SAL Sample Number **1501766-09**
 Date/Time Collected **02/24/15 11:32**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 17:59	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 17:59	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 17:59	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 17:59	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 17:59	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 17:59	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 17:59	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 17:59	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 17:59	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 17:59	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 17:59	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 17:59	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 17:59	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 17:59	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	98 %	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	100 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/28/15 00:29	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/28/15 00:29	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	108 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.68	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	20	EPA 300.0	0.20	0.050		02/25/15 19:49	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-8 21600**
 Matrix **Groundwater**
 SAL Sample Number **1501766-09**
 Date/Time Collected **02/24/15 11:32**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01		02/25/15 19:49	1
Total Dissolved Solids	mg/L	240	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:35	1
Arsenic	ug/L	2.3 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:17	1
Barium	ug/L	11	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:17	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:24	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:17	1
Chromium	ug/L	0.55 I	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:17	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:24	1
Copper	ug/L	0.59	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:17	1
Iron	ug/L	57 I	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:24	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:17	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:47	1
Nickel	ug/L	3.6 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:17	1
Selenium	ug/L	1.1 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:35	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:24	1
Sodium	mg/L	16	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:24	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:17	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:24	1
Zinc	ug/L	4.5 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:17	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-9 21601**
 Matrix **Groundwater**
 SAL Sample Number **1501766-10**
 Date/Time Collected **02/24/15 11:58**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Large Particles	DEP SOPs				02/24/15 11:58	1
Dissolved Oxygen	mg/L	0.3	DEP FT1500	0.1	0.1		02/24/15 11:58	1
pH	SU	6.7	DEP FT1100	0.1	0.1		02/24/15 11:58	1
Specific conductance	umhos/cm	427	DEP FT1200	0.1	0.1		02/24/15 11:58	1
Turbidity	NTU	5.4	DEP FT1600	0.01	0.01		02/24/15 11:58	1
Water Elevation	ft., NGVD	29.03	DEP FS2211	0.01	0.01		02/24/15 11:58	1
Water Temperature	°C	22.8	DEP FT1400	0.1	0.1		02/24/15 11:58	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 18:30	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 18:30	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 18:30	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 18:30	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 18:30	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 18:30	1
Acetone	ug/L	7.9 J3	EPA 8260	4.0	2.0		03/06/15 18:30	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 18:30	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 18:30	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 18:30	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 18:30	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 18:30	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 18:30	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-9 21601**
 Matrix **Groundwater**
 SAL Sample Number **1501766-10**
 Date/Time Collected **02/24/15 11:58**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 18:30	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 18:30	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 18:30	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 18:30	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 18:30	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 18:30	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 18:30	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 18:30	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 18:30	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 18:30	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 18:30	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 18:30	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 18:30	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 18:30	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 18:30	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	100 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	102 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/28/15 00:51	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/28/15 00:51	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	105 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	1.2	EPA 350.1	0.40	0.095		02/26/15 14:32	10
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Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-9 21601**
 Matrix **Groundwater**
 SAL Sample Number **1501766-10**
 Date/Time Collected **02/24/15 11:58**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloride	mg/L	7.7	EPA 300.0	0.20	0.050		02/25/15 20:00	1
Nitrate (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01		02/25/15 20:00	1
Total Dissolved Solids	mg/L	220	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:42	1
Arsenic	ug/L	7.3	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:21	1
Barium	ug/L	11	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:21	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:28	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:21	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:21	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:28	1
Copper	ug/L	0.38 I	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:21	1
Iron	ug/L	1,700	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:28	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:21	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:53	1
Nickel	ug/L	3.0 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:21	1
Selenium	ug/L	0.93 U	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:42	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:28	1
Sodium	mg/L	8.5	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:28	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:21	1
Vanadium	ug/L	12	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:28	1
Zinc	ug/L	2.5 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:21	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name		LENA RD COUNTY LF						
Sample Description		GW-10 21602						
Matrix		Groundwater						
SAL Sample Number		1501766-11						
Date/Time Collected		02/24/15 12:06						
Collected by		Eric Glass						
Date/Time Received		02/24/15 18:35						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/24/15 12:06	1
Dissolved Oxygen	mg/L	1.4	DEP FT1500	0.1	0.1		02/24/15 12:06	1
pH	SU	6.6	DEP FT1100	0.1	0.1		02/24/15 12:06	1
Specific conductance	umhos/cm	793	DEP FT1200	0.1	0.1		02/24/15 12:06	1
Turbidity	NTU	4.8	DEP FT1600	0.01	0.01		02/24/15 12:06	1
Water Elevation	ft., NGVD	30.54	DEP FS2211	0.01	0.01		02/24/15 12:06	1
Water Temperature	°C	23.0	DEP FT1400	0.1	0.1		02/24/15 12:06	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 19:33	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 19:33	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 19:33	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 19:33	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 19:33	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 19:33	1
Acetone	ug/L	4.9 J3	EPA 8260	4.0	2.0		03/06/15 19:33	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 19:33	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 19:33	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 19:33	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 19:33	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 19:33	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 19:33	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 19:33	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-10 21602**
 Matrix **Groundwater**
 SAL Sample Number **1501766-11**
 Date/Time Collected **02/24/15 12:06**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 19:33	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 19:33	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 19:33	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 19:33	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 19:33	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 19:33	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 19:33	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 19:33	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 19:33	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 19:33	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 19:33	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 19:33	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 19:33	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 19:33	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	99 %	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	102 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/28/15 01:13	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/28/15 01:13	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	100 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	4.1	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	2.9	EPA 300.0	0.20	0.050		02/25/15 20:11	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-10 21602**
 Matrix **Groundwater**
 SAL Sample Number **1501766-11**
 Date/Time Collected **02/24/15 12:06**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.05	EPA 300.0	0.04	0.01		02/25/15 20:11	1
Total Dissolved Solids	mg/L	370	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:45	1
Arsenic	ug/L	25	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:26	1
Barium	ug/L	17	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:26	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:31	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:26	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:26	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:31	1
Copper	ug/L	0.81	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:26	1
Iron	ug/L	14,000	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:31	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:26	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:54	1
Nickel	ug/L	4.2 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:26	1
Selenium	ug/L	1.0 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:45	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:31	1
Sodium	mg/L	3.6	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:31	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:26	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:31	1
Zinc	ug/L	2.9 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:26	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-11 21603**
 Matrix **Groundwater**
 SAL Sample Number **1501766-12**
 Date/Time Collected **02/25/15 08:49**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/25/15 08:49	1
Dissolved Oxygen	mg/L	0.7	DEP FT1500	0.1	0.1		02/25/15 08:49	1
pH	SU	6.4	DEP FT1100	0.1	0.1		02/25/15 08:49	1
Specific conductance	umhos/cm	604	DEP FT1200	0.1	0.1		02/25/15 08:49	1
Turbidity	NTU	2.2	DEP FT1600	0.01	0.01		02/25/15 08:49	1
Water Elevation	ft., NGVD	31.64	DEP FS2211	0.01	0.01		02/25/15 08:49	1
Water Temperature	°C	19.0	DEP FT1400	0.1	0.1		02/25/15 08:49	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 20:05	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 20:05	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 20:05	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 20:05	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 20:05	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 20:05	1
Acetone	ug/L	2.0 U,J3	EPA 8260	4.0	2.0		03/06/15 20:05	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 20:05	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 20:05	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 20:05	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 20:05	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 20:05	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 20:05	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 20:05	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-11 21603**
 Matrix **Groundwater**
 SAL Sample Number **1501766-12**
 Date/Time Collected **02/25/15 08:49**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 20:05	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 20:05	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 20:05	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 20:05	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 20:05	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 20:05	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 20:05	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 20:05	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 20:05	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 20:05	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 20:05	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 20:05	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 20:05	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 20:05	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	99 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	100 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	104 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/28/15 01:35	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/28/15 01:35	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	107 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.14 i	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	32	EPA 300.0	0.20	0.050		02/26/15 13:11	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-11 21603**
 Matrix **Groundwater**
 SAL Sample Number **1501766-12**
 Date/Time Collected **02/25/15 08:49**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01		02/26/15 13:11	1
Total Dissolved Solids	mg/L	390	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:48	1
Arsenic	ug/L	5.4	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:30	1
Barium	ug/L	10	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:30	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:50	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:30	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:30	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:50	1
Copper	ug/L	0.52	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:30	1
Iron	ug/L	2,700	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:50	1
Lead	ug/L	0.96	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:30	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 11:59	1
Nickel	ug/L	3.5 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:30	1
Selenium	ug/L	1.3 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:48	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:50	1
Sodium	mg/L	27	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:50	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:30	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:50	1
Zinc	ug/L	1.1 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:30	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-12 21604**
 Matrix **Groundwater**
 SAL Sample Number **1501766-13**
 Date/Time Collected **02/25/15 09:36**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/25/15 09:36	1
Dissolved Oxygen	mg/L	0.4	DEP FT1500	0.1	0.1		02/25/15 09:36	1
pH	SU	6.5	DEP FT1100	0.1	0.1		02/25/15 09:36	1
Specific conductance	umhos/cm	778	DEP FT1200	0.1	0.1		02/25/15 09:36	1
Turbidity	NTU	2.0	DEP FT1600	0.01	0.01		02/25/15 09:36	1
Water Elevation	ft., NGVD	30.96	DEP FS2211	0.01	0.01		02/25/15 09:36	1
Water Temperature	°C	22.3	DEP FT1400	0.1	0.1		02/25/15 09:36	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 02:53	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 02:53	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 02:53	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 02:53	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/07/15 02:53	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/07/15 02:53	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 02:53	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/07/15 02:53	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 02:53	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 02:53	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 02:53	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 02:53	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 02:53	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/07/15 02:53	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-12 21604**
 Matrix **Groundwater**
 SAL Sample Number **1501766-13**
 Date/Time Collected **02/25/15 09:36**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 02:53	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 02:53	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 02:53	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 02:53	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 02:53	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 02:53	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 02:53	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 02:53	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 02:53	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 02:53	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 02:53	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 02:53	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 02:53	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 02:53	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	98 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/28/15 01:57	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	02/27/15 14:24	02/28/15 01:57	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	105 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.095 u	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	5.3	EPA 300.0	0.20	0.050		02/26/15 13:23	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-12 21604**
 Matrix **Groundwater**
 SAL Sample Number **1501766-13**
 Date/Time Collected **02/25/15 09:36**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.42	EPA 300.0	0.04	0.01		02/26/15 13:23	1
Total Dissolved Solids	mg/L	400	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
Metals								
Antimony	ug/L	2.7 I	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:50	1
Arsenic	ug/L	2.7 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:54	1
Barium	ug/L	35	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:54	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:53	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:54	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:54	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:53	1
Copper	ug/L	2.1	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:54	1
Iron	ug/L	760	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:53	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:54	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 12:01	1
Nickel	ug/L	6.4	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:54	1
Selenium	ug/L	12 I	EPA 6020	50	9.3	03/09/15 12:29	03/10/15 10:08	10
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:53	1
Sodium	mg/L	6.6	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:53	1
Thallium	ug/L	0.28 I	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:54	1
Vanadium	ug/L	29	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:53	1
Zinc	ug/L	5.9	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:54	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-13 21605**
 Matrix **Groundwater**
 SAL Sample Number **1501766-14**
 Date/Time Collected **02/25/15 10:31**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/25/15 10:31	1
Dissolved Oxygen	mg/L	0.8	DEP FT1500	0.1	0.1		02/25/15 10:31	1
pH	SU	6.7	DEP FT1100	0.1	0.1		02/25/15 10:31	1
Specific conductance	umhos/cm	1,180	DEP FT1200	0.1	0.1		02/25/15 10:31	1
Turbidity	NTU	9.4	DEP FT1600	0.01	0.01		02/25/15 10:31	1
Water Elevation	ft., NGVD	30.56	DEP FS2211	0.01	0.01		02/25/15 10:31	1
Water Temperature	°C	22.5	DEP FT1400	0.1	0.1		02/25/15 10:31	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 03:25	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 03:25	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 03:25	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 03:25	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/07/15 03:25	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/07/15 03:25	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 03:25	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/07/15 03:25	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 03:25	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 03:25	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 03:25	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 03:25	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 03:25	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/07/15 03:25	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-13 21605**
 Matrix **Groundwater**
 SAL Sample Number **1501766-14**
 Date/Time Collected **02/25/15 10:31**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 03:25	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 03:25	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 03:25	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 03:25	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 03:25	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 03:25	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 03:25	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 03:25	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 03:25	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 03:25	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 03:25	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 03:25	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 03:25	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 03:25	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	102 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/28/15 02:19	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/28/15 02:19	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	107 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	2.5	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	16	EPA 300.0	0.20	0.050		02/26/15 13:34	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-13 21605**
 Matrix **Groundwater**
 SAL Sample Number **1501766-14**
 Date/Time Collected **02/25/15 10:31**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.08	EPA 300.0	0.04	0.01		02/26/15 13:34	1
Total Dissolved Solids	mg/L	550	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:53	1
Arsenic	ug/L	1.5 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 19:58	1
Barium	ug/L	26	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 19:58	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 19:57	1
Cadmium	ug/L	0.36 I	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 19:58	1
Chromium	ug/L	0.44 I	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 19:58	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 19:57	1
Copper	ug/L	1.6	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 19:58	1
Iron	ug/L	1,700	EPA 6010	100	20	02/26/15 12:12	03/06/15 19:57	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 19:58	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 12:02	1
Nickel	ug/L	7.2	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 19:58	1
Selenium	ug/L	5.4	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:53	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 19:57	1
Sodium	mg/L	20	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 19:57	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 19:58	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 19:57	1
Zinc	ug/L	4.3 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 19:58	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-14 21606**
 Matrix **Groundwater**
 SAL Sample Number **1501766-15**
 Date/Time Collected **02/25/15 11:13**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/25/15 11:13	1
Dissolved Oxygen	mg/L	7.0	DEP FT1500	0.1	0.1		02/25/15 11:13	1
pH	SU	7.1	DEP FT1100	0.1	0.1		02/25/15 11:13	1
Specific conductance	umhos/cm	703	DEP FT1200	0.1	0.1		02/25/15 11:13	1
Turbidity	NTU	2.4	DEP FT1600	0.01	0.01		02/25/15 11:13	1
Water Elevation	ft., NGVD	34.63	DEP FS2211	0.01	0.01		02/25/15 11:13	1
Water Temperature	°C	19.3	DEP FT1400	0.1	0.1		02/25/15 11:13	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 04:28	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:28	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:28	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 04:28	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/07/15 04:28	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/07/15 04:28	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 04:28	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/07/15 04:28	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:28	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:28	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 04:28	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:28	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:28	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/07/15 04:28	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-14 21606**
 Matrix **Groundwater**
 SAL Sample Number **1501766-15**
 Date/Time Collected **02/25/15 11:13**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 04:28	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 04:28	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 04:28	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 04:28	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 04:28	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 04:28	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 04:28	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 04:28	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 04:28	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 04:28	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 04:28	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 04:28	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:28	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 04:28	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	100 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	98 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	100 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	100 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	02/27/15 14:24	02/28/15 02:41	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	02/27/15 14:24	02/28/15 02:41	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	110 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.48	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	3.5	EPA 300.0	0.20	0.050		02/26/15 13:46	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-14 21606**
 Matrix **Groundwater**
 SAL Sample Number **1501766-15**
 Date/Time Collected **02/25/15 11:13**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.01 u	EPA 300.0	0.04	0.01		02/26/15 13:46	1
Total Dissolved Solids	mg/L	330	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
Metals								
Antimony	ug/L	1.0 u	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 14:56	1
Arsenic	ug/L	0.93 u	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 20:03	1
Barium	ug/L	17	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 20:03	1
Beryllium	ug/L	0.096 u	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 20:00	1
Cadmium	ug/L	0.27 u	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 20:03	1
Chromium	ug/L	0.35 u	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 20:03	1
Cobalt	ug/L	10 u	EPA 6010	100	10	02/26/15 12:12	03/06/15 20:00	1
Copper	ug/L	0.58	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 20:03	1
Iron	ug/L	4,400	EPA 6010	100	20	02/26/15 12:12	03/06/15 20:00	1
Lead	ug/L	0.25 u	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 20:03	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 12:04	1
Nickel	ug/L	5.4	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 20:03	1
Selenium	ug/L	0.93 u	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 14:56	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 20:00	1
Sodium	mg/L	5.4	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 20:00	1
Thallium	ug/L	0.24 u	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 20:03	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 20:00	1
Zinc	ug/L	0.92 u	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 20:03	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-15 21607**
 Matrix **Groundwater**
 SAL Sample Number **1501766-16**
 Date/Time Collected **02/25/15 12:55**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/25/15 12:55	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		02/25/15 12:55	1
pH	SU	6.3	DEP FT1100	0.1	0.1		02/25/15 12:55	1
Specific conductance	umhos/cm	684	DEP FT1200	0.1	0.1		02/25/15 12:55	1
Turbidity	NTU	2.2	DEP FT1600	0.01	0.01		02/25/15 12:55	1
Water Elevation	ft., NGVD	34.99	DEP FS2211	0.01	0.01		02/25/15 12:55	1
Water Temperature	°C	21.9	DEP FT1400	0.1	0.1		02/25/15 12:55	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 04:59	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:59	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:59	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 04:59	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/07/15 04:59	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/07/15 04:59	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 04:59	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/07/15 04:59	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:59	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:59	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 04:59	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 04:59	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 04:59	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/07/15 04:59	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **GW-15 21607**
 Matrix **Groundwater**
 SAL Sample Number **1501766-16**
 Date/Time Collected **02/25/15 12:55**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 04:59	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 04:59	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 04:59	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 04:59	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 04:59	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 04:59	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 04:59	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 04:59	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 04:59	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 04:59	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 04:59	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 04:59	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 04:59	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 04:59	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	96 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	02/27/15 14:24	02/28/15 04:09	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	02/27/15 14:24	02/28/15 04:09	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	105 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.94	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	50	EPA 300.0	0.20	0.050		02/26/15 13:57	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name	LENA RD COUNTY LF
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Sample Description	GW-15 21607
Matrix	Groundwater
SAL Sample Number	1501766-16
Date/Time Collected	02/25/15 12:55
Collected by	Eric Glass
Date/Time Received	02/26/15 09:10

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.05	EPA 300.0	0.04	0.01		02/26/15 13:57	1
Total Dissolved Solids	mg/L	360	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1

Metals

Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 15:04	1
Arsenic	ug/L	9.2	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 20:07	1
Barium	ug/L	50	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 20:07	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 20:04	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 20:07	1
Chromium	ug/L	2.7 I	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 20:07	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 20:04	1
Copper	ug/L	0.31 I	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 20:07	1
Iron	ug/L	17,000	EPA 6010	100	20	02/26/15 12:12	03/06/15 20:04	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 20:07	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/09/15 10:54	03/11/15 12:05	1
Nickel	ug/L	2.7 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 20:07	1
Selenium	ug/L	2.0 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 15:04	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 20:04	1
Sodium	mg/L	40	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 20:04	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 20:07	1
Vanadium	ug/L	14	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 20:04	1
Zinc	ug/L	0.95 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 20:07	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-16 21608**
 Matrix **Groundwater**
 SAL Sample Number **1501766-17**
 Date/Time Collected **02/25/15 13:36**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/25/15 13:36	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		02/25/15 13:36	1
pH	SU	6.4	DEP FT1100	0.1	0.1		02/25/15 13:36	1
Specific conductance	umhos/cm	668	DEP FT1200	0.1	0.1		02/25/15 13:36	1
Turbidity	NTU	3.7	DEP FT1600	0.01	0.01		02/25/15 13:36	1
Water Elevation	ft., NGVD	35.09	DEP FS2211	0.01	0.01		02/25/15 13:36	1
Water Temperature	°C	23.1	DEP FT1400	0.1	0.1		02/25/15 13:36	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 05:30	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 05:30	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 05:30	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 05:30	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/07/15 05:30	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/07/15 05:30	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 05:30	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/07/15 05:30	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 05:30	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 05:30	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 05:30	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 05:30	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 05:30	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/07/15 05:30	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-16 21608**
 Matrix **Groundwater**
 SAL Sample Number **1501766-17**
 Date/Time Collected **02/25/15 13:36**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 05:30	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 05:30	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 05:30	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 05:30	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 05:30	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 05:30	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 05:30	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 05:30	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 05:30	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 05:30	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 05:30	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 05:30	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 05:30	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 05:30	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	97 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	101 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	102 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/28/15 04:31	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	02/27/15 14:24	02/28/15 04:31	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	108 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.92	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	66	EPA 300.0	0.20	0.050		02/26/15 14:08	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-16 21608**
 Matrix **Groundwater**
 SAL Sample Number **1501766-17**
 Date/Time Collected **02/25/15 13:36**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01		02/26/15 14:08	1
Total Dissolved Solids	mg/L	260	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 15:07	1
Arsenic	ug/L	2.5 I	EPA 6020	5.0	0.93	02/26/15 12:53	03/06/15 20:12	1
Barium	ug/L	22	EPA 6020	0.50	0.18	02/26/15 12:53	03/06/15 20:12	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:12	03/06/15 20:07	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:53	03/06/15 20:12	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:53	03/06/15 20:12	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:12	03/06/15 20:07	1
Copper	ug/L	0.37 I	EPA 6020	0.50	0.13	02/26/15 12:53	03/06/15 20:12	1
Iron	ug/L	310	EPA 6010	100	20	02/26/15 12:12	03/06/15 20:07	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:53	03/06/15 20:12	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:07	1
Nickel	ug/L	2.7 I	EPA 6020	5.0	0.46	02/26/15 12:53	03/06/15 20:12	1
Selenium	ug/L	1.3 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 15:07	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:12	03/06/15 20:07	1
Sodium	mg/L	74	EPA 6010	0.50	0.13	02/26/15 12:12	03/06/15 20:07	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:53	03/06/15 20:12	1
Vanadium	ug/L	8.7 I	EPA 6010	10	7.8	02/26/15 12:12	03/06/15 20:07	1
Zinc	ug/L	4.3 I	EPA 6020	5.0	0.88	02/26/15 12:53	03/06/15 20:12	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-17 21609**
 Matrix **Groundwater**
 SAL Sample Number **1501766-18**
 Date/Time Collected **02/25/15 14:17**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/25/15 14:17	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		02/25/15 14:17	1
pH	SU	5.3	DEP FT1100	0.1	0.1		02/25/15 14:17	1
Specific conductance	umhos/cm	104	DEP FT1200	0.1	0.1		02/25/15 14:17	1
Turbidity	NTU	9.8	DEP FT1600	0.01	0.01		02/25/15 14:17	1
Water Elevation	ft., NGVD	34.29	DEP FS2211	0.01	0.01		02/25/15 14:17	1
Water Temperature	°C	23.5	DEP FT1400	0.1	0.1		02/25/15 14:17	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 06:02	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 06:02	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 06:02	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 06:02	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/07/15 06:02	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/07/15 06:02	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/07/15 06:02	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/07/15 06:02	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 06:02	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 06:02	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/07/15 06:02	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/07/15 06:02	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/07/15 06:02	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/07/15 06:02	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-17 21609**
 Matrix **Groundwater**
 SAL Sample Number **1501766-18**
 Date/Time Collected **02/25/15 14:17**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 06:02	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 06:02	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:02	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 06:02	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 06:02	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:02	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 06:02	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:02	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 06:02	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 06:02	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 06:02	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 06:02	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:02	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:02	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	97 %	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	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	02/27/15 14:24	02/28/15 04:53	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	02/27/15 14:24	02/28/15 04:53	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	101 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	1.3	EPA 350.1	0.40	0.095		02/26/15 14:32	10
Chloride	mg/L	3.0	EPA 300.0	0.20	0.050		02/26/15 14:19	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-17 21609**
 Matrix **Groundwater**
 SAL Sample Number **1501766-18**
 Date/Time Collected **02/25/15 14:17**
 Collected by **Eric Glass**
 Date/Time Received **02/26/15 09:10**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.05	EPA 300.0	0.04	0.01		02/26/15 14:19	1
Total Dissolved Solids	mg/L	89	SM 2540C	10	10	02/26/15 08:09	02/27/15 14:29	1
<u>Metals</u>								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 15:14	1
Arsenic	ug/L	1.1 I	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 20:16	1
Barium	ug/L	5.3	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 20:16	1
Beryllium	ug/L	0.34 I	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 20:11	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 20:16	1
Chromium	ug/L	6.6	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 20:16	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:17	03/06/15 20:11	1
Copper	ug/L	0.52	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 20:16	1
Iron	ug/L	7,100	EPA 6010	100	20	02/26/15 12:17	03/06/15 20:11	1
Lead	ug/L	0.32 I	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 20:16	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:11	1
Nickel	ug/L	0.76 I	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 20:16	1
Selenium	ug/L	2.1 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 15:14	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:17	03/06/15 20:11	1
Sodium	mg/L	3.7	EPA 6010	0.50	0.13	02/26/15 12:17	03/06/15 20:11	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 20:16	1
Vanadium	ug/L	35	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 20:11	1
Zinc	ug/L	1.2 I	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 20:16	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Duplicate GW-1 21593
Matrix	Groundwater
SAL Sample Number	1501766-19
Date/Time Collected	02/24/15 09:00
Collected by	Eric Glass
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Large Particles	DEP SOPs				02/24/15 09:00	1
Dissolved Oxygen	mg/L	0.4	DEP FT1500	0.1	0.1		02/24/15 09:00	1
pH	SU	6.3	DEP FT1100	0.1	0.1		02/24/15 09:00	1
Specific conductance	umhos/cm	786	DEP FT1200	0.1	0.1		02/24/15 09:00	1
Turbidity	NTU	3.7	DEP FT1600	0.01	0.01		02/24/15 09:00	1
Water Elevation	ft., NGVD	33.15	DEP FS2211	0.01	0.01		02/24/15 09:00	1
Water Temperature	°C	20.8	DEP FT1400	0.1	0.1		02/24/15 09:00	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/07/15 06:33	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/07/15 06:33	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/07/15 06:33	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/07/15 06:33	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/07/15 06:33	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/07/15 06:33	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/07/15 06:33	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Duplicate GW-1 21593**
 Matrix **Groundwater**
 SAL Sample Number **1501766-19**
 Date/Time Collected **02/24/15 09:00**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 06:33	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 06:33	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 06:33	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 06:33	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 06:33	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 06:33	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 06:33	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 06:33	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 06:33	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 06:33	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 06:33	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 06:33	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	99 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0057 u	EPA 8011	0.023	0.0057	02/27/15 14:24	02/28/15 05:15	1
1,2-Dibromoethane	ug/L	0.0057 u	EPA 8011	0.023	0.0057	02/27/15 14:24	02/28/15 05:15	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	100 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.41	EPA 350.1	0.40	0.095		02/26/15 14:32	10
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Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Duplicate GW-1 21593
Matrix	Groundwater
SAL Sample Number	1501766-19
Date/Time Collected	02/24/15 09:00
Collected by	Eric Glass
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloride	mg/L	42	EPA 300.0	0.20	0.050		02/25/15 21:08	1
Nitrate (as N)	mg/L	0.12	EPA 300.0	0.04	0.01		02/25/15 21:08	1
Total Dissolved Solids	mg/L	530	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
<u>Metals</u>								
Antimony	ug/L	1.7 I	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 15:17	1
Arsenic	ug/L	3.2 I	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 20:21	1
Barium	ug/L	23	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 20:21	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 20:32	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 20:21	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 20:21	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:17	03/06/15 20:32	1
Copper	ug/L	2.1	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 20:21	1
Iron	ug/L	710	EPA 6010	100	20	02/26/15 12:17	03/06/15 20:32	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 20:21	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:17	1
Nickel	ug/L	6.1	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 20:21	1
Selenium	ug/L	2.8 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 15:17	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:17	03/06/15 20:32	1
Sodium	mg/L	36	EPA 6010	0.50	0.13	02/26/15 12:17	03/06/15 20:32	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 20:21	1
Vanadium	ug/L	15	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 20:32	1
Zinc	ug/L	6.8	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 20:21	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank 1**
 Matrix **Reagent Water**
 SAL Sample Number **1501766-20**
 Date/Time Collected **02/24/15 08:41**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Clear	DEP SOPs				02/24/15 08:41	1
Dissolved Oxygen	mg/L	3.5	DEP FT1500	0.1	0.1		02/24/15 08:41	1
pH	SU	6.5	DEP FT1100	0.1	0.1		02/24/15 08:41	1
Specific conductance	umhos/cm	8	DEP FT1200	0.1	0.1		02/24/15 08:41	1
Turbidity	NTU	0.15	DEP FT1600	0.01	0.01		02/24/15 08:41	1
Water Temperature	°C	21.1	DEP FT1400	0.1	0.1		02/24/15 08:41	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 14:33	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 14:33	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 14:33	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		03/06/15 14:33	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 14:33	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		03/06/15 14:33	1
Acetone	ug/L	2.6 I,J3	EPA 8260	4.0	2.0		03/06/15 14:33	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		03/06/15 14:33	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 14:33	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 14:33	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 14:33	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 14:33	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 14:33	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 14:33	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank 1**
 Matrix **Reagent Water**
 SAL Sample Number **1501766-20**
 Date/Time Collected **02/24/15 08:41**
 Collected by **Eric Glass**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 14:33	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 14:33	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 14:33	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 14:33	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 14:33	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 14:33	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 14:33	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 14:33	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 14:33	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 14:33	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 14:33	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 14:33	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 14:33	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 14:33	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 14:33	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 14:33	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 14:33	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 14:33	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 14:33	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 14:33	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 14:33	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	99 %	Limits		65-135	Note:		Q
Surrogate for EPA 8260	Toluene-d8	102 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	02/27/15 14:24	02/28/15 05:37	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	02/27/15 14:24	02/28/15 05:37	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	102 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.009 u	EPA 350.1	0.040	0.009		02/26/15 14:32	1
Chloride	mg/L	0.050 u	EPA 300.0	0.20	0.050		02/25/15 21:19	1
Nitrate (as N)	mg/L	0.01 u	EPA 300.0	0.04	0.01		02/25/15 21:19	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Field Blank 1
 Matrix Reagent Water
 SAL Sample Number 1501766-20
 Date/Time Collected 02/24/15 08:41
 Collected by Eric Glass
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Total Dissolved Solids	mg/L	10 u	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
Metals								
Antimony	ug/L	1.0 u	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 15:20	1
Arsenic	ug/L	0.93 u	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 20:25	1
Barium	ug/L	0.18 u	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 20:25	1
Beryllium	ug/L	0.096 u	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 20:36	1
Cadmium	ug/L	0.27 u	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 20:25	1
Chromium	ug/L	0.35 u	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 20:25	1
Cobalt	ug/L	10 u	EPA 6010	100	10	02/26/15 12:17	03/06/15 20:36	1
Copper	ug/L	0.13 u	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 20:25	1
Iron	ug/L	20 u	EPA 6010	100	20	02/26/15 12:17	03/06/15 20:36	1
Lead	ug/L	0.25 u	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 20:25	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:18	1
Nickel	ug/L	0.46 u	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 20:25	1
Selenium	ug/L	0.93 u	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 15:20	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	02/26/15 12:17	03/06/15 20:36	1
Sodium	mg/L	0.13 u	EPA 6010	0.50	0.13	02/26/15 12:17	03/06/15 20:36	1
Thallium	ug/L	0.24 u	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 20:25	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 20:36	1
Zinc	ug/L	1.1 u	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 20:25	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Trip Blank 1
Matrix	Reagent Water
SAL Sample Number	1501766-21
Date/Time Collected	02/19/15 13:00
Collected by	Melissa McLaughlin
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Volatile Organic Compounds</u>								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
1,1,1-Trichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
1,1,2-Trichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
1,1-Dichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
1,1-Dichloroethene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
1,2,3-Trichloropropane	ug/L	0.4 U,Q	EPA 8260	0.8	0.4		03/06/15 15:05	1
1,2-Dichlorobenzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
1,2-Dichloroethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
1,2-Dichloropropane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
1,4-Dichlorobenzene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
2-Butanone	ug/L	2.0 U,Q	EPA 8260	4.0	2.0		03/06/15 15:05	1
2-Hexanone	ug/L	2.1 U,Q	EPA 8260	4.0	2.1		03/06/15 15:05	1
4-Methyl-2-pentanone	ug/L	2.6 U,Q	EPA 8260	4.0	2.6		03/06/15 15:05	1
Acetone	ug/L	2.0 U,J3,Q	EPA 8260	4.0	2.0		03/06/15 15:05	1
Acrylonitrile	ug/L	1.3 U,Q	EPA 8260	4.0	1.3		03/06/15 15:05	1
Benzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
Bromochloromethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
Bromodichloromethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Bromoform	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Bromomethane	ug/L	0.4 U,Q	EPA 8260	0.8	0.4		03/06/15 15:05	1
Carbon disulfide	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Carbon tetrachloride	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Chlorobenzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
Chloroethane	ug/L	0.4 U,Q	EPA 8260	1.6	0.4		03/06/15 15:05	1
Chloroform	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Chloromethane	ug/L	0.4 U,Q	EPA 8260	1.6	0.4		03/06/15 15:05	1
cis-1,2-Dichloroethene	ug/L	0.09 U,Q	EPA 8260	0.8	0.09		03/06/15 15:05	1
cis-1,3-Dichloropropene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Dibromochloromethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
Dibromomethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Ethylbenzene	ug/L	0.08 U,Q	EPA 8260	0.8	0.08		03/06/15 15:05	1
Iodomethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Trip Blank 1
Matrix	Reagent Water
SAL Sample Number	1501766-21
Date/Time Collected	02/19/15 13:00
Collected by	Melissa McLaughlin
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Styrene	ug/L	0.05 U,Q	EPA 8260	0.8	0.05		03/06/15 15:05	1
Tetrachloroethene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
Toluene	ug/L	0.09 U,Q	EPA 8260	0.8	0.09		03/06/15 15:05	1
trans-1,2-Dichloroethene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
trans-1,3-Dichloropropene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 U,Q	EPA 8260	0.8	0.3		03/06/15 15:05	1
Trichloroethene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Trichlorofluoromethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Vinyl acetate	ug/L	0.4 U,Q	EPA 8260	1.6	0.4		03/06/15 15:05	1
Vinyl chloride	ug/L	0.3 U,Q	EPA 8260	1.6	0.3		03/06/15 15:05	1
Xylene-m,p	ug/L	0.2 U,Q	EPA 8260	1.6	0.2		03/06/15 15:05	1
Xylene-o	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 15:05	1
Xylenes- Total	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 15:05	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	99 %	Limits	65-135	Note:			Q
Surrogate for EPA 8260	4-Bromofluorobenzene	100 %	Limits	65-135	Note:			Q
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits	65-135	Note:			Q
Surrogate for EPA 8260	Toluene-d8	100 %	Limits	65-135	Note:			Q

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name	LENA RD COUNTY LF
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Sample Description	STORMWATER OVERFLOW @ NORTH WEIR (SW1) 1663
Matrix	Surface Water
SAL Sample Number	1501766-22
Date/Time Collected	02/24/15 16:40
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Tannic	DEP SOPs			02/24/15 16:40	1
Dissolved Oxygen	mg/L	4.2	DEP FT1500	0.1	0.1	02/24/15 16:40	1
pH	SU	7.0	DEP FT1100	0.1	0.1	02/24/15 16:40	1
Specific conductance	umhos/cm	504	DEP FT1200	0.1	0.1	02/24/15 16:40	1
Turbidity	NTU	3.6	DEP FT1600	0.01	0.01	02/24/15 16:40	1
Water Temperature	°C	19.3	DEP FT1400	0.1	0.1	02/24/15 16:40	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4	03/07/15 07:05	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:05	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:05	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0	03/07/15 07:05	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1	03/07/15 07:05	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6	03/07/15 07:05	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0	03/07/15 07:05	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3	03/07/15 07:05	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:05	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:05	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4	03/07/15 07:05	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:05	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4	03/07/15 07:05	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:05	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name	LENA RD COUNTY LF
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Sample Description	STORMWATER OVERFLOW @ NORTH WEIR (SW1) 1663
Matrix	Surface Water
SAL Sample Number	1501766-22
Date/Time Collected	02/24/15 16:40
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 07:05	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 07:05	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:05	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 07:05	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:05	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 07:05	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:05	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:05	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 07:05	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 07:05	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 07:05	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:05	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 07:05	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 07:05	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:05	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:05	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 07:05	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 07:05	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 07:05	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:05	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 07:05	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	104 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	101 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	03/02/15 13:04	03/03/15 02:35	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	03/02/15 13:04	03/03/15 02:35	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	98 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.094	EPA 350.1	0.040	0.009		03/05/15 14:42	1
Ammonia-Unionized as NH3	mg/L	0.01 u	EPA 350.1	0.01	0.01		03/06/15 16:01	1
Biochemical Oxygen Demand	mg/L	6	SM 5210B	2	2	02/25/15 10:12	03/02/15 15:57	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name	LENA RD COUNTY LF
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Sample Description	STORMWATER OVERFLOW @ NORTH WEIR (SW1) 1663
Matrix	Surface Water
SAL Sample Number	1501766-22
Date/Time Collected	02/24/15 16:40
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chemical Oxygen Demand	mg/L	33	EPA 410.4	25	10	03/04/15 11:33	03/05/15 12:05	1
Chlorophyll a, Corrected	ug/L	0.50 U	SM 10200H	0.50	0.50	02/24/15 16:40	03/11/15 12:54	1
Nitrate (as N)	mg/L	0.40	EPA 300.0	0.04	0.01		02/25/15 21:30	1
Nitrite (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01		02/25/15 21:30	1
Phosphorous - Total as P	mg/L	0.54	SM 4500P-E	0.40	0.10	02/26/15 09:57	02/27/15 13:59	10
Total Dissolved Solids	mg/L	330	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
Total Hardness as CaCO3	mg/L	180	SM 2340B	3.3	0.19	02/26/15 12:17	03/06/15 20:39	1
Total Kjeldahl Nitrogen	mg/L	1.7	EPA 351.2	0.20	0.05	02/26/15 09:57	02/27/15 13:59	1
Total Nitrogen	mg/L	2.1	351.2+300.0	0.28	0.07	02/26/15 09:57	02/27/15 13:59	1
Total Organic Carbon	mg/L	16	SM 5310B	1.0	0.060		03/04/15 10:22	1
Total Suspended Solids	mg/L	2	SM 2540D	1	1	02/26/15 08:12	02/27/15 14:35	1

Metals

Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 15:23	1
Arsenic	ug/L	2.1 I	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 20:30	1
Barium	ug/L	12	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 20:30	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 20:39	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 20:30	1
Calcium	mg/L	47	EPA 200.7	0.50	0.042	02/26/15 12:17	03/06/15 20:39	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 20:30	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:17	03/06/15 20:39	1
Copper	ug/L	0.69	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 20:30	1
Iron	ug/L	870	EPA 6010	100	20	02/26/15 12:17	03/06/15 20:39	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 20:30	1
Magnesium	mg/L	15	EPA 200.7	0.50	0.020	02/26/15 12:17	03/06/15 20:39	1
Mercury	ug/L	0.0027	EPA 1631	0.00040	0.00020	03/03/15 14:55	03/05/15 08:53	1
Nickel	ug/L	2.2 I	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 20:30	1
Selenium	ug/L	1.6 I	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 15:23	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:17	03/06/15 20:39	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 20:30	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 20:39	1
Zinc	ug/L	3.3 I	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 20:30	1

Microbiology

Fecal Coliforms	CFU/100 ml	3,800	SM 9222D	1	1	02/24/15 19:00	02/25/15 17:00	1
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Manatee County Utilities Solid Waste Division**3333 Lena Rd****Bradenton, FL 34211****March 26, 2015****Work Order: 1501766****Laboratory Report****Project Name** **LENA RD COUNTY LF**

Sample Description **Field Blank for SW-1**
Matrix **Reagent Water**
SAL Sample Number **1501766-23**
Date/Time Collected **02/24/15 16:40**
Collected by **Ian Gerald**
Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Mercury	ug/L	0.0010	EPA 1631	0.00040	0.00020	03/03/15 14:55	03/05/15 08:53	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name	LENA RD COUNTY LF
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Sample Description	STORMWATER OVERFLOW @ SOUTH WEIR (SW-2) 1665
Matrix	Surface Water
SAL Sample Number	1501766-24
Date/Time Collected	02/24/15 16:00
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Tannic	DEP SOPs			02/24/15 16:00	1
Dissolved Oxygen	mg/L	0.4	DEP FT1500	0.1	0.1	02/24/15 16:00	1
pH	SU	6.6	DEP FT1100	0.1	0.1	02/24/15 16:00	1
Specific conductance	umhos/cm	681	DEP FT1200	0.1	0.1	02/24/15 16:00	1
Turbidity	NTU	12	DEP FT1600	0.01	0.01	02/24/15 16:00	1
Water Temperature	°C	18.0	DEP FT1400	0.1	0.1	02/24/15 16:00	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4	03/07/15 07:36	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:36	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:36	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0	03/07/15 07:36	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1	03/07/15 07:36	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6	03/07/15 07:36	1
Acetone	ug/L	2.2 u	EPA 8260	4.0	2.0	03/07/15 07:36	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3	03/07/15 07:36	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:36	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:36	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4	03/07/15 07:36	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1	03/07/15 07:36	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4	03/07/15 07:36	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2	03/07/15 07:36	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	STORMWATER OVERFLOW @ SOUTH WEIR (SW-2) 1665
Matrix	Surface Water
SAL Sample Number	1501766-24
Date/Time Collected	02/24/15 16:00
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 07:36	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 07:36	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:36	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 07:36	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:36	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 07:36	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:36	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:36	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 07:36	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 07:36	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 07:36	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:36	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 07:36	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 07:36	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:36	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:36	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 07:36	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 07:36	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 07:36	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 07:36	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 07:36	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	100 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	102 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	03/02/15 13:04	03/03/15 02:57	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	03/02/15 13:04	03/03/15 02:57	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	103 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.066	EPA 350.1	0.040	0.009		03/05/15 14:42	1
Ammonia-Unionized as NH3	mg/L	0.01 u	EPA 350.1	0.01	0.01		03/06/15 16:01	1
Biochemical Oxygen Demand	mg/L	5	SM 5210B	2	2	02/25/15 10:12	03/02/15 15:57	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name	LENA RD COUNTY LF
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Sample Description	STORMWATER OVERFLOW @ SOUTH WEIR (SW-2) 1665
Matrix	Surface Water
SAL Sample Number	1501766-24
Date/Time Collected	02/24/15 16:00
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chemical Oxygen Demand	mg/L	66	EPA 410.4	25	10	03/04/15 11:33	03/05/15 12:05	1
Chlorophyll a, Corrected	ug/L	4.7	SM 10200H	0.50	0.50	02/24/15 16:04	03/11/15 12:54	1
Nitrate (as N)	mg/L	0.01 u	EPA 300.0	0.04	0.01		02/25/15 21:42	1
Nitrite (as N)	mg/L	0.01 u	EPA 300.0	0.04	0.01		02/25/15 21:42	1
Phosphorous - Total as P	mg/L	0.34	SM 4500P-E	0.040	0.010	02/27/15 10:30	03/02/15 14:21	1
Total Dissolved Solids	mg/L	430	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
Total Hardness as CaCO3	mg/L	150	SM 2340B	3.3	0.19	02/26/15 12:17	03/06/15 20:43	1
Total Kjeldahl Nitrogen	mg/L	1.3	EPA 351.2	0.20	0.05	02/27/15 10:30	03/02/15 14:21	1
Total Nitrogen	mg/L	1.3	351.2+300.0	0.28	0.07	02/27/15 10:30	03/02/15 14:21	1
Total Organic Carbon	mg/L	27	SM 5310B	10	0.60		03/04/15 10:22	10
Total Suspended Solids	mg/L	16	SM 2540D	1	1	02/26/15 08:12	02/27/15 14:35	1

Metals

Antimony	ug/L	1.0 u	EPA 6020	50	1.0	03/09/15 12:29	03/09/15 15:25	1
Arsenic	ug/L	49	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 20:44	1
Barium	ug/L	19	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 20:44	1
Beryllium	ug/L	0.096 u	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 20:43	1
Cadmium	ug/L	0.27 u	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 20:44	1
Calcium	mg/L	39	EPA 200.7	0.50	0.042	02/26/15 12:17	03/06/15 20:43	1
Chromium	ug/L	0.35 u	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 20:44	1
Cobalt	ug/L	10 u	EPA 6010	100	10	02/26/15 12:17	03/06/15 20:43	1
Copper	ug/L	1.6	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 20:44	1
Iron	ug/L	8,800	EPA 6010	100	20	02/26/15 12:17	03/06/15 20:43	1
Lead	ug/L	0.49 l	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 20:44	1
Magnesium	mg/L	13	EPA 200.7	0.50	0.020	02/26/15 12:17	03/06/15 20:43	1
Mercury	ug/L	0.0078	EPA 1631	0.00040	0.00020	03/03/15 14:55	03/05/15 08:53	1
Nickel	ug/L	2.4 l	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 20:44	1
Selenium	ug/L	1.9 l	EPA 6020	5.0	0.93	03/09/15 12:29	03/09/15 15:25	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	02/26/15 12:17	03/06/15 20:43	1
Thallium	ug/L	0.24 u	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 20:44	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 20:43	1
Zinc	ug/L	1.8 l	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 20:44	1

Microbiology

Fecal Coliforms	CFU/100 ml	600	SM 9222D	1	1	02/24/15 19:00	02/25/15 17:00	1
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Manatee County Utilities Solid Waste Division**3333 Lena Rd****Bradenton, FL 34211****March 26, 2015****Work Order: 1501766****Laboratory Report****Project Name** **LENA RD COUNTY LF**

Sample Description	Field Blank for SW-2
Matrix	Reagent Water
SAL Sample Number	1501766-25
Date/Time Collected	02/24/15 16:00
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Metals

Mercury	ug/L	0.00081	EPA 1631	0.00040	0.00020	03/03/15 14:55	03/05/15 08:53	1
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Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Duplicate 1663**
 Matrix **Surface Water**
 SAL Sample Number **1501766-26**
 Date/Time Collected **02/24/15 16:45**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				02/24/15 16:45	1
Dissolved Oxygen	mg/L	4.2	DEP FT1500	0.1	0.1		02/24/15 16:45	1
pH	SU	7.0	DEP FT1100	0.1	0.1		02/24/15 16:45	1
Specific conductance	umhos/cm	504	DEP FT1200	0.1	0.1		02/24/15 16:45	1
Turbidity	NTU	3.6	DEP FT1600	0.01	0.01		02/24/15 16:45	1
Water Temperature	°C	19.3	DEP FT1400	0.1	0.1		02/24/15 16:45	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/07/15 08:07	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/07/15 08:07	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/07/15 08:07	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/07/15 08:07	1
Acetone	ug/L	3.3 l	EPA 8260	4.0	2.0		03/07/15 08:07	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/07/15 08:07	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/07/15 08:07	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 08:07	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Duplicate 1663**
 Matrix **Surface Water**
 SAL Sample Number **1501766-26**
 Date/Time Collected **02/24/15 16:45**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 08:07	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 08:07	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/07/15 08:07	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/07/15 08:07	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/07/15 08:07	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/07/15 08:07	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/07/15 08:07	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/07/15 08:07	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/07/15 08:07	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/07/15 08:07	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/07/15 08:07	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	99 %	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	99 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0057 u	EPA 8011	0.023	0.0057	03/02/15 13:04	03/03/15 03:19	1
1,2-Dibromoethane	ug/L	0.0057 u	EPA 8011	0.023	0.0057	03/02/15 13:04	03/03/15 03:19	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	109 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.10	EPA 350.1	0.040	0.009		03/05/15 14:42	1
Ammonia-Unionized as NH3	mg/L	0.01 u	EPA 350.1	0.01	0.01		03/06/15 16:01	1
Biochemical Oxygen Demand	mg/L	5	SM 5210B	2	2	02/25/15 10:12	03/02/15 15:57	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Duplicate 1663**
 Matrix **Surface Water**
 SAL Sample Number **1501766-26**
 Date/Time Collected **02/24/15 16:45**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chemical Oxygen Demand	mg/L	41	EPA 410.4	25	10	03/04/15 11:33	03/05/15 12:05	1
Chlorophyll a, Corrected	ug/L	3.2	SM 10200H	0.50	0.50	02/24/15 16:50	03/11/15 12:54	1
Nitrate (as N)	mg/L	0.42	EPA 300.0	0.04	0.01		02/25/15 21:53	1
Nitrite (as N)	mg/L	0.01 u	EPA 300.0	0.04	0.01		02/25/15 21:53	1
Phosphorous - Total as P	mg/L	0.49	SM 4500P-E	0.040	0.010	02/27/15 10:30	03/02/15 14:21	1
Total Dissolved Solids	mg/L	360	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
Total Hardness as CaCO3	mg/L	170	SM 2340B	3.3	0.19	02/26/15 12:17	03/06/15 20:46	1
Total Kjeldahl Nitrogen	mg/L	0.93	EPA 351.2	0.20	0.05	02/27/15 10:30	03/02/15 14:21	1
Total Nitrogen	mg/L	1.3	351.2+300.0	0.28	0.07	02/27/15 10:30	03/02/15 14:21	1
Total Organic Carbon	mg/L	17	SM 5310B	1.0	0.060		03/04/15 10:22	1
Total Suspended Solids	mg/L	14	SM 2540D	1	1	02/26/15 08:12	02/27/15 14:35	1

Metals

Antimony	ug/L	1.0 u	EPA 6020	50	1.0	03/09/15 12:31	03/10/15 10:11	1
Arsenic	ug/L	2.6 l	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 20:49	1
Barium	ug/L	12	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 20:49	1
Beryllium	ug/L	0.096 u	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 20:46	1
Cadmium	ug/L	0.27 u	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 20:49	1
Calcium	mg/L	45	EPA 200.7	0.50	0.042	02/26/15 12:17	03/06/15 20:46	1
Chromium	ug/L	0.35 u	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 20:49	1
Cobalt	ug/L	10 u	EPA 6010	100	10	02/26/15 12:17	03/06/15 20:46	1
Copper	ug/L	0.68	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 20:49	1
Iron	ug/L	830	EPA 6010	100	20	02/26/15 12:17	03/06/15 20:46	1
Lead	ug/L	0.25 u	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 20:49	1
Magnesium	mg/L	14	EPA 200.7	0.50	0.020	02/26/15 12:17	03/06/15 20:46	1
Mercury	ug/L	0.0027	EPA 1631	0.00040	0.00020	03/03/15 14:55	03/05/15 08:53	1
Nickel	ug/L	2.2 l	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 20:49	1
Selenium	ug/L	1.1 l	EPA 6020	5.0	0.93	03/09/15 12:31	03/10/15 10:11	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	02/26/15 12:17	03/06/15 20:46	1
Thallium	ug/L	0.24 u	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 20:49	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 20:46	1
Zinc	ug/L	3.1 l	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 20:49	1

Microbiology

Fecal Coliforms	CFU/100 ml	5,600	SM 9222D	1	1	02/24/15 19:00	02/25/15 17:00	1
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Manatee County Utilities Solid Waste Division**3333 Lena Rd****Bradenton, FL 34211****March 26, 2015****Work Order: 1501766****Laboratory Report****Project Name** **LENA RD COUNTY LF**

Sample Description	Field Blank for Duplicate
Matrix	Reagent Water
SAL Sample Number	1501766-27
Date/Time Collected	02/24/15 15:40
Collected by	Eric Glass
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Metals

Mercury	ug/L	0.0010	EPA 1631	0.00040	0.00020	03/03/15 14:55	03/05/15 08:53	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Field Blank 2
Matrix	Reagent Water
SAL Sample Number	1501766-28
Date/Time Collected	02/24/15 15:40
Collected by	Eric Glass
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Clear	DEP SOPs				02/24/15 15:40	1
Dissolved Oxygen	mg/L	6.2	DEP FT1500	0.1	0.1		02/24/15 15:40	1
pH	SU	7.9	DEP FT1100	0.1	0.1		02/24/15 15:40	1
Specific conductance	umhos/cm	6	DEP FT1200	0.1	0.1		02/24/15 15:40	1
Turbidity	NTU	0.20	DEP FT1600	0.01	0.01		02/24/15 15:40	1
Water Temperature	°C	22.9	DEP FT1400	0.1	0.1		02/24/15 15:40	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 15:36	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 15:36	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 15:36	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/06/15 15:36	1
Acetone	ug/L	5.3 J3	EPA 8260	4.0	2.0		03/06/15 15:36	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/06/15 15:36	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 15:36	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 15:36	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Field Blank 2
 Matrix Reagent Water
 SAL Sample Number 1501766-28
 Date/Time Collected 02/24/15 15:40
 Collected by Eric Glass
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 15:36	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 15:36	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 15:36	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 15:36	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 15:36	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 15:36	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 15:36	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 15:36	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 15:36	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 15:36	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 15:36	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	100 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	100 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	98 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	03/02/15 13:04	03/03/15 03:41	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	03/02/15 13:04	03/03/15 03:41	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	97 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.009 u	EPA 350.1	0.040	0.009		03/05/15 14:42	1
Ammonia-Unionized as NH3	mg/L	0.01 u	EPA 350.1	0.01	0.01		03/06/15 16:01	1
Biochemical Oxygen Demand	mg/L	2 u	SM 5210B	2	2	02/25/15 10:12	03/02/15 15:57	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Field Blank 2
Matrix	Reagent Water
SAL Sample Number	1501766-28
Date/Time Collected	02/24/15 15:40
Collected by	Eric Glass
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chemical Oxygen Demand	mg/L	10 U	EPA 410.4	25	10	03/04/15 11:33	03/05/15 12:05	1
Chlorophyll a, Corrected	ug/L	1.5	SM 10200H	0.50	0.50	02/24/15 16:04	03/11/15 12:54	1
Nitrate (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01		02/25/15 22:04	1
Nitrite (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01		02/25/15 22:04	1
Phosphorous - Total as P	mg/L	0.010 U	SM 4500P-E	0.040	0.010	02/27/15 10:30	03/02/15 14:21	1
Total Dissolved Solids	mg/L	11	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
Total Hardness as CaCO3	mg/L	0.19 U	SM 2340B	3.3	0.19	02/26/15 12:17	03/06/15 20:50	1
Total Kjeldahl Nitrogen	mg/L	0.12 I	EPA 351.2	0.20	0.05	02/27/15 10:30	03/02/15 14:21	1
Total Nitrogen	mg/L	0.28 I	351.2+300.0	0.28	0.07	02/27/15 10:30	03/02/15 14:21	1
Total Organic Carbon	mg/L	0.060 U	SM 5310B	1.0	0.060		03/04/15 10:22	1
Total Suspended Solids	mg/L	1 U	SM 2540D	1	1	02/26/15 08:12	02/27/15 14:35	1

Metals

Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:31	03/10/15 10:18	1
Arsenic	ug/L	0.93 U	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 21:02	1
Barium	ug/L	0.18 U	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 21:02	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 20:50	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 21:02	1
Calcium	mg/L	0.042 U	EPA 200.7	0.50	0.042	02/26/15 12:17	03/06/15 20:50	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 21:02	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:17	03/06/15 20:50	1
Copper	ug/L	0.13 U	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 21:02	1
Iron	ug/L	20 U	EPA 6010	100	20	02/26/15 12:17	03/06/15 20:50	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 21:02	1
Magnesium	mg/L	0.020 U	EPA 200.7	0.50	0.020	02/26/15 12:17	03/06/15 20:50	1
Mercury	ug/L	0.0018	EPA 1631	0.00040	0.00020	03/03/15 14:55	03/05/15 08:53	1
Nickel	ug/L	0.46 U	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 21:02	1
Selenium	ug/L	0.93 U	EPA 6020	5.0	0.93	03/09/15 12:31	03/10/15 10:18	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	02/26/15 12:17	03/06/15 20:50	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 21:02	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 20:50	1
Zinc	ug/L	0.88 U	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 21:02	1

Microbiology

Fecal Coliforms	CFU/100 ml	1 U	SM 9222D	1	1	02/24/15 19:00	02/25/15 17:00	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Trip Blank 2
Matrix	Reagent Water
SAL Sample Number	1501766-29
Date/Time Collected	02/20/15 13:00
Collected by	Melissa McLaughlin
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Volatile Organic Compounds</u>								
1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 16:08	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 16:08	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 16:08	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/06/15 16:08	1
Acetone	ug/L	2.0 u,J3	EPA 8260	4.0	2.0		03/06/15 16:08	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/06/15 16:08	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 16:08	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 16:08	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 16:08	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 16:08	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		03/06/15 16:08	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Trip Blank 2
Matrix	Reagent Water
SAL Sample Number	1501766-29
Date/Time Collected	02/20/15 13:00
Collected by	Melissa McLaughlin
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		03/06/15 16:08	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		03/06/15 16:08	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 16:08	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		03/06/15 16:08	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		03/06/15 16:08	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		03/06/15 16:08	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:08	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:08	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	98 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Leachate 1
Matrix	Other aqueous
SAL Sample Number	1501766-30
Date/Time Collected	02/24/15 12:50
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Brown	DEP SOPs				02/24/15 12:50	1
Dissolved Oxygen	mg/L	0.1	DEP FT1500	0.1	0.1		02/24/15 12:50	1
pH	SU	6.8	DEP FT1100	0.1	0.1		02/24/15 12:50	1
Specific conductance	umhos/cm	5,777	DEP FT1200	0.1	0.1		02/24/15 12:50	1
Water Temperature	°C	26.7	DEP FT1400	0.1	0.1		02/24/15 12:50	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 20:36	5
1,1,1-Trichloroethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
1,1,2-Trichloroethane	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 20:36	5
1,1-Dichloroethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 20:36	5
1,1-Dichloroethene	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 20:36	5
1,1-Dichloropropene	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 20:36	5
1,2,3-Trichloropropane	ug/L	1.8 U	EPA 8260	4.0	1.8		03/06/15 20:36	5
1,2-Dichlorobenzene	ug/L	0.7 U	EPA 8260	4.0	0.7		03/06/15 20:36	5
1,2-Dichloroethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 20:36	5
1,2-Dichloropropane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 20:36	5
1,3-Dichlorobenzene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 20:36	5
1,3-Dichloropropane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 20:36	5
1,4-Dichlorobenzene	ug/L	3.5 I	EPA 8260	4.0	0.9		03/06/15 20:36	5
2,2-Dichloropropane	ug/L	1.4 U	EPA 8260	4.0	1.4		03/06/15 20:36	5
2-Butanone	ug/L	10 U	EPA 8260	20	10		03/06/15 20:36	5
2-Hexanone	ug/L	11 U	EPA 8260	20	11		03/06/15 20:36	5
4-Methyl-2-pentanone	ug/L	13 U	EPA 8260	20	13		03/06/15 20:36	5
Acetone	ug/L	22 J3	EPA 8260	20	9.8		03/06/15 20:36	5
Acetonitrile	ug/L	11 U	EPA 8260	20	11		03/06/15 20:36	5
Acrolein	ug/L	6.0 U	EPA 8260	20	6.0		03/06/15 20:36	5
Acrylonitrile	ug/L	6.4 U	EPA 8260	20	6.4		03/06/15 20:36	5
Allyl chloride	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 20:36	5
Benzene	ug/L	5.0	EPA 8260	4.0	0.6		03/06/15 20:36	5
Bromochloromethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 20:36	5
Bromodichloromethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
Bromoform	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 20:36	5

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 1**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-30**
 Date/Time Collected **02/24/15 12:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bromomethane	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 20:36	5
Carbon disulfide	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
Carbon tetrachloride	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
Chlorobenzene	ug/L	6.3	EPA 8260	4.0	0.6		03/06/15 20:36	5
Chloroethane	ug/L	2.1 U	EPA 8260	8.0	2.1		03/06/15 20:36	5
Chloroform	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
Chloromethane	ug/L	2.0 U	EPA 8260	8.0	2.0		03/06/15 20:36	5
Chloroprene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
cis-1,2-Dichloroethene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 20:36	5
cis-1,3-Dichloropropene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
Dibromochloromethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 20:36	5
Dibromomethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 20:36	5
Dichlorodifluoromethane	ug/L	2.3 U	EPA 8260	8.0	2.3		03/06/15 20:36	5
Ethyl Methacrylate	ug/L	1.6 U	EPA 8260	4.0	1.6		03/06/15 20:36	5
Ethylbenzene	ug/L	2.5 I	EPA 8260	4.0	0.4		03/06/15 20:36	5
Iodomethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 20:36	5
Isobutyl alcohol	ug/L	68 U	EPA 8260	100	68		03/06/15 20:36	5
Methacrylonitrile	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 20:36	5
Methyl methacrylate	ug/L	1.5 U	EPA 8260	4.0	1.5		03/06/15 20:36	5
Methylene Chloride	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 20:36	5
Propionitrile	ug/L	11 U	EPA 8260	20	11		03/06/15 20:36	5
Styrene	ug/L	0.2 U	EPA 8260	4.0	0.2		03/06/15 20:36	5
Tetrachloroethene	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 20:36	5
Toluene	ug/L	1.7 I	EPA 8260	4.0	0.4		03/06/15 20:36	5
trans-1,2-Dichloroethene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
trans-1,3-Dichloropropene	ug/L	0.7 U	EPA 8260	4.0	0.7		03/06/15 20:36	5
trans-1,4-Dichloro-2-butene	ug/L	1.6 U	EPA 8260	4.0	1.6		03/06/15 20:36	5
Trichloroethene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 20:36	5
Trichlorofluoromethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 20:36	5
Vinyl acetate	ug/L	1.9 U	EPA 8260	8.0	1.9		03/06/15 20:36	5
Vinyl chloride	ug/L	1.5 U	EPA 8260	8.0	1.5		03/06/15 20:36	5
Xylene-m,p	ug/L	5.0 I	EPA 8260	8.0	1.2		03/06/15 20:36	5
Xylene-o	ug/L	1.4 I	EPA 8260	4.0	0.8		03/06/15 20:36	5
Xylenes- Total	ug/L	6.4	EPA 8260	4.0	0.5		03/06/15 20:36	5
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits	65-135				

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

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 Matrix **Other aqueous**
 SAL Sample Number **1501766-30**
 Date/Time Collected **02/24/15 12:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Surrogate for EPA 8260	4-Bromofluorobenzene	97 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	101 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	100 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	03/02/15 13:04	03/03/15 04:04	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	03/02/15 13:04	03/03/15 04:04	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	98 %	Limits	85-123				

Organo Chlorine Pesticides

4,4'-DDD	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 09:26	1
4,4'-DDE	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 09:26	1
4,4'-DDT	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:26	1
Aldrin	ug/L	0.005 u	EPA 8081	0.043	0.005	02/25/15 14:51	03/10/15 09:26	1
alpha-BHC	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 09:26	1
beta-BHC	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 09:26	1
Chlordane	ug/L	0.054 u	EPA 8081	0.11	0.054	02/25/15 14:51	03/10/15 09:26	1
delta-BHC	ug/L	0.006 u	EPA 8081	0.043	0.006	02/25/15 14:51	03/10/15 09:26	1
Dieldrin	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:26	1
Endosulfan I	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 09:26	1
Endosulfan II	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 09:26	1
Endosulfan sulfate	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:26	1
Endrin	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 09:26	1
Endrin Aldehyde	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 09:26	1
Endrin ketone	ug/L	0.006 u	EPA 8081	0.043	0.006	02/25/15 14:51	03/10/15 09:26	1
gamma-BHC	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 09:26	1
Heptachlor	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 09:26	1
Heptachlor epoxide	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:26	1
Methoxychlor	ug/L	0.051 u	EPA 8081	0.17	0.051	02/25/15 14:51	03/10/15 09:26	1
Toxaphene	ug/L	0.14 u	EPA 8081	0.54	0.14	02/25/15 14:51	03/10/15 09:26	1
Surrogate for EPA 8081	Decachlorobiphenyl	54 %	Limits	18-158				
Surrogate for EPA 8081	Tetrachloro-meta-xylene	66 %	Limits	24-121				

Chlorinated Herbicides

2,4,5-T	ug/L	2.5 u	EPA 8321	5.0	2.5	03/03/15 09:37	03/05/15 01:12	1
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 Matrix **Other aqueous**
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 Date/Time Collected **02/24/15 12:50**
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 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2,4,5-TP	ug/L	1.4 u	EPA 8321	5.0	1.4	03/03/15 09:37	03/05/15 01:12	1
2,4-D	ug/L	3.2 u	EPA 8321	5.0	3.2	03/03/15 09:37	03/05/15 01:12	1
Dinoseb	ug/L	3.7 u	EPA 8321	5.0	3.7	03/03/15 09:37	03/05/15 01:12	1
<i>Surrogate for EPA 8321</i>	<i>2,4-DCAA</i>		<i>78 %</i>	<i>Limits</i>	<i>13-155</i>			

Polychlorinated Biphenyls (PCBs)

PCB-1016	ug/L	0.072 u	EPA 8082	0.217	0.072	02/25/15 15:52	03/13/15 12:16	1
PCB-1221	ug/L	0.076 u	EPA 8082	0.217	0.076	02/25/15 15:52	03/13/15 12:16	1
PCB-1232	ug/L	0.076 u	EPA 8082	0.217	0.076	02/25/15 15:52	03/13/15 12:16	1
PCB-1242	ug/L	0.072 u	EPA 8082	0.217	0.072	02/25/15 15:52	03/13/15 12:16	1
PCB-1248	ug/L	0.076 u	EPA 8082	0.217	0.076	02/25/15 15:52	03/13/15 12:16	1
PCB-1254	ug/L	0.076 u	EPA 8082	0.217	0.076	02/25/15 15:52	03/13/15 12:16	1
PCB-1260	ug/L	0.070 u	EPA 8082	0.217	0.070	02/25/15 15:52	03/13/15 12:16	1
<i>Surrogate for EPA 8082</i>	<i>Decachlorobiphenyl</i>		<i>52 %</i>	<i>Limits</i>	<i>10-118</i>			
<i>Surrogate for EPA 8082</i>	<i>Tetrachloro-meta-xylene</i>		<i>63 %</i>	<i>Limits</i>	<i>14-111</i>			

Base/Neutral and Acid Extractable Organic Compounds

1,2,4,5-Tetrachlorobenzene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
1,2,4-Trichlorobenzene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
1,3,5-Trinitrobenzene	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:23	5
1,3-Dinitrobenzene	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
1,4-Naphthoquinone	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:23	5
1,4-Phenylenediamine	ug/L	1 u	EPA 8270	28	1	02/25/15 13:42	03/19/15 17:23	5
1-Methylnaphthalene	ug/L	0.99	EPA 8270	0.22	0.028	02/25/15 13:42	03/21/15 01:58	10
1-Naphthylamine	ug/L	0.7 u	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:23	5
2,3,4,6-Tetrachlorophenol	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:23	5
2,4,5-Trichlorophenol	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
2,4,6-Trichlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
2,4-Dichlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
2,4-Dimethylphenol	ug/L	2 u	EPA 8270	11	2	02/25/15 13:42	03/19/15 17:23	5
2,4-Dinitrophenol	ug/L	12 u	EPA 8270	28	12	02/25/15 13:42	03/19/15 17:23	5
2,4-Dinitrotoluene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
2,6-Dichlorophenol	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
2,6-Dinitrotoluene	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
2-Acetylaminofluorene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5

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 Matrix **Other aqueous**
 SAL Sample Number **1501766-30**
 Date/Time Collected **02/24/15 12:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2-Chloronaphthalene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
2-Chlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
2-Methylnaphthalene	ug/L	1.2	EPA 8270	0.22	0.048	02/25/15 13:42	03/21/15 01:58	10
2-Methylphenol	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:23	5
2-Naphthylamine	ug/L	0.8 u	EPA 8270	3	0.8	02/25/15 13:42	03/19/15 17:23	5
2-Nitroaniline	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
2-Nitrophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
3,3-Dichlorobenzidine	ug/L	1 u	EPA 8270	3	1	02/25/15 13:42	03/19/15 17:23	5
3,3'-Dimethylbenzidine	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:23	5
3/4-Methylphenol	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:23	5
3-Methylcholanthrene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
3-Nitroaniline	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:23	5
4,6-Dinitro-2-methylphenol	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:23	5
4-Aminobiphenyl	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:23	5
4-Bromophenyl phenyl ether	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:23	5
4-Chloro-3-methylphenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
4-Chloroaniline	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:23	5
4-Chlorophenyl phenyl ether	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
4-Nitroaniline	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:23	5
4-Nitrophenol	ug/L	0.6 u	EPA 8270	11	0.6	02/25/15 13:42	03/19/15 17:23	5
5-Nitro-o-toluidine	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
7,12-Dimethylbenz(a)anthracene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Acenaphthene	ug/L	0.30	EPA 8270	0.22	0.21	02/25/15 13:42	03/21/15 01:58	10
Acenaphthylene	ug/L	0.028 u	EPA 8270	0.22	0.028	02/25/15 13:42	03/21/15 01:58	10
Acetophenone	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Anthracene	ug/L	0.64	EPA 8270	0.22	0.047	02/25/15 13:42	03/21/15 01:58	10
Benzo(a)anthracene	ug/L	0.024 u	EPA 8270	0.22	0.024	02/25/15 13:42	03/21/15 01:58	10
Benzo(a)pyrene	ug/L	0.037 u	EPA 8270	0.22	0.037	02/25/15 13:42	03/21/15 01:58	10
Benzo(b)fluoranthene	ug/L	0.032 u	EPA 8270	0.22	0.032	02/25/15 13:42	03/21/15 01:58	10
Benzo(g,h,i)perylene	ug/L	0.10 u	EPA 8270	0.22	0.10	02/25/15 13:42	03/21/15 01:58	10
Benzo(k)fluoranthene	ug/L	0.033 u	EPA 8270	0.22	0.033	02/25/15 13:42	03/21/15 01:58	10
Benzyl alcohol	ug/L	0.7 u	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:23	5
Bis(2-chloroethoxy)methane	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Bis(2-chloroethyl)ether	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Bis(2-chloroisopropyl) ether	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5

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 SAL Sample Number 1501766-30
 Date/Time Collected 02/24/15 12:50
 Collected by Ian Gerald
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Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bis(2-ethylhexyl)phthalate	ug/L	3 U	EPA 8270	11	3	02/25/15 13:42	03/19/15 17:23	5
Butyl benzyl phthalate	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:23	5
Chlorobenzilate	ug/L	0.9 U	EPA 8270	11	0.9	02/25/15 13:42	03/19/15 17:23	5
Chrysene	ug/L	0.045 I	EPA 8270	0.22	0.038	02/25/15 13:42	03/21/15 01:58	10
Diallate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Dibenzo(a,h)anthracene	ug/L	0.099 U	EPA 8270	0.22	0.099	02/25/15 13:42	03/21/15 01:58	10
Dibenzofuran	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
Diethyl phthalate	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:23	5
Dimethoate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Dimethylphthalate	ug/L	1 U	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:23	5
Di-n-butyl phthalate	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:23	5
Di-n-octylphthalate	ug/L	0.6 U	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:23	5
Diphenylamine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Disulfoton	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
Ethyl Methanesulfonate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Famphur	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:23	5
Fluoranthene	ug/L	0.023 U	EPA 8270	0.22	0.023	02/25/15 13:42	03/21/15 01:58	10
Fluorene	ug/L	0.037 U	EPA 8270	0.22	0.037	02/25/15 13:42	03/21/15 01:58	10
Hexachlorobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Hexachlorobutadiene	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
Hexachlorocyclopentadiene	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
Hexachloroethane	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Hexachloropropene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Indeno(1,2,3-cd)pyrene	ug/L	0.073 U	EPA 8270	0.22	0.073	02/25/15 13:42	03/21/15 01:58	10
Isodrin	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Isophorone	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
Isosafrole	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Kepone	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Methapyrilene	ug/L	4 U	EPA 8270	11	4	02/25/15 13:42	03/19/15 17:23	5
Methyl Methanesulfonate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Naphthalene	ug/L	3.7	EPA 8270	0.22	0.13	02/25/15 13:42	03/21/15 01:58	10
Nitrobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
N-Nitrosodibutylamine	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
N-Nitrosodiethylamine	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
N-Nitrosodimethylamine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5

Florida Certification Number: E84129

NELAP Accredited

Francis I. Daniels, Laboratory Director

Leslie C. Boardman, Q.A. Manager

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Leachate 1
 Matrix Other aqueous
 SAL Sample Number 1501766-30
 Date/Time Collected 02/24/15 12:50
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
N-Nitrosodi-n-propylamine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
N-Nitrosodiphenylamine	ug/L	1 U	EPA 8270	3	1	02/25/15 13:42	03/19/15 17:23	5
N-Nitrosomethylethylamine	ug/L	0.8 U	EPA 8270	3	0.8	02/25/15 13:42	03/19/15 17:23	5
N-Nitrosopiperidine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
N-Nitrosopyrrolidine	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:23	5
O,O,O-Triethyl phosphorothioate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
o-Toluidine	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:23	5
Parathion	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:23	5
Parathion, methyl	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
p-Dimethylaminoazobenzene	ug/L	0.3 U	EPA 8270**	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Pentachlorobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Pentachloronitrobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Pentachlorophenol	ug/L	2 U	EPA 8270	11	2	02/25/15 13:42	03/19/15 17:23	5
Phenacetin	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:23	5
Phenanthrene	ug/L	0.024 U	EPA 8270	0.22	0.024	02/25/15 13:42	03/21/15 01:58	10
Phenol	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:23	5
Phentermine	ug/L	17 U	EPA 8270**	56	17	02/25/15 13:42	03/19/15 17:23	5
Phorate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Pronamide	ug/L	0.3 U	EPA 8270**	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Pyrene	ug/L	0.019 U	EPA 8270	0.22	0.019	02/25/15 13:42	03/21/15 01:58	10
Safrole	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:23	5
Thionazin	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:23	5
Surrogate for EPA 8270	2,4,6-Tribromophenol	97 %	Limits		10-123			
Surrogate for EPA 8270	2-Fluorobiphenyl	56 %	Limits		43-116			
Surrogate for EPA 8270	2-Fluorophenol	52 %	Limits		21-110			
Surrogate for EPA 8270	Nitrobenzene-d5	95 %	Limits		35-114			
Surrogate for EPA 8270	Phenol-d5	41 %	Limits		0-200			
Surrogate for EPA 8270	Terphenyl-d14	94 %	Limits		33-141			

Inorganics

Ammonia as N	mg/L	250	EPA 350.1	8.0	1.9		02/26/15 14:32	200
Chloride	mg/L	550	EPA 300.0	2.0	0.50		02/25/15 22:15	10
Cyanide	mg/L	0.0054 I	SM 4500CN-E	0.010	0.0025	02/27/15 13:30	03/03/15 15:30	1
Nitrate (as N)	mg/L	0.48	EPA 300.0	0.40	0.10		02/25/15 22:15	10
Sulfide	mg/L	1.3	SM 4500SF	0.40	0.10		03/02/15 16:13	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 1**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-30**
 Date/Time Collected **02/24/15 12:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Total Alkalinity	mg/L	2,100	SM 2320B	8.0	2.0		03/09/15 15:44	1
Total Dissolved Solids	mg/L	2,600	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	03/09/15 12:31	03/10/15 10:27	1
Arsenic	ug/L	17	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 21:07	1
Barium	ug/L	130	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 21:07	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 20:54	1
Cadmium	ug/L	0.51	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 21:07	1
Chromium	ug/L	11	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 21:07	1
Cobalt	ug/L	18 I	EPA 6010	100	10	02/26/15 12:17	03/06/15 20:54	1
Copper	ug/L	4.2	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 21:07	1
Iron	ug/L	13,000	EPA 6010	100	20	02/26/15 12:17	03/06/15 20:54	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 21:07	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:19	1
Nickel	ug/L	24	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 21:07	1
Selenium	ug/L	43 I	EPA 6020	50	9.3	03/09/15 12:31	03/10/15 12:30	10
Silver	ug/L	0.11 I	EPA 6020	0.50	0.069	02/26/15 12:56	03/06/15 21:07	1
Sodium	mg/L	510	EPA 6010	0.50	0.13	02/26/15 12:17	03/06/15 20:54	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 21:07	1
Tin	ug/L	100 U	EPA 6010	500	100	02/26/15 12:17	03/06/15 20:54	1
Vanadium	ug/L	28	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 20:54	1
Zinc	ug/L	7.4	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 21:07	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 2**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-31**
 Date/Time Collected **02/24/15 14:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Brown	DEP SOPs				02/24/15 14:50	1
Dissolved Oxygen	mg/L	0.9	DEP FT1500	0.1	0.1		02/24/15 14:50	1
pH	SU	6.8	DEP FT1100	0.1	0.1		02/24/15 14:50	1
Specific conductance	umhos/cm	4,277	DEP FT1200	0.1	0.1		02/24/15 14:50	1
Water Temperature	°C	23.6	DEP FT1400	0.1	0.1		02/24/15 14:50	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 21:08	5
1,1,1-Trichloroethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:08	5
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:08	5
1,1,2-Trichloroethane	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 21:08	5
1,1-Dichloroethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:08	5
1,1-Dichloroethene	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 21:08	5
1,1-Dichloropropene	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:08	5
1,2,3-Trichloropropane	ug/L	1.8 U	EPA 8260	4.0	1.8		03/06/15 21:08	5
1,2-Dichlorobenzene	ug/L	0.7 U	EPA 8260	4.0	0.7		03/06/15 21:08	5
1,2-Dichloroethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:08	5
1,2-Dichloropropane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:08	5
1,3-Dichlorobenzene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 21:08	5
1,3-Dichloropropane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:08	5
1,4-Dichlorobenzene	ug/L	1.7 U	EPA 8260	4.0	0.9		03/06/15 21:08	5
2,2-Dichloropropane	ug/L	1.4 U	EPA 8260	4.0	1.4		03/06/15 21:08	5
2-Butanone	ug/L	10 U	EPA 8260	20	10		03/06/15 21:08	5
2-Hexanone	ug/L	11 U	EPA 8260	20	11		03/06/15 21:08	5
4-Methyl-2-pentanone	ug/L	13 U	EPA 8260	20	13		03/06/15 21:08	5
Acetone	ug/L	23 U	EPA 8260	20	9.8		03/06/15 21:08	5
Acetonitrile	ug/L	11 U	EPA 8260	20	11		03/06/15 21:08	5
Acrolein	ug/L	6.0 U	EPA 8260	20	6.0		03/06/15 21:08	5
Acrylonitrile	ug/L	6.4 U	EPA 8260	20	6.4		03/06/15 21:08	5
Allyl chloride	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 21:08	5
Benzene	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:08	5
Bromochloromethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:08	5
Bromodichloromethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:08	5
Bromoform	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 21:08	5

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Leachate 2
 Matrix Other aqueous
 SAL Sample Number 1501766-31
 Date/Time Collected 02/24/15 14:50
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bromomethane	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 21:08	5
Carbon disulfide	ug/L	1.0 u	EPA 8260	4.0	1.0		03/06/15 21:08	5
Carbon tetrachloride	ug/L	1.0 u	EPA 8260	4.0	1.0		03/06/15 21:08	5
Chlorobenzene	ug/L	4.4	EPA 8260	4.0	0.6		03/06/15 21:08	5
Chloroethane	ug/L	2.1 u	EPA 8260	8.0	2.1		03/06/15 21:08	5
Chloroform	ug/L	1.0 u	EPA 8260	4.0	1.0		03/06/15 21:08	5
Chloromethane	ug/L	2.0 u	EPA 8260	8.0	2.0		03/06/15 21:08	5
Chloroprene	ug/L	1.0 u	EPA 8260	4.0	1.0		03/06/15 21:08	5
cis-1,2-Dichloroethene	ug/L	0.4 u	EPA 8260	4.0	0.4		03/06/15 21:08	5
cis-1,3-Dichloropropene	ug/L	1.0 u	EPA 8260	4.0	1.0		03/06/15 21:08	5
Dibromochloromethane	ug/L	0.6 u	EPA 8260	4.0	0.6		03/06/15 21:08	5
Dibromomethane	ug/L	0.8 u	EPA 8260	4.0	0.8		03/06/15 21:08	5
Dichlorodifluoromethane	ug/L	2.3 u	EPA 8260	8.0	2.3		03/06/15 21:08	5
Ethyl Methacrylate	ug/L	1.6 u	EPA 8260	4.0	1.6		03/06/15 21:08	5
Ethylbenzene	ug/L	0.5 u	EPA 8260	4.0	0.4		03/06/15 21:08	5
Iodomethane	ug/L	0.8 u	EPA 8260	4.0	0.8		03/06/15 21:08	5
Isobutyl alcohol	ug/L	68 u	EPA 8260	100	68		03/06/15 21:08	5
Methacrylonitrile	ug/L	0.9 u	EPA 8260	4.0	0.9		03/06/15 21:08	5
Methyl methacrylate	ug/L	1.5 u	EPA 8260	4.0	1.5		03/06/15 21:08	5
Methylene Chloride	ug/L	0.9 u	EPA 8260	4.0	0.9		03/06/15 21:08	5
Propionitrile	ug/L	11 u	EPA 8260	20	11		03/06/15 21:08	5
Styrene	ug/L	0.2 u	EPA 8260	4.0	0.2		03/06/15 21:08	5
Tetrachloroethene	ug/L	0.6 u	EPA 8260	4.0	0.6		03/06/15 21:08	5
Toluene	ug/L	0.4 u	EPA 8260	4.0	0.4		03/06/15 21:08	5
trans-1,2-Dichloroethene	ug/L	1.0 u	EPA 8260	4.0	1.0		03/06/15 21:08	5
trans-1,3-Dichloropropene	ug/L	0.7 u	EPA 8260	4.0	0.7		03/06/15 21:08	5
trans-1,4-Dichloro-2-butene	ug/L	1.6 u	EPA 8260	4.0	1.6		03/06/15 21:08	5
Trichloroethene	ug/L	1.0 u	EPA 8260	4.0	1.0		03/06/15 21:08	5
Trichlorofluoromethane	ug/L	0.8 u	EPA 8260	4.0	0.8		03/06/15 21:08	5
Vinyl acetate	ug/L	1.9 u	EPA 8260	8.0	1.9		03/06/15 21:08	5
Vinyl chloride	ug/L	1.5 u	EPA 8260	8.0	1.5		03/06/15 21:08	5
Xylene-m,p	ug/L	1.2 u	EPA 8260	8.0	1.2		03/06/15 21:08	5
Xylene-o	ug/L	0.8 u	EPA 8260	4.0	0.8		03/06/15 21:08	5
Xylenes- Total	ug/L	0.5 u	EPA 8260	4.0	0.5		03/06/15 21:08	5
Surrogate for EPA 8260	1,2-Dichloroethane-d4	101 %	Limits	65-135				

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Leachate 2
 Matrix Other aqueous
 SAL Sample Number 1501766-31
 Date/Time Collected 02/24/15 14:50
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	101 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.021	0.0054	03/05/15 14:10	03/05/15 22:59	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.021	0.0054	03/05/15 14:10	03/05/15 22:59	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	101 %	Limits	85-123				

Organo Chlorine Pesticides

4,4'-DDD	ug/L	0.012 u	EPA 8081	0.048	0.012	02/25/15 14:51	03/10/15 09:42	1
4,4'-DDE	ug/L	0.008 u	EPA 8081	0.048	0.008	02/25/15 14:51	03/10/15 09:42	1
4,4'-DDT	ug/L	0.011 u	EPA 8081	0.048	0.011	02/25/15 14:51	03/10/15 09:42	1
Aldrin	ug/L	0.006 u	EPA 8081	0.048	0.006	02/25/15 14:51	03/10/15 09:42	1
alpha-BHC	ug/L	0.010 u	EPA 8081	0.048	0.010	02/25/15 14:51	03/10/15 09:42	1
beta-BHC	ug/L	0.009 u	EPA 8081	0.048	0.009	02/25/15 14:51	03/10/15 09:42	1
Chlordane	ug/L	0.061 u	EPA 8081	0.12	0.061	02/25/15 14:51	03/10/15 09:42	1
delta-BHC	ug/L	0.007 u	EPA 8081	0.048	0.007	02/25/15 14:51	03/10/15 09:42	1
Dieldrin	ug/L	0.011 u	EPA 8081	0.048	0.011	02/25/15 14:51	03/10/15 09:42	1
Endosulfan I	ug/L	0.012 u	EPA 8081	0.048	0.012	02/25/15 14:51	03/10/15 09:42	1
Endosulfan II	ug/L	0.010 u	EPA 8081	0.048	0.010	02/25/15 14:51	03/10/15 09:42	1
Endosulfan sulfate	ug/L	0.011 u	EPA 8081	0.048	0.011	02/25/15 14:51	03/10/15 09:42	1
Endrin	ug/L	0.012 u	EPA 8081	0.048	0.012	02/25/15 14:51	03/10/15 09:42	1
Endrin Aldehyde	ug/L	0.012 u	EPA 8081	0.048	0.012	02/25/15 14:51	03/10/15 09:42	1
Endrin ketone	ug/L	0.007 u	EPA 8081	0.048	0.007	02/25/15 14:51	03/10/15 09:42	1
gamma-BHC	ug/L	0.010 u	EPA 8081	0.048	0.010	02/25/15 14:51	03/10/15 09:42	1
Heptachlor	ug/L	0.009 u	EPA 8081	0.048	0.009	02/25/15 14:51	03/10/15 09:42	1
Heptachlor epoxide	ug/L	0.012 u	EPA 8081	0.048	0.012	02/25/15 14:51	03/10/15 09:42	1
Methoxychlor	ug/L	0.057 u	EPA 8081	0.19	0.057	02/25/15 14:51	03/10/15 09:42	1
Toxaphene	ug/L	0.16 u	EPA 8081	0.61	0.16	02/25/15 14:51	03/10/15 09:42	1
Surrogate for EPA 8081	Decachlorobiphenyl	40 %	Limits	18-158				
Surrogate for EPA 8081	Tetrachloro-meta-xylene	56 %	Limits	24-121				

Chlorinated Herbicides

2,4,5-T	ug/L	2.5 u	EPA 8321	5.0	2.5	03/03/15 09:37	03/05/15 01:58	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 2**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-31**
 Date/Time Collected **02/24/15 14:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2,4,5-TP	ug/L	1.4 u	EPA 8321	5.0	1.4	03/03/15 09:37	03/05/15 01:58	1
2,4-D	ug/L	3.2 u	EPA 8321	5.0	3.2	03/03/15 09:37	03/05/15 01:58	1
Dinoseb	ug/L	3.7 u	EPA 8321	5.0	3.7	03/03/15 09:37	03/05/15 01:58	1
Surrogate for EPA 8321	2,4-DCAA	134 %	Limits	13-155				

Polychlorinated Biphenyls (PCBs)

PCB-1016	ug/L	0.080 u	EPA 8082	0.242	0.080	02/25/15 15:52	03/13/15 12:32	1
PCB-1221	ug/L	0.085 u	EPA 8082	0.242	0.085	02/25/15 15:52	03/13/15 12:32	1
PCB-1232	ug/L	0.085 u	EPA 8082	0.242	0.085	02/25/15 15:52	03/13/15 12:32	1
PCB-1242	ug/L	0.080 u	EPA 8082	0.242	0.080	02/25/15 15:52	03/13/15 12:32	1
PCB-1248	ug/L	0.085 u	EPA 8082	0.242	0.085	02/25/15 15:52	03/13/15 12:32	1
PCB-1254	ug/L	0.085 u	EPA 8082	0.242	0.085	02/25/15 15:52	03/13/15 12:32	1
PCB-1260	ug/L	0.078 u	EPA 8082	0.242	0.078	02/25/15 15:52	03/13/15 12:32	1
Surrogate for EPA 8082	Decachlorobiphenyl	42 %	Limits	10-118				
Surrogate for EPA 8082	Tetrachloro-meta-xylene	59 %	Limits	14-111				

Base/Neutral and Acid Extractable Organic Compounds

1,2,4,5-Tetrachlorobenzene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
1,2,4-Trichlorobenzene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
1,3,5-Trinitrobenzene	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:55	5
1,3-Dinitrobenzene	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
1,4-Naphthoquinone	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:55	5
1,4-Phenylenediamine	ug/L	1 u	EPA 8270	28	1	02/25/15 13:42	03/19/15 17:55	5
1-Methylnaphthalene	ug/L	0.39	EPA 8270	0.22	0.028	02/25/15 13:42	03/21/15 02:28	10
1-Naphthylamine	ug/L	0.7 u	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:55	5
2,3,4,6-Tetrachlorophenol	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:55	5
2,4,5-Trichlorophenol	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
2,4,6-Trichlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
2,4-Dichlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
2,4-Dimethylphenol	ug/L	2 u	EPA 8270	11	2	02/25/15 13:42	03/19/15 17:55	5
2,4-Dinitrophenol	ug/L	12 u	EPA 8270	28	12	02/25/15 13:42	03/19/15 17:55	5
2,4-Dinitrotoluene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
2,6-Dichlorophenol	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
2,6-Dinitrotoluene	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
2-Acetylaminofluorene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 2**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-31**
 Date/Time Collected **02/24/15 14:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2-Chloronaphthalene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
2-Chlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
2-Methylnaphthalene	ug/L	0.49	EPA 8270	0.22	0.048	02/25/15 13:42	03/21/15 02:28	10
2-Methylphenol	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:55	5
2-Naphthylamine	ug/L	0.8 u	EPA 8270	3	0.8	02/25/15 13:42	03/19/15 17:55	5
2-Nitroaniline	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
2-Nitrophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
3,3-Dichlorobenzidine	ug/L	1 u	EPA 8270	3	1	02/25/15 13:42	03/19/15 17:55	5
3,3'-Dimethylbenzidine	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:55	5
3/4-Methylphenol	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:55	5
3-Methylcholanthrene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
3-Nitroaniline	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:55	5
4,6-Dinitro-2-methylphenol	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:55	5
4-Aminobiphenyl	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:55	5
4-Bromophenyl phenyl ether	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:55	5
4-Chloro-3-methylphenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
4-Chloroaniline	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:55	5
4-Chlorophenyl phenyl ether	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
4-Nitroaniline	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:55	5
4-Nitrophenol	ug/L	0.6 u	EPA 8270	11	0.6	02/25/15 13:42	03/19/15 17:55	5
5-Nitro-o-toluidine	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
7,12-Dimethylbenz(a)anthracene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Acenaphthene	ug/L	0.30	EPA 8270	0.22	0.21	02/25/15 13:42	03/21/15 02:28	10
Acenaphthylene	ug/L	0.028 u	EPA 8270	0.22	0.028	02/25/15 13:42	03/21/15 02:28	10
Acetophenone	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Anthracene	ug/L	0.30	EPA 8270	0.22	0.047	02/25/15 13:42	03/21/15 02:28	10
Benzo(a)anthracene	ug/L	0.047 u	EPA 8270	0.22	0.025	02/25/15 13:42	03/21/15 02:28	10
Benzo(a)pyrene	ug/L	0.037 u	EPA 8270	0.22	0.037	02/25/15 13:42	03/21/15 02:28	10
Benzo(b)fluoranthene	ug/L	0.032 u	EPA 8270	0.22	0.032	02/25/15 13:42	03/21/15 02:28	10
Benzo(g,h,i)perylene	ug/L	0.10 u	EPA 8270	0.22	0.10	02/25/15 13:42	03/21/15 02:28	10
Benzo(k)fluoranthene	ug/L	0.034 u	EPA 8270	0.22	0.034	02/25/15 13:42	03/21/15 02:28	10
Benzyl alcohol	ug/L	0.7 u	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:55	5
Bis(2-chloroethoxy)methane	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Bis(2-chloroethyl)ether	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Bis(2-chloroisopropyl) ether	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 2**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-31**
 Date/Time Collected **02/24/15 14:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bis(2-ethylhexyl)phthalate	ug/L	3 U	EPA 8270	11	3	02/25/15 13:42	03/19/15 17:55	5
Butyl benzyl phthalate	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:55	5
Chlorobenzilate	ug/L	0.9 U	EPA 8270	11	0.9	02/25/15 13:42	03/19/15 17:55	5
Chrysene	ug/L	0.038 U	EPA 8270	0.22	0.038	02/25/15 13:42	03/21/15 02:28	10
Diallate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Dibenzo(a,h)anthracene	ug/L	0.099 U	EPA 8270	0.22	0.099	02/25/15 13:42	03/21/15 02:28	10
Dibenzofuran	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
Diethyl phthalate	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:55	5
Dimethoate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Dimethylphthalate	ug/L	1 U	EPA 8270	11	1	02/25/15 13:42	03/19/15 17:55	5
Di-n-butyl phthalate	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:55	5
Di-n-octylphthalate	ug/L	0.6 U	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 17:55	5
Diphenylamine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Disulfoton	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
Ethyl Methanesulfonate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Famphur	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:55	5
Fluoranthene	ug/L	0.15 I	EPA 8270	0.22	0.023	02/25/15 13:42	03/21/15 02:28	10
Fluorene	ug/L	0.037 U	EPA 8270	0.22	0.037	02/25/15 13:42	03/21/15 02:28	10
Hexachlorobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Hexachlorobutadiene	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Hexachlorocyclopentadiene	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Hexachloroethane	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Hexachloropropene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Indeno(1,2,3-cd)pyrene	ug/L	0.074 U	EPA 8270	0.22	0.074	02/25/15 13:42	03/21/15 02:28	10
Isodrin	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Isophorone	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
Isosafrole	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Kepone	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Methapyrilene	ug/L	4 U	EPA 8270	11	4	02/25/15 13:42	03/19/15 17:55	5
Methyl Methanesulfonate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Naphthalene	ug/L	0.86	EPA 8270	0.22	0.13	02/25/15 13:42	03/21/15 02:28	10
Nitrobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
N-Nitrosodibutylamine	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
N-Nitrosodiethylamine	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
N-Nitrosodimethylamine	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:55	5

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Leachate 2
 Matrix Other aqueous
 SAL Sample Number 1501766-31
 Date/Time Collected 02/24/15 14:50
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
N-Nitrosodi-n-propylamine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
N-Nitrosodiphenylamine	ug/L	1 U	EPA 8270	3	1	02/25/15 13:42	03/19/15 17:55	5
N-Nitrosomethylethylamine	ug/L	0.8 U	EPA 8270	3	0.8	02/25/15 13:42	03/19/15 17:55	5
N-Nitrosopiperidine	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:55	5
N-Nitrosopyrrolidine	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:55	5
O,O,O-Triethyl phosphorothioate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
o-Toluidine	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:55	5
Parathion	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:55	5
Parathion, methyl	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
p-Dimethylaminoazobenzene	ug/L	0.3 U	EPA 8270**	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Pentachlorobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Pentachloronitrobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 17:55	5
Pentachlorophenol	ug/L	2 U	EPA 8270	11	2	02/25/15 13:42	03/19/15 17:55	5
Phenacetin	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 17:55	5
Phenanthrene	ug/L	0.025 U	EPA 8270	0.22	0.025	02/25/15 13:42	03/21/15 02:28	10
Phenol	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 17:55	5
Phentermine	ug/L	17 U	EPA 8270**	56	17	02/25/15 13:42	03/19/15 17:55	5
Phorate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Pronamide	ug/L	0.3 U	EPA 8270**	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Pyrene	ug/L	0.14 I	EPA 8270	0.22	0.019	02/25/15 13:42	03/21/15 02:28	10
Safrole	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 17:55	5
Thionazin	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 17:55	5
Surrogate for EPA 8270	2,4,6-Tribromophenol	102 %	Limits		10-123			
Surrogate for EPA 8270	2-Fluorobiphenyl	80 %	Limits		43-116			
Surrogate for EPA 8270	2-Fluorophenol	54 %	Limits		21-110			
Surrogate for EPA 8270	Nitrobenzene-d5	82 %	Limits		35-114			
Surrogate for EPA 8270	Phenol-d5	39 %	Limits		0-200			
Surrogate for EPA 8270	Terphenyl-d14	96 %	Limits		33-141			

Inorganics

Ammonia as N	mg/L	140	EPA 350.1	8.0	1.9		02/26/15 14:32	200
Chloride	mg/L	470	EPA 300.0	2.0	0.50		02/25/15 22:27	10
Cyanide	mg/L	0.0048 I	SM 4500CN-E	0.010	0.0025	02/27/15 13:30	03/03/15 15:30	1
Nitrate (as N)	mg/L	0.10 U	EPA 300.0	0.40	0.10		02/25/15 22:27	10
Sulfide	mg/L	0.78	SM 4500SF	0.40	0.10		03/02/15 16:13	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 2**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-31**
 Date/Time Collected **02/24/15 14:50**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Total Alkalinity	mg/L	1,500	SM 2320B	8.0	2.0		03/09/15 15:51	1
Total Dissolved Solids	mg/L	2,000	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
Metals								
Antimony	ug/L	10 U	EPA 6020	500	10	03/09/15 12:31	03/10/15 10:30	10
Arsenic	ug/L	15	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 21:11	1
Barium	ug/L	110	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 21:11	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 21:20	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 21:11	1
Chromium	ug/L	4.1 I	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 21:11	1
Cobalt	ug/L	14 I	EPA 6010	100	10	02/26/15 12:17	03/06/15 21:20	1
Copper	ug/L	0.99	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 21:11	1
Iron	ug/L	15,000	EPA 6010	100	20	02/26/15 12:17	03/06/15 21:20	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 21:11	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:21	1
Nickel	ug/L	18	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 21:11	1
Selenium	ug/L	37 I	EPA 6020	50	9.3	03/09/15 12:31	03/10/15 12:32	10
Silver	ug/L	0.069 U	EPA 6020	0.50	0.069	02/26/15 12:56	03/06/15 21:11	1
Sodium	mg/L	350	EPA 6010	0.50	0.13	02/26/15 12:17	03/06/15 21:20	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 21:11	1
Tin	ug/L	100 U	EPA 6010	500	100	02/26/15 12:17	03/06/15 21:20	1
Vanadium	ug/L	11	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 21:20	1
Zinc	ug/L	15	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 21:11	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 3**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-32**
 Date/Time Collected **02/24/15 14:00**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Brown	DEP SOPs				02/24/15 14:00	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		02/24/15 14:00	1
pH	SU	6.3	DEP FT1100	0.1	0.1		02/24/15 14:00	1
Specific conductance	umhos/cm	1,301	DEP FT1200	0.1	0.1		02/24/15 14:00	1
Water Temperature	°C	24.3	DEP FT1400	0.1	0.1		02/24/15 14:00	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 21:39	5
1,1,1-Trichloroethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
1,1,2-Trichloroethane	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 21:39	5
1,1-Dichloroethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:39	5
1,1-Dichloroethene	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 21:39	5
1,1-Dichloropropene	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:39	5
1,2,3-Trichloropropane	ug/L	1.8 U	EPA 8260	4.0	1.8		03/06/15 21:39	5
1,2-Dichlorobenzene	ug/L	0.7 U	EPA 8260	4.0	0.7		03/06/15 21:39	5
1,2-Dichloroethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:39	5
1,2-Dichloropropane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:39	5
1,3-Dichlorobenzene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 21:39	5
1,3-Dichloropropane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:39	5
1,4-Dichlorobenzene	ug/L	2.6 I	EPA 8260	4.0	0.9		03/06/15 21:39	5
2,2-Dichloropropane	ug/L	1.4 U	EPA 8260	4.0	1.4		03/06/15 21:39	5
2-Butanone	ug/L	10 U	EPA 8260	20	10		03/06/15 21:39	5
2-Hexanone	ug/L	11 U	EPA 8260	20	11		03/06/15 21:39	5
4-Methyl-2-pentanone	ug/L	13 U	EPA 8260	20	13		03/06/15 21:39	5
Acetone	ug/L	14 I,J3	EPA 8260	20	9.8		03/06/15 21:39	5
Acetonitrile	ug/L	11 U	EPA 8260	20	11		03/06/15 21:39	5
Acrolein	ug/L	6.0 U	EPA 8260	20	6.0		03/06/15 21:39	5
Acrylonitrile	ug/L	6.4 U	EPA 8260	20	6.4		03/06/15 21:39	5
Allyl chloride	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 21:39	5
Benzene	ug/L	0.7 I	EPA 8260	4.0	0.6		03/06/15 21:39	5
Bromochloromethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:39	5
Bromodichloromethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
Bromoform	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 21:39	5

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 3**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-32**
 Date/Time Collected **02/24/15 14:00**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bromomethane	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 21:39	5
Carbon disulfide	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
Carbon tetrachloride	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
Chlorobenzene	ug/L	3.5 I	EPA 8260	4.0	0.6		03/06/15 21:39	5
Chloroethane	ug/L	2.1 U	EPA 8260	8.0	2.1		03/06/15 21:39	5
Chloroform	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
Chloromethane	ug/L	2.0 U	EPA 8260	8.0	2.0		03/06/15 21:39	5
Chloroprene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
cis-1,2-Dichloroethene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 21:39	5
cis-1,3-Dichloropropene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
Dibromochloromethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:39	5
Dibromomethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:39	5
Dichlorodifluoromethane	ug/L	2.3 U	EPA 8260	8.0	2.3		03/06/15 21:39	5
Ethyl Methacrylate	ug/L	1.6 U	EPA 8260	4.0	1.6		03/06/15 21:39	5
Ethylbenzene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 21:39	5
Iodomethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:39	5
Isobutyl alcohol	ug/L	68 U	EPA 8260	100	68		03/06/15 21:39	5
Methacrylonitrile	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 21:39	5
Methyl methacrylate	ug/L	1.5 U	EPA 8260	4.0	1.5		03/06/15 21:39	5
Methylene Chloride	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 21:39	5
Propionitrile	ug/L	11 U	EPA 8260	20	11		03/06/15 21:39	5
Styrene	ug/L	0.2 U	EPA 8260	4.0	0.2		03/06/15 21:39	5
Tetrachloroethene	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 21:39	5
Toluene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 21:39	5
trans-1,2-Dichloroethene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
trans-1,3-Dichloropropene	ug/L	0.7 U	EPA 8260	4.0	0.7		03/06/15 21:39	5
trans-1,4-Dichloro-2-butene	ug/L	1.6 U	EPA 8260	4.0	1.6		03/06/15 21:39	5
Trichloroethene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 21:39	5
Trichlorofluoromethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:39	5
Vinyl acetate	ug/L	1.9 U	EPA 8260	8.0	1.9		03/06/15 21:39	5
Vinyl chloride	ug/L	1.5 U	EPA 8260	8.0	1.5		03/06/15 21:39	5
Xylene-m,p	ug/L	1.2 U	EPA 8260	8.0	1.2		03/06/15 21:39	5
Xylene-o	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 21:39	5
Xylenes- Total	ug/L	0.5 U	EPA 8260	4.0	0.5		03/06/15 21:39	5
Surrogate for EPA 8260	1,2-Dichloroethane-d4	99 %	Limits	65-135				

Manatee County Utilities Solid Waste Division
3333 Lena Rd
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March 26, 2015
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 3**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-32**
 Date/Time Collected **02/24/15 14:00**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	100 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	99 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0052 u	EPA 8011	0.021	0.0052	03/05/15 14:10	03/05/15 23:21	1
1,2-Dibromoethane	ug/L	0.0052 u	EPA 8011	0.021	0.0052	03/05/15 14:10	03/05/15 23:21	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	102 %	Limits	85-123				

Organo Chlorine Pesticides

4,4'-DDD	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:58	1
4,4'-DDE	ug/L	0.007 u	EPA 8081	0.043	0.007	02/25/15 14:51	03/10/15 09:58	1
4,4'-DDT	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:58	1
Aldrin	ug/L	0.005 u	EPA 8081	0.043	0.005	02/25/15 14:51	03/10/15 09:58	1
alpha-BHC	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 09:58	1
beta-BHC	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 09:58	1
Chlordane	ug/L	0.053 u	EPA 8081	0.11	0.053	02/25/15 14:51	03/10/15 09:58	1
delta-BHC	ug/L	0.006 u,J5,J6	EPA 8081	0.043	0.006	02/25/15 14:51	03/10/15 09:58	1
Dieldrin	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:58	1
Endosulfan I	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:58	1
Endosulfan II	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 09:58	1
Endosulfan sulfate	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:58	1
Endrin	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 09:58	1
Endrin Aldehyde	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:58	1
Endrin ketone	ug/L	0.006 u	EPA 8081	0.043	0.006	02/25/15 14:51	03/10/15 09:58	1
gamma-BHC	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 09:58	1
Heptachlor	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 09:58	1
Heptachlor epoxide	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 09:58	1
Methoxychlor	ug/L	0.050 u	EPA 8081	0.17	0.050	02/25/15 14:51	03/10/15 09:58	1
Toxaphene	ug/L	0.14 u	EPA 8081	0.53	0.14	02/25/15 14:51	03/10/15 09:58	1
Surrogate for EPA 8081	Decachlorobiphenyl	45 %	Limits	18-158				
Surrogate for EPA 8081	Tetrachloro-meta-xylene	66 %	Limits	24-121				

Chlorinated Herbicides

2,4,5-T	ug/L	2.5 u	EPA 8321	5.0	2.5	03/03/15 09:37	03/05/15 02:44	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 3**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-32**
 Date/Time Collected **02/24/15 14:00**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2,4,5-TP	ug/L	1.4 u	EPA 8321	5.0	1.4	03/03/15 09:37	03/05/15 02:44	1
2,4-D	ug/L	3.2 u	EPA 8321	5.0	3.2	03/03/15 09:37	03/05/15 02:44	1
Dinoseb	ug/L	3.7 u	EPA 8321	5.0	3.7	03/03/15 09:37	03/05/15 02:44	1
Surrogate for EPA 8321	2,4-DCAA		81 %	Limits	13-155			

Polychlorinated Biphenyls (PCBs)

PCB-1016	ug/L	0.070 u	EPA 8082	0.213	0.070	02/25/15 15:52	03/13/15 12:49	1
PCB-1221	ug/L	0.074 u	EPA 8082	0.213	0.074	02/25/15 15:52	03/13/15 12:49	1
PCB-1232	ug/L	0.074 u	EPA 8082	0.213	0.074	02/25/15 15:52	03/13/15 12:49	1
PCB-1242	ug/L	0.070 u	EPA 8082	0.213	0.070	02/25/15 15:52	03/13/15 12:49	1
PCB-1248	ug/L	0.074 u	EPA 8082	0.213	0.074	02/25/15 15:52	03/13/15 12:49	1
PCB-1254	ug/L	0.074 u	EPA 8082	0.213	0.074	02/25/15 15:52	03/13/15 12:49	1
PCB-1260	ug/L	0.068 u	EPA 8082	0.213	0.068	02/25/15 15:52	03/13/15 12:49	1
Surrogate for EPA 8082	Decachlorobiphenyl		45 %	Limits	10-118			
Surrogate for EPA 8082	Tetrachloro-meta-xylene		71 %	Limits	14-111			

Base/Neutral and Acid Extractable Organic Compounds

1,2,4,5-Tetrachlorobenzene	ug/L	0.04 u	EPA 8270	0.5	0.04	02/25/15 13:42	03/18/15 15:06	1
1,2,4-Trichlorobenzene	ug/L	0.05 u	EPA 8270	0.5	0.05	02/25/15 13:42	03/18/15 15:06	1
1,3,5-Trinitrobenzene	ug/L	0.2 u	EPA 8270	2	0.2	02/25/15 13:42	03/18/15 15:06	1
1,3-Dinitrobenzene	ug/L	0.07 u	EPA 8270	0.5	0.07	02/25/15 13:42	03/18/15 15:06	1
1,4-Naphthoquinone	ug/L	0.3 u	EPA 8270	2	0.3	02/25/15 13:42	03/18/15 15:06	1
1,4-Phenylenediamine	ug/L	0.3 u	EPA 8270	5	0.3	02/25/15 13:42	03/18/15 15:06	1
1-Methylnaphthalene	ug/L	0.081 i	EPA 8270	0.21	0.027	02/25/15 13:42	03/21/15 02:59	10
1-Naphthylamine	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
2,3,4,6-Tetrachlorophenol	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
2,4,5-Trichlorophenol	ug/L	0.04 u	EPA 8270	0.5	0.04	02/25/15 13:42	03/18/15 15:06	1
2,4,6-Trichlorophenol	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
2,4-Dichlorophenol	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
2,4-Dimethylphenol	ug/L	0.5 u	EPA 8270	2	0.5	02/25/15 13:42	03/18/15 15:06	1
2,4-Dinitrophenol	ug/L	2 u	EPA 8270	5	2	02/25/15 13:42	03/18/15 15:06	1
2,4-Dinitrotoluene	ug/L	0.05 u	EPA 8270	0.5	0.05	02/25/15 13:42	03/18/15 15:06	1
2,6-Dichlorophenol	ug/L	0.07 u	EPA 8270	0.5	0.07	02/25/15 13:42	03/18/15 15:06	1
2,6-Dinitrotoluene	ug/L	0.08 u	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
2-Acetylaminofluorene	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1

Manatee County Utilities Solid Waste Division
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 3**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-32**
 Date/Time Collected **02/24/15 14:00**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2-Chloronaphthalene	ug/L	0.04 u	EPA 8270	0.5	0.04	02/25/15 13:42	03/18/15 15:06	1
2-Chlorophenol	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
2-Methylnaphthalene	ug/L	0.13 l	EPA 8270	0.21	0.046	02/25/15 13:42	03/21/15 02:59	10
2-Methylphenol	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
2-Naphthylamine	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
2-Nitroaniline	ug/L	0.04 u	EPA 8270	0.5	0.04	02/25/15 13:42	03/18/15 15:06	1
2-Nitrophenol	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
3,3-Dichlorobenzidine	ug/L	0.3 u	EPA 8270	0.5	0.3	02/25/15 13:42	03/18/15 15:06	1
3,3'-Dimethylbenzidine	ug/L	0.3 u	EPA 8270	2	0.3	02/25/15 13:42	03/18/15 15:06	1
3/4-Methylphenol	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
3-Methylcholanthrene	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
3-Nitroaniline	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
4,6-Dinitro-2-methylphenol	ug/L	0.2 u	EPA 8270	2	0.2	02/25/15 13:42	03/18/15 15:06	1
4-Aminobiphenyl	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
4-Bromophenyl phenyl ether	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
4-Chloro-3-methylphenol	ug/L	0.05 u	EPA 8270	0.5	0.05	02/25/15 13:42	03/18/15 15:06	1
4-Chloroaniline	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
4-Chlorophenyl phenyl ether	ug/L	0.07 u	EPA 8270	0.5	0.07	02/25/15 13:42	03/18/15 15:06	1
4-Nitroaniline	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
4-Nitrophenol	ug/L	0.1 u	EPA 8270	2	0.1	02/25/15 13:42	03/18/15 15:06	1
5-Nitro-o-toluidine	ug/L	0.04 u	EPA 8270	0.5	0.04	02/25/15 13:42	03/18/15 15:06	1
7,12-Dimethylbenz(a)anthracene	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
Acenaphthene	ug/L	0.20 u	EPA 8270	0.21	0.20	02/25/15 13:42	03/21/15 02:59	10
Acenaphthylene	ug/L	0.027 u	EPA 8270	0.21	0.027	02/25/15 13:42	03/21/15 02:59	10
Acetophenone	ug/L	0.05 u	EPA 8270	0.5	0.05	02/25/15 13:42	03/18/15 15:06	1
Anthracene	ug/L	0.045 u	EPA 8270	0.21	0.045	02/25/15 13:42	03/21/15 02:59	10
Benzo(a)anthracene	ug/L	0.023 u	EPA 8270	0.21	0.023	02/25/15 13:42	03/21/15 02:59	10
Benzo(a)pyrene	ug/L	0.035 u	EPA 8270	0.21	0.035	02/25/15 13:42	03/21/15 02:59	10
Benzo(b)fluoranthene	ug/L	0.031 u	EPA 8270	0.21	0.031	02/25/15 13:42	03/21/15 02:59	10
Benzo(g,h,i)perylene	ug/L	0.098 u	EPA 8270	0.21	0.098	02/25/15 13:42	03/21/15 02:59	10
Benzo(k)fluoranthene	ug/L	0.032 u	EPA 8270	0.21	0.032	02/25/15 13:42	03/21/15 02:59	10
Benzyl alcohol	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
Bis(2-chloroethoxy)methane	ug/L	0.07 u	EPA 8270	0.5	0.07	02/25/15 13:42	03/18/15 15:06	1
Bis(2-chloroethyl)ether	ug/L	0.07 u	EPA 8270	0.5	0.07	02/25/15 13:42	03/18/15 15:06	1
Bis(2-chloroisopropyl) ether	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1

Manatee County Utilities Solid Waste Division
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Laboratory Report

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 Matrix **Other aqueous**
 SAL Sample Number **1501766-32**
 Date/Time Collected **02/24/15 14:00**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bis(2-ethylhexyl)phthalate	ug/L	0.6 U	EPA 8270	2	0.6	02/25/15 13:42	03/18/15 15:06	1
Butyl benzyl phthalate	ug/L	0.1 U	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
Chlorobenzilate	ug/L	0.2 U	EPA 8270	2	0.2	02/25/15 13:42	03/18/15 15:06	1
Chrysene	ug/L	0.036 U	EPA 8270	0.21	0.036	02/25/15 13:42	03/21/15 02:59	10
Diallate	ug/L	0.08 U	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
Dibenzo(a,h)anthracene	ug/L	0.095 U	EPA 8270	0.21	0.095	02/25/15 13:42	03/21/15 02:59	10
Dibenzofuran	ug/L	0.04 U	EPA 8270	0.5	0.04	02/25/15 13:42	03/18/15 15:06	1
Diethyl phthalate	ug/L	0.2 I	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
Dimethoate	ug/L	0.06 U	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
Dimethylphthalate	ug/L	0.2 U	EPA 8270	2	0.2	02/25/15 13:42	03/18/15 15:06	1
Di-n-butyl phthalate	ug/L	0.1 I,V	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
Di-n-octylphthalate	ug/L	0.1 U	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
Diphenylamine	ug/L	0.09 U	EPA 8270	0.5	0.09	02/25/15 13:42	03/18/15 15:06	1
Disulfoton	ug/L	0.04 U	EPA 8270	0.5	0.04	02/25/15 13:42	03/18/15 15:06	1
Ethyl Methanesulfonate	ug/L	0.08 U	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
Famphur	ug/L	0.09 U	EPA 8270	0.5	0.09	02/25/15 13:42	03/18/15 15:06	1
Fluoranthene	ug/L	0.022 U	EPA 8270	0.21	0.022	02/25/15 13:42	03/21/15 02:59	10
Fluorene	ug/L	0.054 I	EPA 8270	0.21	0.035	02/25/15 13:42	03/21/15 02:59	10
Hexachlorobenzene	ug/L	0.08 U	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
Hexachlorobutadiene	ug/L	0.05 U	EPA 8270	0.5	0.05	02/25/15 13:42	03/18/15 15:06	1
Hexachlorocyclopentadiene	ug/L	0.05 U	EPA 8270	0.5	0.05	02/25/15 13:42	03/18/15 15:06	1
Hexachloroethane	ug/L	0.08 U	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
Hexachloropropene	ug/L	0.08 U	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
Indeno(1,2,3-cd)pyrene	ug/L	0.070 U	EPA 8270	0.21	0.070	02/25/15 13:42	03/21/15 02:59	10
Isodrin	ug/L	0.07 U	EPA 8270	0.5	0.07	02/25/15 13:42	03/18/15 15:06	1
Isophorone	ug/L	0.05 U	EPA 8270	0.5	0.05	02/25/15 13:42	03/18/15 15:06	1
Isosafrole	ug/L	0.06 U	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
Kepone	ug/L	0.08 U	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
Methapyrilene	ug/L	0.8 U	EPA 8270	2	0.8	02/25/15 13:42	03/18/15 15:06	1
Methyl Methanesulfonate	ug/L	0.06 U	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
Naphthalene	ug/L	0.47	EPA 8270	0.21	0.13	02/25/15 13:42	03/21/15 02:59	10
Nitrobenzene	ug/L	0.08 U	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
N-Nitrosodibutylamine	ug/L	0.06 U	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
N-Nitrosodiethylamine	ug/L	0.06 U	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
N-Nitrosodimethylamine	ug/L	0.09 U	EPA 8270	0.5	0.09	02/25/15 13:42	03/18/15 15:06	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 3**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-32**
 Date/Time Collected **02/24/15 14:00**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
N-Nitrosodi-n-propylamine	ug/L	0.07 u	EPA 8270	0.5	0.07	02/25/15 13:42	03/18/15 15:06	1
N-Nitrosodiphenylamine	ug/L	0.2 u	EPA 8270	0.5	0.2	02/25/15 13:42	03/18/15 15:06	1
N-Nitrosomethylethylamine	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
N-Nitrosopiperidine	ug/L	0.09 u	EPA 8270	0.5	0.09	02/25/15 13:42	03/18/15 15:06	1
N-Nitrosopyrrolidine	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
O,O,O-Triethyl phosphorothioate	ug/L	0.09 u	EPA 8270	0.5	0.09	02/25/15 13:42	03/18/15 15:06	1
o-Toluidine	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
Parathion	ug/L	0.09 u	EPA 8270	0.5	0.09	02/25/15 13:42	03/18/15 15:06	1
Parathion,methyl	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
p-Dimethylaminoazobenzene	ug/L	0.06 u	EPA 8270**	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
Pentachlorobenzene	ug/L	0.07 u	EPA 8270	0.5	0.07	02/25/15 13:42	03/18/15 15:06	1
Pentachloronitrobenzene	ug/L	0.08 u	EPA 8270	0.5	0.08	02/25/15 13:42	03/18/15 15:06	1
Pentachlorophenol	ug/L	0.4 u	EPA 8270	2	0.4	02/25/15 13:42	03/18/15 15:06	1
Phenacetin	ug/L	0.1 u	EPA 8270	0.5	0.1	02/25/15 13:42	03/18/15 15:06	1
Phenanthrene	ug/L	0.023 u	EPA 8270	0.21	0.023	02/25/15 13:42	03/21/15 02:59	10
Phenol	ug/L	0.7	EPA 8270	0.5	0.05	02/25/15 13:42	03/18/15 15:06	1
Phentermine	ug/L	3 u	EPA 8270**	11	3	02/25/15 13:42	03/18/15 15:06	1
Phorate	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
Pronamide	ug/L	0.06 u	EPA 8270**	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
Pyrene	ug/L	0.018 u	EPA 8270	0.21	0.018	02/25/15 13:42	03/21/15 02:59	10
Safrole	ug/L	0.06 u	EPA 8270	0.5	0.06	02/25/15 13:42	03/18/15 15:06	1
Thionazin	ug/L	0.09 u	EPA 8270	0.5	0.09	02/25/15 13:42	03/18/15 15:06	1
Surrogate for EPA 8270	2,4,6-Tribromophenol	97 %	Limits	10-123				
Surrogate for EPA 8270	2-Fluorobiphenyl	81 %	Limits	43-116				
Surrogate for EPA 8270	2-Fluorophenol	49 %	Limits	21-110				
Surrogate for EPA 8270	Nitrobenzene-d5	84 %	Limits	35-114				
Surrogate for EPA 8270	Phenol-d5	32 %	Limits	0-200				
Surrogate for EPA 8270	Terphenyl-d14	104 %	Limits	33-141				

Inorganics

Ammonia as N	mg/L	22	EPA 350.1	8.0	1.9	02/26/15 14:32	200	
Chloride	mg/L	49	EPA 300.0	0.20	0.050	02/25/15 22:38	1	
Cyanide	mg/L	0.0025 U	SM 4500CN-E	0.010	0.0025	02/27/15 13:30	03/03/15 15:30	1
Nitrate (as N)	mg/L	0.01 U	EPA 300.0	0.04	0.01	02/25/15 22:38	1	
Sulfide	mg/L	0.37 I	SM 4500SF	0.40	0.10	03/02/15 16:13	1	

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Leachate 3**
 Matrix **Other aqueous**
 SAL Sample Number **1501766-32**
 Date/Time Collected **02/24/15 14:00**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Total Alkalinity	mg/L	620	SM 2320B	8.0	2.0		03/09/15 15:56	1
Total Dissolved Solids	mg/L	700	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
<u>Metals</u>								
Antimony	ug/L	10 U	EPA 6020	500	10	03/09/15 12:31	03/10/15 10:33	10
Arsenic	ug/L	8.8	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 21:16	1
Barium	ug/L	36	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 21:16	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 21:23	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 21:16	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 21:16	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:17	03/06/15 21:23	1
Copper	ug/L	0.32 I	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 21:16	1
Iron	ug/L	15,000	EPA 6010	100	20	02/26/15 12:17	03/06/15 21:23	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 21:16	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:22	1
Nickel	ug/L	5.7	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 21:16	1
Selenium	ug/L	7.0	EPA 6020	5.0	0.93	03/09/15 12:31	03/10/15 11:40	1
Silver	ug/L	0.069 U	EPA 6020	0.50	0.069	02/26/15 12:56	03/06/15 21:16	1
Sodium	mg/L	44	EPA 6010	0.50	0.13	02/26/15 12:17	03/06/15 21:23	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 21:16	1
Tin	ug/L	100 U	EPA 6010	500	100	02/26/15 12:17	03/06/15 21:23	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 21:23	1
Zinc	ug/L	5.0	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 21:16	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Leachate 1 Duplicate
Matrix	Other aqueous
SAL Sample Number	1501766-33
Date/Time Collected	02/24/15 12:55
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Brown	DEP SOPs				02/24/15 12:55	1
Dissolved Oxygen	mg/L	0.1	DEP FT1500	0.1	0.1		02/24/15 12:55	1
pH	SU	6.8	DEP FT1100	0.1	0.1		02/24/15 12:55	1
Specific conductance	umhos/cm	5,777	DEP FT1200	0.1	0.1		02/24/15 12:55	1
Water Temperature	°C	26.7	DEP FT1400	0.1	0.1		02/24/15 12:55	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 22:11	5
1,1,1-Trichloroethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
1,1,2-Trichloroethane	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 22:11	5
1,1-Dichloroethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 22:11	5
1,1-Dichloroethene	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 22:11	5
1,1-Dichloropropene	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 22:11	5
1,2,3-Trichloropropane	ug/L	1.8 U	EPA 8260	4.0	1.8		03/06/15 22:11	5
1,2-Dichlorobenzene	ug/L	0.7 U	EPA 8260	4.0	0.7		03/06/15 22:11	5
1,2-Dichloroethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 22:11	5
1,2-Dichloropropane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 22:11	5
1,3-Dichlorobenzene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 22:11	5
1,3-Dichloropropane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 22:11	5
1,4-Dichlorobenzene	ug/L	3.4 I	EPA 8260	4.0	0.9		03/06/15 22:11	5
2,2-Dichloropropane	ug/L	1.4 U	EPA 8260	4.0	1.4		03/06/15 22:11	5
2-Butanone	ug/L	10 U	EPA 8260	20	10		03/06/15 22:11	5
2-Hexanone	ug/L	11 U	EPA 8260	20	11		03/06/15 22:11	5
4-Methyl-2-pentanone	ug/L	13 U	EPA 8260	20	13		03/06/15 22:11	5
Acetone	ug/L	18 I,J3	EPA 8260	20	9.8		03/06/15 22:11	5
Acetonitrile	ug/L	11 U	EPA 8260	20	11		03/06/15 22:11	5
Acrolein	ug/L	6.0 U	EPA 8260	20	6.0		03/06/15 22:11	5
Acrylonitrile	ug/L	6.4 U	EPA 8260	20	6.4		03/06/15 22:11	5
Allyl chloride	ug/L	1.2 U	EPA 8260	4.0	1.2		03/06/15 22:11	5
Benzene	ug/L	4.8	EPA 8260	4.0	0.6		03/06/15 22:11	5
Bromochloromethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 22:11	5
Bromodichloromethane	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
Bromoform	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 22:11	5

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Leachate 1 Duplicate
Matrix	Other aqueous
SAL Sample Number	1501766-33
Date/Time Collected	02/24/15 12:55
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bromomethane	ug/L	2.1 U	EPA 8260	4.0	2.1		03/06/15 22:11	5
Carbon disulfide	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
Carbon tetrachloride	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
Chlorobenzene	ug/L	6.0	EPA 8260	4.0	0.6		03/06/15 22:11	5
Chloroethane	ug/L	2.1 U	EPA 8260	8.0	2.1		03/06/15 22:11	5
Chloroform	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
Chloromethane	ug/L	2.0 U	EPA 8260	8.0	2.0		03/06/15 22:11	5
Chloroprene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
cis-1,2-Dichloroethene	ug/L	0.4 U	EPA 8260	4.0	0.4		03/06/15 22:11	5
cis-1,3-Dichloropropene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
Dibromochloromethane	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 22:11	5
Dibromomethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 22:11	5
Dichlorodifluoromethane	ug/L	2.3 U	EPA 8260	8.0	2.3		03/06/15 22:11	5
Ethyl Methacrylate	ug/L	1.6 U	EPA 8260	4.0	1.6		03/06/15 22:11	5
Ethylbenzene	ug/L	2.4 I	EPA 8260	4.0	0.4		03/06/15 22:11	5
Iodomethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 22:11	5
Isobutyl alcohol	ug/L	68 U	EPA 8260	100	68		03/06/15 22:11	5
Methacrylonitrile	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 22:11	5
Methyl methacrylate	ug/L	1.5 U	EPA 8260	4.0	1.5		03/06/15 22:11	5
Methylene Chloride	ug/L	0.9 U	EPA 8260	4.0	0.9		03/06/15 22:11	5
Propionitrile	ug/L	11 U	EPA 8260	20	11		03/06/15 22:11	5
Styrene	ug/L	0.2 U	EPA 8260	4.0	0.2		03/06/15 22:11	5
Tetrachloroethene	ug/L	0.6 U	EPA 8260	4.0	0.6		03/06/15 22:11	5
Toluene	ug/L	1.7 I	EPA 8260	4.0	0.4		03/06/15 22:11	5
trans-1,2-Dichloroethene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
trans-1,3-Dichloropropene	ug/L	0.7 U	EPA 8260	4.0	0.7		03/06/15 22:11	5
trans-1,4-Dichloro-2-butene	ug/L	1.6 U	EPA 8260	4.0	1.6		03/06/15 22:11	5
Trichloroethene	ug/L	1.0 U	EPA 8260	4.0	1.0		03/06/15 22:11	5
Trichlorofluoromethane	ug/L	0.8 U	EPA 8260	4.0	0.8		03/06/15 22:11	5
Vinyl acetate	ug/L	1.9 U	EPA 8260	8.0	1.9		03/06/15 22:11	5
Vinyl chloride	ug/L	1.5 U	EPA 8260	8.0	1.5		03/06/15 22:11	5
Xylene-m,p	ug/L	5.0 I	EPA 8260	8.0	1.2		03/06/15 22:11	5
Xylene-o	ug/L	1.8 I	EPA 8260	4.0	0.8		03/06/15 22:11	5
Xylenes- Total	ug/L	6.8	EPA 8260	4.0	0.5		03/06/15 22:11	5
Surrogate for EPA 8260	1,2-Dichloroethane-d4	101 %	Limits	65-135				

Manatee County Utilities Solid Waste Division
3333 Lena Rd
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March 26, 2015
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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Leachate 1 Duplicate
Matrix	Other aqueous
SAL Sample Number	1501766-33
Date/Time Collected	02/24/15 12:55
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Surrogate for EPA 8260	4-Bromofluorobenzene	98 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	100 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	102 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0052 u	EPA 8011	0.021	0.0052	03/05/15 14:10	03/06/15 00:27	1
1,2-Dibromoethane	ug/L	0.0052 u	EPA 8011	0.021	0.0052	03/05/15 14:10	03/06/15 00:27	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	87 %	Limits	85-123				

Organo Chlorine Pesticides

4,4'-DDD	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:15	1
4,4'-DDE	ug/L	0.007 u	EPA 8081	0.043	0.007	02/25/15 14:51	03/10/15 10:15	1
4,4'-DDT	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:15	1
Aldrin	ug/L	0.005 u	EPA 8081	0.043	0.005	02/25/15 14:51	03/10/15 10:15	1
alpha-BHC	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 10:15	1
beta-BHC	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 10:15	1
Chlordane	ug/L	0.053 u	EPA 8081	0.11	0.053	02/25/15 14:51	03/10/15 10:15	1
delta-BHC	ug/L	0.006 u	EPA 8081	0.043	0.006	02/25/15 14:51	03/10/15 10:15	1
Dieldrin	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:15	1
Endosulfan I	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:15	1
Endosulfan II	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 10:15	1
Endosulfan sulfate	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:15	1
Endrin	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 10:15	1
Endrin Aldehyde	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:15	1
Endrin ketone	ug/L	0.006 u	EPA 8081	0.043	0.006	02/25/15 14:51	03/10/15 10:15	1
gamma-BHC	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 10:15	1
Heptachlor	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 10:15	1
Heptachlor epoxide	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:15	1
Methoxychlor	ug/L	0.050 u	EPA 8081	0.17	0.050	02/25/15 14:51	03/10/15 10:15	1
Toxaphene	ug/L	0.14 u	EPA 8081	0.53	0.14	02/25/15 14:51	03/10/15 10:15	1
Surrogate for EPA 8081	Decachlorobiphenyl	50 %	Limits	18-158				
Surrogate for EPA 8081	Tetrachloro-meta-xylene	60 %	Limits	24-121				

Chlorinated Herbicides

2,4,5-T	ug/L	2.5 u	EPA 8321	5.0	2.5	03/03/15 09:37	03/05/15 03:30	1
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Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Leachate 1 Duplicate
 Matrix Other aqueous
 SAL Sample Number 1501766-33
 Date/Time Collected 02/24/15 12:55
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2,4,5-TP	ug/L	1.4 u	EPA 8321	5.0	1.4	03/03/15 09:37	03/05/15 03:30	1
2,4-D	ug/L	3.2 u	EPA 8321	5.0	3.2	03/03/15 09:37	03/05/15 03:30	1
Dinoseb	ug/L	3.7 u	EPA 8321	5.0	3.7	03/03/15 09:37	03/05/15 03:30	1
Surrogate for EPA 8321	2,4-DCAA	103 %	Limits	13-155				

Polychlorinated Biphenyls (PCBs)

PCB-1016	ug/L	0.071 u	EPA 8082	0.214	0.071	02/25/15 15:52	03/13/15 13:05	1
PCB-1221	ug/L	0.075 u	EPA 8082	0.214	0.075	02/25/15 15:52	03/13/15 13:05	1
PCB-1232	ug/L	0.075 u	EPA 8082	0.214	0.075	02/25/15 15:52	03/13/15 13:05	1
PCB-1242	ug/L	0.071 u	EPA 8082	0.214	0.071	02/25/15 15:52	03/13/15 13:05	1
PCB-1248	ug/L	0.075 u	EPA 8082	0.214	0.075	02/25/15 15:52	03/13/15 13:05	1
PCB-1254	ug/L	0.075 u	EPA 8082	0.214	0.075	02/25/15 15:52	03/13/15 13:05	1
PCB-1260	ug/L	0.068 u	EPA 8082	0.214	0.068	02/25/15 15:52	03/13/15 13:05	1
Surrogate for EPA 8082	Decachlorobiphenyl	49 %	Limits	10-118				
Surrogate for EPA 8082	Tetrachloro-meta-xylene	79 %	Limits	14-111				

Base/Neutral and Acid Extractable Organic Compounds

1,2,4,5-Tetrachlorobenzene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
1,2,4-Trichlorobenzene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
1,3,5-Trinitrobenzene	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 18:26	5
1,3-Dinitrobenzene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
1,4-Naphthoquinone	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 18:26	5
1,4-Phenylenediamine	ug/L	1 u	EPA 8270	27	1	02/25/15 13:42	03/19/15 18:26	5
1-Methylnaphthalene	ug/L	0.97	EPA 8270	0.22	0.027	02/25/15 13:42	03/21/15 03:30	10
1-Naphthylamine	ug/L	0.7 u	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 18:26	5
2,3,4,6-Tetrachlorophenol	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 18:26	5
2,4,5-Trichlorophenol	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
2,4,6-Trichlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
2,4-Dichlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
2,4-Dimethylphenol	ug/L	2 u	EPA 8270	11	2	02/25/15 13:42	03/19/15 18:26	5
2,4-Dinitrophenol	ug/L	11 u	EPA 8270	27	11	02/25/15 13:42	03/19/15 18:26	5
2,4-Dinitrotoluene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
2,6-Dichlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
2,6-Dinitrotoluene	ug/L	0.4 u	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
2-Acetylaminofluorene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Leachate 1 Duplicate
Matrix	Other aqueous
SAL Sample Number	1501766-33
Date/Time Collected	02/24/15 12:55
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2-Chloronaphthalene	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
2-Chlorophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
2-Methylnaphthalene	ug/L	1.2	EPA 8270	0.22	0.046	02/25/15 13:42	03/21/15 03:30	10
2-Methylphenol	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 18:26	5
2-Naphthylamine	ug/L	0.8 u	EPA 8270	3	0.8	02/25/15 13:42	03/19/15 18:26	5
2-Nitroaniline	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
2-Nitrophenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
3,3-Dichlorobenzidine	ug/L	1 u	EPA 8270	3	1	02/25/15 13:42	03/19/15 18:26	5
3,3'-Dimethylbenzidine	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 18:26	5
3/4-Methylphenol	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 18:26	5
3-Methylcholanthrene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
3-Nitroaniline	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 18:26	5
4,6-Dinitro-2-methylphenol	ug/L	1 u	EPA 8270	11	1	02/25/15 13:42	03/19/15 18:26	5
4-Aminobiphenyl	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 18:26	5
4-Bromophenyl phenyl ether	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 18:26	5
4-Chloro-3-methylphenol	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
4-Chloroaniline	ug/L	0.6 u	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 18:26	5
4-Chlorophenyl phenyl ether	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
4-Nitroaniline	ug/L	0.5 u	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 18:26	5
4-Nitrophenol	ug/L	0.5 u	EPA 8270	11	0.5	02/25/15 13:42	03/19/15 18:26	5
5-Nitro-o-toluidine	ug/L	0.2 u	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
7,12-Dimethylbenz(a)anthracene	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Acenaphthene	ug/L	0.30	EPA 8270	0.22	0.20	02/25/15 13:42	03/21/15 03:30	10
Acenaphthylene	ug/L	0.027 u	EPA 8270	0.22	0.027	02/25/15 13:42	03/21/15 03:30	10
Acetophenone	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Anthracene	ug/L	0.58	EPA 8270	0.22	0.045	02/25/15 13:42	03/21/15 03:30	10
Benzo(a)anthracene	ug/L	0.024 u	EPA 8270	0.22	0.024	02/25/15 13:42	03/21/15 03:30	10
Benzo(a)pyrene	ug/L	0.035 u	EPA 8270	0.22	0.035	02/25/15 13:42	03/21/15 03:30	10
Benzo(b)fluoranthene	ug/L	0.031 u	EPA 8270	0.22	0.031	02/25/15 13:42	03/21/15 03:30	10
Benzo(g,h,i)perylene	ug/L	0.099 u	EPA 8270	0.22	0.099	02/25/15 13:42	03/21/15 03:30	10
Benzo(k)fluoranthene	ug/L	0.032 u	EPA 8270	0.22	0.032	02/25/15 13:42	03/21/15 03:30	10
Benzyl alcohol	ug/L	0.7 u	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 18:26	5
Bis(2-chloroethoxy)methane	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Bis(2-chloroethyl)ether	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Bis(2-chloroisopropyl) ether	ug/L	0.3 u	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Leachate 1 Duplicate
 Matrix Other aqueous
 SAL Sample Number 1501766-33
 Date/Time Collected 02/24/15 12:55
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bis(2-ethylhexyl)phthalate	ug/L	3 U	EPA 8270	11	3	02/25/15 13:42	03/19/15 18:26	5
Butyl benzyl phthalate	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 18:26	5
Chlorobenzilate	ug/L	0.9 U	EPA 8270	11	0.9	02/25/15 13:42	03/19/15 18:26	5
Chrysene	ug/L	0.037 U	EPA 8270	0.22	0.037	02/25/15 13:42	03/21/15 03:30	10
Diallate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Dibenzo(a,h)anthracene	ug/L	0.096 U	EPA 8270	0.22	0.096	02/25/15 13:42	03/21/15 03:30	10
Dibenzofuran	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
Diethyl phthalate	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 18:26	5
Dimethoate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Dimethylphthalate	ug/L	1 U	EPA 8270	11	1	02/25/15 13:42	03/19/15 18:26	5
Di-n-butyl phthalate	ug/L	0.6 U	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 18:26	5
Di-n-octylphthalate	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 18:26	5
Diphenylamine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Disulfoton	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
Ethyl Methanesulfonate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Famphur	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 18:26	5
Fluoranthene	ug/L	0.023 U	EPA 8270	0.22	0.023	02/25/15 13:42	03/21/15 03:30	10
Fluorene	ug/L	0.035 U	EPA 8270	0.22	0.035	02/25/15 13:42	03/21/15 03:30	10
Hexachlorobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Hexachlorobutadiene	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
Hexachlorocyclopentadiene	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
Hexachloroethane	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Hexachloropropene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Indeno(1,2,3-cd)pyrene	ug/L	0.071 U	EPA 8270	0.22	0.071	02/25/15 13:42	03/21/15 03:30	10
Isodrin	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Isophorone	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
Isosafrole	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Kepone	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Methapyrilene	ug/L	4 U	EPA 8270	11	4	02/25/15 13:42	03/19/15 18:26	5
Methyl Methanesulfonate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Naphthalene	ug/L	3.6	EPA 8270	0.22	0.13	02/25/15 13:42	03/21/15 03:30	10
Nitrobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
N-Nitrosodibutylamine	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
N-Nitrosodiethylamine	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
N-Nitrosodimethylamine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5

Florida Certification Number: E84129

NELAP Accredited

Francis I. Daniels, Laboratory Director

Leslie C. Boardman, Q.A. Manager

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Leachate 1 Duplicate
Matrix	Other aqueous
SAL Sample Number	1501766-33
Date/Time Collected	02/24/15 12:55
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
N-Nitrosodi-n-propylamine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
N-Nitrosodiphenylamine	ug/L	1 U	EPA 8270	3	1	02/25/15 13:42	03/19/15 18:26	5
N-Nitrosomethylethylamine	ug/L	0.8 U	EPA 8270	3	0.8	02/25/15 13:42	03/19/15 18:26	5
N-Nitrosopiperidine	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
N-Nitrosopyrrolidine	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 18:26	5
O,O,O-Triethyl phosphorothioate	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
o-Toluidine	ug/L	0.7 U	EPA 8270	3	0.7	02/25/15 13:42	03/19/15 18:26	5
Parathion	ug/L	0.5 U	EPA 8270	3	0.5	02/25/15 13:42	03/19/15 18:26	5
Parathion,methyl	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
p-Dimethylaminoazobenzene	ug/L	0.3 U	EPA 8270**	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Pentachlorobenzene	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Pentachloronitrobenzene	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Pentachlorophenol	ug/L	2 U	EPA 8270	11	2	02/25/15 13:42	03/19/15 18:26	5
Phenacetin	ug/L	0.6 U	EPA 8270	3	0.6	02/25/15 13:42	03/19/15 18:26	5
Phenanthrene	ug/L	0.024 U	EPA 8270	0.22	0.024	02/25/15 13:42	03/21/15 03:30	10
Phenol	ug/L	0.2 U	EPA 8270	3	0.2	02/25/15 13:42	03/19/15 18:26	5
Phentermine	ug/L	17 U	EPA 8270**	54	17	02/25/15 13:42	03/19/15 18:26	5
Phorate	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Pronamide	ug/L	0.3 U	EPA 8270**	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Pyrene	ug/L	0.018 U	EPA 8270	0.22	0.018	02/25/15 13:42	03/21/15 03:30	10
Safrole	ug/L	0.3 U	EPA 8270	3	0.3	02/25/15 13:42	03/19/15 18:26	5
Thionazin	ug/L	0.4 U	EPA 8270	3	0.4	02/25/15 13:42	03/19/15 18:26	5
Surrogate for EPA 8270	2,4,6-Tribromophenol	95 %	Limits		10-123			
Surrogate for EPA 8270	2-Fluorobiphenyl	55 %	Limits		43-116			
Surrogate for EPA 8270	2-Fluorophenol	53 %	Limits		21-110			
Surrogate for EPA 8270	Nitrobenzene-d5	94 %	Limits		35-114			
Surrogate for EPA 8270	Phenol-d5	39 %	Limits		0-200			
Surrogate for EPA 8270	Terphenyl-d14	93 %	Limits		33-141			

Inorganics

Ammonia as N	mg/L	250	EPA 350.1	8.0	1.9		02/26/15 14:32	200
Chloride	mg/L	570	EPA 300.0	2.0	0.50		02/25/15 22:49	10
Cyanide	mg/L	0.0043 I	SM 4500CN-E	0.010	0.0025	02/27/15 13:30	03/03/15 15:30	1
Nitrate (as N)	mg/L	0.47	EPA 300.0	0.40	0.10		02/25/15 22:49	10
Sulfide	mg/L	0.66	SM 4500SF	0.40	0.10		03/02/15 16:13	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Leachate 1 Duplicate
Matrix	Other aqueous
SAL Sample Number	1501766-33
Date/Time Collected	02/24/15 12:55
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Total Alkalinity	mg/L	2,100	SM 2320B	8.0	2.0		03/09/15 16:03	1
Total Dissolved Solids	mg/L	2,600	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
<u>Metals</u>								
Antimony	ug/L	10 U	EPA 6020	500	10	03/09/15 12:31	03/10/15 10:35	10
Arsenic	ug/L	17	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 21:39	1
Barium	ug/L	140	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 21:39	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 21:26	1
Cadmium	ug/L	0.36 I	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 21:39	1
Chromium	ug/L	11	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 21:39	1
Cobalt	ug/L	18 I	EPA 6010	100	10	02/26/15 12:17	03/06/15 21:26	1
Copper	ug/L	2.9	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 21:39	1
Iron	ug/L	11,000	EPA 6010	100	20	02/26/15 12:17	03/06/15 21:26	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 21:39	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:24	1
Nickel	ug/L	24	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 21:39	1
Selenium	ug/L	44 I	EPA 6020	50	9.3	03/09/15 12:31	03/10/15 12:35	10
Silver	ug/L	0.098 I	EPA 6020	0.50	0.069	02/26/15 12:56	03/06/15 21:39	1
Sodium	mg/L	470	EPA 6010	0.50	0.13	02/26/15 12:17	03/06/15 21:26	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 21:39	1
Tin	ug/L	100 U	EPA 6010	500	100	02/26/15 12:17	03/06/15 21:26	1
Vanadium	ug/L	30	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 21:26	1
Zinc	ug/L	7.6	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 21:39	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Field Blank 3
Matrix	Reagent Water
SAL Sample Number	1501766-34
Date/Time Collected	02/24/15 12:30
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Brown	DEP SOPs				02/24/15 12:30	1
Dissolved Oxygen	mg/L	4.2	DEP FT1500	0.1	0.1		02/24/15 12:30	1
pH	SU	7.4	DEP FT1100	0.1	0.1		02/24/15 12:30	1
Specific conductance	umhos/cm	20	DEP FT1200	0.1	0.1		02/24/15 12:30	1
Water Temperature	°C	24.1	DEP FT1400	0.1	0.1		02/24/15 12:30	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
1,1-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		03/06/15 16:56	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:56	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:56	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
1,3-Dichlorobenzene	ug/L	0.07 u	EPA 8260	0.8	0.07		03/06/15 16:56	1
1,3-Dichloropropane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:56	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
2,2-Dichloropropane	ug/L	0.3 u	EPA 8260	0.8	0.3		03/06/15 16:56	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		03/06/15 16:56	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 16:56	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		03/06/15 16:56	1
Acetone	ug/L	2.0 u, J3	EPA 8260	4.0	2.0		03/06/15 16:56	1
Acetonitrile	ug/L	2.1 u	EPA 8260	4.0	2.1		03/06/15 16:56	1
Acrolein	ug/L	1.2 u	EPA 8260	4.0	1.2		03/06/15 16:56	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		03/06/15 16:56	1
Allyl chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:56	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		03/06/15 16:56	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		03/06/15 16:56	1
Bromoform	ug/L	0.4 u	EPA 8260	0.8	0.2		03/06/15 16:56	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank 3**
 Matrix **Reagent Water**
 SAL Sample Number **1501766-34**
 Date/Time Collected **02/24/15 12:30**
 Collected by **Ian Gerald**
 Date/Time Received **02/24/15 18:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		03/06/15 16:56	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 16:56	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 16:56	1
Chloroform	ug/L	0.4 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 16:56	1
Chloroprene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		03/06/15 16:56	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 16:56	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Dichlorodifluoromethane	ug/L	0.5 U	EPA 8260	1.6	0.5		03/06/15 16:56	1
Ethyl Methacrylate	ug/L	0.3 U	EPA 8260	0.8	0.3		03/06/15 16:56	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		03/06/15 16:56	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Isobutyl alcohol	ug/L	14 U	EPA 8260	20	14		03/06/15 16:56	1
Methacrylonitrile	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Methyl methacrylate	ug/L	0.3 U	EPA 8260	0.8	0.3		03/06/15 16:56	1
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Propionitrile	ug/L	2.2 U	EPA 8260	4.0	2.2		03/06/15 16:56	1
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05		03/06/15 16:56	1
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 16:56	1
Toluene	ug/L	0.1 U	EPA 8260	0.8	0.09		03/06/15 16:56	1
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 16:56	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		03/06/15 16:56	1
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4		03/06/15 16:56	1
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3		03/06/15 16:56	1
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2		03/06/15 16:56	1
Xylene-o	ug/L	0.2 U	EPA 8260	0.8	0.2		03/06/15 16:56	1
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		03/06/15 16:56	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	97 %	Limits	65-135				

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Field Blank 3
 Matrix Reagent Water
 SAL Sample Number 1501766-34
 Date/Time Collected 02/24/15 12:30
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Surrogate for EPA 8260	4-Bromofluorobenzene	98 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	101 %	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	03/05/15 14:10	03/06/15 00:49	1
1,2-Dibromoethane	ug/L	0.0052 u	EPA 8011	0.021	0.0052	03/05/15 14:10	03/06/15 00:49	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	111 %	Limits	85-123				

Organo Chlorine Pesticides

4,4'-DDD	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 10:31	1
4,4'-DDE	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 10:31	1
4,4'-DDT	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:31	1
Aldrin	ug/L	0.005 u	EPA 8081	0.043	0.005	02/25/15 14:51	03/10/15 10:31	1
alpha-BHC	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 10:31	1
beta-BHC	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 10:31	1
Chlordane	ug/L	0.054 u	EPA 8081	0.11	0.054	02/25/15 14:51	03/10/15 10:31	1
delta-BHC	ug/L	0.006 u	EPA 8081	0.043	0.006	02/25/15 14:51	03/10/15 10:31	1
Dieldrin	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:31	1
Endosulfan I	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:31	1
Endosulfan II	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 10:31	1
Endosulfan sulfate	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:31	1
Endrin	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 10:31	1
Endrin Aldehyde	ug/L	0.011 u	EPA 8081	0.043	0.011	02/25/15 14:51	03/10/15 10:31	1
Endrin ketone	ug/L	0.006 u	EPA 8081	0.043	0.006	02/25/15 14:51	03/10/15 10:31	1
gamma-BHC	ug/L	0.009 u	EPA 8081	0.043	0.009	02/25/15 14:51	03/10/15 10:31	1
Heptachlor	ug/L	0.008 u	EPA 8081	0.043	0.008	02/25/15 14:51	03/10/15 10:31	1
Heptachlor epoxide	ug/L	0.010 u	EPA 8081	0.043	0.010	02/25/15 14:51	03/10/15 10:31	1
Methoxychlor	ug/L	0.051 u	EPA 8081	0.17	0.051	02/25/15 14:51	03/10/15 10:31	1
Toxaphene	ug/L	0.14 u	EPA 8081	0.54	0.14	02/25/15 14:51	03/10/15 10:31	1
Surrogate for EPA 8081	Decachlorobiphenyl	59 %	Limits	18-158				
Surrogate for EPA 8081	Tetrachloro-meta-xylene	72 %	Limits	24-121				

Chlorinated Herbicides

2,4,5-T	ug/L	2.5 u	EPA 8321	5.0	2.5	03/03/15 09:37	03/05/15 04:16	1
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Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Field Blank 3
 Matrix Reagent Water
 SAL Sample Number 1501766-34
 Date/Time Collected 02/24/15 12:30
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2,4,5-TP	ug/L	1.4 u	EPA 8321	5.0	1.4	03/03/15 09:37	03/05/15 04:16	1
2,4-D	ug/L	3.2 u	EPA 8321	5.0	3.2	03/03/15 09:37	03/05/15 04:16	1
Dinoseb	ug/L	3.7 u	EPA 8321	5.0	3.7	03/03/15 09:37	03/05/15 04:16	1
Surrogate for EPA 8321	2,4-DCAA		85 %	Limits	13-155			

Polychlorinated Biphenyls (PCBs)

PCB-1016	ug/L	0.071 u	EPA 8082	0.215	0.071	02/25/15 15:52	03/13/15 13:21	1
PCB-1221	ug/L	0.075 u	EPA 8082	0.215	0.075	02/25/15 15:52	03/13/15 13:21	1
PCB-1232	ug/L	0.075 u	EPA 8082	0.215	0.075	02/25/15 15:52	03/13/15 13:21	1
PCB-1242	ug/L	0.071 u	EPA 8082	0.215	0.071	02/25/15 15:52	03/13/15 13:21	1
PCB-1248	ug/L	0.075 u	EPA 8082	0.215	0.075	02/25/15 15:52	03/13/15 13:21	1
PCB-1254	ug/L	0.075 u	EPA 8082	0.215	0.075	02/25/15 15:52	03/13/15 13:21	1
PCB-1260	ug/L	0.069 u	EPA 8082	0.215	0.069	02/25/15 15:52	03/13/15 13:21	1
Surrogate for EPA 8082	Decachlorobiphenyl		58 %	Limits	10-118			
Surrogate for EPA 8082	Tetrachloro-meta-xylene		76 %	Limits	14-111			

Base/Neutral and Acid Extractable Organic Compounds

1,2,4,5-Tetrachlorobenzene	ug/L	0.04 u	EPA 8270	0.6	0.04	02/25/15 13:42	03/18/15 16:09	1
1,2,4-Trichlorobenzene	ug/L	0.05 u	EPA 8270	0.6	0.05	02/25/15 13:42	03/18/15 16:09	1
1,3,5-Trinitrobenzene	ug/L	0.3 u	EPA 8270	2	0.3	02/25/15 13:42	03/18/15 16:09	1
1,3-Dinitrobenzene	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
1,4-Naphthoquinone	ug/L	0.3 u	EPA 8270	2	0.3	02/25/15 13:42	03/18/15 16:09	1
1,4-Phenylenediamine	ug/L	0.3 u	EPA 8270	6	0.3	02/25/15 13:42	03/18/15 16:09	1
1-Methylnaphthalene	ug/L	0.028 u	EPA 8270	0.22	0.028	02/25/15 13:42	03/21/15 04:01	10
1-Naphthylamine	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
2,3,4,6-Tetrachlorophenol	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
2,4,5-Trichlorophenol	ug/L	0.05 u	EPA 8270	0.6	0.05	02/25/15 13:42	03/18/15 16:09	1
2,4,6-Trichlorophenol	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
2,4-Dichlorophenol	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
2,4-Dimethylphenol	ug/L	0.5 u	EPA 8270	2	0.5	02/25/15 13:42	03/18/15 16:09	1
2,4-Dinitrophenol	ug/L	2 u	EPA 8270	6	2	02/25/15 13:42	03/18/15 16:09	1
2,4-Dinitrotoluene	ug/L	0.05 u	EPA 8270	0.6	0.05	02/25/15 13:42	03/18/15 16:09	1
2,6-Dichlorophenol	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
2,6-Dinitrotoluene	ug/L	0.08 u	EPA 8270	0.6	0.08	02/25/15 13:42	03/18/15 16:09	1
2-Acetylaminofluorene	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Field Blank 3
 Matrix Reagent Water
 SAL Sample Number 1501766-34
 Date/Time Collected 02/24/15 12:30
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2-Chloronaphthalene	ug/L	0.04 u	EPA 8270	0.6	0.04	02/25/15 13:42	03/18/15 16:09	1
2-Chlorophenol	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
2-Methylnaphthalene	ug/L	0.048 u	EPA 8270	0.22	0.048	02/25/15 13:42	03/21/15 04:01	10
2-Methylphenol	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
2-Naphthylamine	ug/L	0.2 u	EPA 8270	0.6	0.2	02/25/15 13:42	03/18/15 16:09	1
2-Nitroaniline	ug/L	0.04 u	EPA 8270	0.6	0.04	02/25/15 13:42	03/18/15 16:09	1
2-Nitrophenol	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
3,3-Dichlorobenzidine	ug/L	0.3 u	EPA 8270	0.6	0.3	02/25/15 13:42	03/18/15 16:09	1
3,3'-Dimethylbenzidine	ug/L	0.3 u	EPA 8270	2	0.3	02/25/15 13:42	03/18/15 16:09	1
3/4-Methylphenol	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
3-Methylcholanthrene	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
3-Nitroaniline	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
4,6-Dinitro-2-methylphenol	ug/L	0.2 u	EPA 8270	2	0.2	02/25/15 13:42	03/18/15 16:09	1
4-Aminobiphenyl	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
4-Bromophenyl phenyl ether	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
4-Chloro-3-methylphenol	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
4-Chloroaniline	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
4-Chlorophenyl phenyl ether	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
4-Nitroaniline	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
4-Nitrophenol	ug/L	0.1 u	EPA 8270	2	0.1	02/25/15 13:42	03/18/15 16:09	1
5-Nitro-o-toluidine	ug/L	0.04 u	EPA 8270	0.6	0.04	02/25/15 13:42	03/18/15 16:09	1
7,12-Dimethylbenz(a)anthracene	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
Acenaphthene	ug/L	0.21 u	EPA 8270	0.22	0.21	02/25/15 13:42	03/21/15 04:01	10
Acenaphthylene	ug/L	0.028 u	EPA 8270	0.22	0.028	02/25/15 13:42	03/21/15 04:01	10
Acetophenone	ug/L	0.05 u	EPA 8270	0.6	0.05	02/25/15 13:42	03/18/15 16:09	1
Anthracene	ug/L	0.047 u	EPA 8270	0.22	0.047	02/25/15 13:42	03/21/15 04:01	10
Benzo(a)anthracene	ug/L	0.025 u	EPA 8270	0.22	0.025	02/25/15 13:42	03/21/15 04:01	10
Benzo(a)pyrene	ug/L	0.037 u	EPA 8270	0.22	0.037	02/25/15 13:42	03/21/15 04:01	10
Benzo(b)fluoranthene	ug/L	0.033 u	EPA 8270	0.22	0.033	02/25/15 13:42	03/21/15 04:01	10
Benzo(g,h,i)perylene	ug/L	0.10 u	EPA 8270	0.22	0.10	02/25/15 13:42	03/21/15 04:01	10
Benzo(k)fluoranthene	ug/L	0.034 u	EPA 8270	0.22	0.034	02/25/15 13:42	03/21/15 04:01	10
Benzyl alcohol	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
Bis(2-chloroethoxy)methane	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
Bis(2-chloroethyl)ether	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
Bis(2-chloroisopropyl) ether	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1

Florida Certification Number: E84129

NELAP Accredited

Francis I. Daniels, Laboratory Director

Leslie C. Boardman, Q.A. Manager

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Field Blank 3
Matrix	Reagent Water
SAL Sample Number	1501766-34
Date/Time Collected	02/24/15 12:30
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bis(2-ethylhexyl)phthalate	ug/L	0.6 u	EPA 8270	2	0.6	02/25/15 13:42	03/18/15 16:09	1
Butyl benzyl phthalate	ug/L	14	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
Chlorobenzilate	ug/L	0.2 u	EPA 8270	2	0.2	02/25/15 13:42	03/18/15 16:09	1
Chrysene	ug/L	0.038 u	EPA 8270	0.22	0.038	02/25/15 13:42	03/21/15 04:01	10
Diallate	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
Dibenzo(a,h)anthracene	ug/L	0.10 u	EPA 8270	0.22	0.10	02/25/15 13:42	03/21/15 04:01	10
Dibenzofuran	ug/L	0.04 u	EPA 8270	0.6	0.04	02/25/15 13:42	03/18/15 16:09	1
Diethyl phthalate	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
Dimethoate	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
Dimethylphthalate	ug/L	0.2 u	EPA 8270	2	0.2	02/25/15 13:42	03/18/15 16:09	1
Di-n-butyl phthalate	ug/L	1 v	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
Di-n-octylphthalate	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
Diphenylamine	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
Disulfoton	ug/L	0.04 u	EPA 8270	0.6	0.04	02/25/15 13:42	03/18/15 16:09	1
Ethyl Methanesulfonate	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
Famphur	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
Fluoranthene	ug/L	0.024 u	EPA 8270	0.22	0.024	02/25/15 13:42	03/21/15 04:01	10
Fluorene	ug/L	0.037 u	EPA 8270	0.22	0.037	02/25/15 13:42	03/21/15 04:01	10
Hexachlorobenzene	ug/L	0.08 u	EPA 8270	0.6	0.08	02/25/15 13:42	03/18/15 16:09	1
Hexachlorobutadiene	ug/L	0.05 u	EPA 8270	0.6	0.05	02/25/15 13:42	03/18/15 16:09	1
Hexachlorocyclopentadiene	ug/L	0.05 u	EPA 8270	0.6	0.05	02/25/15 13:42	03/18/15 16:09	1
Hexachloroethane	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
Hexachloropropene	ug/L	0.08 u	EPA 8270	0.6	0.08	02/25/15 13:42	03/18/15 16:09	1
Indeno(1,2,3-cd)pyrene	ug/L	0.074 u	EPA 8270	0.22	0.074	02/25/15 13:42	03/21/15 04:01	10
Isodrin	ug/L	0.08 u	EPA 8270	0.6	0.08	02/25/15 13:42	03/18/15 16:09	1
Isophorone	ug/L	0.05 u	EPA 8270	0.6	0.05	02/25/15 13:42	03/18/15 16:09	1
Isosafrole	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
Kepone	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
Methapyrilene	ug/L	0.8 u	EPA 8270	2	0.8	02/25/15 13:42	03/18/15 16:09	1
Methyl Methanesulfonate	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
Naphthalene	ug/L	0.13 u	EPA 8270	0.22	0.13	02/25/15 13:42	03/21/15 04:01	10
Nitrobenzene	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
N-Nitrosodibutylamine	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
N-Nitrosodiethylamine	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
N-Nitrosodimethylamine	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1

Manatee County Utilities Solid Waste Division
 3333 Lena Rd
 Bradenton, FL 34211

March 26, 2015
 Work Order: 1501766

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description Field Blank 3
 Matrix Reagent Water
 SAL Sample Number 1501766-34
 Date/Time Collected 02/24/15 12:30
 Collected by Ian Gerald
 Date/Time Received 02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
N-Nitrosodi-n-propylamine	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
N-Nitrosodiphenylamine	ug/L	0.3 u	EPA 8270	0.6	0.3	02/25/15 13:42	03/18/15 16:09	1
N-Nitrosomethylethylamine	ug/L	0.2 u	EPA 8270	0.6	0.2	02/25/15 13:42	03/18/15 16:09	1
N-Nitrosopiperidine	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
N-Nitrosopyrrolidine	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
O,O,O-Triethyl phosphorothioate	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
o-Toluidine	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
Parathion	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
Parathion, methyl	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
p-Dimethylaminoazobenzene	ug/L	0.06 u	EPA 8270**	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
Pentachlorobenzene	ug/L	0.07 u	EPA 8270	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
Pentachloronitrobenzene	ug/L	0.08 u	EPA 8270	0.6	0.08	02/25/15 13:42	03/18/15 16:09	1
Pentachlorophenol	ug/L	0.4 u	EPA 8270	2	0.4	02/25/15 13:42	03/18/15 16:09	1
Phenacetin	ug/L	0.1 u	EPA 8270	0.6	0.1	02/25/15 13:42	03/18/15 16:09	1
Phenanthrene	ug/L	0.025 u	EPA 8270	0.22	0.025	02/25/15 13:42	03/21/15 04:01	10
Phenol	ug/L	0.05 u	EPA 8270	0.6	0.05	02/25/15 13:42	03/18/15 16:09	1
Phentermine	ug/L	3 u	EPA 8270**	11	3	02/25/15 13:42	03/18/15 16:09	1
Phorate	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
Pronamide	ug/L	0.07 u	EPA 8270**	0.6	0.07	02/25/15 13:42	03/18/15 16:09	1
Pyrene	ug/L	0.019 u	EPA 8270	0.22	0.019	02/25/15 13:42	03/21/15 04:01	10
Safrole	ug/L	0.06 u	EPA 8270	0.6	0.06	02/25/15 13:42	03/18/15 16:09	1
Thionazin	ug/L	0.09 u	EPA 8270	0.6	0.09	02/25/15 13:42	03/18/15 16:09	1
Surrogate for EPA 8270	2,4,6-Tribromophenol	45 %	Limits	10-123				
Surrogate for EPA 8270	2-Fluorobiphenyl	83 %	Limits	43-116				
Surrogate for EPA 8270	2-Fluorophenol	25 %	Limits	21-110				
Surrogate for EPA 8270	Nitrobenzene-d5	82 %	Limits	35-114				
Surrogate for EPA 8270	Phenol-d5	23 %	Limits	0-200				
Surrogate for EPA 8270	Terphenyl-d14	103 %	Limits	33-141				

Inorganics

Ammonia as N	mg/L	0.009	u	EPA 350.1	0.040	0.009		02/26/15 14:32	1
Chloride	mg/L	0.050	u	EPA 300.0	0.20	0.050		02/26/15 12:09	1
Cyanide	mg/L	0.0025	u	SM 4500CN-E	0.010	0.0025	02/27/15 13:30	03/03/15 15:30	1
Nitrate (as N)	mg/L	0.01	u	EPA 300.0	0.04	0.01		02/26/15 12:09	1
Sulfide	mg/L	0.10	u	SM 4500SF	0.40	0.10		03/02/15 16:13	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Field Blank 3
Matrix	Reagent Water
SAL Sample Number	1501766-34
Date/Time Collected	02/24/15 12:30
Collected by	Ian Gerald
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Total Alkalinity	mg/L	13	SM 2320B	8.0	2.0		03/09/15 13:45	1
Total Dissolved Solids	mg/L	26	SM 2540C	10	10	02/27/15 08:15	03/02/15 15:57	1
<u>Metals</u>								
Antimony	ug/L	10 U	EPA 6020	500	10	03/09/15 12:31	03/10/15 10:38	10
Arsenic	ug/L	0.93 U	EPA 6020	5.0	0.93	02/26/15 12:56	03/06/15 21:44	1
Barium	ug/L	0.18 U	EPA 6020	0.50	0.18	02/26/15 12:56	03/06/15 21:44	1
Beryllium	ug/L	0.096 U	EPA 6010	1.0	0.096	02/26/15 12:17	03/06/15 21:32	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	02/26/15 12:56	03/06/15 21:44	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	02/26/15 12:56	03/06/15 21:44	1
Cobalt	ug/L	10 U	EPA 6010	100	10	02/26/15 12:17	03/06/15 21:32	1
Copper	ug/L	0.13 U	EPA 6020	0.50	0.13	02/26/15 12:56	03/06/15 21:44	1
Iron	ug/L	20 U	EPA 6010	100	20	02/26/15 12:17	03/06/15 21:32	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	02/26/15 12:56	03/06/15 21:44	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	03/10/15 12:36	03/11/15 12:25	1
Nickel	ug/L	0.46 U	EPA 6020	5.0	0.46	02/26/15 12:56	03/06/15 21:44	1
Selenium	ug/L	0.93 U	EPA 6020	5.0	0.93	03/09/15 12:31	03/10/15 12:38	1
Silver	ug/L	0.069 U	EPA 6020	0.50	0.069	02/26/15 12:56	03/06/15 21:44	1
Sodium	mg/L	0.15 I	EPA 6010	0.50	0.13	02/26/15 12:17	03/06/15 21:32	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	02/26/15 12:56	03/06/15 21:44	1
Tin	ug/L	100 U	EPA 6010	500	100	02/26/15 12:17	03/06/15 21:32	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	02/26/15 12:17	03/06/15 21:32	1
Zinc	ug/L	0.88 U	EPA 6020	5.0	0.88	02/26/15 12:56	03/06/15 21:44	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

March 26, 2015
Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Trip Blank 3
Matrix	Reagent Water
SAL Sample Number	1501766-35
Date/Time Collected	02/19/15 16:00
Collected by	Melissa McLaughlin
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Volatile Organic Compounds</u>								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
1,1,1-Trichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
1,1,2-Trichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
1,1-Dichloroethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
1,1-Dichloroethene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
1,2,3-Trichloropropane	ug/L	0.4 U,Q	EPA 8260	0.8	0.4		03/06/15 17:27	1
1,2-Dichlorobenzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
1,2-Dichloroethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
1,2-Dichloropropane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
1,4-Dichlorobenzene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
2-Butanone	ug/L	2.0 U,Q	EPA 8260	4.0	2.0		03/06/15 17:27	1
2-Hexanone	ug/L	2.1 U,Q	EPA 8260	4.0	2.1		03/06/15 17:27	1
4-Methyl-2-pentanone	ug/L	2.6 U,Q	EPA 8260	4.0	2.6		03/06/15 17:27	1
Acetone	ug/L	2.0 U,J3,Q	EPA 8260	4.0	2.0		03/06/15 17:27	1
Acrylonitrile	ug/L	1.3 U,Q	EPA 8260	4.0	1.3		03/06/15 17:27	1
Benzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
Bromochloromethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
Bromodichloromethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Bromoform	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Bromomethane	ug/L	0.4 U,Q	EPA 8260	0.8	0.4		03/06/15 17:27	1
Carbon disulfide	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Carbon tetrachloride	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Chlorobenzene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
Chloroethane	ug/L	0.4 U,Q	EPA 8260	1.6	0.4		03/06/15 17:27	1
Chloroform	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Chloromethane	ug/L	0.4 U,Q	EPA 8260	1.6	0.4		03/06/15 17:27	1
cis-1,2-Dichloroethene	ug/L	0.09 U,Q	EPA 8260	0.8	0.09		03/06/15 17:27	1
cis-1,3-Dichloropropene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Dibromochloromethane	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
Dibromomethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Ethylbenzene	ug/L	0.08 U,Q	EPA 8260	0.8	0.08		03/06/15 17:27	1
Iodomethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1

Manatee County Utilities Solid Waste Division

3333 Lena Rd

Bradenton, FL 34211

March 26, 2015

Work Order: 1501766

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Trip Blank 3
Matrix	Reagent Water
SAL Sample Number	1501766-35
Date/Time Collected	02/19/15 16:00
Collected by	Melissa McLaughlin
Date/Time Received	02/24/15 18:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Styrene	ug/L	0.05 U,Q	EPA 8260	0.8	0.05		03/06/15 17:27	1
Tetrachloroethene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
Toluene	ug/L	0.09 U,Q	EPA 8260	0.8	0.09		03/06/15 17:27	1
trans-1,2-Dichloroethene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
trans-1,3-Dichloropropene	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 U,Q	EPA 8260	0.8	0.3		03/06/15 17:27	1
Trichloroethene	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Trichlorofluoromethane	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Vinyl acetate	ug/L	0.4 U,Q	EPA 8260	1.6	0.4		03/06/15 17:27	1
Vinyl chloride	ug/L	0.3 U,Q	EPA 8260	1.6	0.3		03/06/15 17:27	1
Xylene-m,p	ug/L	0.2 U,Q	EPA 8260	1.6	0.2		03/06/15 17:27	1
Xylene-o	ug/L	0.2 U,Q	EPA 8260	0.8	0.2		03/06/15 17:27	1
Xylenes- Total	ug/L	0.1 U,Q	EPA 8260	0.8	0.1		03/06/15 17:27	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	101 %	Limits		65-135	Note:		Q
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135	Note:		Q
Surrogate for EPA 8260	Dibromofluoromethane	99 %	Limits		65-135	Note:		Q
Surrogate for EPA 8260	Toluene-d8	100 %	Limits		65-135	Note:		Q

Manatee County Utilities Solid Waste Division**3333 Lena Rd****Bradenton, FL 34211****March 26, 2015****Work Order: 1501766**

*** 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 limits 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.

- V Analyte was detected in both the sample and the associated method blank.
- Q Sample held beyond the accepted holding time.
- J6 The sample matrix interfered with the ability to make any accurate determination.
- J5 Matrix spike of this sample was outside typical range. All other QC criteria were acceptable.
- J3 Quality control value for precision was outside control limits.

Questions regarding this report should be directed to :

Kathryn Nordmark

Telephone (813) 855-1844 FAX (813) 855-2218

Kathryn@southernanalyticallabs.com



Client Name		Manatee Co Utilities Solid Waste Division		Contact / Phone:													
Project Name / Location		LENA RD COUNTY LF WACS Facility ID #44795		Bryan White 941-748-5543 X8008 bryan.white@mymanatee.org													
Samplers: (Signature)		Matrix Codes:		PARAMETER / CONTAINER DESCRIPTION													
Sample No.		Sample Description		No. of Containers (Total)													
01	BGW-1	2/25/15	1203	GW	Composite	Grab	250 mL P, HNO ₃ As, Hg, Ti, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Ag, Se, Na, V, Zn	40 mL Vials, HCl 8260 App. 1 Volatiles	40 mL Vials, Cool (DBCP, EDB only)	125mLP, H ₂ SO ₄ NH ₃	500mLP, Cool Cl, NO ₃ , TDS	9					
02	GW-1	2/24/15	6859	GW	Composite	Grab						9					
03	GW-2	2/24/15	0918	GW	Composite	Grab						9					
04	GW-3	2/24/15	0952	GW	Composite	Grab						9					
05	GW-4	2/24/15	0954	GW	Composite	Grab						9					
06	GW-5	2/24/15	1030	GW	Composite	Grab						9					
07	GW-6	2/24/15	1034	GW	Composite	Grab						9					
08	GW-7	2/24/15	1131	GW	Composite	Grab						9					
09	GW-8	2/24/15	1132	GW	Composite	Grab						9					
10	GW-9	2/24/15	1158	GW	Composite	Grab						9					
11	GW-10	2/24/15	1206	GW	Composite	Grab						9					
12	GW-11	2/25/15	0849	GW	Composite	Grab						9					
Containers Prepared/Relinquished:		Date/Time: 02/19/15 1300	Received: 2/24/15 0600	Seal intact?		Samples intact upon arrival?		Received on ice? Temp		Proper preservatives indicated?		Rec'd w/in holding time?		Volatiles rec'd w/out headspace?		Proper containers used?	
Relinquished: <i>LSM</i>		Date/Time: 2/24/15 1335	Received: <i>LSM</i>	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Relinquished: <i>LSM</i>		Date/Time: 2/24/15 0910	Received: <i>LSM</i>	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Relinquished: <i>LSM</i>		Date/Time: 2/26/15 0910	Received: <i>LSM</i>	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Relinquished: <i>LSM</i>		Date/Time: 2/26/15 0910	Received: <i>LSM</i>	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Relinquished: <i>LSM</i>		Date/Time: 2/26/15 0910	Received: <i>LSM</i>	N/A		N/A		N/A		N/A		N/A		N/A		N/A	

Chain of Custody

Client Name		Manatee Co Utilities Solid Waste Division		Contact / Phone:								
Project Name / Location		LENA RD COUNTY LF WACS Facility ID #44795		Bryan White 941-748-5543 X8008 bryan.white@mymanatee.org								
Samplers: (Signature)				PARAMETER / CONTAINER DESCRIPTION								
Matrix Codes:												
DW-Drinking Water WW-Wastewater												
SW-Surface Water SL-Sludge SO-Soil												
GW-Groundwater SA-Saline Water O-Other												
R-Reagent Water												
SAL Use Only	Sample Description	Date	Time	Matrix	Composite	Grab	250 mL P, HNO ₃ As, Hg, Ti, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Ag, Se, Na, V, Zn	40 mL Vials, HCl 8260 App. I Volatiles	40 mL Vials, Cool 8011 Organics ** (DBCP, EDB only)	125 mL P, H ₂ SO ₄ NH ₃	500 mL P, Cool Cl, NO ₃ , TDS	No. of Containers (Total per each location)
13	GW-12	2/25/15	0936	GW		X	1	3	3	1	1	9
14	GW-13	2/25/15	1031	GW		X	1	3	3	1	1	9
15	GW-14	2/25/15	1113	GW		X	1	3	3	1	1	9
16	GW-15	2/25/15	1255	GW		X	1	3	3	1	1	9
17	GW-16	2/25/15	1336	GW		X	1	3	3	1	1	9
18	GW-17	2/25/15	1417	GW		X	1	3	3	1	1	9
19	Duplicate GW-1	2/24/15	0900	GW		X	1	3	3	1	1	9
20	Field Blank	2/24/15	0841	R		X	1	3	3	1	1	9
21	Trip Blank	02/19/1300		R		X		1				1
Containers Prepared/Relinquished:		Date/Time: 02/19/15	Received:									
Relinquished:		Date/Time: 2/24/15	Received:									
Relinquished:		Date/Time: 2/24/15	Received:									
Relinquished:		Date/Time: 2/26/15	Received:									
Relinquished:		Date/Time:	Received:									
Relinquished:		Date/Time:	Received:									
Instructions / Remarks		Seal intact? <input checked="" type="checkbox"/> N N/A Samples intact upon arrival? <input checked="" type="checkbox"/> N N/A Received on ice? Temp _____ <input checked="" type="checkbox"/> N N/A Proper preservatives indicated? <input checked="" type="checkbox"/> N N/A Rec'd within holding time? <input checked="" type="checkbox"/> N N/A Volatiles rec'd w/out headspace? <input checked="" type="checkbox"/> N N/A Proper containers used? <input checked="" type="checkbox"/> N N/A										

Chain of Custody

[illegible]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	BGW-1 21610	Sample ID	1501766-01	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1.632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	9.41	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.3	REFERENCE ELEVATION (NGVD)	30.68	GROUND WATER ELEVATION (REFERENCE-STATIC)	30.68 29.27	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	1.45	1/4 WELL VOLUME	0.36	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1142	PURGE TIME END	1202
INSTRUMENT ID#:				YSIPRO2		FNR64	

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (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)
1150	1.6	1.6	0.2		6.1	22.2	438.0	0.28	2.19	fannic	sulphur
1153	0.6	2.2			6.1	22.2	457.9	0.24	2.02		
1156	0.6	2.8			6.0	22.3	478.6	0.23	1.76		
1159	0.6	3.4			6.0	22.2	489.0	0.21	1.55		
1202	0.6	4.0			6.0	22.3	449.7	0.19	1.29		

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)			PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (gpm)			0.2	
SAMPLING INITIATED	1203	SAMPLING ENDED	1208	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/A	LIST PRESERVATIVES ADDED								
WEATHER CONDITIONS		overcast 66°F									
COMMENTS											
SAMPLED BY/COMPANY:						Southern Analytical Laboratories, Inc.					
						Sampler's Initials: <i>W</i>					

DATE SIGNED: 2/25/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-1 21593	Sample ID	1501766-02	Location:	NE land f.1
				GPS LAT	27 35 33
				GPS LONG	82 38 79

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	.1637	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	5.53	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	14.5	REFERENCE ELEVATION (NGVD)	40.92 38.68	GROUND WATER ELEVATION (REFERENCE-STATIC)	32.35.39 33.15	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	2.1799	1/4 WELL VOLUME	.5699	3 WELL VOLUMES		5 WELL VOLUMES	
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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	0842	PURGE TIME END	0858				
INSTRUMENT ID#:			4				4.0				
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (°C) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
0852	2.5	2.5	.15		6.23	10.7	780	.65	8.68	large particles	none
0855	.75	3.25	↓		6.25	10.8	785	.51	4.23	transpic	↓
0858	.75	4.00	↓		6.26	10.8	786	.42	3.70	↓	↓

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= Polypropylene, PE= Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.25						
SAMPLING INITIATED	0859	SAMPLING ENDED		FIELD CLEANED	Y	CLEANING STEPS					
FIELD FILTERED?	Y	FILTER SIZE (um)		DUPLICATE	N	VOC COLLECTED BY REVERSE FLOW?	Y N	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N	8A	
PRESERVATION CHECKED IN FIELD?	N	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast 65°F										
COMMENTS	0900 - duplicate										
SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: JL											

DATE SIGNED:

SAMPLER'S SIGNATURE:

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-2 21594	Sample ID	1501766-03	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.34	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.4	REFERENCE ELEVATION (NGVD)	39.40 40.92	GROUND WATER ELEVATION (REFERENCE-STATIC)	32.06 33.58	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	1.97	1/4 WELL VOLUME	0.49	3 WELL VOLUMES		5 WELL VOLUMES	
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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	0855	PURGE TIME END	0917
INSTRUMENT ID#:							

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
0905	2.0	2.0	0.2		6.1	20.0	1199	0.90	6.39	tannic	sulphur
0908	0.6	2.6			6.2	20.1	1254	0.81	3.00		
0911	0.6	3.2			6.2	20.2	1284	0.83	3.45		
0914	0.6	3.5			6.3	20.2	1312	0.75	2.33		
0917	0.6	3.8			6.3	20.3	1331	0.69	2.83		

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <u>TL</u> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.2
SAMPLING INITIATED	0918	SAMPLING ENDED	0923	FIELD CLEANED	Y <input checked="" type="checkbox"/>
FIELD FILTERED?	Y <input checked="" type="checkbox"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="checkbox"/>
PRESERVATION CHECKED IN FIELD?	<input checked="" type="checkbox"/> N N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N <input checked="" type="checkbox"/>
				SEMI-VOLS COLLECTED THROUGH TRAP?	Y N <input checked="" type="checkbox"/>

WEATHER CONDITIONS	Overcast, Fog 62°F
COMMENTS	
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.
	Sampler's Initials: <i>sh</i>

DATE SIGNED: 2/24/15

SAMPLER'S SIGNATURE: *end*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-3 21595	Sample ID	1501766-04	Location:	North Landfill - Heavy EQ
			GPS LAT		
			GPS LONG		

PURGING DATA

Well Diameter (inches)	1"	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	6.02	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.6	REFERENCE ELEVATION (NGVD)	40.53 39.40	GROUND WATER ELEVATION (REFERENCE-STATIC)	34.51 33.38	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	1.2162	1/4 WELL VOLUME	.5546	3 WELL VOLUMES		5 WELL VOLUMES	
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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	0936	PURGE TIME END					
INSTRUMENT ID#:				158/160 i							
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (°C) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0945	2.25	2.25	.25		6.35	21.1	580	.35	13.2	tan. 2 large particles	none
0948	.75	3.00	↓		6.31	21.2	581	.25	9.71	↓	↓
0951	.75	3.75	↓		6.30	21.2	584	.14		↓	↓

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= Polypropylene, PE= Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <input checked="" type="radio"/> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	1.25
SAMPLING INITIATED	0952	SAMPLING ENDED	0958	FIELD CLEANED	Y <input checked="" type="radio"/>
FIELD FILTERED?	Y <input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="radio"/>
PRESERVATION CHECKED IN FIELD?	<input checked="" type="radio"/> N N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N <input checked="" type="radio"/>
SEMI-VOLS COLLECTED THROUGH TRAP?		Y N <input checked="" type="radio"/>			
WEATHER CONDITIONS	Overcast 68°F				
COMMENTS					
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.				Sampler's Initials: JB

DATE SIGNED:

SAMPLER'S SIGNATURE:

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-4 21596	Sample ID	1501766-05	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.35	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.6	REFERENCE ELEVATION (NGVD)	40.53	GROUND WATER ELEVATION (REFERENCE-STATIC)	33.18	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	1.999	1/4 WELL VOLUME	0.50	3 WELL VOLUMES		5 WELL VOLUMES	
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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	0937	PURGE TIME END	0953
INSTRUMENT ID#:				YS11P02			Fluorby

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (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)
0947	2.0	2.0	0.2		6.2	20.7	401.9	0.93	11.5	tannic	sulphur
0950	0.6	2.6			6.2	20.7	401.9	0.65	10.3		
0953	0.6	3.2			6.2	20.7	401.7	0.52	9.3		

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <u>TT</u>	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.2
SAMPLING INITIATED	0954	SAMPLING ENDED	0959	FIELD CLEANED	Y <u>N</u>
FIELD FILTERED?	Y <u>N</u>	FILTER SIZE (um)		DUPLICATE	Y <u>N</u>
PRESERVATION CHECKED IN FIELD?	<u>Y</u> N N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N <u>N/A</u>
				SEMI-VOLS COLLECTED THROUGH TRAP?	Y N <u>N/A</u>

WEATHER CONDITIONS	Overcast, Fog 62°F
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COMMENTS	
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SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.	Sampler's Initials:	W
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DATE SIGNED: 2/24/15

SAMPLER'S SIGNATURE: *indy*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	2/24/15	SAL WO#	1501766	Location:	North hwy 11 - weigh station
Well Number:	GW-5 21597	Sample ID	1501766-06	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.42	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	195	REFERENCE ELEVATION (NGVD)	39.90	GROUND WATER ELEVATION (REFERENCE-STATIC)	32.48	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	1.9714	1/4 WELL VOLUME	.4928	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1015	PURGE TIME END	1029
						TOTAL PURGED (gallons)	3.50

INSTRUMENT ID#:				4558801				74281	
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1023	2.0	2.0	.25		6.25	22.2	789	.31	35.8	tannic large	none
1026	.75	2.75			6.21	22.2	790	.24	12.6	particles	
1029	.75	3.50			6.21	22.2	792	.25	10.8		

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= Polypropylene, PE= Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)			PP PE NP <input checked="" type="radio"/> TT	SAMPLE TUBING LENGTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (gpm)		.25	
SAMPLING INITIATED	1030	SAMPLING ENDED	1036	FIELD CLEANED	Y <input checked="" type="radio"/>	CLEANING STEPS					
FIELD FILTERED?	Y <input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="radio"/>	VOC COLLECTED BY REVERSE FLOW?		Y N <input checked="" type="radio"/>	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N <input checked="" type="radio"/>	
PRESERVATION CHECKED IN FIELD?		<input checked="" type="radio"/> 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:

SAMPLER'S SIGNATURE:

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-6 21598	Sample ID	1501766-07	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.95	PURGE PUMP CODE	PP GP IBP
Total Well Depth (Feet)	19.7	REFERENCE ELEVATION (NGVD)	38.95	GROUND WATER ELEVATION (REFERENCE-STATIC)	31.00	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	1.92	1/4 WELL VOLUME	0.48	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1017	PURGE TIME END	1033				
INSTRUMENT ID#:				Ys1P202			F4rb4				
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1027	2.0	2.0	0.2		6.5	21.2	1568	0.33	6.31	tannic	sulphur
1030	0.6	2.6	1		6.5	21.3	1524	0.26	4.75	1	1
1033	0.6	3.2	1		6.5	21.3	1518	0.26	3.56	1	1

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	
SAMPLING INITIATED	1034	SAMPLING ENDED	1039	FIELD CLEANED	Y <input checked="" type="radio"/>
FIELD FILTERED?	Y <input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="radio"/>
PRESERVATION CHECKED IN FIELD?	<input checked="" type="radio"/> N N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N <input checked="" type="radio"/> N/A
SEMI-VOLS COLLECTED THROUGH TRAP?				Y N <input checked="" type="radio"/> N/A	
WEATHER CONDITIONS	Overcast, fog 62°F				
COMMENTS					
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.				Sampler's Initials: <i>df</i>

DATE SIGNED: 2/24/15

SAMPLER'S SIGNATURE: *indy*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	2/24/15	SAL WO#	1501766	Location:	Northlandfill - Admin building
Well Number:	GW-7 21599	Sample ID	1501766-08	GPS LAT	27
			GPS LONG		

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	8.41	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.3	REFERENCE ELEVATION (NGVD)	39.49	GROUND WATER ELEVATION (REFERENCE-STATIC)	31.08	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	1.7772	1/4 WELL VOLUME	.4443	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1116	PURGE TIME END	1130				
INSTRUMENT ID#:				YS6P601		T4281					
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (°C) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1124	2.0	2.0	.25		6.49	21.2	581	.55	11.6	1.90E particles	
1127	.75	2.75	↓		6.47	21.2	585	.53	9.26	↓	
1130	.75	3.50	↓		6.46	21.2	586	.51	7.13	↓	

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= Polypropylene, PE= Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)		PP PE NP <input checked="" type="radio"/> TT	SAMPLE TUBING LENGTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (gpm)		1.25			
SAMPLING INITIATED	1131	SAMPLING ENDED	1137	FIELD CLEANED	Y <input checked="" type="radio"/>	CLEANING STEPS					
FIELD FILTERED?	Y <input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="radio"/>	VOC COLLECTED BY REVERSE FLOW?	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>	SEMI-VOLS COLLECTED THROUGH TRAP?	Y <input checked="" type="radio"/> N <input checked="" type="radio"/>		
PRESERVATION CHECKED IN FIELD?		<input checked="" type="radio"/> N <input checked="" type="radio"/> A	LIST PRESERVATIVES ADDED								
WEATHER CONDITIONS		Overcast 70°F									
COMMENTS											
SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: JL											

DATE SIGNED:

SAMPLER'S SIGNATURE:

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-8 21600	Sample ID	1501766-09	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)		WELL CAPACITY (gal/ft)		Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	9.80	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.10	REFERENCE ELEVATION (NGVD)	39.75	GROUND WATER ELEVATION (REFERENCE-STATIC)	29.95	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	1.68	1/4 WELL VOLUME	0.42	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1116	PURGE TIME END	1131
						TOTAL PURGED (gallons)	3.0

INSTRUMENT ID#:					Ys1Pno2			Flurbu	
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (°C) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1125	1.8	1.8	0.2		6.7	21.9	520.0	0.35	6.57	fannic	su/pole
1128	0.6	2.4	1		6.6	21.9	523.9	0.30	6.76	1	1
1131	0.6	3.0	1		6.6	21.9	525.0	0.31	5.46		

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.2
SAMPLING INITIATED	1132	SAMPLING ENDED	1137	FIELD CLEANED	Y (N)
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
				SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
WEATHER CONDITIONS	Overcast 64°F				
COMMENTS					
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.			Sampler's Initials:	eh

DATE SIGNED: 2/24/15

SAMPLER'S SIGNATURE: *eh*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/14	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-9 21601	Sample ID	1501766-10	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	10.62	PURGE PUMP CODE	PP GP IBP
Total Well Depth (Feet)	20.5	REFERENCE ELEVATION (NGVD)	39.65	GROUND WATER ELEVATION (REFERENCE-STATIC)	29.03	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	1.6124	1/4 WELL VOLUME	4031	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1144	PURGE TIME END					
INSTRUMENT ID#:				455801			TACB1				
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1151	1.75	1.75	.25		6.74	22.7	424.7	.56	10.33	large particles clear	slight sulfur
1154	.75	2.50	↓		6.72	22.8	425.6	.48	7.27	↓	↓
1157	.75	3.25	↓		6.71	22.8	427.3	.33	5.35	↓	↓

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= Polypropylene, PE= Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP	PE	NP	TL	TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	.25		
SAMPLING INITIATED	1158	SAMPLING ENDED		FIELD CLEANED	Y <input checked="" type="radio"/>	CLEANING STEPS					
FIELD FILTERED?	Y <input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="radio"/>	VOC COLLECTED BY REVERSE FLOW?	Y <input checked="" type="radio"/>	SEMI-VOLS COLLECTED THROUGH TRAP?	Y <input checked="" type="radio"/>	N/A	
PRESERVATION CHECKED IN FIELD?	<input checked="" type="radio"/>	N/A	LIST PRESERVATIVES ADDED								
WEATHER CONDITIONS	Partly Sunny										
COMMENTS											
SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: SW											

DATE SIGNED:

SAMPLER'S SIGNATURE:

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-10 21602	Sample ID	1501766-11	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)		WELL CAPACITY (gal/ft)		Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.80	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.80	REFERENCE ELEVATION (NGVD)	38.34	GROUND WATER ELEVATION (REFERENCE-STATIC)	30.54	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	1.96	1/4 WELL VOLUME	0.49	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1149	PURGE TIME END	1205				
INSTRUMENT ID#:				YSI 902			Fluorby				
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (°C) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1159	2.0	2.0	0.2		6.7	22.8	794	1.16	4.46	tannic	sulphur
1202	0.6	2.6	1		6.6	22.9	793	1.43	4.15	1	1
1205	0.6	3.2	1		6.6	23.0	793	1.41	4.80	1	1

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <u>TL</u> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.2
SAMPLING INITIATED	1206	SAMPLING ENDED	1211	FIELD CLEANED	Y <u>(N)</u>
FIELD FILTERED?	Y N	FILTER SIZE (um)		DUPLICATE	Y <u>(N)</u>
PRESERVATION CHECKED IN FIELD?	<u>(V)</u> N N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N <u>(N/A)</u>
SEMI-VOLS COLLECTED THROUGH TRAP?		Y N <u>(N/A)</u>			
WEATHER CONDITIONS	Cloudy 68°				
COMMENTS					
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.				Sampler's Initials: <u>W</u>

DATE SIGNED: 2/24/15

SAMPLER'S SIGNATURE: W

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-11 21603	Sample ID	1501766-12	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	.1432	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	6.62	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.5	REFERENCE ELEVATION (NGVD)	38.26	GROUND WATER ELEVATION (REFERENCE-STATIC)	31.64	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	2.27	1/4 WELL VOLUME	0.57	3 WELL VOLUMES		5 WELL VOLUMES	
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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	0832	PURGE TIME END	0848				
INSTRUMENT ID#:				Y>1822			FW184				
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (°C) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0842	2.50	2.50	0.25		6.3	18.9	616	0.80	4.69	tannic	sulfur
0845	0.75	3.25	1		6.3	18.9	607	0.80	4.57	1	1
0848	0.75	4.00	1		6.4	19.0	604	0.74	2.21	1	1

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <u>TT</u>	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	
SAMPLING INITIATED	0849	SAMPLING ENDED	0854	FIELD CLEANED	Y <u>TT</u>
FIELD FILTERED?	Y <u>TT</u>	FILTER SIZE (um)		DUPLICATE	Y <u>TT</u>
PRESERVATION CHECKED IN FIELD?	Y <u>TT</u> N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y <u>TT</u> N/A
WEATHER CONDITIONS	Overcast/Fog 65°F				
COMMENTS					
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.				Sampler's Initials: <u>wh</u>

DATE SIGNED: 2/25/15

SAMPLER'S SIGNATURE: wh

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-12 21604	Sample ID	1501766-13	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	11.13	PURGE PUMP CODE	PP GP IBP
Total Well Depth (Feet)	20.3	REFERENCE ELEVATION (NGVD)	42.09	GROUND WATER ELEVATION (REFERENCE-STATIC)	30.96	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	1.50	1/4 WELL VOLUME	0.37	3 WELL VOLUMES		5 WELL VOLUMES	
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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	0921	PURGE TIME END	0935
INSTRUMENT ID#:							

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (°C) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
0929	1.6	1.6	0.2		6.6	22.1	779	0.57	2.09	faint	slight
0932	0.6	2.2	1		6.5	22.3	778	0.40	2.20	1	1
0935	0.6	2.8	1		6.5	22.3	778	0.39	1.99	1	1

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.2						
SAMPLING INITIATED	0936	SAMPLING ENDED	0941	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?	Y N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast / fog 65°F										
COMMENTS											
SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: <i>sw</i>											

DATE SIGNED: 2/25/15

SAMPLER'S SIGNATURE: *sw*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-13 21605	Sample ID	1501766-14	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	14.23	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.3	REFERENCE ELEVATION (NGVD)	44.79	GROUND WATER ELEVATION (REFERENCE-STATIC)	30.56	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	0.99	1/4 WELL VOLUME	0.25	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1014	PURGE TIME END	1030				
INSTRUMENT ID#:				YSIPAW2			FL1604				
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (°C) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1024	1.0	1.0	0.1		6.7	22.5	1077	0.81	10.1	fannic	sw/ghr
1027	0.3	1.3	1		6.7	22.5	1079	0.80	9.90	1	1
1030	0.3	1.6	1		6.7	22.5	1180	0.78	9.41	1	1

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.1						
SAMPLING INITIATED	1031	SAMPLING ENDED	1036	FIELD CLEANED	Y <input checked="" type="checkbox"/>	CLEANING STEPS					
FIELD FILTERED?	Y <input checked="" type="checkbox"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="checkbox"/>	VOC COLLECTED BY REVERSE FLOW?	Y <input checked="" type="checkbox"/>	SEMI-VOLS COLLECTED THROUGH TRAP?	Y <input checked="" type="checkbox"/>		
PRESERVATION CHECKED IN FIELD?		LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast / Fog 66°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <i>sh</i>					

DATE SIGNED: 2/25/15

SAMPLER'S SIGNATURE: *sh*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-14 21606	Sample ID	1501766-15	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	5.00	PURGE PUMP CODE	PP GP IBP
Total Well Depth (Feet)	20.1	REFERENCE ELEVATION (NGVD)	39.63	GROUND WATER ELEVATION (REFERENCE-STATIC)	34.63	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	2.46	1/4 WELL VOLUME	0.62	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1053	PURGE TIME END	1112
INSTRUMENT ID#:				441P102			FL6BY

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1103	2.50	2.50	0.25		7.0	18.8	683	6.60	4.40	fannic	sulphur
1106	0.75	3.25			7.0	19.1	692	6.86	2.56		
1109	0.75	4.00			7.1	19.3	698	7.00	2.56		
1112	0.75	4.75			7.1	19.3	703	7.03	2.38		

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <u>TL</u> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	
SAMPLING INITIATED	1113	SAMPLING ENDED	1118	FIELD CLEANED	Y <u>N</u>
FIELD FILTERED?	Y <u>N</u>	FILTER SIZE (um)		DUPLICATE	Y <u>N</u>
PRESERVATION CHECKED IN FIELD?	<u>Y</u> N N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N <u>N/A</u>
SEMI-VOLS COLLECTED THROUGH TRAP?				Y N <u>N/A</u>	
WEATHER CONDITIONS	overcast/fog 66°f				
COMMENTS					
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.		Sampler's Initials: <u>ad</u>		

DATE SIGNED:

2/25/15

SAMPLER'S SIGNATURE:

ad

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-15 21607	Sample ID	1501766-16	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	11632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.34	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.1	REFERENCE ELEVATION (NGVD)	42.33	GROUND WATER ELEVATION (REFERENCE-STATIC)	34.99	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	2.08	1/4 WELL VOLUME	0.52	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1237	PURGE TIME END	1254
INSTRUMENT ID#:				YSI 602			FAIRBANK

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (°C) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1248	2.2	2.2	0.2		6.3	21.7	708	0.21	2.68	tannic	sulphur
1251	0.6	2.8			6.3	21.8	695	0.20	2.40		
1254	0.6	3.4			6.3	21.9	684	0.18	2.15		

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.2						
SAMPLING INITIATED	1253	SAMPLING ENDED	1300	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/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast 68°F										
COMMENTS											

SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc.

Sampler's Initials: *en*

DATE SIGNED: 2/25/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/15	SAL WOH	1501766	Phone:	(941) 748-5543
Well Number:	GW-16 21608	Sample ID	1501766-17	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	11632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	9.32	PURGE PUMP CODE	PP GP IBP
Total Well Depth (Feet)	19.9	REFERENCE ELEVATION (NGVD)	44.41	GROUND WATER ELEVATION (REFERENCE-STATIC)	35.09	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	1.73	1/4 WELL VOLUME	0.43	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1320	PURGE TIME END	1335
INSTRUMENT ID#:				YSI PR02			Fluor

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (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)
1329	1.8	1.8	0.2		6.4	22.9	660	0.20	2.62	tannic	sw/phen
1332	0.6	2.4	1		6.5	23.1	665	0.17	3.33	1	1
1335	0.6	3.0	1		6.4	23.1	668	0.16	3.72	1	1
1338	0.6	3.6									

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <u>TL</u> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.12						
SAMPLING INITIATED	1336	SAMPLING ENDED	1341	FIELD CLEANED	Y <u>N</u>	CLEANING STEPS					
FIELD FILTERED?	Y <u>N</u>	FILTER SIZE (um)		DUPLICATE	Y <u>N</u>	VOC COLLECTED BY REVERSE FLOW?	Y <u>N</u> <u>N/A</u>	SEMI-VOLS COLLECTED THROUGH TRAP?	Y <u>N</u> <u>N/A</u>		
PRESERVATION CHECKED IN FIELD?		<u>N</u> N/A	LIST PRESERVATIVES ADDED								
WEATHER CONDITIONS	Some clouds 72°F										
COMMENTS											
SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: <u>ch</u>											

DATE SIGNED: 2/25/15

SAMPLER'S SIGNATURE: indy

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/25/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	GW-17 21609	Sample ID	1501766-18	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.90	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.8	REFERENCE ELEVATION (NGVD)	42.19	GROUND WATER ELEVATION (REFERENCE-STATIC)	34.29	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	2.11	1/4 WELL VOLUME	0.53	3 WELL VOLUMES		5 WELL VOLUMES	
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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	1356	PURGE TIME END	1416
INSTRUMENT ID#:				4518052			4.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1407	2.2	2.2	0.2		5.3	23.1	106.2	0.24	11.8	faint	sw/air
1410	0.6	2.8			5.3	23.4	103.3	0.23	10.8		
1413	0.6	3.4			5.3	23.4	103.5	0.25	9.95		
1416	0.6	4.0			5.3	23.5	104.1	0.19	9.79		

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= Polypropylene, PE= Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <input checked="" type="radio"/> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.2						
SAMPLING INITIATED	1417	SAMPLING ENDED	1422	FIELD CLEANED	<input checked="" type="radio"/>	CLEANING STEPS					
FIELD FILTERED?	<input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	<input checked="" type="radio"/>	VOC COLLECTED BY REVERSE FLOW?	<input checked="" type="radio"/>	SEMI-VOLS COLLECTED THROUGH TRAP?	<input checked="" type="radio"/>		
PRESERVATION CHECKED IN FIELD?	<input checked="" type="radio"/>	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast 72°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <i>ph</i>					

DATE SIGNED: 2/25/15

SAMPLER'S SIGNATURE: *inh*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	Duplicate GW-1	Sample ID	1501766-19	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	5.53	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.5	REFERENCE ELEVATION (NGVD)	38.68	GROUND WATER ELEVATION (REFERENCE-STATIC)	33.15	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	2.2799	1/4 WELL VOLUME	.5699	3 WELL VOLUMES		5 WELL VOLUMES	
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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	0842	PURGE TIME END	0858				
INSTRUMENT ID#:											
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (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)
0852	2.5	2.5	0.25		6.23	20.7	780	.65	8.68	large particles	none
0855	.75	3.25	1		6.25	20.8	785	.51	4.23	honey	1
0858	.75	4.00	1		6.26	20.8	786	.42	3.70	1	1

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= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	0.25						
SAMPLING INITIATED	0900	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS					
FIELD FILTERED?	Y N	FILTER SIZE (um)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N		
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast 65°F										
COMMENTS											
SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: <i>AW</i>											

DATE SIGNED: 2/24/15

SAMPLER'S SIGNATURE: *intj*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	2/24/15	SAL WO#	1501766	Phone:	(941) 748-5543
Well Number:	Field Blank	Sample ID	1501766-20	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)		WELL CAPACITY (gal/ft)		Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)		PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)		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	1/4 WELL VOLUME	3 WELL VOLUMES	5 WELL VOLUMES
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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	PURGE TIME END

INSTRUMENT ID#:	YSI 4222
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (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)
0840	-	-	-	-	6.5	21.1	7.9	3.54	0.13	clear	none

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= Polypropylene, PE= Polyethylene, NP=Non-inert Plastic, TL= 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	0841	SAMPLING ENDED	0845
FIELD FILTERED?	Y (N)	FILTER SIZE (um)	
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED	

WEATHER CONDITIONS	Overcast, Fog 62°F
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COMMENTS	
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SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc.

Sampler's Initials: *ch*

DATE SIGNED: 2/24/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Date:

2/24/15

Surface Water Sampling Log

Client Name: Manatee County Utilities	Site Location: North Weir SW-1	Client Contact Phone:
Surface Water Description:	Sample ID: 1501766 -22, -26	GPS Long. Coordinates: Lat.

Sampling Data

Sampled By/ Affiliation: Southern Analytical Laboratories	Sampler Signature: [Signature]	
Sampling Device: SAL-SAM-	Sampling Initiated At: 4:40 1640	
Sampling location relative to shore		
Method of approach (wading, boat, overhang, etc.)		
Depth of sample (ft.)	1	
Est. Flow Rate (if applicable)	moderate	
		Meter IDs:
pH	6.99	SAL-SAM-63 YS1120
Specific Conductance (umhos)	504.2	
Temperature (°C)	19.3	
Dissolved Oxygen (mg/L)	4.18	SAL-SAM-55
		SAL-SAM-55
Turbidity (NTU)	3.67	SAL-SAM- Turb
Sample Appearance		
Sample Odor		
Field Decontamination: Y <input checked="" type="radio"/> N	Field Filtered: Y <input checked="" type="radio"/> N	Duplicate: <input checked="" type="radio"/> N
Preservation Checked in the field? <input checked="" type="radio"/> N NA	Initials: J	Date: 2/24/15
Site and Weather Conditions		
Partly Sunny 73°F		

Comments (use back of form if necessary)

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Date: 2/24/15

Surface Water Sampling Log

Client Name: Manatee County Utilities	Site Location: south weir SW2-B	Client Contact Phone:
Surface Water Description:	Sample ID: 1501766 - 24	GPS Long. Coordinates: Lat.

Sampling Data

Sampled By: JAW GERRARD / Eric Glass	Sampler Signature: [Signature]
Affiliation: Southern Analytical Laboratories	Sampling Initiated At: 1600
Sampling Device: SAL-SAM-	
Sampling location relative to shore	
Method of approach (wading, boat, overhang, etc.)	
Depth of sample (ft.)	
Est. Flow Rate (if applicable)	
	Meter IDs:
pH: 6.56	SAL-SAM-63
Specific Conductance (umhos): 681	YS (Prest)
Temperature (°C): 18.0	SAL-SAM-55
Dissolved Oxygen (mg/L): 0.36	SAL-SAM-55
Turbidity (NTU): 11.8	SAL-SAM-Flurb1
Sample Appearance: tannic	
Sample Odor	
Field Decontamination: Y <input checked="" type="checkbox"/>	Field Filtered: Y <input checked="" type="checkbox"/> Duplicate: Y <input checked="" type="checkbox"/>
Preservation Checked in the field? <input checked="" type="checkbox"/> N NA	Initials: [Signature] Date: 2/24/15
Site and Weather Conditions	
Overcast 70°F	

Comments (use back of form if necessary)

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

WASTEWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division		Project:	Field Blank SW		Contact:		
						Phone:		
Date of Sample:	2/24/15		SAL Workorder #	1501766 - 28		Location:		
SAL Audit Performed:	Y <input checked="" type="checkbox"/>	Auditor Name:			Client Representative on Site?	Y <input checked="" type="checkbox"/>	Rep. Name:	
		Signature:					Signature:	

SAMPLE DATA

Sampled By:	SAL	Client	Compositor Belongs To:	SAL	Client	N/A	COMP Bottle Belongs To:	SAL	Client	N/A	
Compositor ID:			Bottle ID								
Intake Tubing Type:	PP	PE	NP	TL	TT	SI	Intake Tubing Lot:			Pump Tubing Lot:	

COMPOSITE DATA

Composite ID Number:										
START	Date:		Time:		Compositor Set-up By:					
STOP	Date:		Time:		Compositor Picked-up By:					
Composite Type:	Time	Flow	Continuous	Collect Sample Every:		Minutes	Gallons			
Calibrated Sample Volume:				mLs						
Programmed Number of Samples:				Actual Number of Samples Collected:						
Final Compositor Temperature:				°C	Ice Present in Compositor at Pick-up?	Yes			No	

GRAB SAMPLE DATA

Date Collected:	2/24/15	Time Collected:	1540	Collected By:	ey
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FIELD PARAMETERS

PARAMETER	(Previous Average)	READING	UNITS	PERMIT LIMIT (low)	PERMIT LIMIT (high)	INSTRUMENT ID
pH		7.9				YS11111
Temp		22.9				
sp. Cond		6.3				
DO		6.21				
turb		0.22				FTurb 1
Preservation Checked in Field?		Y		Checked By:	ey	

List any Preservatives	
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Comments:	Cloudy, 70°F / Color: clear
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Sampler(s) Signature:	ey	Date:	2/24/15
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Reviewed By:		Date:	
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SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

WASTEWATER SAMPLING LOG

Client Name:	Manatee County		Project:	Landfill	Contact:	
					Phone:	
Date of Sample:		SAL Workorder #	1501766 - 30		Location:	
SAL Audit Performed:	Y <input checked="" type="checkbox"/>	Auditor Name:			Client Representative on Site?	Y <input checked="" type="checkbox"/>
		Signature:				Signature:

SAMPLE DATA

Sampled By:	SAL	Client	Compositor Belongs To:	SAL	Client	N/A	COMP Bottle Belongs To:	SAL	Client	N/A
Compositor ID:			Bottle ID							
Intake Tubing Type:	PP	PE	NP	TL	TT	SI	Intake Tubing Lot:			Pump Tubing Lot:

COMPOSITE DATA

Composite ID Number:										
START	Date:			Time:			Compositor Set-up By:			
STOP	Date:			Time:			Compositor Picked-up By:			
Composite Type:	Time	Flow	Continuous		Collect Sample Every:		Minutes	Gallons		
Calibrated Sample Volume:				mLs						
Programmed Number of Samples:				Actual Number of Samples Collected:						
Final Compositor Temperature:				°C	Ice Present in Compositor at Pick-up?	Yes			No	

GRAB SAMPLE DATA

Date Collected:	2/24/15	Time Collected:	1250	Collected By:	JB
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FIELD PARAMETERS

PARAMETER	(Previous Average)	READING	UNITS	PERMIT LIMIT (low)	PERMIT LIMIT (high)	INSTRUMENT ID
Temp		26.7				YSTP01
SpC		5777				
DO		.13				
pH		6.80				
Alk		52.2				JURB1
Color		BROWN				
Preservation Checked in Field?	Y			Checked By:	JB	

List any Preservatives						
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Comments:	Duplicate @ 1255 LEACHATE # 1250					
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Sampler(s) Signature:	JAL - [Signature]		Date:	2/24/15		
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Reviewed By:			Date:			
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SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

WASTEWATER SAMPLING LOG

Client Name:	MANATEE Co		Project:	LANDFILL		Contact:		
						Phone:		
Date of Sample:			SAL Workorder #	1501766-31		Location:		
SAL Audit Performed:	Y N	Auditor Name:				Client Representative on Site?	Y N	Rep. Name:
		Signature:						Signature:

SAMPLE DATA

Sampled By:	SAL Client	Compositor Belongs To:	SAL Client N/A	COMP Bottle Belongs To:	SAL Client N/A
Compositor ID:		Bottle ID			
Intake Tubing Type:	PP PE NP TL TT SI	Intake Tubing Lot:		Pump Tubing Lot:	

COMPOSITE DATA

START		Date:		Time:		Compositor Set-up By:	
STOP		Date:		Time:		Compositor Picked-up By:	
Composite Type:	Time Flow Continuous		Collect Sample Every:		Minutes Gallons		
Calibrated Sample Volume:		mLs					
Programmed Number of Samples:		Actual Number of Samples Collected:					
Final Compositor Temperature:		°C	Ice Present in Compositor at Pick-up?	Yes	No		

GRAB SAMPLE DATA

Date Collected:	2/24/15	Time Collected:	1450	Collected By:	JB
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FIELD PARAMETERS

PARAMETER	(Previous Average)	READING	UNITS	PERMIT LIMIT (low) (high)	INSTRUMENT ID
Temp		23.6°			YSI 60A
SFC		4297			
DO		.92			
pH		6.75			
NTU		24.5			TRB1
Color		Brown			
Preservation Checked in Field?	Y		Checked By:	JB	

List any Preservatives	
Comments:	leachate #2

Sampler(s) Signature:		Date:	2/24/15
Reviewed By:		Date:	

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

WASTEWATER SAMPLING LOG

Client Name:	Mantee Co		Project:	Landfill Leachate 3		Contact:		
						Phone:		
Date of Sample:			SAL Workorder #	1501766-32		Location:		
SAL Audit Performed:	Y N	Auditor Name:				Client Representative on Site?	Y N	Rep. Name:
		Signature:						Signature:

SAMPLE DATA

Sampled By:	SAL Client	Compositor Belongs To:	SAL Client N/A	COMP Bottle Belongs To:	SAL Client N/A
Compositor ID:		Bottle ID:			
Intake Tubing Type:	PP PE NP TL TT SI	Intake Tubing Lot:		Pump Tubing Lot:	

COMPOSITE DATA

Composite ID Number:					
START	Date:		Time:		Compositor Set-up By:
STOP	Date:		Time:		Compositor Picked-up By:
Composite Type:	Time Flow Continuous		Collect Sample Every:		Minutes Gallons
Calibrated Sample Volume:		mLs			
Programmed Number of Samples:		Actual Number of Samples Collected:			
Final Compositor Temperature:		°C	Ice Present in Compositor at Pick-up?	Yes	No

GRAB SAMPLE DATA

Date Collected:	2/24/15	Time Collected:	1400	Collected By:	JB JB
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FIELD PARAMETERS

PARAMETER	(Previous Average)	READING	UNITS	PERMIT LIMIT (low) (high)	INSTRUMENT ID
pH		6.3			YSI 100
Temp		24.3			
Sp Con		1301			
DO		0.24			
Turb		4.39			TARB1
Color		Brown			
Preservation Checked in Field?		Y	Checked By:	[Signature]	

List any Preservatives	
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Comments:	Leachate 3
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Sampler(s) Signature:	[Signature]	Date:	2/24/15
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Reviewed By:		Date:	
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SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

WASTEWATER SAMPLING LOG

Client Name:	MANTEE County		Project:	LANDF. 11		Contact:		
						Phone:		
Date of Sample:			SAL Workorder #	1501766-33		Location:		
SAL Audit Performed:	Y <input checked="" type="checkbox"/>	Auditor Name:			Client Representative on Site?	Y <input checked="" type="checkbox"/>	Rep. Name:	
		Signature:					Signature:	

SAMPLE DATA

Sampled By:	SAL Client	Compositor Belongs To:	SAL Client N/A	COMP Bottle Belongs To:	SAL Client N/A
Compositor ID:		Bottle ID			
Intake Tubing Type:	PP PE NP TL TT SI	Intake Tubing Lot:		Pump Tubing Lot:	

COMPOSITE DATA

START	Date:		Time:		Compositor Set-up By:	
STOP	Date:		Time:		Compositor Picked-up By:	
Composite Type:	Time Flow Continuous		Collect Sample Every:		Minutes Gallons	
Calibrated Sample Volume:		mLs				
Programmed Number of Samples:		Actual Number of Samples Collected:				
Final Compositor Temperature:		°C	Ice Present in Compositor at Pick-up?	Yes	No	

GRAB SAMPLE DATA

Date Collected:	2/24/15	Time Collected:	1255	Collected By:	
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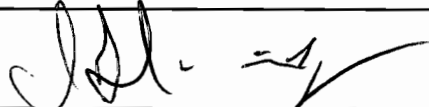
FIELD PARAMETERS

PARAMETER	(Previous Average)	READING	UNITS	PERMIT LIMIT (low) (high)	INSTRUMENT ID
Temp		26.7			YSI Pro 1
SpC		5777			
DO		.13			
pH		6.80			
NTU		52.2			TURB1
Color		Brown			

Preservation Checked in Field?	Y	Checked By:	sb
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List any Preservatives	
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Comments:	Duplicate WACHATE #1
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Sampler(s) Signature:		Date:	2/24/15
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Reviewed By:		Date:	
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SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

WASTEWATER SAMPLING LOG

Client Name:	MANATEE County		Project:	Field Blank LANDFILL		Contact:	
Date of Sample:	2/24/15		SAL Workorder #	1501766 -34		Phone:	
SAL Audit Performed:	Y <input checked="" type="radio"/>	Auditor Name:			Client Representative on Site?	Y <input checked="" type="radio"/>	Rep. Name:
		Signature:					Signature:

SAMPLE DATA

Sampled By:	SAL Client	Compositor Belongs To:	SAL Client N/A	COMP Bottle Belongs To:	SAL Client N/A
Compositor ID:		Bottle ID			
Intake Tubing Type:	PP PE NP TL TT SI	Intake Tubing Lot:		Pump Tubing Lot:	

COMPOSITE DATA

START	Date:		Time:		Compositor Set-up By:	
STOP	Date:		Time:		Compositor Picked-up By:	
Composite Type:	Time Flow Continuous		Collect Sample Every:		Minutes Gallons	
Calibrated Sample Volume:		mLs				
Programmed Number of Samples:		Actual Number of Samples Collected:				
Final Compositor Temperature:		°C	Ice Present in Compositor at Pick-up?	Yes	No	

GRAB SAMPLE DATA


Date Collected:	2/24/15	Time Collected:	1230	Collected By:	JB
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FIELD PARAMETERS

PARAMETER	(Previous Average)	READING	UNITS	PERMIT LIMIT (low) (high)	INSTRUMENT ID
Temp		24.1			YS1801
SpC		19.9			
DO		4.20			
pH		7.44			
Color		BROWN			
NTU	0.70 th	0.70			Turb1
Preservation Checked in Field?	Y		Checked By:	JB	

List any Preservatives

Comments:

Sampler(s) Signature:		Date:	2/24/15
Reviewed By:		Date:	