



PASCO COUNTY, FLORIDA

"Bringing Opportunities Home"

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UTILITIES SERVICES BRANCH
PUB. WKS./UTILITIES BLDG. S-213
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

18 December 2014

Mr. John Morris
Environmental Specialist III
Waste Management Section
Florida Department of
Environmental Protection
13051 N. Telecom Pkwy,
Temple Terrace, FL 33637

RE: Pasco County Resource Recovery
WACS FAC ID: 45799
Semester II, 2014

Dear Mr. Morris

This submittal is for the Semester II, 2014 groundwater monitoring at the Pasco County Resource Recovery site which includes the West Pasco Class I and Class III handfills. Included in this submittal are the following:

1. Summary of exceedences.
2. Ground water contour maps
3. Chain of Custody Forms
4. Water levels, water elevation table.
5. Field sampling reports
6. Laboratory and Field EDDs
7. Laboratory error logs
8. Ground Water Monitoring Report Certification

If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern
Laboratory Manager

Enc.: 1
cc: David Rojas, CDMSmith, Westshore Center Suite 875, 1715 North Westshore Blvd., Tampa, FL 33607
Robert J. Sigmond, Utilities Fiscal and Business Services Director
John Power, Solid Waste Facility Director

"Pasco County—Florida's premier county for balanced economic growth, environmental sustainability, and first class service."



Florida Department of Environmental Protection

2600 Blair Stone Road
Tallahassee, Florida 32399-2400

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name PASCO COUNTY RESOURCE RECOVERY

Address 14230 HAYS RD.

City SPRING HILL

Zip 34610

County PASCO

Telephone Number (727) 856-0119

(2) WACS Facility ID 45799

(3) DEP Permit Number _____

(4) Authorized Representative's Name Candia E. Mulhern

Title Laboratory Manager

Address 8864 Government Dr.

City New Port Richey

Zip 34654

County PASCO

Telephone Number (727) 847-8902

Email address (if available) cmulhern@pascocountyfl.net

CERTIFICATION

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

18 Dec 2014 Candia E. Mulhern

(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Pasco County Utilities Environmental Laboratory

Analytical Lab NELAC / HRS Certification # E44123

Lab Name Pasco County Utilities Environmental Laboratory

Address 8864 Government Dr.

Phone Number (727) 847-8902

Email address (if available) cdhildress@pascocountyfl.net

Northwest District
160 Government Center
Jacksonville, FL 32209
904-955-4300

Nonwest District
7825 Baymeadows Way, Ste. 200 B
Jacksonville, FL 32256
904-907-3300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32817
407-984-7555

Southwest District
13051 N. Telecom Pkwy.
Temple Terrace, FL 33637
813-932-7600

South District
2285 Victoria Ave., Ste. 304
West Palm Beach, FL 33411
561-953-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-4800

DDP Form # 02-20 (06/13) F.A.C.
From Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Repealed in Rule 62-201.3 (09/13) F.A.C.



PASCO COUNTY, FLORIDA

"Bringing Opportunities Home"

PASCO COUNTY RESOURCE RECOVERY LF
EXCEEDED ANALYTES - SEMESTER II 2014

July-Dec 2014

WELL #	SAMPLE DATE	ANALYTE	RESULT	UNITS	RESAMPLE	RESULT	UNITS
2MW2	1-Oct-14	pH	5.62	std units	No	---	---
4MW-2	1-Oct-14	pH	6.16	std units	No	---	---
4MW-21	15-Oct-14	pH	6.40	std units	No	---	---

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PART II ANALYTICAL RESULTS

Facility ID #: 45799
Test Site ID #: 2381
Well Name: 2MW2
Site: Resource Recovery Class I Landfill Hays Road
Sampling Date/Time: 10/1/2014 @ 08:00
Report Period: 2014 - QUARTER IV

Classification of Groundwater: Surficial
Groundwater Elevation (NGVD): DRY
Well Pugged: YES
Well Type: BG

Store Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000929	Sodium	Well Wizard Deel Mon. System	No	EPA 200.7		DRY	mg/L	0.19	mg/L
001045	Iron	"	No	EPA 200.7		"	ug/L	1.5	ug/L
071900	Mercury	"	No	SM 3112B		"	ug/L	0.03	ug/L
000400	pH-Field	"	No	FDEP FT 11		"	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14		"	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12		"	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15		"	mg/L	0.1	mg/L
082079	Turbidity	"	No	FDEP FT 16		"	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0		"	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C		"	mg/L	0.1	mg/L
000610	Ammonia	"	No	SM 4500NH ₄ H		"	mg/L	0.03	mg/L
000620	Nitrate	"	No	SM 4500NO ₃ F		"	mg/L	0.04	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B		"	Obs.	0	Obs.
072020	Water Level (MSL)	"	No	DEP SOP		"	Feet NGVD		Feet NGVD

PART II ANALYTICAL RESULTS

Facility ID #: 45728
 Well Site ID #: 2386
 Well Name: AMW-1
 Classification of Groundwater: Floridan
 Groundwater Elevation (NGVD): 33.86
 Site: Resource Recovery Class I Landfill Hays Road
 Sampling Date/Time: 10/23/14 @ 8:30
 Report Period: 2014 - Quarter IV
 Well Purged: YES
 Well Type: BG

Station Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
001945	Iron	"	No	EPA 200.7	10/31/14 16:00	4.1	ug/L	1.6	ug/L
071900	Mercury	"	No	SM 312B	11/06/14 11:00	0.03 U	ug/L	0.03	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/23/14 9:30	7.10	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/23/14 9:30	23.57	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/23/14 9:30	841	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/23/14 9:30	1.11	mg/L	0.1	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/23/14 9:30	0.0	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	10/27/14 9:00	108	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/24/14 13:30	488	mg/L	0.1	mg/L
000910	Ammonia	"	No	SM 4500NH ₄	10/24/14 14:30	0.03 U	mg/L	0.03	mg/L
000820	Nitrate	"	No	SM 4500NO ₃ F	11/02/14 9:00	1.35	mg/L	0.04	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	10/22 9:30	CLEAR	Obs.	0	Obs.
072020	Water Level (NLSL)	"	No	"	10/23/14 9:30	33.86	Feet NGVD	"	Feet NGVD

SOUTHERN ANALYTICAL LABORATORIES, INC.

Pasco County Environmental Laboratory
 8864 Government Drive
 New Port Richey, FL 34654

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name: AMW-1 2386
 Sample Description: Groundwater
 Matrix: SMA Sample Number 14410725-24
 Date/Time Collected: 10/23/14 08:30
 Collected by: W. Merfield
 Date/Time Received: 10/23/14 11:05

Parameters	Units	Results	Method	PQL	MDL	Prepared	Analyzed	Dilution
Visible Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
1,2-Dichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		10/31/14 14:30	1
1,2,3-Trichloropropane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/31/14 14:30	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/31/14 14:30	1
1,2-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
1,4-Dichlorobenzene	ug/L	2.0 U	EPA 8260	4.0	2.0		10/31/14 14:30	1
2-Butanone	ug/L	2.1 U	EPA 8260	4.0	2.1		10/31/14 14:30	1
2-Hexanone	ug/L	2.6 U	EPA 8260	4.0	2.6		10/31/14 14:30	1
4-Methyl-2-pentanone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/31/14 14:30	1
Acetone	ug/L	1.3 U	EPA 8260	4.0	1.3		10/31/14 14:30	1
Acrylonitrile	ug/L	0.1 U	EPA 8260	0.8	0.1		10/31/14 14:30	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/31/14 14:30	1
Bromochloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/31/14 14:30	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
Bromofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		10/31/14 14:30	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
Chlorobenzene	ug/L	0.4 U	EPA 8260	0.8	0.4		10/31/14 14:30	1
Chloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
Chloroform	ug/L	0.4 U	EPA 8260	0.8	0.4		10/31/14 14:30	1
Chloromethane	ug/L	0.8 U	EPA 8260	0.8	0.09		10/31/14 14:30	1
cis-1,2-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
cis-1,3-Dichloropropane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/31/14 14:30	1
Dibromochloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
Dibromomethane	ug/L	0.8 U	EPA 8260	0.8	0.2		10/31/14 14:30	1
Ethylbenzene	ug/L	0.8 U	EPA 8260	0.8	0.08		10/31/14 14:30	1
Iodobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/31/14 14:30	1

SOUTHERN ANALYTICAL LABORATORIES, INC.



Pasco County Environmental Laboratory
 8864 Government Drive
 New Port Richey, FL 34854

November 5, 2014
 Work Order: 1410725

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name
 4MM-1-2386
Sample Description
 Groundwater
Matrix
 SAL Sample Number: 1410725-24
 Date/Time Collected: 10/22/14 09:30
 Collected by: W. Martindale
 Date/Time Received: 10/23/14 11:05

Parameters	Units	Results	Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2	10/28/14 08:41	10/28/14 10:34	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05	10/27/14 10:19	10/28/14 11:30	1
Tetrachloroethane	ug/L	0.1 u	EPA 8280	0.8	0.1	10/31/14 14:30	10/31/14 14:30	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09	10/31/14 14:30	10/31/14 14:30	1
trans-1,2-Dichloroethane	ug/L	0.2 u	EPA 8280	0.8	0.2	10/31/14 14:30	10/31/14 14:30	1
trans-1,3-Dichloroethane	ug/L	0.1 u	EPA 8280	0.8	0.1	10/31/14 14:30	10/31/14 14:30	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8280	0.8	0.3	10/31/14 14:30	10/31/14 14:30	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2	10/31/14 14:30	10/31/14 14:30	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2	10/31/14 14:30	10/31/14 14:30	1
Vinyl acetate	ug/L	0.4 u	EPA 8280	1.6	0.4	10/31/14 14:30	10/31/14 14:30	1
Vinyl chloride	ug/L	0.3 u	EPA 8280	1.6	0.3	10/31/14 14:30	10/31/14 14:30	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2	10/31/14 14:30	10/31/14 14:30	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2	10/31/14 14:30	10/31/14 14:30	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1	10/31/14 14:30	10/31/14 14:30	1
Surrogate for EPA 8260 1,2-Dichloroethane-d4 Lims 65-135 Surrogate for EPA 8260 4-Bromofluorobenzene Lims 65-135 Surrogate for EPA 8260 Dibromofluorobenzene Lims 65-135 Surrogate for EPA 8260 Toluene-d8 Lims 65-135								

Pesticide Analyses

1,2-Dibromo-3-chloropropane ug/L 0.0055 u EPA 8011 0.022 0.0055 10/24/14 10:08 10/28/14 03:22 1
 1,2-Dibromochloroethane ug/L 0.0055 u EPA 8011 0.022 0.0055 10/24/14 10:08 10/28/14 03:22 1
 Surrogate for EPA 8011 2-Bromo-1-chloropropane 109 % Lims 85-122

Metals

Antimony	ug/L	1.0 u	EPA 6020	50	1.0	10/28/14 08:41	10/28/14 10:34	1
Arsenic	ug/L	1.2 i	EPA 6020	5.0	0.83	10/27/14 09:56	10/28/14 13:14	1
Barium	ug/L	26	EPA 6020	0.50	0.18	10/27/14 09:56	10/28/14 13:14	1
Beryllium	ug/L	0.086 u	EPA 6010	1.0	0.096	10/27/14 10:19	10/28/14 11:30	1
Cadmium	ug/L	0.27 u	EPA 6020	0.50	0.27	10/27/14 09:56	10/28/14 13:14	1
Chromium	ug/L	0.35 u	EPA 6020	5.0	0.35	10/27/14 09:56	10/28/14 13:14	1
Cobalt	ug/L	10 u	EPA 6010	100	10	10/27/14 10:19	10/28/14 11:30	1
Copper	ug/L	0.46 i	EPA 8020	0.50	0.13	10/27/14 09:56	10/28/14 13:14	1
Lead	ug/L	0.25 u	EPA 6020	0.50	0.25	10/27/14 10:19	10/28/14 13:14	1
Nickel	ug/L	7.1	EPA 6020	5.0	0.46	10/27/14 09:56	10/28/14 13:14	1

Florida Certification Number: EA1179
 NELAP Accredited
 Francis L. Daniels, Laboratory Director
 Leslie C. Boardman, Q.A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.



Pasco County Environmental Laboratory
 8864 Government Drive
 New Port Richey, FL 34854

November 5, 2014
 Work Order: 1410725

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name
 4MM-1-2386
Sample Description
 Groundwater
Matrix
 SAL Sample Number: 1410725-24
 Date/Time Collected: 10/22/14 09:30
 Collected by: W. Martindale
 Date/Time Received: 10/23/14 11:05

Parameters	Units	Results	Method	PQL	MDL	Prepared	Analyzed	Dilution
Selenium	ug/L	2.2 i	EPA 6020	5.0	0.93	10/28/14 08:41	10/28/14 10:34	1
Silver	ug/L	1.2 i	EPA 6010	20	1.1	10/27/14 10:19	10/28/14 11:30	1
Thallium	ug/L	0.24 u	EPA 6020	0.50	0.24	10/27/14 09:56	10/28/14 13:14	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	10/27/14 10:19	10/28/14 11:30	1
Zinc	ug/L	0.88 u	EPA 6020	5.0	0.88	10/27/14 09:56	10/28/14 15:08	1

Florida Certification Number: EA1179
 NELAP Accredited
 Francis L. Daniels, Laboratory Director
 Leslie C. Boardman, Q.A. Manager

PART III ANALYTICAL RESULTS

Facility ID #: 46729
 Test Site ID #: 2382
 Well Name: 2MW-2
 Classification of Groundwater: Sudicial
 Groundwater Elevation (NGVD): 33.73

Site: Resource Recovery Class Landfill Hays Road
 Sampling Date/Time: 10/07/14 @ 13:10
 Report Period: 2014 Quarter IV
 Well Purged: YES
 Well Type: BG

Store Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000929	Sodium	Well Wizard Dred. Mon. System	No	EPA 200.7	10/03/14 10:40	277	mg/L	0.19	mg/L
001045	Iron	"	No	EPA 200.7	10/03/14 10:40	60.7	ug/L	1.6	ug/L
071900	Mercury	"	No	SM 3172B	10/03/14 10:30	0.03 U	ug/L	0.03	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/07/14 13:10	5.62	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/07/14 13:10	28.73	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/07/14 13:10	155	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/07/14 13:10	2.84	mg/L	0.1	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/07/14 13:10	1.3	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	10/07/14 9:00	4.97	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/03/14 16:55	102	mg/L	0.1	mg/L
000610	Ammonia	"	No	SM 4500NH ₄ H	10/24/14 10:00	0.03 U	mg/L	0.03	mg/L
000920	Nitrate	"	No	SM 4500NO ₃ F	10/03/14 11:00	6.50	mg/L	0.04	mg/L
900216	Color by Obs. (Field)	"	No	SM 2170B	10/1 13:10	CLEAR	Obs.	0	Obs.
072020	Water level (MSL)	"	No	"	10/01/14 13:10	33.73	Feet NGVD	Feet NGVD	Feet NGVD

SOUTHERN ANALYTICAL LABORATORIES, INC.

Pasco County Environmental Laboratory
 8864 Government Drive
 New Port Richey, FL 34654

Laboratory Report

November 5, 2014
 Work Order: 1410725

Project Name: PASCO COUNTY RESOURCE RECOVERY
 Sample Description: 2MW-2 2382 Groundwater
 SAL Sample Number: 1410725-02
 Date/Times Collected: 10/07/14 13:10
 Collected by: W. Marfield
 Date/Times Received: 10/03/14 10:45

Volatile Organic Compounds

Parameter	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		10/06/14 19:22	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:22	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:22	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/06/14 19:22	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		10/06/14 19:22	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		10/06/14 19:22	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/06/14 19:22	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		10/06/14 19:22	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:22	1
Bromochloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:22	1
Bromodichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
Bromofrom	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		10/06/14 19:22	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:22	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 19:22	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 19:22	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		10/06/14 19:22	1
cis-1,3-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
Dibromochloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:22	1
Dichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		10/06/14 19:22	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:22	1

Florida Certification Number: E34173
 NELAP Accredited

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

SOUTHERN ANALYTICAL LABORATORIES, INC.



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 PASCO COUNTY ENVIRONMENTAL LABORATORY
 8864 Government Drive
 New Port Richey, FL 34654

November 5, 2014
 Work Order: 1410725

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name: 2MMW-2-2382
 Sample Description: Groundwater
 Matrix: SAL Sample Number: 1410725-2
 Date/Time Collected: 10/07/14 13:10
 Collected by: W. Hartrand
 Date/Time Received: 10/09/14 10:45

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 19:22	10/06/14 19:22	1
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05	10/06/14 19:22	10/06/14 19:22	1
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 19:22	10/06/14 19:22	1
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09	10/06/14 19:22	10/06/14 19:22	1
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 19:22	10/06/14 19:22	1
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 19:22	10/06/14 19:22	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3	10/06/14 19:22	10/06/14 19:22	1
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 19:22	10/06/14 19:22	1
Trichloroethylene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 19:22	10/06/14 19:22	1
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4	10/06/14 19:22	10/06/14 19:22	1
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3	10/06/14 19:22	10/06/14 19:22	1
Xylenes-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2	10/06/14 19:22	10/06/14 19:22	1
Xylenes-o	ug/L	0.2 U	EPA 8260	1.6	0.2	10/06/14 19:22	10/06/14 19:22	1
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 19:22	10/06/14 19:22	1
Surrogate for EPA 8260				100%	65-135			
Surrogate for EPA 8260				102%	65-135			
Surrogate for EPA 8260				106%	65-135			
Surrogate for EPA 8260				107%	65-135			
Surrogate for EPA 8260				108%	65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 U	EPA 8011	0.022	0.0054	10/06/14 13:41	10/07/14 05:25	1
1,2-Dibromochloroethane	ug/L	0.0054 U	EPA 8011	0.022	0.0054	10/06/14 13:41	10/07/14 05:25	1
Surrogate for EPA 8011				108%	85-123			

Metals

Antimony	ug/L	1.0 U	EPA 6020	50	1.0	10/21/14 12:42	10/21/14 13:31	1
Arsenic	ug/L	0.93 U	EPA 6020	5.0	0.93	10/13/14 09:38	10/17/14 16:19	1
Barium	ug/L	56	EPA 6020	0.50	0.18	10/13/14 09:38	10/17/14 16:19	1
Beryllium	ug/L	0.23 U	EPA 6010	1.0	0.096	10/07/14 09:59	10/10/14 14:58	1
Cadmium	ug/L	0.48 U	EPA 6020	0.50	0.27	10/13/14 09:38	10/17/14 16:19	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	10/13/14 09:38	10/17/14 16:19	1
Cobalt	ug/L	10 U	EPA 6010	100	10	10/07/14 09:59	10/10/14 14:58	1
Copper	ug/L	3.6	EPA 6020	0.50	0.13	10/13/14 09:38	10/17/14 16:19	1
Lead	ug/L	0.41 U	EPA 6020	0.50	0.25	10/13/14 09:38	10/17/14 16:19	1
Nickel	ug/L	0.75 U	EPA 6020	5.0	0.46	10/13/14 09:38	10/17/14 16:19	1

Florida Certification Number: EBA129
 NELAP Accredited

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

SOUTHERN ANALYTICAL LABORATORIES, INC.



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 PASCO COUNTY ENVIRONMENTAL LABORATORY
 8864 Government Drive
 New Port Richey, FL 34654

November 5, 2014
 Work Order: 1410725

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name: 2MMW-2-2382
 Sample Description: Groundwater
 Matrix: SAL Sample Number: 1410725-2
 Date/Time Collected: 10/07/14 13:10
 Collected by: W. Hartrand
 Date/Time Received: 10/09/14 10:45

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Selenium	ug/L	0.93 U	EPA 6020	5.0	0.93	10/21/14 12:42	10/21/14 13:31	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	10/07/14 09:59	10/10/14 14:58	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	10/13/14 09:38	10/17/14 16:19	1
Vanadium	ug/L	8.5 U	EPA 6010	10	7.8	10/07/14 09:59	10/10/14 14:58	1
Zinc	ug/L	6.4	EPA 6020	5.0	0.88	10/13/14 09:38	10/20/14 15:12	1

Florida Certification Number: EBA129
 NELAP Accredited

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

PART III ANALYTICAL RESULTS

Facility ID #: 45729 Site: Resource Recovery Class I Landfill Hays Road
 Test Site ID #: 2387 Sampling Date/Time: 10/01/2014 @ 11:48
 Well Name: 4MW-2 Report Period: 2014 Quarter IV
 Classification of Groundwater: Florida Well Purged: YES
 Groundwater Elevation (NGVD): 33.41 Well Type: BG

Store Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
001046	Iron	"	No	EPA 200.7	10/03/14 10:40	15.6	ug/L	1.6	ug/L
071800	Mercury	"	No	SM 3172B	10/03/14 10:30	0.8	ug/L	0.03	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/01/14 11:48	6.16	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/01/14 11:48	26.91	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/01/14 11:48	201	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/01/14 11:48	1.35	mg/L	0.1	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/01/14 11:48	0.0	NTU	0.00	NTU
000940	Chloride	"	No	EPA 200.0	10/07/14 9:00	5.70	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/03/14 16:55	124	mg/L	0.1	mg/L
000610	Ammonia	"	No	SM 450NH ₄ H	10/24/14 10:00	0.03	U	0.03	mg/L
000620	Nitrate	"	No	SM 450NO ₃ F	10/03/14 11:00	1.13	mg/L	0.04	mg/L
902016	Color by Obs. (Field)	"	No	SM 2120B	10/1 11:48	CLEAR	Obs.	0	Obs.
072020	Water Level (MSL)	"	No	"	10/01/14 11:48	33.41	Feet NGVD	"	Feet NGVD

SOUTHERN ANALYTICAL LABORATORIES, INC.

Pasco County Environmental Laboratory
 8884 Government Drive
 New Port Richey, FL 34654

Laboratory Report

Project Name: PASCO COUNTY RESOURCE RECOVERY
 Sample Description: 4MW-2 2387
 Name: Groundwater
 SALS Sample Number: 1410725-01
 Date/Time Collected: 10/01/14 11:48
 Collected by: W. Marshall
 Date/Time Received: 10/03/14 10:45

Parameters	Units	Results	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		10/06/14 18:51	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 18:51	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 18:51	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/06/14 18:51	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		10/06/14 18:51	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		10/06/14 18:51	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/06/14 18:51	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		10/06/14 18:51	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 18:51	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 18:51	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
Bromotrichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
Bromodom	ug/L	0.4 U	EPA 8260	0.8	0.4		10/06/14 18:51	1
Bromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 18:51	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 18:51	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
Chloroethene	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 18:51	1
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		10/06/14 18:51	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 18:51	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		10/06/14 18:51	1
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 18:51	1

Florida Certification Number: EK1723
 Francis I. Daniels, Laboratory Director
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 Leslie C. Boardman, Q.A. Manager



November 5, 2014
 Work Order: 1410725

SOUTHERN ANALYTICAL LABORATORIES, INC.



Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

November 5, 2014
Work Order: 1410725

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name
Sample Description
Matrix
SAL Sample Number
Date/Time Collected
Collected by
Date/Time Received

4MW-2-2387
Groundwater
1410725-01
10/07/14 11:48
W. Marfield
10/03/14 10:45

Parameters	Units	Results *	Method	PQL	MCL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 18:51	10/06/14 18:51	1
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05	10/06/14 18:51	10/06/14 18:51	1
Tetrachloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 18:51	10/06/14 18:51	1
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09	10/06/14 18:51	10/06/14 18:51	1
trans-1,2-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 18:51	10/06/14 18:51	1
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 18:51	10/06/14 18:51	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3	10/06/14 18:51	10/06/14 18:51	1
Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 18:51	10/06/14 18:51	1
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 18:51	10/06/14 18:51	1
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4	10/06/14 18:51	10/06/14 18:51	1
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.8	0.3	10/06/14 18:51	10/06/14 18:51	1
Xylenes-m+p	ug/L	0.2 U	EPA 8260	1.8	0.2	10/06/14 18:51	10/06/14 18:51	1
Xylenes-o	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 18:51	10/06/14 18:51	1
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 18:51	10/06/14 18:51	1
Surrogate for EPA 8260				111 %	65-135			
Surrogate for EPA 8260				104 %	65-135			
Surrogate for EPA 8260				106 %	65-135			
Surrogate for EPA 8260				100 %	65-135			
1,2-Dichloroethane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	10/06/14 13:41	10/07/14 05:03	1
1,2-Dichloroethane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	10/06/14 13:41	10/07/14 05:03	1
Surrogate for EPA 8011				106 %	85-123			
2-Bromo-1-chloropropane								
1,2-Dibromo-3-chloropropane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	10/06/14 13:41	10/07/14 05:03	1
1,2-Dibromoethane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	10/06/14 13:41	10/07/14 05:03	1
Surrogate for EPA 8011				106 %	85-123			
Metals								
Antimony	ug/L	1.0 U	EPA 6020	50	1.0	10/21/14 12:42	10/21/14 13:28	1
Arsenic	ug/L	1.4 U	EPA 6020	5.0	0.83	10/13/14 09:28	10/14/14 17:41	1
Barium	ug/L	5.9	EPA 6020	0.50	0.18	10/13/14 09:28	10/14/14 17:41	1
Beryllium	ug/L	0.086 U	EPA 6010	1.0	0.086	10/07/14 09:59	10/10/14 14:48	1
Cadmium	ug/L	0.27 U	EPA 6020	0.50	0.27	10/13/14 09:28	10/14/14 17:41	1
Chromium	ug/L	0.35 U	EPA 6020	5.0	0.35	10/13/14 09:28	10/14/14 17:41	1
Cobalt	ug/L	10 U	EPA 6010	100	10	10/07/14 09:59	10/10/14 14:48	1
Copper	ug/L	0.22 U	EPA 6020	0.50	0.13	10/13/14 09:28	10/14/14 17:41	1
Lead	ug/L	0.25 U	EPA 6020	0.50	0.25	10/13/14 09:28	10/14/14 17:41	1
Nickel	ug/L	1.6 U	EPA 6020	5.0	0.46	10/13/14 09:28	10/14/14 17:41	1

Florida Certification Number: EB1129
NELAP Accredited

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

SOUTHERN ANALYTICAL LABORATORIES, INC.



Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

November 5, 2014
Work Order: 1410725

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name
Sample Description
Matrix
SAL Sample Number
Date/Time Collected
Collected by
Date/Time Received

4MW-2-2387
Groundwater
1410725-01
10/07/14 11:48
W. Marfield
10/03/14 10:45

Parameters	Units	Results *	Method	PQL	MCL	Prepared	Analyzed	Dilution
Selenium	ug/L	0.93 U	EPA 6020	5.0	0.93	10/21/14 12:42	10/21/14 13:28	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	10/07/14 09:59	10/10/14 14:48	1
Thallium	ug/L	0.24 U	EPA 6020	0.50	0.24	10/13/14 09:28	10/14/14 17:41	1
Vanadium	ug/L	9.0 U	EPA 6010	10	7.8	10/07/14 09:59	10/10/14 14:48	1
Zinc	ug/L	0.88 U	EPA 6020	5.0	0.88	10/13/14 09:28	10/17/14 15:29	1

Florida Certification Number: EB1129
NELAP Accredited

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

PART III ANALYTICAL RESULTS

Facility ID #: 45729 Site: West Pasco Class III Sanitary Landfill
 Test Site ID #: 19671 Sampling Date/Time: 10/01/2014 @ 14:40
 Well Name: 2MW-3A Report Period: 2014 Quarter IV
 Classification of Groundwater: Surficial Well Purged: YES
 Groundwater Elevation (NGVD): DRY Well Type: EZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000520	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO ₃ F		DRY	mg/L	0.04	mg/L
000929	Sodium		No	EPA 200.7			mg/L	0.19	mg/L
082079	Turbidity		No	FDEP FT 16			NTU	0.00	NTU
00940	Chloride		No	EPA 300.0			mg/L	0.10	mg/L
001045	Iron		No	EPA 200.7			ug/L	1.6	ug/L
00400	pH-Field		No	FDEP FT 11			std. units	0.10	std. units
070300	TDS		No	SM 2840C			mg/L	0.1	mg/L
000344	Dissolved Oxy. (Field)		No	FDEP FT 15			mg/L	0.1	mg/L
000095	Specific Cond. (Field)		No	FDEP FT 12			umhos/cm	1	umhos/cm
000010	Temp. (Field)		No	FDEP FT 14			deg. C	0.00	deg. C
071900	Mercury		No	SM 3112B			ug/L	0.03	ug/L
000610	Ammonia		No	SM 4500NH ₃ H			mg/L	0.03	mg/L
900216	Color by Obs. (Field)		No	SM 2120B			Obs.	0	Obs.
072020	Water Level		No	DEP-SOP			Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45729 Site: West Pasco Class III Sanitary Landfill
 Test Site ID #: 19670 Sampling Date/Time: 10/09/2014 @ 14:45
 Well Name: 4MW-3A Report Period: 2014 Quarter IV
 Classification of Groundwater: Floridan Well Purged: YES
 Groundwater Elevation (NGVD): 40.44 Well Type: EZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000520	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO ₃ F			mg/L	0.04	mg/L
000929	Sodium		No	EPA 200.7			mg/L	0.19	mg/L
082079	Turbidity		No	FDEP FT 16			NTU	0.00	NTU
00940	Chloride		No	EPA 300.0			mg/L	0.10	mg/L
001045	Iron		No	EPA 200.7			ug/L	1.6	ug/L
00400	pH-Field		No	FDEP FT 11			std. units	0.10	std. units
070300	TDS		No	SM 2840C			mg/L	0.1	mg/L
000344	Dissolved Oxy. (Field)		No	FDEP FT 15			mg/L	0.1	mg/L
000095	Specific Cond. (Field)		No	FDEP FT 12			umhos/cm	1	umhos/cm
000010	Temp. (Field)		No	FDEP FT 14			deg. C	0.00	deg. C
071900	Mercury		No	SM 3112B			ug/L	0.03	ug/L
000610	Ammonia		No	SM 4500NH ₃ H			mg/L	0.03	mg/L
900216	Color by Obs. (Field)		No	SM 2120B			Obs.	0	Obs.
072020	Water Level		No	DEP-SOP	10/09/14 14:45	40.44	Feet NGVD	0	Feet NGVD

PART II ANALYTICAL RESULTS

Facility ID #: 45729 Site: Resource Recovery Class | Landfill Hays Road
 Test Site ID #: 2383 Sampling Date/Time: 10/01/2014 @ 08:28
 Well Name: 2MW4 Report Period: 2014 Quarter IV
 Classification of Groundwater: Judicial Well Purged: YES
 Groundwater Elevation (NSVD): DRY Well Type: CO

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000929	Sodium	Well Wizard Det. Mon. System	No	EPA 200.7		DRY	mg/L	0.19	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.6	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.03	ug/L
000400	pH-Field	"	No	FDEP FT 11			Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14			°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12			µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15			mg/L	0.1	mg/L
082079	Turbidity	"	No	FDEP FT 16			NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0			mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C			mg/L	0.1	mg/L
000610	Ammonia	"	No	SM 4500NH4H			mg/L	0.03	mg/L
000620	Nitrate	"	No	SM 4500NO3F			mg/L	0.04	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B			Obs.	0	Obs.
072020	Water Level (MSL)	"	No				Feet NSVD		Feet NSVD

PART III ANALYTICAL RESULTS

Facility ID #: 45729 Site: Resource Recovery Class | Landfill Hays Road
 Test Site ID #: 2383 Sampling Date/Time: 10/02/2014 @ 13:24
 Well Name: 4MW4 Report Period: 2014 Quarter IV
 Classification of Groundwater: Florida Well Purged: YES
 Groundwater Elevation (NSVD): 28.38 Well Type: CO

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000929	Sodium	Well Wizard Det. Mon. System	No	EPA 200.7	10/08/14 10:30	584	mg/L	0.19	mg/L
001045	Iron	"	No	EPA 200.7	10/08/14 10:30	9.8	ug/L	1.6	ug/L
071900	Mercury	"	No	SM 3112B	10/10/14 10:00	0.03 U	ug/L	0.03	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/02/14 13:24	7.11	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/02/14 13:24	26.39	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/02/14 13:24	480	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/02/14 13:24	1.01	mg/L	0.1	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/02/14 13:24	0.0	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	10/07/14 9:00	19.4	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/03/14 16:55	258	mg/L	0.1	mg/L
000610	Ammonia	"	No	SM 4500NH4H	10/24/14 10:00	0.03 U	mg/L	0.03	mg/L
000620	Nitrate	"	No	SM 4500NO3F	10/03/14 11:00	0.32	mg/L	0.04	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	10/2 13:24	CLEAR	Obs.	0	Obs.
072020	Water Level (MSL)	"	No		10/02/14 13:24	28.38	Feet NSVD		Feet NSVD

SOUTHERN ANALYTICAL LABORATORIES, INC.



110 DAVENPORT BL, EVANSHAW, FL 32827 TEL: (386) 334-4444 FAX: (386) 334-2815

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

November 5, 2014
Work Order: 1410725

Laboratory Report

Project Name PASCO COUNTY RESOURCE RECOVERY

Sample Description: 4MW-4 2388
Matrix: Groundwater
SAL Sample Number: 1410725-04
Date/Time Collected: 10/02/14 13:24
Collected by: W. Martfeld
Date/Time Received: 10/03/14 10:45

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatiles Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
1,2,3-Trichloropropene	ug/L	0.4 U	EPA 8260	0.8	0.4	10/06/14 20:25	1	
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
2-Branone	ug/L	2.1 U	EPA 8260	4.0	2.1	10/06/14 20:25	1	
2-Hexanone	ug/L	2.6 U	EPA 8260	4.0	2.6	10/06/14 20:25	1	
4-Methyl-2-pentanone	ug/L	2.0 U	EPA 8260	4.0	2.0	10/06/14 20:25	1	
Acetone	ug/L	1.3 U	EPA 8260	4.0	1.3	10/06/14 20:25	1	
Acrylonitrile	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
Bromochloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Bromodichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4	10/06/14 20:25	1	
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4	10/06/14 20:25	1	
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4	10/06/14 20:25	1	
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09	10/06/14 20:25	1	
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08	10/06/14 20:25	1	
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	

Florida Certification Number: E84173
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, QA Manager

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

November 5, 2014
Work Order: 1410725

Laboratory Report

Project Name PASCO COUNTY RESOURCE RECOVERY

Sample Description: 4MW-4 2388
Matrix: Groundwater
SAL Sample Number: 1410725-04
Date/Time Collected: 10/02/14 13:24
Collected by: W. Martfeld
Date/Time Received: 10/03/14 10:45

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05	10/06/14 20:25	1	
Tetrahydrofuran	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09	10/06/14 20:25	1	
trans-1,2-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3	10/06/14 20:25	1	
Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4	10/06/14 20:25	1	
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3	10/06/14 20:25	1	
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2	10/06/14 20:25	1	
Xylene-o,p	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:25	1	
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:25	1	
Surrogate for EPA 8260								
Surrogate for EPA 8260								
Surrogate for EPA 8260								
Surrogate for EPA 8260								
Pesticide Analyses								
1,2-Dibromo-3-chloropropane	ug/L	0.0052 U	EPA 8011	0.021	0.0052	10/06/14 13:41	10/07/14 08:09	1
1,2-Dichloroethane	ug/L	0.0052 U	EPA 8011	0.021	0.0052	10/06/14 13:41	10/07/14 08:09	1
Surrogate for EPA 8011								
2-bromo-1-chloropropane	ug/L	100 %	Limits		85-122			
Metals								
Antimony	ug/L	1.0 U	EPA 8020	5.0	1.0	10/21/14 12:42	10/21/14 13:36	1
Arsenic	ug/L	0.33 U	EPA 8020	5.0	0.93	10/13/14 09:38	10/17/14 16:29	1
Barium	ug/L	9.3	EPA 8020	0.50	0.18	10/13/14 09:38	10/17/14 16:29	1
Beryllium	ug/L	0.23 U	EPA 8010	1.0	0.096	10/07/14 09:59	10/10/14 15:12	1
Cadmium	ug/L	0.27 U	EPA 8020	0.50	0.27	10/13/14 09:38	10/17/14 16:29	1
Chromium	ug/L	0.35 U	EPA 8020	5.0	0.35	10/13/14 09:38	10/17/14 16:29	1
Cobalt	ug/L	10 U	EPA 8010	100	10	10/07/14 09:59	10/10/14 15:12	1
Copper	ug/L	0.24 U	EPA 8020	0.50	0.13	10/13/14 09:38	10/17/14 16:29	1
Lead	ug/L	0.25 U	EPA 8020	0.50	0.25	10/13/14 09:38	10/17/14 16:29	1
Nickel	ug/L	3.7 U	EPA 8020	5.0	0.46	10/13/14 09:38	10/17/14 16:29	1

Florida Certification Number: E84173
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, QA Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.



Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34854

November 5, 2014
Work Order: 1410725

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name: PASCO COUNTY RESOURCE RECOVERY
Sample Description: 4MW-4-2388 Groundwater
SAL Sample Number: 1410725-04
Date/Time Collected: 10/02/14 13:24
Collected by: W. Martfeld
Date/Time Received: 10/03/14 10:45

Parameters	Units	Results	Method	PQL	MDL	Prepared	Analyzed	Dilution
Selenium	ug/L	0.93 u	EPA 6020	5.0	0.93	10/21/14 12:42	10/21/14 13:36	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	10/07/14 09:59	10/10/14 15:12	1
Thallium	ug/L	0.24 u	EPA 6020	0.50	0.24	10/13/14 09:38	10/17/14 16:29	1
Vanadium	ug/L	11	EPA 6010	10	7.8	10/07/14 09:59	10/10/14 15:12	1
Zinc	ug/L	0.88 u	EPA 6020	5.0	0.88	10/13/14 09:38	10/20/14 15:21	1

PART III ANALYTICAL RESULTS

Facility ID #: 45799
Test Site ID #: 2384
Well Name: 20W15
Classification of Groundwater: Surface
Groundwater Elevation (NGVD): DRY
Site: Resource Recovery Class Landfill Hays Road
Sampling Date/Time: 10/05/2014 @ 08:50
Report Period: 2014 - Quarter IV
Well Purged: YES
Well Type: CO

Short Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
001045	Iron	"	No	EPA 200.7	"	"	ug/L	1.6	ug/L
000929	Sodium	Well Wizard Dead Mon. System	No	EPA 200.7	"	DRY	mg/L	0.19	mg/L
071900	Mercury	"	No	SM 3112B	"	"	ug/L	0.03	ug/L
000400	pH-Field	"	No	FDEP FT 11	"	"	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	"	"	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	"	"	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 16	"	"	mg/L	0.1	mg/L
082073	Turbidity	"	No	FDEP FT 16	"	"	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	"	"	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	"	"	mg/L	0.1	mg/L
000610	Ammonia	"	No	SM 4500NH ₄ H	"	"	mg/L	0.03	mg/L
000620	Nitrate	"	No	SM 4500NO ₃ F	"	"	mg/L	0.04	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	"	"	Obs.	0	Obs.
072020	Water Level (MSL)	"	No	"	"	"	Feet NGVD	"	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45729 Site: Resource Recovery Class Landfill Hays Road
 Test Site ID #: 2888 Sampling Date/Time: 10/02/2014 @ 15:32
 Well Name: 4AMW-5 Report Period: 2014 Quarter IV
 Classification of Groundwater: Jordan Well Purged: YES
 Groundwater Elevation (NGVD): 27.28 Well Type: CO

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000929	Sodium	Well Wizard Oed. Mon. System	No	EPA 200.7	10/08/14 10:30	25.3	mg/L	0.19	mg/L
001045	Iron	"	No	EPA 200.7	10/08/14 10:30	11.7	ug/L	1.6	ug/L
071900	Mercury	"	No	SM 3112B	10/10/14 10:00	0.03 U	ug/L	0.03	ug/L
004400	pH Field	"	No	FDEP FT 11	10/02/14 15:32	7.48	Std. Units	0.10	Std. Units
000110	Temperature (Field)	"	No	FDEP FT 14	10/02/14 15:32	25.94	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/02/14 15:32	486	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/02/14 15:32	1.16	mg/L	0.1	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/02/14 15:32	0.0	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	10/07/14 9:00	70.7	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/03/14 16:55	382	mg/L	0.1	mg/L
000610	Ammonia	"	No	SM 4500NH ₄ H	10/26/14 10:00	0.03 U	mg/L	0.03	mg/L
000620	Nitrate	"	No	SM 4500NO ₃ F	10/03/14 11:00	0.87	mg/L	0.04	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	10/2 15:32	CLEAR	Obs.	0	Obs.
072020	Water Level (MSL)	"	No		10/02/14 15:32	27.28	Feet NGVD		Feet NGVD

SOUTHERN ANALYTICAL LABORATORIES, INC.

1100 SHAWHUTT VILLAGE LANE
 PASCO COUNTY ENVIRONMENTAL LABORATORY
 8864 Government Drive
 New Port Richey, FL 34654

Laboratory Report

November 5, 2014
 Work Order: 1410725

Project Name: PASCO COUNTY RESOURCE RECOVERY
 Sample Description: 4AMW-5 2888
 Matrix: Groundwater
 SALS Sample Number: 1410725-05
 Date/Time Collected: 10/02/14 15:32
 Collected by: W. Martindale
 Date/Time Received: 10/03/14 10:45

Volatiles Organic Compounds	Units	Results	Method	PQL	MDL	Prepared	Analyzed	Dilution
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
1,2,3-Trichloropropene	ug/L	0.4 U	EPA 8260	0.8	0.4		10/06/14 20:57	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 20:57	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 20:57	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/06/14 20:57	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		10/06/14 20:57	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		10/06/14 20:57	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/06/14 20:57	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		10/06/14 20:57	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 20:57	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 20:57	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
Bromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
Bromonitroethane	ug/L	0.4 U	EPA 8260	0.8	0.4		10/06/14 20:57	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 20:57	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 20:57	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 20:57	1
cis-1,2-Dichloroethane	ug/L	0.09 U	EPA 8260	0.8	0.09		10/06/14 20:57	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 20:57	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		10/06/14 20:57	1
Isoctane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 20:57	1

Florida Certification Number: E64129
 NELAP Accredited

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

SOUTHERN ANALYTICAL LABORATORIES, INC.
 1110 EASTVIEW WAY, DUBLIN, VIRGINIA, 22026-1777 TEL: 804-261-1111 FAX: 804-261-1112



Pasco County Environmental Laboratory
 8864 Government Drive
 New Port Richey, FL 34654

November 5, 2014
 Work Order: 1410725

Laboratory Report

PASCO COUNTY RESOURCE RECOVERY

Project Name
 Sample Description
 Matrix
 SALS Sample Number
 Date/Time Collected
 Collected by
 Date/Time Received

4MW-5 2389
 Groundwater
 1410725-05
 10/02/14 15:32
 W. Marshall
 10/03/14 10:45

Parameters	Units	Results	Method	PQL	MDL	Prepared	Analyzed	Dilution	
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:57	10/06/14 20:57	1	
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05	10/06/14 20:57	10/06/14 20:57	1	
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:57	10/06/14 20:57	1	
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09	10/06/14 20:57	10/06/14 20:57	1	
Irans-1,2-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:57	10/06/14 20:57	1	
Irans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:57	10/06/14 20:57	1	
Irans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3	10/06/14 20:57	10/06/14 20:57	1	
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:57	10/06/14 20:57	1	
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:57	10/06/14 20:57	1	
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4	10/06/14 20:57	10/06/14 20:57	1	
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3	10/06/14 20:57	10/06/14 20:57	1	
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2	10/06/14 20:57	10/06/14 20:57	1	
Xylene-o	ug/L	0.2 U	EPA 8260	0.8	0.2	10/06/14 20:57	10/06/14 20:57	1	
Xylenes-Total	ug/L	0.1 U	EPA 8260	0.8	0.1	10/06/14 20:57	10/06/14 20:57	1	
Surrogate for EPA 8260				104 %	65-135				
Surrogate for EPA 8260				104 %	65-135				
Surrogate for EPA 8260				108 %	65-135				
Surrogate for EPA 8260				99 %	65-135				
1,2-Dibromo-3-chloropropane	ug/L	0.0054 U	EPA 8011	0.022	0.0054	10/06/14 13:41	10/07/14 06:31	1	
1,2-Dibromoethane	ug/L	0.0054 U	EPA 8011	0.022	0.0054	10/06/14 13:41	10/07/14 06:31	1	
Surrogate for EPA 8011				107 %	85-123				
2-Bromo-1-chloropropane	ug/L								
Metals									
Antimony	ug/L	1.0 U	EPA 8200	50	1.0	10/21/14 12:42	10/21/14 13:49	1	
Arsenic	ug/L	1.4 U	EPA 8200	5.0	0.93	10/13/14 09:38	10/17/14 16:42	1	
Barium	ug/L	9.6	EPA 8020	0.50	0.18	10/13/14 09:38	10/17/14 16:42	1	
Beryllium	ug/L	0.12 U	EPA 8010	1.0	0.096	10/07/14 09:59	10/10/14 15:15	1	
Cadmium	ug/L	0.27 U	EPA 8020	0.50	0.27	10/13/14 09:38	10/17/14 16:42	1	
Chromium	ug/L	0.35 U	EPA 8020	5.0	0.35	10/13/14 09:38	10/17/14 16:42	1	
Cobalt	ug/L	10 U	EPA 8010	100	10	10/07/14 09:59	10/10/14 15:15	1	
Copper	ug/L	0.22 U	EPA 8020	0.50	0.13	10/13/14 09:38	10/17/14 16:42	1	
Lead	ug/L	0.25 U	EPA 8020	0.50	0.25	10/13/14 09:38	10/17/14 16:42	1	
Nickel	ug/L	4.5 U	EPA 8020	5.0	0.46	10/13/14 09:38	10/17/14 16:42	1	

Florida Certification Number: E64129
 NELAP Accredited

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PASCO COUNTY RESOURCE RECOVERY

Project Name
 Sample Description
 Matrix
 SALS Sample Number
 Date/Time Collected
 Collected by
 Date/Time Received

4MW-5 2389
 Groundwater
 1410725-05
 10/02/14 15:32
 W. Marshall
 10/03/14 10:45

Parameters	Units	Results	Method	PQL	MDL	Prepared	Analyzed	Dilution
Selenium	ug/L	1.5 U	EPA 8020	5.0	0.93	10/21/14 12:42	10/21/14 13:49	1
Silver	ug/L	1.1 U	EPA 8010	20	1.1	10/07/14 09:59	10/10/14 15:15	1
Thallium	ug/L	0.24 U	EPA 8020	0.50	0.24	10/13/14 09:38	10/17/14 16:42	1
Vanadium	ug/L	12	EPA 8010	10	7.8	10/07/14 09:59	10/10/14 15:15	1
Zinc	ug/L	0.88 U	EPA 8020	5.0	0.88	10/13/14 09:38	10/20/14 15:26	1

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PART III ANALYTICAL RESULTS

Facility ID #: 45292

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2382

Sampling Date/Time: 10/01/2014 @ 08:25

Well Name: 2AMW-5

Report Period: 2014 - QUARTER IV

Classification of Groundwater: Judicial

Well Purged: YES

Groundwater Elevation (NGVD): DRY

Well Type: BG

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000929	Sodium	Well Wizard Dred. Mon. System	No	EPA 200.7		DRY	mg/L	0.19	mg/L
001045	Iron		No	EPA 200.7			ug/L	1.6	ug/L
071900	Mercury		No	SM 3112B			ug/L	0.03	ug/L
000400	pH-Field		No	FDEP FT 11			Std. Units	0.10	Std. Units
000010	Temperature (Field)		No	FDEP FT 14			°C	0.00	°C
000095	Specific Cond. (Field)		No	FDEP FT 12			µmhos/cm	1	µmhos/cm
000344	D.O. (Field)		No	FDEP FT 15			mg/L	0.1	mg/L
082079	Turbidity		No	FDEP FT 16			NTU	0.00	NTU
000940	Chloride		No	EPA 300.0			mg/L	0.10	mg/L
070300	Total Dis. Solids		No	SM 2540C			mg/L	0.1	mg/L
000810	Ammonia		No	SM 4500NH-H			mg/L	0.03	mg/L
000620	Nitrate		No	SM 4500NO-J			mg/L	0.04	mg/L
900216	Color by Obs. (Field)		No	SM 2120B			Obs.	0	Obs.
072020	Water Level (MSL)		No				Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45292

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2382

Sampling Date/Time: 10/02/2014 @ 12:09

Well Name: 4AMW-5

Report Period: 2014 - QUARTER IV

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 30.53

Well Type: BG

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000929	Sodium	Well Wizard Dred. Mon. System	No	EPA 200.7	10/08/14 10:30	2.61	mg/L	0.19	mg/L
001045	Iron		No	EPA 200.7	10/08/14 10:30	4.9	ug/L	1.6	ug/L
071900	Mercury		No	SM 3112B	10/10/14 10:00	0.03	ug/L	0.03	ug/L
000400	pH-Field		No	FDEP FT 11	10/02/14 12:09	7.39	Std. Units	0.10	Std. Units
000010	Temperature (Field)		No	FDEP FT 14	10/02/14 12:09	25.76	°C	0.00	°C
000095	Specific Cond. (Field)		No	FDEP FT 12	10/02/14 12:09	163	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)		No	FDEP FT 15	10/02/14 12:09	2.04	mg/L	0.1	mg/L
082079	Turbidity		No	FDEP FT 16	10/02/14 12:09	0.0	NTU	0.00	NTU
000940	Chloride		No	EPA 300.0	10/07/14 9:00	4.47	mg/L	0.10	mg/L
070300	Total Dis. Solids		No	SM 2540C	10/03/14 16:55	96	mg/L	0.1	mg/L
000810	Ammonia		No	SM 4500NH-H	10/24/14 16:00	0.03	ug/L	0.03	mg/L
000620	Nitrate		No	SM 4500NO-J	10/03/14 11:00	0.88	mg/L	0.04	mg/L
900216	Color by Obs. (Field)		No	SM 2120B	10/2 12:09	CLEAR	Obs.	0	Obs.
072020	Water Level (MSL)		No		10/02/14 12:09	30.53	Feet NGVD		Feet NGVD

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Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

November 5, 2014
Work Order: 1410725

Laboratory Report

Project Name PASCO COUNTY RESOURCE RECOVERY

Sample Description 4MW-6 2390
Matrix Groundwater
SAL Sample Number 1410725-03
Date/Time Collected 10/02/14 12:09
Collected by WJ Manfredi
Date/Time Received 10/03/14 10:45

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		10/06/14 19:54	1
1,2-Dichloropropane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:54	1
1,2-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/06/14 19:54	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		10/06/14 19:54	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		10/06/14 19:54	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		10/06/14 19:54	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		10/06/14 19:54	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:54	1
Bromochloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:54	1
Bromodichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Bromofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Bromonitrile	ug/L	0.4 U	EPA 8260	0.8	0.4		10/06/14 19:54	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:54	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 19:54	1
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 19:54	1
cis-1,2-Dichloroethane	ug/L	0.08 U	EPA 8260	1.6	0.09		10/06/14 19:54	1
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Dibromochloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:54	1
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		10/06/14 19:54	1
Iodobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1

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November 5, 2014
Work Order: 1410725

Laboratory Report

Project Name PASCO COUNTY RESOURCE RECOVERY

Sample Description 4MW-6 2390
Matrix Groundwater
SAL Sample Number 1410725-03
Date/Time Collected 10/02/14 12:09
Collected by WJ Manfredi
Date/Time Received 10/03/14 10:45

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05		10/06/14 19:54	1
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:54	1
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09		10/06/14 19:54	1
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:54	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		10/06/14 19:54	1
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4		10/06/14 19:54	1
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3		10/06/14 19:54	1
Xylenes-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2		10/06/14 19:54	1
Xylenes-o	ug/L	0.2 U	EPA 8260	0.8	0.2		10/06/14 19:54	1
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		10/06/14 19:54	1
Surrogate for EPA 8260				100%	65-135			
Surrogate for EPA 8260				102%	65-135			
Surrogate for EPA 8260				110%	65-135			
Surrogate for EPA 8260				100%	65-135			
Pesticide Analyses								
1,2-Dibromo-3-chloropropane	ug/L	0.0054 U	EPA 8011	0.022	0.0054	10/06/14 13:41	10/07/14 05:47	1
1,2-Dibromochloroethane	ug/L	0.0054 U	EPA 8011	0.022	0.0054	10/06/14 13:41	10/07/14 05:47	1
Surrogate for EPA 8011				100%	85-123			
2-Bromo-1-chloropropane	ug/L							
Metals								
Arsenic	ug/L	1.0 U	EPA 6020	5.0	1.0	10/21/14 12:42	10/21/14 13:34	1
Barium	ug/L	0.93 U	EPA 6020	5.0	0.93	10/13/14 09:38	10/17/14 16:24	1
Beryllium	ug/L	4.0	EPA 6010	1.0	0.18	10/13/14 09:38	10/17/14 16:24	1
Cadmium	ug/L	0.066 U	EPA 6010	1.0	0.086	10/07/14 09:59	10/10/14 15:02	1
Chromium	ug/L	0.27 U	EPA 6020	5.0	0.27	10/13/14 09:38	10/17/14 16:24	1
Cobalt	ug/L	0.35 U	EPA 6020	5.0	0.35	10/13/14 09:38	10/17/14 16:24	1
Copper	ug/L	1.0 U	EPA 6010	1.0	10	10/07/14 09:59	10/10/14 15:02	1
Lead	ug/L	0.13 U	EPA 6020	0.50	0.13	10/13/14 09:38	10/17/14 16:24	1
Nickel	ug/L	0.29 U	EPA 6020	0.50	0.25	10/13/14 09:38	10/17/14 16:24	1
	ug/L	0.97 U	EPA 6020	5.0	0.46	10/13/14 09:38	10/17/14 16:24	1

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