PASCO COUNTY FLORIDA
OPEN SPACES. VIBRANT PLACES.

Pasco County Utilities Services Branch
Environmental Laboratory
8864 Government Dr.
New Port Richey, Fl 34654

Phone: (727) 847-8902
Fax: (727) 847-8112

DHRS No: E44123

20 Feb 2018

Mr. Scott Borderieux
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, 2017

Dear Mr. Borderieux:

This submittal is for the Semester II, 2017 groundwater monitoring at the Pasco County Resource Recovery site which includes the West Pasco Class I and Class III landfills. 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: Robert J. Sigmond, Utilities Fiscal and Business Services Director
Allan Biddlecomb, Solid Waste Director
Justin Roessler, Solid Waste Assistant Director

Florida Department of Environmental Protection

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

DEP Form #: 62-701.900(31), F.A.C
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name PASCO COUNTY RESOURCE RECOVERY

Address 14230 HAYS RD.

City SPRING HILL, FLORIDA Zip 34610 County PASCO

Telephone Number (727) 856-0119

(2) WACS Facility ID 45799

(3) DEP Permit Number PA87-23

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

Address 8864 Government Drive

City New Port Richey, FLorida 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.

20 Feb 2018 (Date)

Candia E. Mulhern (Owner or Authorized Representative's Signature)

Digitally signed by Candia E. Mulhern
Date: 2018.02.20 16:11:22 -05'00'

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization PASCO COUNTY ENVIRONMENTAL LABORATORY

Analytical Lab NELAC / HRS Certification # E44123

Lab Name PASCO COUNTY UTILITIES ENVIRONMENTAL LABORATORY

Address 8864 GOVERNMENT DRIVE, NEW PORT RICHEY, FL 34654

Phone Number (727) 847-8902

Email address (if available) cchildress@pascocountyfl.net

PASCO COUNTY FLORIDA
OPEN SPACES. VIBRANT PLACES.

PASCO COUNTY RESOURCE RECOVERY
EXCEEDED ANALYTES
Semester II, 2017

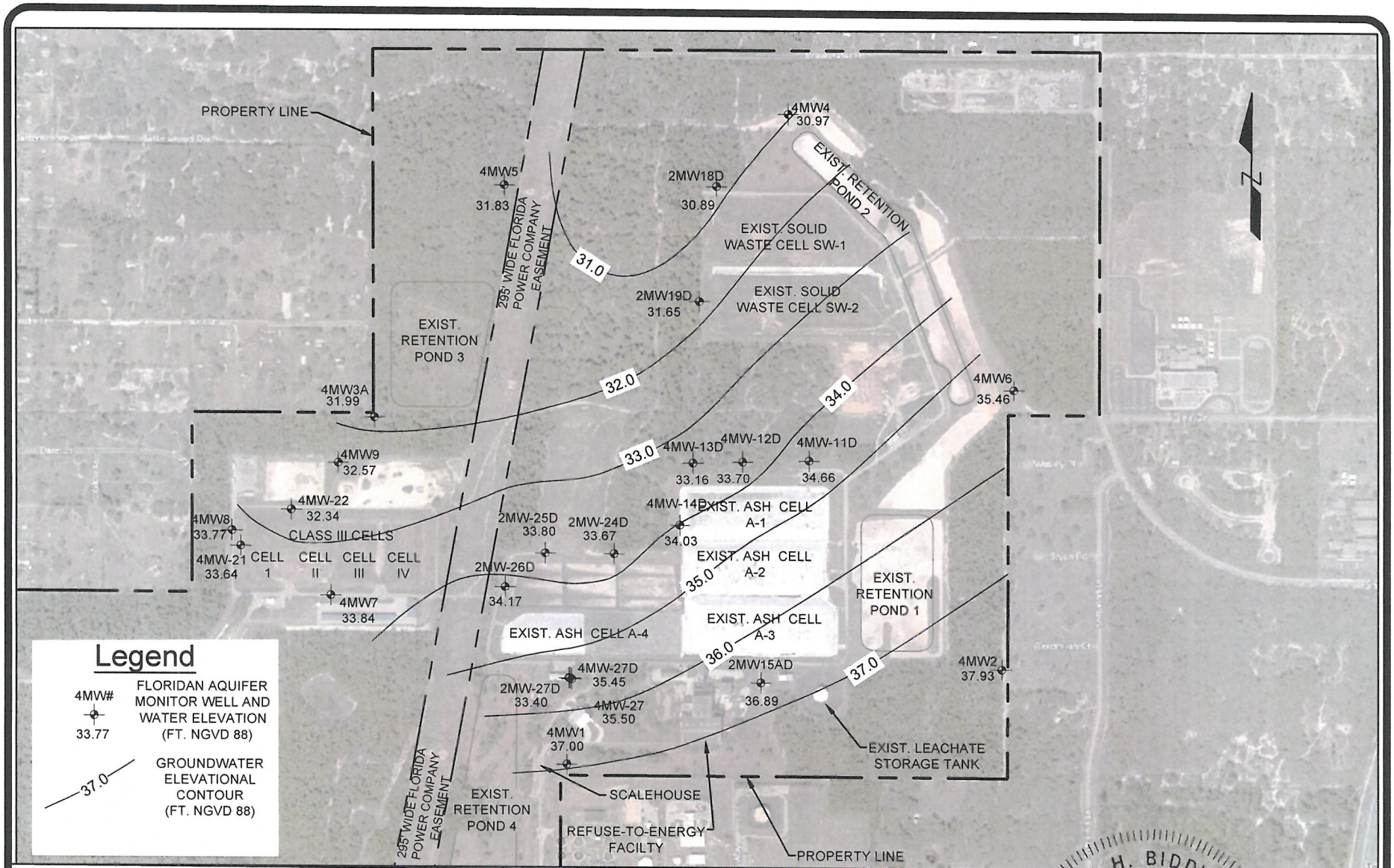
WELL #	SAMPLE DATE	ANALYTE	RESULT	UNITS	RESAMPLE	RESULT	UNITS
2MW1	6-Nov-17	pH	6.08	std units	No	---	---
2MW2	7-Nov-17	pH	4.69	std units	No	---	---
		DO	4.85	mg/L	No	---	---
2MW6	7-Nov-17	pH	5.73	std. units	No	---	---
		DO	5.36	mg/L	No	---	---
2MW-17S	8-Nov-17	pH	6.00	std units	No	---	---
4MW-21	1-Nov-17	pH	5.26	std units	No	---	---

RESOURCE RECOVERY

WATER LEVEL 2017 SEMIANNUAL

WELL I.D.	DATE DAY-MONTH	SAMPLE TIME 24hr.	T.O.P. ELEVATION	STATIC H2O LEVEL	N.G.V.D.	WELL I.D.	DATE DAY-MONTH	SAMPLE TIME 24hr.	T.O.P. ELEVATION	STATIC H2O LEVEL	N.G.V.D.
2MW1	24-Oct	1720	49.95	13.00	36.95	**2MW-13D**	24-Oct	1321	52.39	19.10	33.29
4MW1	24-Oct	1717	50.34	13.34	37.00	**4MW-13D**	24-Oct	1327	54.04	20.88	33.16
2MW2	24-Oct	1645	56.41	17.92	38.49	**4MW-14D**	24-Oct	1315	52.00	17.97	34.03
4MW2	24-Oct	1638	56.11	18.18	37.93	**2MW-15DA**	24-Oct	0958	54.71	17.82	36.89
2MW3A	24-Oct	1217	50.01	DRY	NA	**2MW-17S**	24-Oct	1440	53.42	22.38	31.04
4MW3A	24-Oct	1155	52.92	20.93	31.99	**2MW-18D**	24-Oct	1420	52.75	21.86	30.89
2MW4	24-Oct	1514	54.77	DRY	NA	**2MW-19D**	24-Oct	1408	52.25	20.60	31.65
4MW4	24-Oct	1503	50.81	19.84	30.97	**4MW 21**	24-Oct	1121	51.46	17.82	33.64
2MW5	24-Oct	1128	49.17	10.21	38.96	**4MW 22**	24-Oct	1057	53.44	21.10	32.34
4MW5	24-Oct	1136	49.06	17.23	31.83	**2MW-24S**	24-Oct	1304	50.37	16.51	33.86
2MW6	24-Oct	1545	56.11	21.04	35.07	**2MW-24D**	24-Oct	1307	50.55	16.88	33.67
4MW6	24-Oct	1548	55.95	20.49	35.46	**2MW-25S**	24-Oct	1257	47.84	13.96	33.88
2MW7	24-Oct	1036	52.75	DRY	NA	**2MW-25D**	24-Oct	1255	47.87	14.07	33.80
4MW7	24-Oct	1039	52.62	18.78	33.84	**2MW-26S**	24-Oct	1249	54.16	19.92	34.24
2MW8	24-Oct	1115	51.97	17.30	34.67	**2MW-26D**	24-Oct	1245	54.13	19.96	34.17
4MW8	24-Oct	1109	51.87	18.10	33.77	**2MW-27S**	24-Oct	1712	50.44	15.00	35.44
2MW9	24-Oct	1048	52.29	DRY	NA	**2MW-27D**	24-Oct	1708	50.32	14.92	35.40
4MW9	24-Oct	1051	52.78	20.21	32.57	**4MW-27**	24-Oct	1705	49.60	14.10	35.50
2MW10	24-Oct	1102	52.63	DRY	NA	**4MW-27D**	24-Oct	1703	49.28	13.83	35.45
4MW-11D	24-Oct	1342	65.00	30.34	34.66						
4MW-12D	24-Oct	1334	55.03	21.33	33.70						

40



WEST PASCO RESOURCE RECOVERY FACILITY

Floridan Aquifer Groundwater Contour Map 4th Qtr 2017

Scale

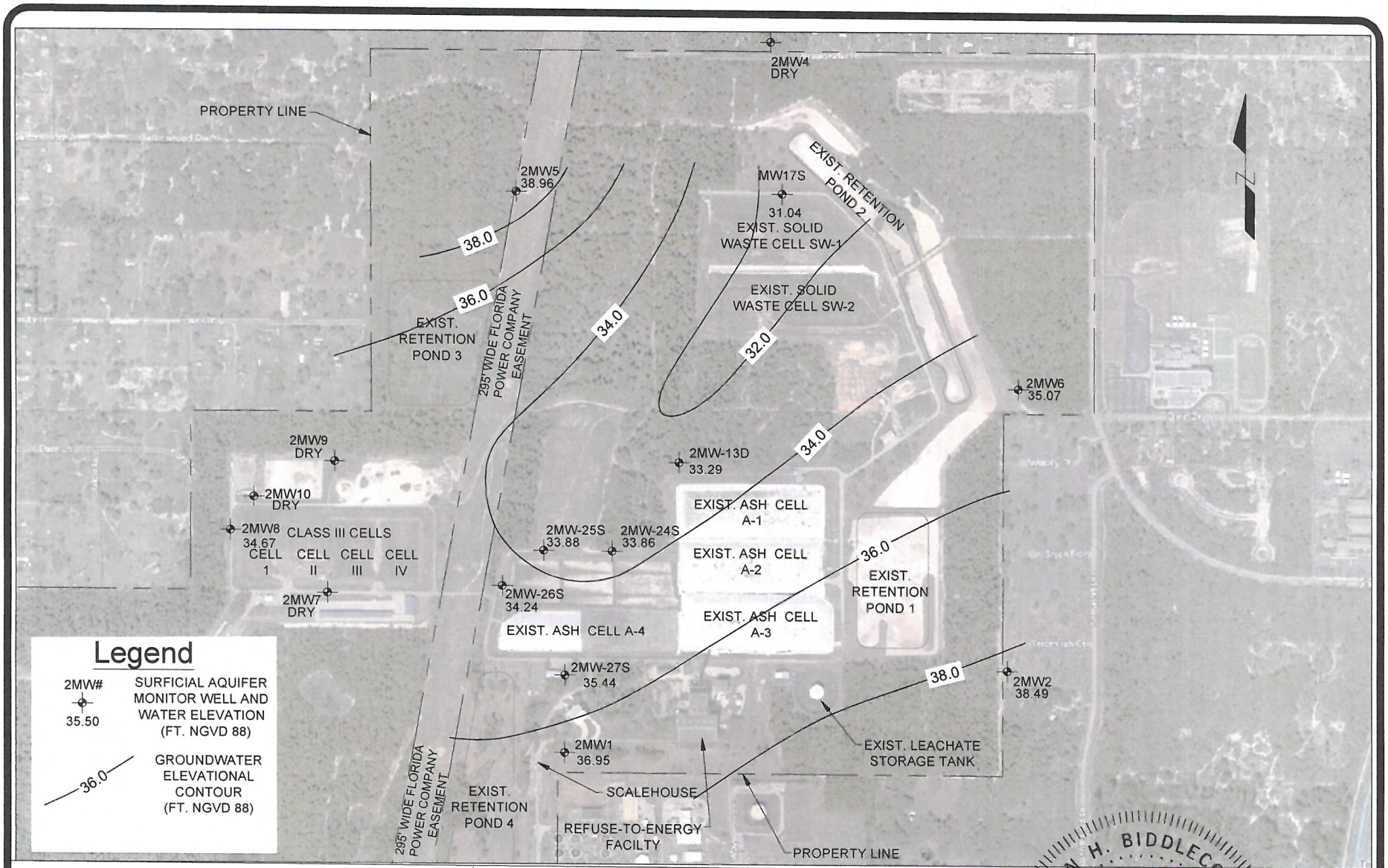
0 1000 2000 Feet

Project Number:	Date Measured:
18-701.00	October 24th, 2017

ALLAN H. BIDDLECOMB LICENSE No. 1258 STATE OF FLORIDA PROFESSIONAL GEOLOGIST

Allan H. Biddlecomb 11/7/2017

Approved By:
Allan Biddlecomb PG



WEST PASCO RESOURCE RECOVERY FACILITY

Surficial Aquifer Groundwater Contour Map 4th Qtr 2017

Scale

0 — 1000 — 2000 Feet

Project Number:	Date Measured:
18-701.00	October 24th, 2017

ALLAN H. BIDDLECOMB
LICENSE
No. 1258
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

Approved By
Allan Biddlecomb PG

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2381

Sampling Date/Time: 11/06/2017 @ 12:56

Well Name: 2MW-1

Report Period: 2018 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): 36.40

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/06/17 12:56	6.08 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/06/17 12:56	27.77 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/06/17 12:56	32 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/06/17 12:56	1.66 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/06/17 12:56	27.77 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/07/17 9:46	1.51	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/07/17 16:50	52	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/07/17 15:40	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/08/17 13:25	0.04 U	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No	DEP-SOP	11/06/17 12:56	36.40 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2382

Sampling Date/Time: 11/07/2017 @ 13:55

Well Name: 2MW-2

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): 38.07

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/07/17 13:55	4.69 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/07/17 13:55	24.52 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/07/17 13:55	90 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/07/17 13:55	4.85 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/07/17 13:55	0.1 D, U	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/09/17 11:41	6.89	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/13/17 15:30	60	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/09/17 13:20	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17	3.70	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/07/17 13:55	38.07 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2387

Sampling Date/Time: 10/25/2017 @ 14:02

Well Name: 4MW-2

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 37.87

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/25/17 14:02	7.68 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/25/17 14:02	23.31 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/25/17 14:02	212 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/25/17 14:02	3.01 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/25/17 14:02	0.1 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	10/27/17 9:45	5.84	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/27/17 15:30	116	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.13 I	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	10/26/17 15:45	0.82	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/25/17 14:02		Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 19671

Sampling Date/Time: 11/2/2017 @ 15:34

Well Name: 2MW-3A

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): DRY

Well Type: PZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F			mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16			NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0			mg/L	0.17	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11			std. units	0.10	std. units
070300	TDS	"	No	SM 2540C			mg/L	15.0	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	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H			mg/L	0.07	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B			Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	11/02/17 10:42	DRY	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID#: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 19670

Sampling Date/Time: 11/02/2017 @ 11:56

Well Name: 4MW-3A

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 31.60

Well Type: PZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F	11/07/17 15:00	0.04 U	mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/02/17 11:56	0.3 D	NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0	11/06/17 9:17	35.4	mg/L	0.10	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11	11/02/17 11:56	7.26 D	std. units	0.10	std. units
070300	TDS	"	No	SM 2540C	11/07/17 16:50	266	mg/L	10	mg/L
000344	Dissolved Oxy. (Field)	"	No	FDEP FT 15	11/02/17 11:56	1.54 D	mg/L	0.01	mg/L
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/02/17 11:56	477 D	umhos/cm	1	umhos/cm
000010	Temp. (Field)	"	No	FDEP FT 14	11/02/17 11:56	23.21 D	deg. C	0.00	deg. C
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H	11/07/17 15:40	0.09 I	mg/L	0.05	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	11/02/17 11:56	CLEAR	Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	11/02/17 11:56	31.60 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2383

Sampling Date/Time: 11/07/2017 @ 10:28

Well Name: 2MW-4

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): 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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	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	0.17	mg/L
070300	Total Dis. Solids	"	No	SM 2540C			mg/L	15	mg/L
000610	Ammonia	"	No	SM 4500NH_3H			mg/L	0.07	mg/L
000620	Nitrate	"	No	SM 4500NO_3F			mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/07/17 10:28	DRY	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2388

Sampling Date/Time: 01/22/2018 @ 14:26

Well Name: 4MW-4

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 28.13

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	01/22/18 14:26	7.24 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	01/22/18 14:26	25.29 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	01/22/18 14:26	433 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	01/22/18 14:26	1.86 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	01/22/18 14:26	<0.1 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	01/26/18 9:18	19.2	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	01/23/18 15:30	243	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	01/23/18 11:55	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	01/25/18 10:10	0.44	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		01/22/18 14:26	28.13 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2384

Sampling Date/Time: 11/02/2017 @ 13:16

Well Name: 2MW-5

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): 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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	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	0.17	mg/L
070300	Total Dis. Solids	"	No	SM 2540C			mg/L	15	mg/L
000610	Ammonia	"	No	SM 4500NH_3H			mg/L	0.07	mg/L
000620	Nitrate	"	No	SM 4500NO_3F			mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/02/17 13:16	DRY	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2389

Sampling Date/Time: 11/2/2017 @ 14:08

Well Name: 4MW-5

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 31.41

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/02/17 14:08	7.22 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/02/17 14:08	24.39 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/02/17 14:08	597 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/02/17 14:08	2.11 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/02/17 14:08	0.4 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/06/17 9:17	64.4	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/07/17 16:50	356	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/07/17 15:40	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/07/17 15:00	0.57	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/02/17 14:08	31.41 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2385

Sampling Date/Time: 11/7/2017 @ 12:22

Well Name: 2MW-6

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): 34.66

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/07/17 12:22	5.73 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/07/17 12:22	27.95 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/07/17 12:22	84 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/07/17 12:22	5.36 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/07/17 12:22	4.3 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/09/17 11:41	11	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/13/17 15:30	68	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/09/17 13:20	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17 13:15	2.56	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/07/17 12:22	34.66 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2390

Sampling Date/Time: 01/22/2018 @ 13:14

Well Name: 4MW-6

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 32.79

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	01/22/18 13:14	7.13 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	01/22/18 13:14	24.66 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	01/22/18 13:14	154 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	01/22/18 13:14	3.73 D	mg/L	0.1	mg/L
082079	Turbidity	"	No	FDEP FT 16	01/22/18 13:14	0.1 D, U	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	01/26/18 9:18	4.61	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	01/23/18 15:30	80	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	01/22/18 13:14	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	01/25/18 10:10	0.46	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		01/22/18 13:14	32.79 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 2343

Sampling Date/Time: 10/25/2017 @ 10:25

Well Name: 2MW-7

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

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
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F			mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16			NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0			mg/L	0.17	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11			std. units	0.10	std. units
070300	TDS	"	No	SM 2540C			mg/L	15.0	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	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H			mg/L	0.07	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B			Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	10/25/17 10:25	DRY	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 2340

Sampling Date/Time: 10/25/2017 @ 10:02

Well Name: 4MW-7

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 33.84

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
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F	10/26/17 15:45	0.39	mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/25/17 10:02	0.8 D	NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0	10/27/17 11:02	14.3	mg/L	0.10	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11	10/25/17 10:02	7.22 D	std. units	0.10	std. units
070300	TDS	"	No	SM 2540C	10/27/17 15:30	194	mg/L	10	mg/L
000344	Dissolved Oxy. (Field)	"	No	FDEP FT 15	10/25/17 10:02	1.86 D	mg/L	0.01	mg/L
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/25/17 10:02	375 D	umhos/cm	1	umhos/cm
000010	Temp. (Field)	"	No	FDEP FT 14	10/25/17 10:02	23.87 D	deg. C	0.00	deg. C
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	10/25/17 10:02	CLEAR	Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	10/25/17 10:02	33.84	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 2344

Sampling Date/Time: 11/01/2017 @ 12:38

Well Name: 2MW-8

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): DRY

Well Type: PZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F			mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16			NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0			mg/L	0.17	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11			std. units	0.10	std. units
070300	TDS	"	No	SM 2540C			mg/L	15.0	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	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H			mg/L	0.07	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B			Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	11/01/17 12:38	DRY	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 2341

Sampling Date/Time: 10/25/2017 @ 12:14

Well Name: 4MW-8

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 33.77

Well Type: PZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F	10/26/17 15:45	0.04 U	mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/25/17 12:14	0.1 U	NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0	10/27/17 9:46	11.1	mg/L	0.10	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11	10/25/17 12:14	7.16 D	std. units	0.10	std. units
070300	TDS	"	No	SM 2540C	10/27/17 15:30	202	mg/L	10	mg/L
000344	Dissolved Oxy. (Field)	"	No	FDEP FT 15	10/25/17 12:14	1.47 D	mg/L	0.01	mg/L
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/25/17 12:14	399 D	umhos/cm	1	umhos/cm
000010	Temp. (Field)	"	No	FDEP FT 14	10/25/17 12:14	23.38 D	deg. C	0.00	deg. C
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	10/25/17 12:14	CLEAR	Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	10/25/17 12:14	33.77 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 2345

Sampling Date/Time: 10/25/2017 @ 11:38

Well Name: 2MW-9

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): DRY

Well Type: PZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F			mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16			NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0			mg/L	0.17	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11			std. units	0.10	std. units
070300	TDS	"	No	SM 2540C			mg/L	15.0	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	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H			mg/L	0.07	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B			Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	10/25/17 11:38	DRY	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 2342

Sampling Date/Time: 10/25/2017 @ 11:21

Well Name: 4MW-9

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 32.57

Well Type: PZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F	10/26/17 15:45	0.50	mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/25/17 11:21	0.1 D	NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0	10/27/17 9:46	25.1	mg/L	0.10	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11	10/25/17 11:21	7.13 D	std. units	0.10	std. units
070300	TDS	"	No	SM 2540C	10/27/17 15:30	242	mg/L	10	mg/L
000344	Dissolved Oxy. (Field)	"	No	FDEP FT 15	10/25/17 11:21	1.02 D	mg/L	0.01	mg/L
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/25/17 11:21	4.57 D	umhos/cm	1	umhos/cm
000010	Temp. (Field)	"	No	FDEP FT 14	10/25/17 11:21	24.30 D	deg. C	0.00	deg. C
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.12 I	mg/L	0.05	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	10/25/17 11:21	CLEAR	Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	10/25/17 11:21	32.57 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 2346

Sampling Date/Time: 10/25/2017 @ 11:42

Well Name: 2MW-10

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): DRY

Well Type: PZ

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F			mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16			NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0			mg/L	0.17	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11			std. units	0.10	std. units
070300	TDS	"	No	SM 2540C			mg/L	15.0	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	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H			mg/L	0.07	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B			Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	10/25/17 11:42	DRY	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2510

Sampling Date/Time: 10/26/2017 @ 11:39

Well Name: 4MW-11D

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 34.49

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/26/17 11:39	7.46 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/26/17 11:39	23.01 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/26/17 11:39	372 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/26/17 11:39	3.74 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/26/17 11:39	0.5 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	10/27/17 9:46	21.5	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/27/17 15:30	202	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/09/17 15:10	0.62	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/26/17 11:39	23.01 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2511

Sampling Date/Time: 10/26/2017 @ 12:36

Well Name: 4MW-12D

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 33.61

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/26/17 12:36	7.25 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/26/17 12:36	24.98 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/26/17 12:36	416 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/26/17 12:36	2.36 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/26/17 12:36	24.98 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	10/27/17 9:46	22.0	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/27/17 15:30	228	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/09/17 15:10	0.89	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/26/17 12:36		Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2515

Sampling Date/Time: 10/26/2017 @ 15:55

Well Name: 2MW-13D

Report Period: 2017 IV Quarter

Classification of Groundwater: Surficial

Well Purged: YES

Groundwater Elevation (NGVD): DRY

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	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	0.17	mg/L
070300	Total Dis. Solids	"	No	SM 2540C			mg/L	15	mg/L
000610	Ammonia	"	No	SM 4500NH_3H			mg/L	0.07	mg/L
000620	Nitrate	"	No	SM 4500NO_3F			mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/26/17 15:55	DRY	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 19214

Sampling Date/Time: 10/26/2017 @ 13:41

Well Name: 4MW-13D

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 31.44

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/26/17 13:41	7.24 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/26/17 13:41	25.96 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/26/17 13:41	445 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/26/17 13:41	2.42 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/26/17 13:41	0.2 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	10/27/17 9:46	20.4	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	10/26/17 15:30	246	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/09/17 15:10	0.04 U	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/26/17 13:41	31.44 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 2512

Sampling Date/Time: 11/7/2017 @ 15:33

Well Name: 4MW-14D

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 33.47

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/07/17 15:33	7.21 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/07/17 15:33	27.39 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/07/17 15:33	412 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/07/17 15:33	1.07 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/07/17 15:33	2.6 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/09/17 11:41	23.5	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/13/17 15:30	226	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/09/17 13:20	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17 13:15	0.54	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/07/17 15:33		Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 19766

Sampling Date/Time: 11/06/2017 @ 14:13

Well Name: 2MW-15DA

Report Period: 2017 IV Quarter

Classification of Groundwater:

Well Purged: YES

Groundwater Elevation (NGVD): 36.13

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/06/17 14:13	7.31 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/06/17 14:13	25.55 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/06/17 14:13	336 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/06/17 14:13	1.29 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/06/17 14:13	0.9 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/07/17 9:46	11.5	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/07/17 16:50	182	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/07/17 15:40	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/08/17 13:25	0.20 I	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/06/17 14:13		Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 19758

Sampling Date/Time: 11/08/2017 @ 09:57

Well Name: 2MW-17S

Report Period: 2017 IV Quarter

Classification of Groundwater:

Well Purged: YES

Groundwater Elevation (NGVD): 31.02

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/08/17 9:57	6.00 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/08/17 9:57	26.45 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/08/17 9:57	309 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/08/17 9:57	4.26 D	mg/L	0.10	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/08/17 9:57	1.2 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/09/17 11:41	32.3	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/13/17 15:30	252	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/09/17 13:20	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17 13:15	6.59	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/08/17 9:57	31.02 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 19759

Sampling Date/Time: 11/06/2017 @ 15:39

Well Name: 2MW-18D

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 30.43

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/06/17 15:39	7.11 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/06/17 15:39	25.34 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/06/17 15:39	508 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/06/17 15:39	0.99 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/06/17 15:39	1.6 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/07/17 9:46	31.9	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/07/17 16:50	288	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/07/17 15:40	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/08/17 13:25	0.82	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/06/17 15:39	30.43 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 19764

Sampling Date/Time: 11/08/2017 @ 11:37

Well Name: 2MW-19D

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 29.62

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/08/17 11:37	6.98 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/08/17 11:37	26.23 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/08/17 11:37	512 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/08/17 11:37	1.88 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/08/17 11:37	2.6 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/09/17 11:41	18.8	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/13/17 15:30	258	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/09/17 13:20	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17 13:15	0.36	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/08/17 11:37	29.62 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 23065

Sampling Date/Time: 11/01/2017 @ 12:01

Well Name: 4MW-21

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 33.35

Well Type: DE

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F	11/07/17 15:00	5.28	mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/01/17 12:01	1.8 D	NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0	11/06/17 9:17	10.3	mg/L	0.10	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11	11/01/17 12:01	5.26 D	std. units	0.10	std. units
070300	TDS	"	No	SM 2540C	11/07/17 16:50	108	mg/L	10	mg/L
000344	Dissolved Oxy. (Field)	"	No	FDEP FT 15	11/01/17 12:01	4.73 D	mg/L	0.01	mg/L
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/01/17 12:01	130 D	umhos/cm	1	umhos/cm
000010	Temp. (Field)	"	No	FDEP FT 14	11/01/17 12:01	24.59 D	deg. C	0.00	deg. C
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	11/01/17 12:01	CLEAR	Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	11/01/17 12:01	33.35	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID#: 45799

Site: West Pasco Class III Sanitary Landfill

Test Site ID #: 23066

Sampling Date/Time: 11/01/2017 @ 10:46

Well Name: 4MW-22

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 32.09

Well Type: DE

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	Analysis Results	Analysis Units	Detection Limits	Detection Units
000620	Nitrate	Well Wizard Ded. Mon. System	No	SM 4500NO_3F	11/07/17 15:00	0.15	mg/L	0.04	mg/L
000929	Sodium	"	No	EPA 200.7			mg/L	0.03	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/01/17 10:46	1.1 D	NTU	0.00	NTU
00940	Chloride	"	No	EPA 300.0	11/03/17 9:29	18.6	mg/L	0.10	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
00400	pH-Field	"	No	FDEP FT 11	11/01/17 10:46	7.05 D	std. units	0.10	std. units
070300	TDS	"	No	SM 2540C	11/07/17 16:50	266	mg/L	10	mg/L
000344	Dissolved Oxy. (Field)	"	No	FDEP FT 15	11/01/17 10:46	1.11 D	mg/L	0.01	mg/L
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/01/17 10:46	477 D	umhos/cm	1	umhos/cm
000010	Temp. (Field)	"	No	FDEP FT 14	11/01/17 10:46	24.66 D	deg. C	0.00	deg. C
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
900216	Color by Obs. (Field)	"	No	SM 2120B	11/01/17 10:46	CLEAR	Obs.	0	Obs.
072020	Water Level	"	No	DEP-SOP	11/01/17 10:46	32.09 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23443

Sampling Date/Time: 11/13/2017 @ 14:12

Well Name: 2MW-24S

Report Period: 2017 IV Quarter

Classification of Groundwater: G-II

Well Purged: YES

Groundwater Elevation (NGVD): 35.62

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/13/17 14:12	6.64 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/13/17 14:12	26.61 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/13/17 14:12	522 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/13/17 14:12	2.49 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/13/17 14:12	4.1 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/17/17 10:45	7.89	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/15/17 12:20	288	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/22/17 13:15	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17 13:15	5.96	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/13/17 14:12	35.62 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23444

Sampling Date/Time: 11/13/17 @ 13:22

Well Name: 2MW-24D

Report Period: 2017 IV Quarter

Classification of Groundwater: G-II

Well Purged: YES

Groundwater Elevation (NGVD): 36.58

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/13/17 13:22	7.44 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/13/17 13:22	27.33 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/13/17 13:22	526 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/13/17 13:22	1.34 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/13/17 13:22	0.00 U	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/17/17 10:45	48.1	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/15/17 12:20	310	mg/L	0.1	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/22/17 13:15	0.05	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17 13:15	1.73	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/13/17 13:22	36.58 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23445

Sampling Date/Time: 10/30/2017 @ 12:05

Well Name: 2MW-25S

Report Period: 2017 Quarter

Classification of Groundwater: G-II

Well Purged: YES

Groundwater Elevation (NGVD): DRY

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	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_3H			mg/L	0.04	mg/L
000620	Nitrate	"	No	SM 4500NO_3F			mg/L	0.03	mg/L
072020	Water Level (MSL)	"	No		10/30/17 12:05	DRY	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23446

Sampling Date/Time: 10/30/2017 @ 13:10

Well Name: 2MW-25D

Report Period: 2017 IV Quarter

Classification of Groundwater: G-II

Well Purged: YES

Groundwater Elevation (NGVD): 33.56

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/30/17 13:10	7.04 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/30/17 13:10	26.49 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/30/17 13:10	734 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/30/17 13:10	0.98 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/30/17 13:10	2.4 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/03/17 9:29	87.4	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/01/17 15:50	416	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17 13:15	0.82	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/30/17 13:10	33.56 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23447

Sampling Date/Time: 10/30/2017 @ 17:44

Well Name: 2MW-26S

Report Period: 2017 IV Quarter

Classification of Groundwater: G-II

Well Purged: YES

Groundwater Elevation (NGVD): DRY

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	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_3H			mg/L	0.04	mg/L
000620	Nitrate	"	No	SM 4500NO_3F			mg/L	0.03	mg/L
072020	Water Level (MSL)	"	No		10/30/17 10:10	DRY	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23448

Sampling Date/Time: 10/30/2017 @ 11:23

Well Name: 2MW-26D

Report Period: 2017 IV Quarter

Classification of Groundwater: G-II

Well Purged: YES

Groundwater Elevation (NGVD): 33.93

Well Type: DE

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/30/17 11:23	7.12 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/30/17 11:23	25.12 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/30/17 11:23	591 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/30/17 11:23	1.55 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/30/17 11:23	0.5 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/03/17 9:29	55.8	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/01/17 15:50	324	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/09/17 15:10	0.46	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/30/17 11:23	33.93 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID#: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23449

Sampling Date/Time: 11/01/2017 @ 15:18

Well Name: 2MW-27S

Report Period: 2017 IV Quarter

Classification of Groundwater:

Well Purged: YES

Groundwater Elevation (NGVD): 35.14

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/01/17 15:18	6.92 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/01/17 15:18	25.78 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/01/17 15:18	761 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/01/17 15:18	1.02 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/01/17 15:18	0.3 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/01/17 9:17	90.0	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/07/17 16:50	460	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/07/17 15:00	0.93	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/01/17 15:18	35.14 D	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23451

Sampling Date/Time: 11/01/2017 @ 14:24

Well Name: 4MW-27

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 35.19

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	11/01/17 14:24	7.24 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	11/01/17 14:24	24.74 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	11/01/17 14:24	689 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	11/01/17 14:24	2.02 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	11/01/17 14:24	1.9 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/03/17 9:29	102	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/07/17 16:50	400	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/07/17 14:45	0.07 I	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/07/17 15:00	0.2	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		11/01/17 14:24	35.19 D	Feet NGVD		Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID #: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23450

Sampling Date/Time: 10/30/2017 @ 16:02

Well Name: 2MW-27D

Report Period: 2017 IV Quarter

Classification of Groundwater:

Well Purged: YES

Groundwater Elevation (NGVD): 35.15

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/30/17 16:02	7.31 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/30/17 16:02	23.76 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/30/17 16:02	771 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/30/17 16:02	3.27 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/30/17 16:02	2.7 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/03/17 9:29	104	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/01/17 15:50	448	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17	0.05 U	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/17/17 13:15	1.41	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/30/17 16:02	35.15	Feet NGVD	0	Feet NGVD

PART III ANALYTICAL RESULTS

Facility ID#: 45799

Site: Resource Recovery Class I Landfill Hays Road

Test Site ID #: 23452

Sampling Date/Time: 10/30/2017 @ 16:18

Well Name: 4MW-27D

Report Period: 2017 IV Quarter

Classification of Groundwater: Floridan

Well Purged: YES

Groundwater Elevation (NGVD): 34.96

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 Ded. Mon. System	No	EPA 200.7			mg/L	0.03	mg/L
001045	Iron	"	No	EPA 200.7			ug/L	1.4	ug/L
071900	Mercury	"	No	SM 3112B			ug/L	0.02	ug/L
000400	pH-Field	"	No	FDEP FT 11	10/30/17 16:18	7.58 D	Std. Units	0.10	Std. Units
000010	Temperature (Field)	"	No	FDEP FT 14	10/30/17 16:18	23.32 D	°C	0.00	°C
000095	Specific Cond. (Field)	"	No	FDEP FT 12	10/30/17 16:18	276 D	µmhos/cm	1	µmhos/cm
000344	D.O. (Field)	"	No	FDEP FT 15	10/30/17 16:18	3.55 D	mg/L	0.01	mg/L
082079	Turbidity	"	No	FDEP FT 16	10/30/17 16:18	32.7 D	NTU	0.00	NTU
000940	Chloride	"	No	EPA 300.0	11/03/17 9:29	5.27	mg/L	0.10	mg/L
070300	Total Dis. Solids	"	No	SM 2540C	11/01/17 15:50	156	mg/L	10	mg/L
000610	Ammonia	"	No	SM 4500NH_3H	11/02/17 14:45	0.22	mg/L	0.05	mg/L
000620	Nitrate	"	No	SM 4500NO_3F	11/09/17 15:10	0.04 U	mg/L	0.04	mg/L
072020	Water Level (MSL)	"	No		10/30/17 16:18		Feet NGVD		Feet NGVD

Pasco County Utilities Environmental Laboratory Report

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Phone: (727) 847-8902 Fax: (727) 847-8112
Contacts: Gloria Krueger, Administrative Secretary
Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59852**	Sample ID:	2MW1 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/6/2017	Date Received:	11/6/2017
Time Sampled:	12:56	Time Received:	16:48
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/6/2017	12:56	MBER	32	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/6/2017	12:56	MBER	1.66	D	mg/L	0.01
pH Field	FDEP FT 1100	11/6/2017	12:56	MBER	6.08	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/6/2017	12:56	MBER	27.77	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/6/2017	12:56	MBER	42.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/6/2017	12:56	MBER	36.40	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/7/2017	15:40	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/8/2017	13:25	KS	0.04	U	mg/L	0.04
Color by Observation	Observation	11/6/2017	12:56	MBER	CLOUDY	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	52		mg/L	10
Chloride	EPA 300.0	11/7/2017	9:46	EC	1.51		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
I = Reported value is greater than or equal to the detection limit, but less than PQL.
XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2003 NELAC Standards

NELAC Certification: E44123
EPA Lab Code: FL00137

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Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Report Date: 1/10/2018

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59853**	Sample ID:	4MW1 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/6/2017	Date Received:	11/6/2017
Time Sampled:	11:20	Time Received:	16:48
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/6/2017	11:20	MBER	964	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/6/2017	11:20	MBER	1.06	D	mg/L	0.01
pH Field	FDEP FT 1100	11/6/2017	11:20	MBER	6.77	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/6/2017	11:20	MBER	26.44	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/6/2017	11:20	MBER	0.3	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/6/2017	11:20	MBER	36.42	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/7/2017	15:40	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/8/2017	13:25	KS	1.64		mg/L	0.04
Color by Observation	Observation	11/6/2017	11:20	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	580	XC	mg/L	10
Chloride	EPA 300.0	11/7/2017	9:46	EC	138		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
I = Reported value is greater than or equal to the detection limit, but less than PQL.
XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59905**	Sample ID:	2MW2 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/7/2017	Date Received:	11/7/2017
Time Sampled:	13:55	Time Received:	16:33
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/7/2017	13:55	MBER	90	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/7/2017	13:55	MBER	4.85	D	mg/L	0.01
pH Field	FDEP FT 1100	11/7/2017	13:55	MBER	4.69	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/7/2017	13:55	MBER	24.52	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/7/2017	13:55	MBER	<0.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/7/2017	13:55	MBER	38.07	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/9/2017	13:20	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	3.70		mg/L	0.04
Color by Observation	Observation	11/7/2017	13:55	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/13/2017	15:30	LMP	60		mg/L	10
Chloride	EPA 300.0	11/9/2017	11:41	EC	6.89		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
I = Reported value is greater than or equal to the detection limit, but less than PQL.
XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/31/2018

Sample Number:	**AC59361**	Sample ID:	4MW2 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/25/2017	Date Received:	10/25/2017
Time Sampled:	14:02	Time Received:	15:02
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/25/2017	14:02	MBER	212	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/25/2017	14:02	MBER	3.01	D	mg/L	0.01
pH Field	FDEP FT 1100	10/25/2017	14:02	MBER	7.68	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/25/2017	14:02	MBER	23.31	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/25/2017	14:02	MBER	0.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/25/2017	14:02	MBER	37.87	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.13	I	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	10/26/2017	15:45	KS	0.82		mg/L	0.04
Color by Observation	Observation	10/25/2017	14:02	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	10/27/2017	15:30	LMP	116		mg/L	10
Chloride	EPA 300.0	10/27/2017	9:46	EC	5.84		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
I = Reported value is greater than or equal to the detection limit, but less than PQL.
XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2003 NELAC Standards

NELAC Certification: E44123
EPA Lab Code: FL00137

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Report Date: 1/10/2018

Resource Recovery
Class III Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59778**	Sample ID:	2MW3A @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/2/2017	Date Received:	11/2/2017
Time Sampled:	10:42	Time Received:	15:34
Sampled By:	MARIAN B	Received By:	KS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	11/2/2017	10:42	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
I = Reported value is greater than or equal to the detection limit, but less than PQL.
XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2003 NELAC Standards

NELAC Certification: E44123
EPA Lab Code: FL00137

Pasco County Utilities Environmental Laboratory Report

8864 Government Drive
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Phone: (727) 847-8902 Fax: (727) 847-8112
Contacts: Gloria Krueger, Administrative Secretary
Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

West Pasco Class III Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59776**	Sample ID:	4MW3A @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/2/2017	Date Received:	11/2/2017
Time Sampled:	11:56	Time Received:	15:34
Sampled By:	MARIAN B	Received By:	KS
		Delivered By:	MB

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/2/2017	11:56	MBER	477	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/2/2017	11:56	MBER	1.54	D	mg/L	0.01
pH Field	FDEP FT 1100	11/2/2017	11:56	MBER	7.26	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/2/2017	11:56	MBER	23.21	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/2/2017	11:56	MBER	0.3	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/2/2017	11:56	MBER	31.60	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/7/2017	15:40	KS	0.09	I	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/7/2017	15:00	KS	0.04	U	mg/L	0.04
Color by Observation	Observation	11/2/2017	11:56	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	266		mg/L	10
Chloride	EPA 300.0	11/6/2017	9:17	EC	35.4		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59903**	Sample ID:	2MW4 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/7/2017	Date Received:	11/7/2017
Time Sampled:	10:28	Time Received:	16:33
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	11/7/2017	10:28	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl

Report Date: 2/14/2018

Sample Number:	**AC62767**	Sample ID:	4MW4 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	1/22/2018	Date Received:	1/22/2018
Time Sampled:	14:26	Time Received:	15:25
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	1/22/2018	14:26	MBER	433	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	1/22/2018	14:26	MBER	1.86	D	mg/L	0.01
pH Field	FDEP FT 1100	1/22/2018	14:26	MBER	7.24	D	Std Units	0.10
Temperature Field	FDEP FT 1400	1/22/2018	14:26	MBER	25.29	D	Deg C	0.00
Water Level (NGVD)	DEP-SOP	1/22/2018	14:26	MBER	28.13	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	1/23/2018	11:55	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	1/25/2018	10:10	KS	0.44		mg/L	0.04
Color by Observation	Observation	1/22/2018	14:26	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	1/23/2018	15:30	LMP	243		mg/L	10
Chloride	EPA 300.0	1/26/2018	9:18	EC	19.2		mg/L	0.10
Turbidity	SM 2130 B	1/22/2018	14:26	MBER	<0.1	D	NTU's	0.11

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/11/2018

Sample Number:	**AC59779**	Sample ID:	2MW5 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/2/2017	Date Received:	11/2/2017
Time Sampled:	13:16	Time Received:	15:34
Sampled By:	MARIAN B	Received By:	KS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	11/2/2017	13:16	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/31/2018

Sample Number:	**AC59777**	Sample ID:	4MW5 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/2/2017	Date Received:	11/2/2017
Time Sampled:	14:08	Time Received:	15:34
Sampled By:	MARIAN B	Received By:	KS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/2/2017	14:08	MBER	597	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/2/2017	14:08	MBER	2.11	D	mg/L	0.01
pH Field	FDEP FT 1100	11/2/2017	14:08	MBER	7.22	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/2/2017	14:08	MBER	24.39	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/2/2017	14:08	MBER	0.4	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/2/2017	14:08	MBER	31.41	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/7/2017	15:40	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/7/2017	15:00	KS	0.57		mg/L	0.04
Color by Observation	Observation	11/2/2017	14:08	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	356		mg/L	10
Chloride	EPA 300.0	11/6/2017	9:17	EC	64.4		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59904**	Sample ID:	2MW6 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/7/2017	Date Received:	11/7/2017
Time Sampled:	12:22	Time Received:	16:33
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/7/2017	12:22	MBER	84	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/7/2017	12:22	MBER	5.36	D	mg/L	0.01
pH Field	FDEP FT 1100	11/7/2017	12:22	MBER	5.73	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/7/2017	12:22	MBER	27.95	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/7/2017	12:22	MBER	4.3	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/7/2017	12:22	MBER	34.66	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/9/2017	13:20	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	2.56		mg/L	0.04
Color by Observation	Observation	11/7/2017	12:22	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/13/2017	15:30	LMP	68		mg/L	10
Chloride	EPA 300.0	11/9/2017	11:41	EC	11.0		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl

Report Date: 2/14/2018

Sample Number:	**AC62768**	Sample ID:	4MW6 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	1/22/2018	Date Received:	1/22/2018
Time Sampled:	13:14	Time Received:	15:25
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	1/22/2018	13:14	MBER	154	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	1/22/2018	13:14	MBER	3.73	D	mg/L	0.01
pH Field	FDEP FT 1100	1/22/2018	13:14	MBER	7.13	D	Std Units	0.10
Temperature Field	FDEP FT 1400	1/22/2018	13:14	MBER	24.66	D	Deg C	0.00
Water Level (NGVD)	DEP-SOP	1/22/2018	13:14	MBER	32.79	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	1/23/2018	11:55	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	1/25/2018	10:10	KS	0.46		mg/L	0.04
Color by Observation	Observation	1/22/2018	13:14	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	1/23/2018	15:30	LMP	80		mg/L	10
Chloride	EPA 300.0	1/26/2018	9:18	EC	4.61		mg/L	0.10
Turbidity	SM 2130 B	1/22/2018	13:14	MBER	<0.1	D	NTU's	0.11

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Report Date: 11/30/2017

Resource Recovery
Class III Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59362**	Sample ID:	2MW7 @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/25/2017	Date Received:	10/25/2017
Time Sampled:	10:25	Time Received:	15:02
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	10/25/2017	10:25	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Report Date: 12/6/2017

West Pasco Class III Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59358**	Sample ID:	4MW7 @ Res Rec
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/25/2017	Date Received:	10/25/2017
Time Sampled:	10:02	Time Received:	15:02
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/25/2017	10:02	MBER	375	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/25/2017	10:02	MBER	1.86	D	mg/L	0.01
pH Field	FDEP FT 1100	10/25/2017	10:02	MBER	7.22	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/25/2017	10:02	MBER	23.87	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/25/2017	10:02	MBER	0.8	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/25/2017	10:02	MBER	33.84	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	10/26/2017	15:45	KS	0.39		mg/L	0.04
Color by Observation	Observation	10/25/2017	10:02	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	10/27/2017	15:30	LMP	194		mg/L	10
Chloride	EPA 300.0	10/27/2017	9:46	EC	14.3		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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Hours: Mon-Fri 8am-5pm

Report Date: 1/10/2018

CLIENT/SAMPLE INFORMATION

Resource Recovery
Class III Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59726**	Sample ID:	2MW8 @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/1/2017	Date Received:	11/1/2017
Time Sampled:	12:38	Time Received:	16:24
Sampled By:	MARIAN B	Received By:	CEM
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	11/1/2017	12:38	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
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Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Report Date: 12/6/2017

West Pasco Res Rec
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59360**	Sample ID:	4MW8 @ RES REC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/25/2017	Date Received:	10/25/2017
Time Sampled:	12:14	Time Received:	15:02
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/25/2017	12:14	MBER	399	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/25/2017	12:14	MBER	1.47	D	mg/L	0.01
pH Field	FDEP FT 1100	10/25/2017	12:14	MBER	7.16	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/25/2017	12:14	MBER	23.38	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/25/2017	12:14	MBER	<0.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/25/2017	12:14	MBER	33.77	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	10/26/2017	15:45	KS	0.04	U	mg/L	0.04
Color by Observation	Observation	10/25/2017	12:14	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	10/27/2017	15:30	LMP	202		mg/L	10
Chloride	EPA 300.0	10/27/2017	9:46	EC	11.1		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class III Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 11/30/2017

Sample Number:	**AC59363**	Sample ID:	2MW9 @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/25/2017	Date Received:	10/25/2017
Time Sampled:	11:38	Time Received:	15:02
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	10/25/2017	11:38	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2003 NELAC Standards

NELAC Certification: E44123
EPA Lab Code: FL00137

Pasco County Utilities Environmental Laboratory Report

8864 Government Drive
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Phone: (727) 847-8902 Fax: (727) 847-8112
Contacts: Gloria Krueger, Administrative Secretary
Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Pasco County Res Rec
Havs Road
Shady Hills, Fl
John Power

Report Date: 12/6/2017

Sample Number:	**AC59359**	Sample ID:	4MW9 @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/25/2017	Date Received:	10/25/2017
Time Sampled:	11:21	Time Received:	15:02
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/25/2017	11:21	MBER	4.57	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/25/2017	11:21	MBER	1.02	D	mg/L	0.01
pH Field	FDEP FT 1100	10/25/2017	11:21	MBER	7.13	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/25/2017	11:21	MBER	24.30	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/25/2017	11:21	MBER	0.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/25/2017	11:21	MBER	32.57	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.12	I	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	10/26/2017	15:45	KS	0.50		mg/L	0.04
Color by Observation	Observation	10/25/2017	11:21	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	10/27/2017	15:30	LMP	242		mg/L	10
Chloride	EPA 300.0	10/27/2017	9:46	EC	25.1		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class III Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 11/30/2017

Sample Number:	**AC59364**	Sample ID:	2MW10 @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/25/2017	Date Received:	10/25/2017
Time Sampled:	11:42	Time Received:	15:02
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	10/25/2017	11:42	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 12/19/2017

Sample Number:	**AC59413**	Sample ID:	4MW11D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/26/2017	Date Received:	10/26/2017
Time Sampled:	11:39	Time Received:	15:37
Sampled By:	MARIAN B	Received By:	KS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/26/2017	11:39	MBER	372	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/26/2017	11:39	MBER	3.74	D	mg/L	0.01
pH Field	FDEP FT 1100	10/26/2017	11:39	MBER	7.46	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/26/2017	11:39	MBER	23.01	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/26/2017	11:39	MBER	0.5	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/26/2017	11:39	MBER	34.49	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/9/2017	15:10	KS	0.62		mg/L	0.04
Color by Observation	Observation	10/26/2017	11:39	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	10/27/2017	15:30	LMP	202		mg/L	10
Chloride	EPA 300.0	10/27/2017	9:46	EC	21.5		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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PASCO COUNTY FLORIDA
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CLIENT/SAMPLE INFORMATION

Report Date: 12/19/2017

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59414**	Sample ID:	4MW12D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/26/2017	Date Received:	10/26/2017
Time Sampled:	12:36	Time Received:	15:37
Sampled By:	MARIAN B	Received By:	KS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/26/2017	12:36	MBER	416	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/26/2017	12:36	MBER	2.36	D	mg/L	0.01
pH Field	FDEP FT 1100	10/26/2017	12:36	MBER	7.25	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/26/2017	12:36	MBER	24.98	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/26/2017	12:36	MBER	<0.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/26/2017	12:36	MBER	33.61	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/9/2017	15:10	KS	0.89		mg/L	0.04
Color by Observation	Observation	10/26/2017	12:36	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	10/27/2017	15:30	LMP	228		mg/L	10
Chloride	EPA 300.0	10/27/2017	9:46	EC	22.0		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/11/2018

Sample Number:	**AC62470**	Sample ID:	2MW13D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/26/2017	Date Received:	10/26/2017
Time Sampled:	15:55	Time Received:	17:00
Sampled By:	MARIAN B	Received By:	CEM
		Delivered By:	MB

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	10/26/2017	15:55	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Report Date: 1/11/2018

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59415**	Sample ID:	4MW13D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/26/2017	Date Received:	10/26/2017
Time Sampled:	13:41	Time Received:	15:37
Sampled By:	MARIAN B	Received By:	KS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/26/2017	13:41	MBER	445	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/26/2017	13:41	MBER	2.42	D	mg/L	0.01
pH Field	FDEP FT 1100	10/26/2017	13:41	MBER	7.24	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/26/2017	13:41	MBER	25.96	D	Deg C	0.00
Water Level (NGVD)	DEP-SOP	10/26/2017	13:41	MBER	31.44	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/9/2017	15:10	KS	0.04	U	mg/L	0.04
Color by Observation	Observation	10/26/2017	13:41	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	10/27/2017	15:30	LMP	246		mg/L	10
Chloride	EPA 300.0	10/27/2017	9:46	EC	20.4		mg/L	0.10
Turbidity	SM 2130 B	10/26/2017	13:41	MBER	0.2	D	NTU's	0.11

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59906**	Sample ID:	4MW14D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/7/2017	Date Received:	11/7/2017
Time Sampled:	15:33	Time Received:	16:33
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/7/2017	15:33	MBER	412	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/7/2017	15:33	MBER	1.07	D	mg/L	0.01
pH Field	FDEP FT 1100	11/7/2017	15:33	MBER	7.21	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/7/2017	15:33	MBER	27.39	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/7/2017	15:33	MBER	2.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/7/2017	15:33	MBER	33.47	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/9/2017	13:20	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	0.54		mg/L	0.04
Color by Observation	Observation	11/7/2017	15:33	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/13/2017	15:30	LMP	226		mg/L	10
Chloride	EPA 300.0	11/9/2017	11:41	EC	23.5		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Report Date: 12/19/2017

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59854**	Sample ID:	2MW15DA @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/6/2017	Date Received:	11/6/2017
Time Sampled:	14:13	Time Received:	16:48
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/6/2017	14:13	MBER	336	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/6/2017	14:13	MBER	1.29	D	mg/L	0.01
pH Field	FDEP FT 1100	11/6/2017	14:13	MBER	7.31	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/6/2017	14:13	MBER	25.55	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/6/2017	14:13	MBER	0.9	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/6/2017	14:13	MBER	36.13	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/7/2017	15:40	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/8/2017	13:25	KS	0.20	I	mg/L	0.04
Color by Observation	Observation	11/6/2017	14:13	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	182		mg/L	10
Chloride	EPA 300.0	11/7/2017	9:46	EC	11.5		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59972**	Sample ID:	2MW17S @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/8/2017	Date Received:	11/8/2017
Time Sampled:	9:57	Time Received:	16:13
Sampled By:	MARIAN B	Received By:	LP
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/8/2017	9:57	MBER	309	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/8/2017	9:57	MBER	4.26	D	mg/L	0.01
pH Field	FDEP FT 1100	11/8/2017	9:57	MBER	6.00	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/8/2017	9:57	MBER	26.45	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/8/2017	9:57	MBER	1.2	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/8/2017	9:57	MBER	31.02	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/9/2017	13:20	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	6.59		mg/L	0.04
Color by Observation	Observation	11/8/2017	9:57	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/13/2017	15:30	LMP	252		mg/L	10
Chloride	EPA 300.0	11/9/2017	11:41	EC	32.3		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 12/19/2017

Sample Number:	**AC59855**	Sample ID:	2MW18D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/6/2017	Date Received:	11/6/2017
Time Sampled:	15:39	Time Received:	16:48
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/6/2017	15:39	MBER	508	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/6/2017	15:39	MBER	0.99	D	mg/L	0.01
pH Field	FDEP FT 1100	11/6/2017	15:39	MBER	7.11	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/6/2017	15:39	MBER	25.34	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/6/2017	15:39	MBER	1.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/6/2017	15:39	MBER	30.43	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/7/2017	15:40	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/8/2017	13:25	KS	0.82		mg/L	0.04
Color by Observation	Observation	11/6/2017	15:39	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	288		mg/L	10
Chloride	EPA 300.0	11/7/2017	9:46	EC	31.9		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manage

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/11/2018

Sample Number:	**AC59973**	Sample ID:	2MW19D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/8/2017	Date Received:	11/8/2017
Time Sampled:	11:37	Time Received:	16:13
Sampled By:	MARIAN B	Received By:	LP
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/8/2017	11:37	MBER	512	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/8/2017	11:37	MBER	1.88	D	mg/L	0.01
pH Field	FDEP FT 1100	11/8/2017	11:37	MBER	6.98	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/8/2017	11:37	MBER	26.23	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/8/2017	11:37	MBER	2.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/8/2017	11:37	MBER	29.62	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/9/2017	13:20	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	0.36		mg/L	0.04
Color by Observation	Observation	11/8/2017	11:37	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/13/2017	15:30	LMP	258		mg/L	10
Chloride	EPA 300.0	11/9/2017	11:41	EC	18.8		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
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MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2003 NELAC Standards

NELAC Certification: E44123
EPA Lab Code: FL00137

Pasco County Utilities Environmental Laboratory Report

8864 Government Drive
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Chris Childress, QA/QC Officer
Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

West Pasco Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59725**	Sample ID:	4MW21 @ RES REC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/1/2017	Date Received:	11/1/2017
Time Sampled:	12:01	Time Received:	16:24
Sampled By:	MARIAN B	Received By:	CEM
		Delivered By:	MB

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/1/2017	12:01	MBER	130	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/1/2017	12:01	MBER	4.73	D	mg/L	0.01
pH Field	FDEP FT 1100	11/1/2017	12:01	MBER	5.26	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/1/2017	12:01	MBER	24.59	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/1/2017	12:01	MBER	1.8	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/1/2017	12:01	MBER	33.35	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/7/2017	15:00	KS	5.28		mg/L	0.04
Color by Observation	Observation	11/1/2017	12:01	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	108		mg/L	10
Chloride	EPA 300.0	11/6/2017	9:17	EC	10.3		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

West Pasco Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59724**	Sample ID:	4MW22
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/1/2017	Date Received:	11/1/2017
Time Sampled:	10:46	Time Received:	16:24
Sampled By:	MARIAN B	Received By:	CEM
		Delivered By:	MB

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/1/2017	10:46	MBER	477	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/1/2017	10:46	MBER	1.11	D	mg/L	0.01
pH Field	FDEP FT 1100	11/1/2017	10:46	MBER	7.05	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/1/2017	10:46	MBER	24.66	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/1/2017	10:46	MBER	1.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/1/2017	10:46	MBER	32.09	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/7/2017	15:00	KS	0.15		mg/L	0.04
Color by Observation	Observation	11/1/2017	10:46	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	266		mg/L	10
Chloride	EPA 300.0	11/3/2017	9:29	EC	18.6		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Report Date: 1/25/2018

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC60082**	Sample ID:	2MW-24S @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/13/2017	Date Received:	11/13/2017
Time Sampled:	14:12	Time Received:	16:00
Sampled By:	MARIAN B	Received By:	ts
		Delivered By:	mb

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/13/2017	14:12	MBER	522	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/13/2017	14:12	MBER	2.49	D	mg/L	0.01
pH Field	FDEP FT 1100	11/13/2017	14:12	MBER	6.64	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/13/2017	14:12	MBER	26.61	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/13/2017	14:12	MBER	4.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/13/2017	14:12	MBER	35.62	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/22/2017	13:15	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	5.96		mg/L	0.04
Color by Observation	Observation	11/13/2017	14:12	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/15/2017	12:20	LMP	288		mg/L	10
Chloride	EPA 300.0	11/17/2017	10:45	EC	7.89		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/25/2018

Sample Number:	**AC60081**	Sample ID:	2MW-24D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/13/2017	Date Received:	11/13/2017
Time Sampled:	13:22	Time Received:	16:00
Sampled By:	MARIAN B	Received By:	ts
		Delivered By:	mb

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/13/2017	13:22	MBER	526	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/13/2017	13:22	MBER	1.34	D	mg/L	0.01
pH Field	FDEP FT 1100	11/13/2017	13:22	MBER	7.44	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/13/2017	13:22	MBER	27.33	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/13/2017	13:22	MBER	<0.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/13/2017	13:22	MBER	36.58	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/22/2017	13:15	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	1.73		mg/L	0.04
Color by Observation	Observation	11/13/2017	13:22	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/15/2017	12:20	LMP	310		mg/L	10
Chloride	EPA 300.0	11/17/2017	10:45	EC	48.1		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59530**	Sample ID:	2MW-25S @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/30/2017	Date Received:	10/30/2017
Time Sampled:	12:05	Time Received:	17:44
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	10/30/2017	12:05	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Report Date: 1/10/2018

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59526**	Sample ID:	2MW-25D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/30/2017	Date Received:	10/30/2017
Time Sampled:	13:10	Time Received:	17:44
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/30/2017	13:10	MBER	734	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/30/2017	13:10	MBER	0.98	D	mg/L	0.01
pH Field	FDEP FT 1100	10/30/2017	13:10	MBER	7.04	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/30/2017	13:10	MBER	26.49	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/30/2017	13:10	MBER	2.4	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/30/2017	13:10	MBER	33.56	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	376	XC	mg/L	0.04
Color by Observation	Observation	10/30/2017	13:10	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/1/2017	15:50	LMP	416		mg/L	10
Chloride	EPA 300.0	11/3/2017	9:29	EC	87.4		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 2/1/2018

Sample Number:	**AC60080**	Sample ID:	2MW-25D RESAMPLE @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/13/2017	Date Received:	11/13/2017
Time Sampled:	12:50	Time Received:	16:00
Sampled By:	MARIAN B	Received By:	ts
		Delivered By:	mb

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/13/2017	12:50	MBER	722	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/13/2017	12:50	MBER	1.33	D	mg/L	0.01
pH Field	FDEP FT 1100	11/13/2017	12:50	MBER	7.08	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/13/2017	12:50	MBER	26.73	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/13/2017	12:50	MBER	1.8	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/13/2017	12:50	MBER	14.68	D	Ft.	0
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	0.82		mg/L	0.04
Color by Observation	Observation	11/13/2017	9:57	MBER	CLEAR	D	ObsColor	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Report Date: 1/10/2018

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59529**	Sample ID:	2MW-26S @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/30/2017	Date Received:	10/30/2017
Time Sampled:	10:10	Time Received:	17:44
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Water Level (NGVD)	DEP-SOP	10/30/2017	10:10	MBER	DRY	D	Ft.	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59525**	Sample ID:	2MW-26D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/30/2017	Date Received:	10/30/2017
Time Sampled:	11:23	Time Received:	17:44
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/30/2017	11:23	MBER	591	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/30/2017	11:23	MBER	1.55	D	mg/L	0.01
pH Field	FDEP FT 1100	10/30/2017	11:23	MBER	7.12	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/30/2017	11:23	MBER	25.12	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/30/2017	11:23	MBER	0.5	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/30/2017	11:23	MBER	33.93	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/9/2017	15:10	KS	0.46		mg/L	0.04
Color by Observation	Observation	10/30/2017	11:23	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/1/2017	15:50	LMP	324		mg/L	10
Chloride	EPA 300.0	11/3/2017	9:29	EC	55.8		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Report Date: 1/10/2018

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59728**	Sample ID:	2MW27S @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/1/2017	Date Received:	11/1/2017
Time Sampled:	15:18	Time Received:	16:24
Sampled By:	MARIAN B	Received By:	CEM
		Delivered By:	MB

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/1/2017	15:18	MBER	761	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/1/2017	15:18	MBER	1.02	D	mg/L	0.01
pH Field	FDEP FT 1100	11/1/2017	15:18	MBER	6.92	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/1/2017	15:18	MBER	25.78	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/1/2017	15:18	MBER	0.3	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/1/2017	15:18	MBER	35.14	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/7/2017	15:00	KS	0.93		mg/L	0.04
Color by Observation	Observation	11/1/2017	15:18	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	460		mg/L	10
Chloride	EPA 300.0	11/6/2017	9:17	EC	90.0		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59727**	Sample ID:	4MW27 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/1/2017	Date Received:	11/1/2017
Time Sampled:	14:24	Time Received:	16:24
Sampled By:	MARIAN B	Received By:	CEM
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/1/2017	14:24	MBER	689	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	11/1/2017	14:24	MBER	2.02	D	mg/L	0.01
pH Field	FDEP FT 1100	11/1/2017	14:24	MBER	7.24	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/1/2017	14:24	MBER	24.74	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/1/2017	14:24	MBER	1.9	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/1/2017	14:24	MBER	35.19	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.07	I	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/7/2017	15:00	KS	0.20		mg/L	0.04
Color by Observation	Observation	11/1/2017	14:24	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/7/2017	16:50	LMP	400		mg/L	10
Chloride	EPA 300.0	11/3/2017	9:29	EC	102		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
I = Reported value is greater than or equal to the detection limit, but less than PQL.
XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2003 NELAC Standards

NELAC Certification: E44123
EPA Lab Code: FL00137

Pasco County Utilities Environmental Laboratory Report

8864 Government Drive
New Port Richey, FL 34654
Phone: (727) 847-8902 Fax: (727) 847-8112
Contacts: Gloria Krueger, Administrative Secretary
Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Report Date: 1/10/2018

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Sample Number:	**AC59527**	Sample ID:	2MW27D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/30/2017	Date Received:	10/30/2017
Time Sampled:	16:02	Time Received:	17:44
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/30/2017	16:02	MBER	771	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/30/2017	16:02	MBER	3.27	D	mg/L	0.01
pH Field	FDEP FT 1100	10/30/2017	16:02	MBER	7.31	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/30/2017	16:02	MBER	23.76	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/30/2017	16:02	MBER	2.7	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/30/2017	16:02	MBER	35.15	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.05	U	mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/17/2017	13:15	KS	1.41		mg/L	0.04
Color by Observation	Observation	10/30/2017	16:02	MBER	CLEAR	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/1/2017	15:50	LMP	448		mg/L	10
Chloride	EPA 300.0	11/3/2017	9:29	EC	104		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
I = Reported value is greater than or equal to the detection limit, but less than PQL.
XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2003 NELAC Standards

NELAC Certification: E44123
EPA Lab Code: FL00137

Pasco County Utilities Environmental Laboratory Report

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Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Resource Recovery
Class I Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 1/10/2018

Sample Number:	**AC59528**	Sample ID:	4MW27D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	10/30/2017	Date Received:	10/30/2017
Time Sampled:	16:18	Time Received:	17:44
Sampled By:	MARIAN B	Received By:	TS
		Delivered By:	MB

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the NELAC standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	10/30/2017	16:18	MBER	276	D	umhos/cm	1
Dissolved Oxygen Field	FDEP FT 1500	10/30/2017	16:18	MBER	3.55	D	mg/L	0.01
pH Field	FDEP FT 1100	10/30/2017	16:18	MBER	7.58	D	Std Units	0.10
Temperature Field	FDEP FT 1400	10/30/2017	16:18	MBER	23.32	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	10/30/2017	16:18	MBER	32.7	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	10/30/2017	16:18	MBER	34.96	D	Ft.	0
Ammonia (N)	SM 4500-NH3 G	11/2/2017	14:45	KS	0.22		mg/L	0.05
Nitrate (N)	SM 4500-NO3 F	11/9/2017	15:10	KS	0.04	U	mg/L	0.04
Color by Observation	Observation	10/30/2017	16:18	MBER	CLOUDY	D	ObsColor	0
Total Dissolved Solids	SM 2540 C	11/1/2017	15:50	LMP	156		mg/L	10
Chloride	EPA 300.0	11/3/2017	9:29	EC	5.27		mg/L	0.10

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
I = Reported value is greater than or equal to the detection limit, but less than PQL.
XC = Reported value exceeds the MCL (F.A.C. 62-550).
MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2003 NELAC Standards

NELAC Certification: E44123
EPA Lab Code: FL00137

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 14, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GWM
Pace Project No.: 35344666

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Resource Recovery GWM
Pace Project No.:	35344666

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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Ormond Beach, FL 32174
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SAMPLE SUMMARY

Project: Resource Recovery GWM
Pace Project No.: 35344666

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35344666001	**4MW-7**	Water	10/25/17 10:02	10/27/17 21:45
35344666002	**4MW-9**	Water	10/25/17 11:21	10/27/17 21:45
35344666003	**4MW-8**	Water	10/25/17 12:14	10/27/17 21:45
35344666004	**4MW-2**	Water	10/25/17 14:02	10/27/17 21:45

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SAMPLE ANALYTE COUNT

Project: Resource Recovery GWM
Pace Project No.: 35344666

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35344666001	**4MW-7**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	SK1	48	PASI-O
35344666002	**4MW-9**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	SK1	48	PASI-O
35344666003	**4MW-8**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	SK1	48	PASI-O
35344666004	**4MW-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	SK1	48	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344666

Sample: 4MW-7 **Lab ID: 35344666001** Collected: 10/25/17 10:02 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/01/17 15:56	11/03/17 11:28	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0097	0.0072	1	11/01/17 15:56	11/03/17 11:28	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/03/17 11:25	7440-38-2	
Barium	**10.0**	ug/L	10.0	5.0	1	10/30/17 14:18	11/03/17 11:25	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/03/17 11:25	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/03/17 11:25	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/03/17 11:25	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/03/17 11:25	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/03/17 11:25	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	10/30/17 14:18	11/03/17 11:25	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/03/17 11:25	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/03/17 11:25	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	10/30/17 14:18	11/03/17 11:25	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/03/17 11:25	7440-22-4	
Sodium	**4.5**	mg/L	1.0	0.50	1	10/30/17 14:18	11/03/17 11:25	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/03/17 11:25	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	10/30/17 14:18	11/03/17 11:25	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/03/17 11:40	11/07/17 09:50	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/06/17 01:12	67-64-1	J(L1)
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:12	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/06/17 01:12	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/06/17 01:12	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/06/17 01:12	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:12	78-93-3	J(L1)
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:12	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/06/17 01:12	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/06/17 01:12	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/06/17 01:12	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:12	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344666

Sample: 4MW-7 **Lab ID: 35344666001** Collected: 10/25/17 10:02 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/06/17 01:12	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/06/17 01:12	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:12	591-78-6	J(L1)
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/06/17 01:12	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/06/17 01:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:12	108-10-1	J(L1)
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/06/17 01:12	79-34-5	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/06/17 01:12	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/06/17 01:12	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:12	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/06/17 01:12	1330-20-7	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 00:01	127-18-4	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		11/07/17 00:01	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		11/07/17 00:01	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		11/07/17 00:01	2037-26-5	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344666

Sample: 4MW-9 **Lab ID: 35344666002** Collected: 10/25/17 11:21 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/01/17 15:56	11/03/17 11:43	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/01/17 15:56	11/03/17 11:43	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:43	7440-38-2	
Barium	**10 I**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:43	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/03/17 16:51	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:43	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:43	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:43	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:43	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	10/30/17 14:18	11/05/17 22:43	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:43	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:43	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	10/30/17 14:18	11/05/17 22:43	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:43	7440-22-4	
Sodium	**9.0**	mg/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:43	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:43	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	10/30/17 14:18	11/05/17 22:43	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/03/17 11:40	11/07/17 09:52	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/06/17 01:36	67-64-1	J(L1)
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:36	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/06/17 01:36	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/06/17 01:36	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/06/17 01:36	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:36	78-93-3	J(L1)
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:36	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/06/17 01:36	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/06/17 01:36	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/06/17 01:36	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:36	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	75-35-4	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344666

Sample: 4MW-9 **Lab ID: 35344666002** Collected: 10/25/17 11:21 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/06/17 01:36	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/06/17 01:36	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:36	591-78-6	J(L1)
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/06/17 01:36	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/06/17 01:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 01:36	108-10-1	J(L1)
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/06/17 01:36	79-34-5	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/06/17 01:36	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/06/17 01:36	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 01:36	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/06/17 01:36	1330-20-7	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 00:25	127-18-4	
Surrogates									
4-Bromofluorobenzene (S)	92	%	89-111		1		11/07/17 00:25	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		11/07/17 00:25	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		11/07/17 00:25	2037-26-5	

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(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344666

Sample: 4MW-8 **Lab ID: 35344666003** Collected: 10/25/17 12:14 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/01/17 15:56	11/03/17 11:57	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/01/17 15:56	11/03/17 11:57	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:47	7440-38-2	
Barium	**8.8 I**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:47	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/03/17 16:57	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:47	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:47	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:47	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:47	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	10/30/17 14:18	11/05/17 22:47	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:47	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:47	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	10/30/17 14:18	11/05/17 22:47	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:47	7440-22-4	
Sodium	**4.7**	mg/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:47	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:47	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	10/30/17 14:18	11/05/17 22:47	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/03/17 11:40	11/07/17 10:02	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/06/17 02:00	67-64-1	J(L1)
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:00	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/06/17 02:00	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/06/17 02:00	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/06/17 02:00	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:00	78-93-3	J(L1)
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:00	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/06/17 02:00	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/06/17 02:00	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/06/17 02:00	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:00	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344666

Sample: 4MW-8 **Lab ID: 35344666003** Collected: 10/25/17 12:14 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/06/17 02:00	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/06/17 02:00	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:00	591-78-6	J(L1)
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/06/17 02:00	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/06/17 02:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:00	108-10-1	J(L1)
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/06/17 02:00	79-34-5	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/06/17 02:00	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/06/17 02:00	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:00	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/06/17 02:00	1330-20-7	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 00:49	127-18-4	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		11/07/17 00:49	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		11/07/17 00:49	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		11/07/17 00:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344666

Sample: 4MW-2 **Lab ID: 35344666004** Collected: 10/25/17 14:02 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/01/17 15:56	11/03/17 12:12	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/01/17 15:56	11/03/17 12:12	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:51	7440-38-2	
Barium	**7.4 I**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:51	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/03/17 17:02	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:51	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:51	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:51	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:51	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	10/30/17 14:18	11/05/17 22:51	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:51	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:51	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	10/30/17 14:18	11/05/17 22:51	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:51	7440-22-4	
Sodium	**2.9**	mg/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:51	7440-23-5	
Vanadium	**5.4 I**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:51	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	10/30/17 14:18	11/05/17 22:51	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/03/17 11:40	11/07/17 10:07	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/06/17 02:25	67-64-1	J(L1)
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:25	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/06/17 02:25	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/06/17 02:25	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/06/17 02:25	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:25	78-93-3	J(L1)
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:25	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/06/17 02:25	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/06/17 02:25	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/06/17 02:25	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:25	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344666

Sample: 4MW-2 **Lab ID: 35344666004** Collected: 10/25/17 14:02 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/06/17 02:25	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/06/17 02:25	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:25	591-78-6	J(L1)
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/06/17 02:25	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/06/17 02:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/06/17 02:25	108-10-1	J(L1)
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/06/17 02:25	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/06/17 02:25	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/06/17 02:25	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/06/17 02:25	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/06/17 02:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	89-111		1		11/06/17 02:25	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	75-135		1		11/06/17 02:25	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		11/06/17 02:25	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

QC Batch: 403060 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

METHOD BLANK: 2200415 | Matrix: Water
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/07/17 09:45	

LABORATORY CONTROL SAMPLE: 2200416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	1.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2200417 2200418

Parameter	Units	35344666002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.9	1.9	96	96	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

QC Batch: 401984 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

METHOD BLANK: 2194143 | Matrix: Water
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Barium	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Beryllium	ug/L	0.50 U	1.0	0.50	11/03/17 10:59	
Cadmium	ug/L	0.50 U	1.0	0.50	11/03/17 10:59	
Chromium	ug/L	2.5 U	5.0	2.5	11/03/17 10:59	
Cobalt	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Copper	ug/L	2.5 U	5.0	2.5	11/03/17 10:59	
Iron	ug/L	20.0 U	40.0	20.0	11/03/17 10:59	
Lead	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Nickel	ug/L	2.5 U	5.0	2.5	11/03/17 10:59	
Selenium	ug/L	7.5 U	15.0	7.5	11/03/17 10:59	
Silver	ug/L	2.5 U	5.0	2.5	11/03/17 10:59	
Sodium	mg/L	0.50 U	1.0	0.50	11/03/17 10:59	
Vanadium	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Zinc	ug/L	10.0 U	20.0	10.0	11/03/17 10:59	

LABORATORY CONTROL SAMPLE: 2194144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	254	102	80-120	
Barium	ug/L	250	273	109	80-120	
Beryllium	ug/L	25	27.1	109	80-120	
Cadmium	ug/L	25	26.3	105	80-120	
Chromium	ug/L	250	261	105	80-120	
Cobalt	ug/L	250	263	105	80-120	
Copper	ug/L	250	266	106	80-120	
Iron	ug/L	2500	2750	110	80-120	
Lead	ug/L	250	260	104	80-120	
Nickel	ug/L	250	261	104	80-120	
Selenium	ug/L	250	264	105	80-120	
Silver	ug/L	25	28.1	112	80-120	
Sodium	mg/L	12.5	12.6	101	80-120	
Vanadium	ug/L	250	266	106	80-120	
Zinc	ug/L	1250	1300	104	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2194145 2194146

Parameter	Units	35344666001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	5.0 U	250	250	252	246	101	98	75-125	3	20	
Barium	ug/L	10.0	250	250	285	280	110	108	75-125	1	20	
Beryllium	ug/L	0.50 U	25	25	27.8	27.3	111	109	75-125	2	20	
Cadmium	ug/L	0.50 U	25	25	26.5	25.8	106	103	75-125	3	20	
Chromium	ug/L	2.5 U	250	250	264	260	105	104	75-125	2	20	
Cobalt	ug/L	5.0 U	250	250	261	255	105	102	75-125	2	20	
Copper	ug/L	2.5 U	250	250	272	267	108	106	75-125	2	20	
Iron	ug/L	20.0 U	2500	2500	2760	2690	110	108	75-125	2	20	
Lead	ug/L	5.0 U	250	250	259	255	104	102	75-125	2	20	
Nickel	ug/L	2.5 U	250	250	262	252	104	100	75-125	4	20	
Selenium	ug/L	7.5 U	250	250	266	262	107	105	75-125	2	20	
Silver	ug/L	2.5 U	25	25	28.8	28.9	115	115	75-125	0	20	
Sodium	mg/L	4.5	12.5	12.5	17.9	17.5	107	104	75-125	2	20	
Vanadium	ug/L	5.0 U	250	250	273	270	109	107	75-125	1	20	
Zinc	ug/L	10.0 U	1250	1250	1300	1260	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

QC Batch: 403401 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

METHOD BLANK: 2202193 Matrix: Water
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/05/17 18:45	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/05/17 18:45	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/05/17 18:45	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/05/17 18:45	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/05/17 18:45	
Acetone	ug/L	10.0 U	20.0	10.0	11/05/17 18:45	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/05/17 18:45	
Benzene	ug/L	0.10 U	1.0	0.10	11/05/17 18:45	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/05/17 18:45	
Bromoform	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/05/17 18:45	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/05/17 18:45	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/05/17 18:45	
Chloroform	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/05/17 18:45	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/05/17 18:45	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/05/17 18:45	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/05/17 18:45	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/05/17 18:45	
Styrene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Toluene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/05/17 18:45	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/05/17 18:45	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

METHOD BLANK: 2202193 Matrix: Water
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/05/17 18:45	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/05/17 18:45	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/05/17 18:45	
1,2-Dichloroethane-d4 (S)	%	103	75-135		11/05/17 18:45	
4-Bromofluorobenzene (S)	%	96	89-111		11/05/17 18:45	
Toluene-d8 (S)	%	101	89-112		11/05/17 18:45	

LABORATORY CONTROL SAMPLE: 2202194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,1-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.5	113	70-130	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethene	ug/L	20	19.3	97	65-134	
1,2,3-Trichloropropane	ug/L	20	23.3	117	65-135	
1,2-Dichlorobenzene	ug/L	20	20.1	100	70-130	
1,2-Dichloroethane	ug/L	20	20.2	101	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	40	59.3	148	61-129	J(L1)
2-Hexanone	ug/L	40	67.8	169	68-131	J(L1)
4-Methyl-2-pentanone (MIBK)	ug/L	40	53.4	133	70-130	J(L1)
Acetone	ug/L	40	66.6	166	44-155	J(L1)
Acrylonitrile	ug/L	200	247	124	59-138	
Benzene	ug/L	20	19.9	100	70-130	
Bromochloromethane	ug/L	20	20.1	101	70-130	
Bromodichloromethane	ug/L	20	19.6	98	70-130	
Bromoform	ug/L	20	24.6	123	62-129	
Bromomethane	ug/L	20	15.6	78	10-179	
Carbon disulfide	ug/L	20	19.5	97	40-156	
Carbon tetrachloride	ug/L	20	20.2	101	66-127	
Chlorobenzene	ug/L	20	18.8	94	70-130	
Chloroethane	ug/L	20	20.8	104	57-142	
Chloroform	ug/L	20	19.4	97	70-130	
Chloromethane	ug/L	20	27.3	136	45-150	
cis-1,2-Dichloroethene	ug/L	20	19.3	97	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.5	103	70-130	
Dibromochloromethane	ug/L	20	20.9	105	70-130	
Dibromomethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Iodomethane	ug/L	40	55.9	140	21-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

LABORATORY CONTROL SAMPLE: 2202194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	20.1	100	65-127	
Styrene	ug/L	20	20.9	104	70-130	
Tetrachloroethene	ug/L	20	20.2	101	48-155	
Toluene	ug/L	20	19.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	68-126	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	24.1	120	46-138	
Trichloroethene	ug/L	20	19.8	99	69-129	
Trichlorofluoromethane	ug/L	20	21.3	106	60-144	
Vinyl acetate	ug/L	20	24.7	124	70-130	
Vinyl chloride	ug/L	20	21.2	106	67-136	
Xylene (Total)	ug/L	60	61.2	102	70-130	
1,2-Dichloroethane-d4 (S)	%			100	75-135	
4-Bromofluorobenzene (S)	%			96	89-111	
Toluene-d8 (S)	%			101	89-112	

MATRIX SPIKE SAMPLE: 2202403

Parameter	Units	35345205007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	15.3	76	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	15.9	79	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	15.0	75	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	14.9	74	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	16.5	82	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	16.3	82	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	15.3	76	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	14.0	70	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	15.3	77	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	14.9	75	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	14.2	71	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	46.7	117	61-129	
2-Hexanone	ug/L	5.0 U	40	44.4	111	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	38.8	97	70-130	
Acetone	ug/L	10.0 U	40	50.2	126	44-155	
Acrylonitrile	ug/L	5.0 U	200	195	97	59-138	
Benzene	ug/L	0.10 U	20	15.8	79	70-130	
Bromochloromethane	ug/L	0.50 U	20	15.7	79	70-130	
Bromodichloromethane	ug/L	0.27 U	20	15.2	76	70-130	
Bromoform	ug/L	0.50 U	20	17.3	87	62-129	
Bromomethane	ug/L	0.50 U	20	12.5	62	10-179	
Carbon disulfide	ug/L	5.0 U	20	19.5	98	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	16.4	82	66-127	
Chlorobenzene	ug/L	0.50 U	20	14.5	73	70-130	
Chloroethane	ug/L	0.50 U	20	21.4	107	57-142	
Chloroform	ug/L	0.50 U	20	15.6	78	70-130	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

MATRIX SPIKE SAMPLE: 2202403

Parameter	Units	35345205007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	24.3	122	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	15.3	75	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.0	70	70-130	
Dibromochloromethane	ug/L	0.26 U	20	15.1	76	70-130	
Dibromomethane	ug/L	0.50 U	20	15.0	75	70-130	
Ethylbenzene	ug/L	0.50 U	20	14.3	71	70-130	
Iodomethane	ug/L	0.50 U	40	49.5	124	21-150	
Methylene Chloride	ug/L	2.5 U	20	16.0	79	65-127	
Styrene	ug/L	0.50 U	20	15.2	76	70-130	
Tetrachloroethene	ug/L	0.67 I	20	16.7	80	48-155	
Toluene	ug/L	0.50 U	20	15.2	76	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	15.9	79	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.8	74	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	19.4	97	46-138	
Trichloroethene	ug/L	0.50 U	20	16.0	79	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	19.0	95	60-144	
Vinyl acetate	ug/L	1.0 U	20	16.8	84	70-130	
Vinyl chloride	ug/L	0.50 U	20	20.5	100	67-136	
Xylene (Total)	ug/L	1.5 U	60	45.8	76	70-130	
1,2-Dichloroethane-d4 (S)	%				103	75-135	
4-Bromofluorobenzene (S)	%				98	89-111	
Toluene-d8 (S)	%				100	89-112	

SAMPLE DUPLICATE: 2202402

Parameter	Units	35345205005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

SAMPLE DUPLICATE: 2202402

Parameter	Units	35345205005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	107	105	1	40	
4-Bromofluorobenzene (S)	%	94	96	2	40	
Toluene-d8 (S)	%	105	101	4	40	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

QC Batch: 403638 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35344666001, 35344666002, 35344666003

METHOD BLANK: 2203504 | Matrix: Water
Associated Lab Samples: 35344666001, 35344666002, 35344666003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/06/17 21:37	
1,2-Dichloroethane-d4 (S)	%	103	75-135		11/06/17 21:37	
4-Bromofluorobenzene (S)	%	95	89-111		11/06/17 21:37	
Toluene-d8 (S)	%	101	89-112		11/06/17 21:37	

LABORATORY CONTROL SAMPLE & LCSD: 2203505 2204001

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	20	20.1	20.3	100	102	48-155	1	40	
1,2-Dichloroethane-d4 (S)	%				99	99	75-135		40	
4-Bromofluorobenzene (S)	%				104	107	89-111		40	
Toluene-d8 (S)	%				98	98	89-112		40	

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REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344666

QC Batch: 402307 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

METHOD BLANK: 2195839 | Matrix: Water
Associated Lab Samples: 35344666001, 35344666002, 35344666003, 35344666004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/03/17 08:33	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/03/17 08:33	

LABORATORY CONTROL SAMPLE: 2195840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.30	119	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.28	111	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2196640 2196641

Parameter	Units	35344625013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.76	0.75	173	171	60-140	1	40	J(M1)
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.65	0.68	147	154	60-140	4	40	J(M1)

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery GWM
Pace Project No.: 35344666

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

BATCH QUALIFIERS

Batch: 403638

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GWM
Pace Project No.: 35344666

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35344666001	**4MW-7**	EPA 8011	402307	EPA 8011	402800
35344666002	**4MW-9**	EPA 8011	402307	EPA 8011	402800
35344666003	**4MW-8**	EPA 8011	402307	EPA 8011	402800
35344666004	**4MW-2**	EPA 8011	402307	EPA 8011	402800
35344666001	**4MW-7**	EPA 3010	401984	EPA 6010	402040
35344666002	**4MW-9**	EPA 3010	401984	EPA 6010	402040
35344666003	**4MW-8**	EPA 3010	401984	EPA 6010	402040
35344666004	**4MW-2**	EPA 3010	401984	EPA 6010	402040
35344666001	**4MW-7**	EPA 7470	403060	EPA 7470	403216
35344666002	**4MW-9**	EPA 7470	403060	EPA 7470	403216
35344666003	**4MW-8**	EPA 7470	403060	EPA 7470	403216
35344666004	**4MW-2**	EPA 7470	403060	EPA 7470	403216
35344666001	**4MW-7**	EPA 8260	403401		
35344666001	**4MW-7**	EPA 8260	403638		
35344666002	**4MW-9**	EPA 8260	403401		
35344666002	**4MW-9**	EPA 8260	403638		
35344666003	**4MW-8**	EPA 8260	403401		
35344666003	**4MW-8**	EPA 8260	403638		
35344666004	**4MW-2**	EPA 8260	403401		

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Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY RECORD

FOR LAB USE ONLY
Temp. of Contents: 11.2 ° C (or Received on Ice, ROI)
Condition of Contents:

FOR LAB USE ONLY
LOG IN NO.

WO#: 35344666
35344666

1. Client: (Company or Individual): Pasco Co. ENV. LAB
Address:
City: State Zip Code

2. Report to: (if different from above): Candia Mulhern
Address:
City State Zip Code

3. Client Project Name: Resource Recovery GWM

4. Sampled by: (Print) MARIAN BERNAL

5. Sampled by: (Signature) Marian Bernal

6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	11. Leachate	11. Soil	11. Sludge	11. Other	12. No. of Containers	15. Analyses Requested: Metals Fe, Hg, Na	8260 App. I	8011 App. I						16. REMARK	For Lab Use Only LAB SAMPLE NO.
												13. Preservatives	N	H	C							
												14. Containers	P	V	V							
1.	AC59358	4MW-7	10-25	1002		✓	GW					6	✓	✓	✓							
2.	AC59359	2MW-7	10-25-17	1025			MB				✓	0								Dry Well	#AC59362	
3.	AC59359	4MW-9	10-25-17	1121		✓	GW					6	✓	✓	✓							
4.	AC59363	2MW-9	10-25-17	1138							✓	0									Dry Well	
5.	AC59364	2MW-10	10-25-17	1142							✓	0									Dry Well	
6.	AC59360	4MW-8	10-25-17	1214		✓	GW					6	✓	✓	✓							
7.	AC59361	4MW-2	10-25-17	1402		✓	GW					6	✓	✓	✓						Sent to	
8.																					PACE	
9.																					10/27/17	
10.																						

* MB

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian Bernal	10-25-17	1502	[illegible]	10/25/17	15:02
2. [illegible]	10/27/17	1413	[illegible]	102717	1413
3. [illegible]	102717	1510	MMC Allen / PACE	10271)	1510
4. MMC Allen / PACE	10271)	2000	FLX	10271)	2000

[illegible] PACE 10/27/17 2145 1.7° T301

T203 1.3

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt (SCUR)

WO#: 35344666

PM: VEG Due Date: 11/13/17

CLIENT: PASCOU

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents: _____

Label: _____

Deliver: _____

pH: _____

Thermometer Used: T301 Date: 10/27/17 Time: 2245 Initials: A

State of Origin: _____

Cooler #1 Temp.°C	2.8 (Visual)	+0.1 (Correction Factor)	0.9 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	1.6 (Visual)	+0.1 (Correction Factor)	1.7 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐ Yes ☐ No ☑ N/A	
Headspace in VOA Vials? (>6mm):	☑ Yes ☐ No ☐ N/A	See comments
Trip Blank Present:	☐ Yes ☐ No ☑ N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): 4MW-9 1/3 vials arrived empty

Project Manager Review: _____ Date: _____

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 14, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GWM
Pace Project No.: 35344667

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project:	Resource Recovery GWM
Pace Project No.:	35344667

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Resource Recovery GWM
Pace Project No.: 35344667

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35344667001	**4MW-11D**	Water	10/26/17 11:39	10/27/17 21:45
35344667002	**4MW-12D**	Water	10/26/17 12:36	10/27/17 21:45
35344667003	**4MW-13D**	Water	10/26/17 13:41	10/27/17 21:45

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SAMPLE ANALYTE COUNT

Project: Resource Recovery GWM
Pace Project No.: 35344667

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35344667001	**4MW-11D**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35344667002	**4MW-12D**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35344667003	**4MW-13D**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344667

Sample: 4MW-11D **Lab ID: 35344667001** Collected: 10/26/17 11:39 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/01/17 15:56	11/03/17 12:26	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/01/17 15:56	11/03/17 12:26	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:55	7440-38-2	
Barium	**8.1 I**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:55	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/03/17 17:39	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:55	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:55	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:55	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:55	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	10/30/17 14:18	11/05/17 22:55	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:55	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:55	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	10/30/17 14:18	11/05/17 22:55	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:55	7440-22-4	
Sodium	**7.3**	mg/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:55	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:55	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	10/30/17 14:18	11/05/17 22:55	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/03/17 11:40	11/07/17 10:09	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/07/17 11:06	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:06	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/07/17 11:06	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/07/17 11:06	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/07/17 11:06	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:06	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:06	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/07/17 11:06	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	67-66-3	
Chloromethane	**0.84 I**	ug/L	1.0	0.62	1		11/07/17 11:06	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/07/17 11:06	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:06	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344667

Sample: 4MW-11D **Lab ID: 35344667001** Collected: 10/26/17 11:39 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/07/17 11:06	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/07/17 11:06	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:06	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/07/17 11:06	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/07/17 11:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:06	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/07/17 11:06	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/07/17 11:06	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/07/17 11:06	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:06	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/07/17 11:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		11/07/17 11:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		11/07/17 11:06	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		11/07/17 11:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344667

Sample: 4MW-12D **Lab ID: 35344667002** Collected: 10/26/17 12:36 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/01/17 15:56	11/03/17 12:55	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0095	0.0072	1	11/01/17 15:56	11/03/17 12:55	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:59	7440-38-2	
Barium	**8.0 I**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:59	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/03/17 17:44	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:59	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:59	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:59	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:59	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	10/30/17 14:18	11/05/17 22:59	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:59	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:59	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	10/30/17 14:18	11/05/17 22:59	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 22:59	7440-22-4	
Sodium	**8.2**	mg/L	1.0	0.50	1	10/30/17 14:18	11/05/17 22:59	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 22:59	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	10/30/17 14:18	11/05/17 22:59	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/03/17 11:40	11/07/17 10:11	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/07/17 11:54	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:54	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/07/17 11:54	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/07/17 11:54	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/07/17 11:54	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:54	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:54	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/07/17 11:54	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/07/17 11:54	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/07/17 11:54	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:54	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344667

Sample: 4MW-12D **Lab ID: 35344667002** Collected: 10/26/17 12:36 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/07/17 11:54	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/07/17 11:54	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:54	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/07/17 11:54	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/07/17 11:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 11:54	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/07/17 11:54	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/07/17 11:54	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/07/17 11:54	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 11:54	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/07/17 11:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		11/07/17 11:54	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		11/07/17 11:54	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		11/07/17 11:54	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344667

Sample: 4MW-13D **Lab ID: 35344667003** Collected: 10/26/17 13:41 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/01/17 15:56	11/03/17 13:10	96-12-8	
1,2-Dibromoethane (EDB)	**0.0071 U**	ug/L	0.0095	0.0071	1	11/01/17 15:56	11/03/17 13:10	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 23:03	7440-38-2	
Barium	**8.8 I**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 23:03	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/03/17 17:49	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	10/30/17 14:18	11/05/17 23:03	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 23:03	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 23:03	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 23:03	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	10/30/17 14:18	11/05/17 23:03	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 23:03	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 23:03	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	10/30/17 14:18	11/05/17 23:03	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	10/30/17 14:18	11/05/17 23:03	7440-22-4	
Sodium	**9.6**	mg/L	1.0	0.50	1	10/30/17 14:18	11/05/17 23:03	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	10/30/17 14:18	11/05/17 23:03	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	10/30/17 14:18	11/05/17 23:03	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/03/17 11:40	11/07/17 10:13	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/07/17 12:18	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 12:18	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/07/17 12:18	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/07/17 12:18	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/07/17 12:18	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 12:18	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 12:18	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/07/17 12:18	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/07/17 12:18	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/07/17 12:18	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 12:18	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35344667

Sample: 4MW-13D **Lab ID: 35344667003** Collected: 10/26/17 13:41 Received: 10/27/17 21:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/07/17 12:18	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/07/17 12:18	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 12:18	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/07/17 12:18	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/07/17 12:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/07/17 12:18	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/07/17 12:18	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/07/17 12:18	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/07/17 12:18	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/07/17 12:18	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/07/17 12:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		11/07/17 12:18	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		11/07/17 12:18	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		11/07/17 12:18	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

QC Batch: 403060 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35344667001, 35344667002, 35344667003

METHOD BLANK: 2200415 | Matrix: Water
Associated Lab Samples: 35344667001, 35344667002, 35344667003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/07/17 09:45	

LABORATORY CONTROL SAMPLE: 2200416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	1.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2200417 2200418

Parameter	Units	35344666002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.9	1.9	96	96	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

QC Batch: 401984 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35344667001, 35344667002, 35344667003

METHOD BLANK: 2194143 | Matrix: Water
Associated Lab Samples: 35344667001, 35344667002, 35344667003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Barium	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Beryllium	ug/L	0.50 U	1.0	0.50	11/03/17 10:59	
Cadmium	ug/L	0.50 U	1.0	0.50	11/03/17 10:59	
Chromium	ug/L	2.5 U	5.0	2.5	11/03/17 10:59	
Cobalt	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Copper	ug/L	2.5 U	5.0	2.5	11/03/17 10:59	
Iron	ug/L	20.0 U	40.0	20.0	11/03/17 10:59	
Lead	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Nickel	ug/L	2.5 U	5.0	2.5	11/03/17 10:59	
Selenium	ug/L	7.5 U	15.0	7.5	11/03/17 10:59	
Silver	ug/L	2.5 U	5.0	2.5	11/03/17 10:59	
Sodium	mg/L	0.50 U	1.0	0.50	11/03/17 10:59	
Vanadium	ug/L	5.0 U	10.0	5.0	11/03/17 10:59	
Zinc	ug/L	10.0 U	20.0	10.0	11/03/17 10:59	

LABORATORY CONTROL SAMPLE: 2194144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	254	102	80-120	
Barium	ug/L	250	273	109	80-120	
Beryllium	ug/L	25	27.1	109	80-120	
Cadmium	ug/L	25	26.3	105	80-120	
Chromium	ug/L	250	261	105	80-120	
Cobalt	ug/L	250	263	105	80-120	
Copper	ug/L	250	266	106	80-120	
Iron	ug/L	2500	2750	110	80-120	
Lead	ug/L	250	260	104	80-120	
Nickel	ug/L	250	261	104	80-120	
Selenium	ug/L	250	264	105	80-120	
Silver	ug/L	25	28.1	112	80-120	
Sodium	mg/L	12.5	12.6	101	80-120	
Vanadium	ug/L	250	266	106	80-120	
Zinc	ug/L	1250	1300	104	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2194145 2194146

Parameter	Units	35344666001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	5.0 U	250	250	252	246	101	98	75-125	3	20	
Barium	ug/L	10.0	250	250	285	280	110	108	75-125	1	20	
Beryllium	ug/L	0.50 U	25	25	27.8	27.3	111	109	75-125	2	20	
Cadmium	ug/L	0.50 U	25	25	26.5	25.8	106	103	75-125	3	20	
Chromium	ug/L	2.5 U	250	250	264	260	105	104	75-125	2	20	
Cobalt	ug/L	5.0 U	250	250	261	255	105	102	75-125	2	20	
Copper	ug/L	2.5 U	250	250	272	267	108	106	75-125	2	20	
Iron	ug/L	20.0 U	2500	2500	2760	2690	110	108	75-125	2	20	
Lead	ug/L	5.0 U	250	250	259	255	104	102	75-125	2	20	
Nickel	ug/L	2.5 U	250	250	262	252	104	100	75-125	4	20	
Selenium	ug/L	7.5 U	250	250	266	262	107	105	75-125	2	20	
Silver	ug/L	2.5 U	25	25	28.8	28.9	115	115	75-125	0	20	
Sodium	mg/L	4.5	12.5	12.5	17.9	17.5	107	104	75-125	2	20	
Vanadium	ug/L	5.0 U	250	250	273	270	109	107	75-125	1	20	
Zinc	ug/L	10.0 U	1250	1250	1300	1260	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

QC Batch: 403696 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35344667001, 35344667002, 35344667003

METHOD BLANK: 2203794 | Matrix: Water
Associated Lab Samples: 35344667001, 35344667002, 35344667003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/07/17 09:29	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/07/17 09:29	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/07/17 09:29	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/07/17 09:29	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/07/17 09:29	
Acetone	ug/L	10.0 U	20.0	10.0	11/07/17 09:29	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/07/17 09:29	
Benzene	ug/L	0.10 U	1.0	0.10	11/07/17 09:29	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/07/17 09:29	
Bromoform	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/07/17 09:29	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/07/17 09:29	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/07/17 09:29	
Chloroform	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/07/17 09:29	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/07/17 09:29	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/07/17 09:29	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/07/17 09:29	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/07/17 09:29	
Styrene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Toluene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/07/17 09:29	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/07/17 09:29	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

METHOD BLANK: 2203794 Matrix: Water
Associated Lab Samples: 35344667001, 35344667002, 35344667003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/07/17 09:29	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/07/17 09:29	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/07/17 09:29	
1,2-Dichloroethane-d4 (S)	%	105	75-135		11/07/17 09:29	
4-Bromofluorobenzene (S)	%	97	89-111		11/07/17 09:29	
Toluene-d8 (S)	%	101	89-112		11/07/17 09:29	

LABORATORY CONTROL SAMPLE: 2203795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.2	91	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	70-130	
1,1,2-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	20	19.0	95	70-130	
1,1-Dichloroethene	ug/L	20	17.7	88	65-134	
1,2,3-Trichloropropane	ug/L	20	19.6	98	65-135	
1,2-Dichlorobenzene	ug/L	20	18.7	94	70-130	
1,2-Dichloroethane	ug/L	20	18.9	94	70-130	
1,2-Dichloropropane	ug/L	20	18.3	92	70-130	
1,4-Dichlorobenzene	ug/L	20	17.9	89	70-130	
2-Butanone (MEK)	ug/L	40	41.9	105	61-129	
2-Hexanone	ug/L	40	44.0	110	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	44.7	112	70-130	
Acetone	ug/L	40	42.6	107	44-155	
Acrylonitrile	ug/L	200	196	98	59-138	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	19.6	98	70-130	
Bromodichloromethane	ug/L	20	17.9	89	70-130	
Bromoform	ug/L	20	19.2	96	62-129	
Bromomethane	ug/L	20	26.4	132	10-179	
Carbon disulfide	ug/L	20	23.6	118	40-156	
Carbon tetrachloride	ug/L	20	17.9	89	66-127	
Chlorobenzene	ug/L	20	18.0	90	70-130	
Chloroethane	ug/L	20	22.5	113	57-142	
Chloroform	ug/L	20	17.8	89	70-130	
Chloromethane	ug/L	20	24.2	121	45-150	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	70-130	
Dibromochloromethane	ug/L	20	19.0	95	70-130	
Dibromomethane	ug/L	20	18.6	93	70-130	
Ethylbenzene	ug/L	20	18.0	90	70-130	
Iodomethane	ug/L	40	45.8	115	21-150	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

LABORATORY CONTROL SAMPLE: 2203795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.3	96	65-127	
Styrene	ug/L	20	20.2	101	70-130	
Tetrachloroethene	ug/L	20	19.4	97	48-155	
Toluene	ug/L	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	68-126	
trans-1,3-Dichloropropene	ug/L	20	18.8	94	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	21.7	108	46-138	
Trichloroethene	ug/L	20	18.4	92	69-129	
Trichlorofluoromethane	ug/L	20	19.5	97	60-144	
Vinyl acetate	ug/L	20	21.0	105	70-130	
Vinyl chloride	ug/L	20	21.3	106	67-136	
Xylene (Total)	ug/L	60	58.1	97	70-130	
1,2-Dichloroethane-d4 (S)	%			101	75-135	
4-Bromofluorobenzene (S)	%			99	89-111	
Toluene-d8 (S)	%			100	89-112	

MATRIX SPIKE SAMPLE: 2205097

Parameter	Units	35344667002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	14.7	74	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	16.0	80	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	15.6	78	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	14.8	74	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	15.8	79	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	15.6	78	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	14.9	75	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	14.9	74	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	15.5	76	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	15.0	75	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	14.2	71	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	39.4	98	61-129	
2-Hexanone	ug/L	5.0 U	40	35.7	89	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.9	95	70-130	
Acetone	ug/L	10.0 U	40	40.3	86	44-155	
Acrylonitrile	ug/L	5.0 U	200	158	79	59-138	
Benzene	ug/L	0.10 U	20	15.5	77	70-130	
Bromochloromethane	ug/L	0.50 U	20	16.3	81	70-130	
Bromodichloromethane	ug/L	0.27 U	20	14.6	73	70-130	
Bromoform	ug/L	0.50 U	20	15.0	75	62-129	
Bromomethane	ug/L	0.50 U	20	17.7	88	10-179	
Carbon disulfide	ug/L	5.0 U	20	22.2	110	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	15.2	76	66-127	
Chlorobenzene	ug/L	0.50 U	20	14.8	74	70-130	
Chloroethane	ug/L	0.50 U	20	22.4	112	57-142	
Chloroform	ug/L	0.50 U	20	15.2	76	70-130	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

MATRIX SPIKE SAMPLE: 2205097

Parameter	Units	35344667002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	23.5	115	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	14.8	74	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.0	70	70-130	
Dibromochloromethane	ug/L	0.26 U	20	14.5	73	70-130	
Dibromomethane	ug/L	0.50 U	20	15.3	77	70-130	
Ethylbenzene	ug/L	0.50 U	20	14.8	74	70-130	
Iodomethane	ug/L	0.50 U	40	39.2	98	21-150	
Methylene Chloride	ug/L	2.5 U	20	15.7	77	65-127	
Styrene	ug/L	0.50 U	20	14.8	74	70-130	
Tetrachloroethene	ug/L	0.50 U	20	15.7	79	48-155	
Toluene	ug/L	0.50 U	20	15.0	75	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	16.0	80	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.1	71	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	17.2	86	46-138	
Trichloroethene	ug/L	0.50 U	20	15.4	77	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	21.3	107	60-144	
Vinyl acetate	ug/L	1.0 U	20	15.6	78	70-130	
Vinyl chloride	ug/L	0.50 U	20	20.5	102	67-136	
Xylene (Total)	ug/L	1.5 U	60	46.3	77	70-130	
1,2-Dichloroethane-d4 (S)	%				103	75-135	
4-Bromofluorobenzene (S)	%				98	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2205096

Parameter	Units	35344667001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

SAMPLE DUPLICATE: 2205096

Parameter	Units	35344667001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.84 I	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	104	106	2	40	
4-Bromofluorobenzene (S)	%	97	97	0	40	
Toluene-d8 (S)	%	101	101	1	40	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35344667

QC Batch: 402307 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35344667001, 35344667002, 35344667003

METHOD BLANK: 2195839 | Matrix: Water
Associated Lab Samples: 35344667001, 35344667002, 35344667003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/03/17 08:33	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/03/17 08:33	

LABORATORY CONTROL SAMPLE: 2195840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.30	119	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.28	111	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2196640 2196641

Parameter	Units	35344625013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.76	0.75	173	171	60-140	1	40	J(M1)
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.65	0.68	147	154	60-140	4	40	J(M1)

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REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery GWM
Pace Project No.: 35344667

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GWM
Pace Project No.: 35344667

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35344667001	**4MW-11D**	EPA 8011	402307	EPA 8011	402800
35344667002	**4MW-12D**	EPA 8011	402307	EPA 8011	402800
35344667003	**4MW-13D**	EPA 8011	402307	EPA 8011	402800
35344667001	**4MW-11D**	EPA 3010	401984	EPA 6010	402040
35344667002	**4MW-12D**	EPA 3010	401984	EPA 6010	402040
35344667003	**4MW-13D**	EPA 3010	401984	EPA 6010	402040
35344667001	**4MW-11D**	EPA 7470	403060	EPA 7470	403216
35344667002	**4MW-12D**	EPA 7470	403060	EPA 7470	403216
35344667003	**4MW-13D**	EPA 7470	403060	EPA 7470	403216
35344667001	**4MW-11D**	EPA 8260	403696		
35344667002	**4MW-12D**	EPA 8260	403696		
35344667003	**4MW-13D**	EPA 8260	403696		

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Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY RECORD

FOR LAB USE ONLY
Temp. of Contents: _____ ° C (or Received on Ice, ROI)
Condition of Contents: _____

FOR LAB USE ONLY
LOG IN NO.

WO#: 35344667
35344667

1. Client: (Company or Individual) PASCO Co. ENV. LAB
Address:
City: State Zip Code

2. Report to: (if different from above) Candia Mulhern
Address:
City State Zip Code

3. Client Project Name: Resource Recovery GWM
4. Sampled by: (Print) MARIAN BERNAL
5. Sampled by: (Signature) Marian Bernal
6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	12. No. of Containers	15. Analyses Requested: Metals Fe, Mn, Na	5260	5011 App I						16. REMARK	For Lab Use Only LAB SAMPLE NO.
													13. Preservatives	N	H	C						
													14. Containers	P	V	V						
1.	AC59313	4MW-11D	10-26-17	1139		✓	GW					6	✓	✓	✓							
2.	AC59414	4MW-12D	10-26-17	1236		✓	GW					6	✓	✓	✓							
3.	///	2MW-13D	10-26-17	Not Sampled. Did not purge												✓	✓	✓	✓	✓		
4.	AC59415	4MW-13D	10-26-17	1341		✓	GW					6	✓	✓	✓							
5.																					Sent to	
6.																					PACE	
7.																					10/27/17	
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian A Bernal	10-26-17	1537	[illegible]	10/26/17	15:37
2. [illegible]	10/27/17	1413	[illegible] PACE	102717	1413
3. [illegible] PACE	102717	1510	MMC Pace / PACE	102717	1510
4. MMC Pace / PACE	102717	2000	FLY	102717	2000

[illegible] PACE 10/27/17 2145

T203
1.3

PC 4/15/12
1.70 T301

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35344667

Project Manager: PM: VEG **Due Date:** 11/13/17

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: _____
pH: _____

Thermometer Used: T301 Date: 10/27/17 Time: 2245 Initials: A

State of Origin: _____

Cooler #1 Temp.°C	0.8 (Visual)	+0.1 (Correction Factor)	0.9 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	1.6 (Visual)	+0.1 (Correction Factor)	1.7 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☑ Yes ☐ No ☐ N/A	Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☐ Yes ☐ No ☑ N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 21, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GMW
Pace Project No.: 35345326

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project:	Resource Recovery GMW
Pace Project No.:	35345326

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: Resource Recovery GMW
Pace Project No.: 35345326

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35345326001	**AC59525**	Water	10/30/17 11:23	11/01/17 14:15
35345326002	**AC59526**	Water	10/30/17 13:10	11/01/17 14:15
35345326003	**AC59527**	Water	10/30/17 16:02	11/01/17 14:15
35345326004	**AC59528**	Water	10/30/17 16:18	11/01/17 14:15

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SAMPLE ANALYTE COUNT

Project: Resource Recovery GMW
Pace Project No.: 35345326

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35345326001	**AC59525**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	CRT	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	GAW	47	PASI-C
35345326002	**AC59526**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	CRT	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	GAW	47	PASI-C
35345326003	**AC59527**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	CRT	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	GAW	47	PASI-C
35345326004	**AC59528**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	CRT	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	GAW	47	PASI-C

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ANALYTICAL RESULTS

Project: Resource Recovery GMW
Pace Project No.: 35345326

Sample: AC59525 **Lab ID: 35345326001** Collected: 10/30/17 11:23 Received: 11/01/17 14:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/09/17 17:40	11/16/17 17:21	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/09/17 17:40	11/16/17 17:21	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:01	7440-38-2	
Barium	**17.8**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:01	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:43	11/08/17 04:33	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:43	11/08/17 18:01	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:01	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:01	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 04:33	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/02/17 14:43	11/08/17 18:01	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:01	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:01	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/02/17 14:43	11/08/17 18:01	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:01	7440-22-4	
Sodium	**27.8**	mg/L	1.0	0.50	1	11/02/17 14:43	11/08/17 18:01	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:01	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/02/17 14:43	11/08/17 18:01	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:46	11/03/17 19:18	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:46	11/03/17 19:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/07/17 16:06	11/08/17 09:52	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	25.0	10.0	1		11/13/17 00:00	67-64-1	
Acrylonitrile	**11.5 U**	ug/L	100	11.5	1		11/13/17 00:00	107-13-1	
Benzene	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:00	71-43-2	
Bromochloromethane	**2.2 U**	ug/L	5.0	2.2	1		11/13/17 00:00	74-97-5	
Bromodichloromethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:00	75-27-4	
Bromoform	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:00	75-25-2	
Bromomethane	**2.5 U**	ug/L	10.0	2.5	1		11/13/17 00:00	74-83-9	
2-Butanone (MEK)	**4.9 U**	ug/L	10.0	4.9	1		11/13/17 00:00	78-93-3	
Carbon disulfide	**1.7 U**	ug/L	10.0	1.7	1		11/13/17 00:00	75-15-0	
Carbon tetrachloride	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:00	56-23-5	
Chlorobenzene	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:00	108-90-7	
Chloroethane	**1.6 U**	ug/L	10.0	1.6	1		11/13/17 00:00	75-00-3	
Chloroform	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:00	67-66-3	
Chloromethane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:00	74-87-3	
Dibromochloromethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:00	124-48-1	
Dibromomethane	**2.0 U**	ug/L	5.0	2.0	1		11/13/17 00:00	74-95-3	
1,2-Dichlorobenzene	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:00	95-50-1	

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(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery GMW
Pace Project No.: 35345326

Sample: AC59525 **Lab ID: 35345326001** Collected: 10/30/17 11:23 Received: 11/01/17 14:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	**2.0 U**	ug/L	5.0	2.0	1		11/13/17 00:00	110-57-6	
1,1-Dichloroethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:00	75-34-3	
1,2-Dichloroethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:00	107-06-2	
1,1-Dichloroethene	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:00	75-35-4	
cis-1,2-Dichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:00	156-59-2	
trans-1,2-Dichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:00	156-60-5	
1,2-Dichloropropane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:00	78-87-5	
cis-1,3-Dichloropropene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:00	10061-01-5	
trans-1,3-Dichloropropene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:00	10061-02-6	
Ethylbenzene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:00	100-41-4	
2-Hexanone	**3.8 U**	ug/L	10.0	3.8	1		11/13/17 00:00	591-78-6	
Iodomethane	**3.1 U**	ug/L	10.0	3.1	1		11/13/17 00:00	74-88-4	
Methylene Chloride	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3.6 U**	ug/L	10.0	3.6	1		11/13/17 00:00	108-10-1	
Styrene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:00	100-42-5	
1,1,1,2-Tetrachloroethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:00	630-20-6	
1,1,2,2-Tetrachloroethane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:00	79-34-5	
Tetrachloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:00	127-18-4	
Toluene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:00	108-88-3	
1,1,1-Trichloroethane	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:00	71-55-6	
1,1,2-Trichloroethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:00	79-00-5	
Trichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:00	79-01-6	
Trichlorofluoromethane	**1.7 U**	ug/L	10.0	1.7	1		11/13/17 00:00	75-69-4	
1,2,3-Trichloropropane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:00	96-18-4	
Vinyl acetate	**2.3 U**	ug/L	10.0	2.3	1		11/13/17 00:00	108-05-4	
Vinyl chloride	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:00	75-01-4	
Xylene (Total)	**5.0 U**	ug/L	5.0	5.0	1		11/13/17 00:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/13/17 00:00	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		11/13/17 00:00	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/13/17 00:00	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GMW
Pace Project No.: 35345326

Sample: AC59526 **Lab ID: 35345326002** Collected: 10/30/17 13:10 Received: 11/01/17 14:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/09/17 17:40	11/16/17 17:36	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/09/17 17:40	11/16/17 17:36	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:05	7440-38-2	
Barium	**26.0**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:05	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:43	11/08/17 04:38	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:43	11/08/17 18:05	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:05	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:05	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 04:38	7440-50-8	
Iron	**28.0 I**	ug/L	40.0	20.0	1	11/02/17 14:43	11/08/17 18:05	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:05	7439-92-1	
Nickel	**2.7 I**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:05	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/02/17 14:43	11/08/17 18:05	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:05	7440-22-4	
Sodium	**40.5**	mg/L	1.0	0.50	1	11/02/17 14:43	11/08/17 18:05	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:05	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/02/17 14:43	11/08/17 18:05	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:46	11/03/17 19:21	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:46	11/03/17 19:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/07/17 16:06	11/08/17 09:54	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	25.0	10.0	1		11/13/17 00:17	67-64-1	
Acrylonitrile	**11.5 U**	ug/L	100	11.5	1		11/13/17 00:17	107-13-1	
Benzene	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:17	71-43-2	
Bromochloromethane	**2.2 U**	ug/L	5.0	2.2	1		11/13/17 00:17	74-97-5	
Bromodichloromethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:17	75-27-4	
Bromoform	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:17	75-25-2	
Bromomethane	**2.5 U**	ug/L	10.0	2.5	1		11/13/17 00:17	74-83-9	
2-Butanone (MEK)	**4.9 U**	ug/L	10.0	4.9	1		11/13/17 00:17	78-93-3	
Carbon disulfide	**1.7 U**	ug/L	10.0	1.7	1		11/13/17 00:17	75-15-0	
Carbon tetrachloride	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:17	56-23-5	
Chlorobenzene	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:17	108-90-7	
Chloroethane	**1.6 U**	ug/L	10.0	1.6	1		11/13/17 00:17	75-00-3	
Chloroform	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:17	67-66-3	
Chloromethane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:17	74-87-3	
Dibromochloromethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:17	124-48-1	
Dibromomethane	**2.0 U**	ug/L	5.0	2.0	1		11/13/17 00:17	74-95-3	
1,2-Dichlorobenzene	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:17	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GMW
Pace Project No.: 35345326

Sample: AC59526 **Lab ID: 35345326002** Collected: 10/30/17 13:10 Received: 11/01/17 14:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	**2.0 U**	ug/L	5.0	2.0	1		11/13/17 00:17	110-57-6	
1,1-Dichloroethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:17	75-34-3	
1,2-Dichloroethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:17	107-06-2	
1,1-Dichloroethene	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:17	75-35-4	
cis-1,2-Dichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:17	156-59-2	
trans-1,2-Dichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:17	156-60-5	
1,2-Dichloropropane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:17	78-87-5	
cis-1,3-Dichloropropene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:17	10061-01-5	
trans-1,3-Dichloropropene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:17	10061-02-6	
Ethylbenzene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:17	100-41-4	
2-Hexanone	**3.8 U**	ug/L	10.0	3.8	1		11/13/17 00:17	591-78-6	
Iodomethane	**3.1 U**	ug/L	10.0	3.1	1		11/13/17 00:17	74-88-4	
Methylene Chloride	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3.6 U**	ug/L	10.0	3.6	1		11/13/17 00:17	108-10-1	
Styrene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:17	100-42-5	
1,1,1,2-Tetrachloroethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:17	630-20-6	
1,1,2,2-Tetrachloroethane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:17	79-34-5	
Tetrachloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:17	127-18-4	
Toluene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:17	108-88-3	
1,1,1-Trichloroethane	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:17	71-55-6	
1,1,2-Trichloroethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:17	79-00-5	
Trichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:17	79-01-6	
Trichlorofluoromethane	**1.7 U**	ug/L	10.0	1.7	1		11/13/17 00:17	75-69-4	
1,2,3-Trichloropropane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:17	96-18-4	
Vinyl acetate	**2.3 U**	ug/L	10.0	2.3	1		11/13/17 00:17	108-05-4	
Vinyl chloride	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:17	75-01-4	
Xylene (Total)	**5.0 U**	ug/L	5.0	5.0	1		11/13/17 00:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/13/17 00:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/13/17 00:17	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/13/17 00:17	2037-26-5	

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8 East Tower Circle
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(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery GMW
Pace Project No.: 35345326

Sample: AC59527 **Lab ID: 35345326003** Collected: 10/30/17 16:02 Received: 11/01/17 14:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/09/17 17:40	11/16/17 17:50	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/09/17 17:40	11/16/17 17:50	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:09	7440-38-2	
Barium	**29.9**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:09	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:43	11/08/17 04:43	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:43	11/08/17 18:09	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:09	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:09	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 04:43	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/02/17 14:43	11/08/17 18:09	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:09	7439-92-1	
Nickel	**3.4 I**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:09	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/02/17 14:43	11/08/17 18:09	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:09	7440-22-4	
Sodium	**50.3**	mg/L	1.0	0.50	1	11/02/17 14:43	11/08/17 18:09	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:09	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/02/17 14:43	11/08/17 18:09	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:46	11/03/17 19:23	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:46	11/03/17 19:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/07/17 16:06	11/08/17 09:56	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	25.0	10.0	1		11/13/17 00:35	67-64-1	
Acrylonitrile	**11.5 U**	ug/L	100	11.5	1		11/13/17 00:35	107-13-1	
Benzene	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:35	71-43-2	
Bromochloromethane	**2.2 U**	ug/L	5.0	2.2	1		11/13/17 00:35	74-97-5	
Bromodichloromethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:35	75-27-4	
Bromoform	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:35	75-25-2	
Bromomethane	**2.5 U**	ug/L	10.0	2.5	1		11/13/17 00:35	74-83-9	
2-Butanone (MEK)	**4.9 U**	ug/L	10.0	4.9	1		11/13/17 00:35	78-93-3	
Carbon disulfide	**1.7 U**	ug/L	10.0	1.7	1		11/13/17 00:35	75-15-0	
Carbon tetrachloride	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:35	56-23-5	
Chlorobenzene	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:35	108-90-7	
Chloroethane	**1.6 U**	ug/L	10.0	1.6	1		11/13/17 00:35	75-00-3	
Chloroform	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:35	67-66-3	
Chloromethane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:35	74-87-3	
Dibromochloromethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:35	124-48-1	
Dibromomethane	**2.0 U**	ug/L	5.0	2.0	1		11/13/17 00:35	74-95-3	
1,2-Dichlorobenzene	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:35	95-50-1	

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8 East Tower Circle
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ANALYTICAL RESULTS

Project: Resource Recovery GMW
Pace Project No.: 35345326

Sample: AC59527 **Lab ID: 35345326003** Collected: 10/30/17 16:02 Received: 11/01/17 14:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	**2.0 U**	ug/L	5.0	2.0	1		11/13/17 00:35	110-57-6	
1,1-Dichloroethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:35	75-34-3	
1,2-Dichloroethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:35	107-06-2	
1,1-Dichloroethene	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:35	75-35-4	
cis-1,2-Dichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:35	156-59-2	
trans-1,2-Dichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:35	156-60-5	
1,2-Dichloropropane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:35	78-87-5	
cis-1,3-Dichloropropene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:35	10061-01-5	
trans-1,3-Dichloropropene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:35	10061-02-6	
Ethylbenzene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:35	100-41-4	
2-Hexanone	**3.8 U**	ug/L	10.0	3.8	1		11/13/17 00:35	591-78-6	
Iodomethane	**3.1 U**	ug/L	10.0	3.1	1		11/13/17 00:35	74-88-4	
Methylene Chloride	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3.6 U**	ug/L	10.0	3.6	1		11/13/17 00:35	108-10-1	
Styrene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:35	100-42-5	
1,1,1,2-Tetrachloroethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:35	630-20-6	
1,1,2,2-Tetrachloroethane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:35	79-34-5	
Tetrachloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:35	127-18-4	
Toluene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:35	108-88-3	
1,1,1-Trichloroethane	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:35	71-55-6	
1,1,2-Trichloroethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:35	79-00-5	
Trichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:35	79-01-6	
Trichlorofluoromethane	**1.7 U**	ug/L	10.0	1.7	1		11/13/17 00:35	75-69-4	
1,2,3-Trichloropropane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:35	96-18-4	
Vinyl acetate	**2.3 U**	ug/L	10.0	2.3	1		11/13/17 00:35	108-05-4	
Vinyl chloride	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:35	75-01-4	
Xylene (Total)	**5.0 U**	ug/L	5.0	5.0	1		11/13/17 00:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/13/17 00:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/13/17 00:35	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		11/13/17 00:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GMW
Pace Project No.: 35345326

Sample: AC59528 **Lab ID: 35345326004** Collected: 10/30/17 16:18 Received: 11/01/17 14:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/09/17 17:40	11/16/17 18:05	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/09/17 17:40	11/16/17 18:05	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:13	7440-38-2	
Barium	**10.7**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:13	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:43	11/08/17 04:49	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:43	11/08/17 18:13	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:13	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:13	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 04:49	7440-50-8	
Iron	**67.8**	ug/L	40.0	20.0	1	11/02/17 14:43	11/08/17 18:13	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:13	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:13	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/02/17 14:43	11/08/17 18:13	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/02/17 14:43	11/08/17 18:13	7440-22-4	
Sodium	**3.0**	mg/L	1.0	0.50	1	11/02/17 14:43	11/08/17 18:13	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/02/17 14:43	11/08/17 18:13	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/02/17 14:43	11/08/17 18:13	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:46	11/03/17 19:31	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/02/17 14:46	11/03/17 19:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/07/17 16:06	11/08/17 09:58	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	25.0	10.0	1		11/13/17 00:53	67-64-1	
Acrylonitrile	**11.5 U**	ug/L	100	11.5	1		11/13/17 00:53	107-13-1	
Benzene	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:53	71-43-2	
Bromochloromethane	**2.2 U**	ug/L	5.0	2.2	1		11/13/17 00:53	74-97-5	
Bromodichloromethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:53	75-27-4	
Bromoform	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:53	75-25-2	
Bromomethane	**2.5 U**	ug/L	10.0	2.5	1		11/13/17 00:53	74-83-9	
2-Butanone (MEK)	**4.9 U**	ug/L	10.0	4.9	1		11/13/17 00:53	78-93-3	
Carbon disulfide	**1.7 U**	ug/L	10.0	1.7	1		11/13/17 00:53	75-15-0	
Carbon tetrachloride	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:53	56-23-5	
Chlorobenzene	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:53	108-90-7	
Chloroethane	**1.6 U**	ug/L	10.0	1.6	1		11/13/17 00:53	75-00-3	
Chloroform	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:53	67-66-3	
Chloromethane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:53	74-87-3	
Dibromochloromethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:53	124-48-1	
Dibromomethane	**2.0 U**	ug/L	5.0	2.0	1		11/13/17 00:53	74-95-3	
1,2-Dichlorobenzene	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:53	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GMW
Pace Project No.: 35345326

Sample: AC59528 **Lab ID: 35345326004** Collected: 10/30/17 16:18 Received: 11/01/17 14:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	**2.0 U**	ug/L	5.0	2.0	1		11/13/17 00:53	110-57-6	
1,1-Dichloroethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:53	75-34-3	
1,2-Dichloroethane	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:53	107-06-2	
1,1-Dichloroethene	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:53	75-35-4	
cis-1,2-Dichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:53	156-59-2	
trans-1,2-Dichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:53	156-60-5	
1,2-Dichloropropane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:53	78-87-5	
cis-1,3-Dichloropropene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:53	10061-01-5	
trans-1,3-Dichloropropene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:53	10061-02-6	
Ethylbenzene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:53	100-41-4	
2-Hexanone	**3.8 U**	ug/L	10.0	3.8	1		11/13/17 00:53	591-78-6	
Iodomethane	**3.1 U**	ug/L	10.0	3.1	1		11/13/17 00:53	74-88-4	
Methylene Chloride	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3.6 U**	ug/L	10.0	3.6	1		11/13/17 00:53	108-10-1	
Styrene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:53	100-42-5	
1,1,1,2-Tetrachloroethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:53	630-20-6	
1,1,2,2-Tetrachloroethane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:53	79-34-5	
Tetrachloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:53	127-18-4	
Toluene	**1.6 U**	ug/L	5.0	1.6	1		11/13/17 00:53	108-88-3	
1,1,1-Trichloroethane	**1.9 U**	ug/L	5.0	1.9	1		11/13/17 00:53	71-55-6	
1,1,2-Trichloroethane	**1.7 U**	ug/L	5.0	1.7	1		11/13/17 00:53	79-00-5	
Trichloroethene	**1.8 U**	ug/L	5.0	1.8	1		11/13/17 00:53	79-01-6	
Trichlorofluoromethane	**1.7 U**	ug/L	10.0	1.7	1		11/13/17 00:53	75-69-4	
1,2,3-Trichloropropane	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:53	96-18-4	
Vinyl acetate	**2.3 U**	ug/L	10.0	2.3	1		11/13/17 00:53	108-05-4	
Vinyl chloride	**1.5 U**	ug/L	5.0	1.5	1		11/13/17 00:53	75-01-4	
Xylene (Total)	**5.0 U**	ug/L	5.0	5.0	1		11/13/17 00:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/13/17 00:53	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/13/17 00:53	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/13/17 00:53	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

QC Batch: 403775 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

METHOD BLANK: 2204123 Matrix: Water
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/08/17 09:20	

LABORATORY CONTROL SAMPLE: 2204124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	1.9	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2204125 2204126

Parameter	Units	35344818002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.20 U	4	4	3.1	3.2	73	76	75-125	3	20	J(M1)

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

QC Batch: 402873 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

METHOD BLANK: 2199203 | Matrix: Water
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/08/17 17:09	
Barium	ug/L	5.0 U	10.0	5.0	11/08/17 17:09	
Beryllium	ug/L	0.50 U	1.0	0.50	11/08/17 02:53	
Cadmium	ug/L	0.50 U	1.0	0.50	11/08/17 17:09	
Chromium	ug/L	2.5 U	5.0	2.5	11/08/17 17:09	
Cobalt	ug/L	5.0 U	10.0	5.0	11/08/17 17:09	
Copper	ug/L	2.5 U	5.0	2.5	11/08/17 02:53	
Iron	ug/L	20.0 U	40.0	20.0	11/08/17 17:09	
Lead	ug/L	5.0 U	10.0	5.0	11/08/17 17:09	
Nickel	ug/L	2.5 U	5.0	2.5	11/08/17 17:09	
Selenium	ug/L	7.5 U	15.0	7.5	11/08/17 17:09	
Silver	ug/L	2.5 U	5.0	2.5	11/08/17 17:09	
Sodium	mg/L	0.50 U	1.0	0.50	11/08/17 17:09	
Vanadium	ug/L	5.0 U	10.0	5.0	11/08/17 17:09	
Zinc	ug/L	10.0 U	20.0	10.0	11/08/17 17:09	

LABORATORY CONTROL SAMPLE: 2199204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	265	106	80-120	
Barium	ug/L	250	266	106	80-120	
Beryllium	ug/L	25	24.7	99	80-120	
Cadmium	ug/L	25	27.3	109	80-120	
Chromium	ug/L	250	259	104	80-120	
Cobalt	ug/L	250	270	108	80-120	
Copper	ug/L	250	266	106	80-120	
Iron	ug/L	2500	2520	101	80-120	
Lead	ug/L	250	270	108	80-120	
Nickel	ug/L	250	276	110	80-120	
Selenium	ug/L	250	268	107	80-120	
Silver	ug/L	25	25.9	104	80-120	
Sodium	mg/L	12.5	12.9	103	80-120	
Vanadium	ug/L	250	261	104	80-120	
Zinc	ug/L	1250	1340	107	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2199205 2199206

Parameter	Units	35344816003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	5.0 U	250	250	264	265	104	105	75-125	1	20	
Barium	ug/L	5.0 U	250	250	267	269	106	108	75-125	1	20	
Beryllium	ug/L	0.50 U	25	25	26.1	25.0	104	99	75-125	4	20	
Cadmium	ug/L	0.50 U	25	25	26.5	26.8	106	107	75-125	1	20	
Chromium	ug/L	2.5 U	250	250	259	263	104	105	75-125	1	20	
Cobalt	ug/L	5.0 U	250	250	263	265	105	106	75-125	1	20	
Copper	ug/L	2.5 U	250	250	284	278	114	111	75-125	2	20	
Iron	ug/L	216	2500	2500	2740	2790	101	103	75-125	2	20	
Lead	ug/L	5.0 U	250	250	264	268	105	107	75-125	1	20	
Nickel	ug/L	2.5 U	250	250	268	270	107	108	75-125	1	20	
Selenium	ug/L	7.5 U	250	250	254	260	101	104	75-125	2	20	
Silver	ug/L	2.5 U	25	25	25.8	26.2	103	105	75-125	2	20	
Sodium	mg/L	1380 ug/L	12.5	12.5	14.6	14.9	106	108	75-125	2	20	
Vanadium	ug/L	79.8	250	250	338	345	103	106	75-125	2	20	
Zinc	ug/L	10.0 U	1250	1250	1300	1320	104	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

QC Batch: 402876 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

METHOD BLANK: 2199207 | Matrix: Water
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/03/17 18:50	
Thallium	ug/L	0.50 U	1.0	0.50	11/03/17 18:50	

LABORATORY CONTROL SAMPLE: 2199208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	47.8	96	80-120	
Thallium	ug/L	50	49.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2199209 2199210

Parameter	Units	35344816004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.94 I	50	50	47.4	48.9	93	96	75-125	3	20	
Thallium	ug/L	0.50 U	50	50	52.4	53.2	105	106	75-125	2	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

QC Batch: 386413 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

METHOD BLANK: 2143241 Matrix: Water
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.7 U	5.0	1.7	11/12/17 18:08	
1,1,1-Trichloroethane	ug/L	1.9 U	5.0	1.9	11/12/17 18:08	
1,1,2,2-Tetrachloroethane	ug/L	1.5 U	5.0	1.5	11/12/17 18:08	
1,1,2-Trichloroethane	ug/L	1.7 U	5.0	1.7	11/12/17 18:08	
1,1-Dichloroethane	ug/L	1.8 U	5.0	1.8	11/12/17 18:08	
1,1-Dichloroethene	ug/L	1.9 U	5.0	1.9	11/12/17 18:08	
1,2,3-Trichloropropane	ug/L	1.5 U	5.0	1.5	11/12/17 18:08	
1,2-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	11/12/17 18:08	
1,2-Dichloroethane	ug/L	1.8 U	5.0	1.8	11/12/17 18:08	
1,2-Dichloropropane	ug/L	1.7 U	5.0	1.7	11/12/17 18:08	
2-Butanone (MEK)	ug/L	4.9 U	10.0	4.9	11/12/17 18:08	
2-Hexanone	ug/L	3.8 U	10.0	3.8	11/12/17 18:08	
4-Methyl-2-pentanone (MIBK)	ug/L	3.6 U	10.0	3.6	11/12/17 18:08	
Acetone	ug/L	10.0 U	25.0	10.0	11/12/17 18:08	
Acrylonitrile	ug/L	11.5 U	100	11.5	11/12/17 18:08	
Benzene	ug/L	1.7 U	5.0	1.7	11/12/17 18:08	
Bromochloromethane	ug/L	2.2 U	5.0	2.2	11/12/17 18:08	
Bromodichloromethane	ug/L	1.7 U	5.0	1.7	11/12/17 18:08	
Bromoform	ug/L	1.5 U	5.0	1.5	11/12/17 18:08	
Bromomethane	ug/L	2.5 U	10.0	2.5	11/12/17 18:08	
Carbon disulfide	ug/L	1.7 U	10.0	1.7	11/12/17 18:08	
Carbon tetrachloride	ug/L	1.9 U	5.0	1.9	11/12/17 18:08	
Chlorobenzene	ug/L	1.7 U	5.0	1.7	11/12/17 18:08	
Chloroethane	ug/L	1.6 U	10.0	1.6	11/12/17 18:08	
Chloroform	ug/L	1.9 U	5.0	1.9	11/12/17 18:08	
Chloromethane	ug/L	1.5 U	5.0	1.5	11/12/17 18:08	
cis-1,2-Dichloroethene	ug/L	1.8 U	5.0	1.8	11/12/17 18:08	
cis-1,3-Dichloropropene	ug/L	1.6 U	5.0	1.6	11/12/17 18:08	
Dibromochloromethane	ug/L	1.8 U	5.0	1.8	11/12/17 18:08	
Dibromomethane	ug/L	2.0 U	5.0	2.0	11/12/17 18:08	
Ethylbenzene	ug/L	1.6 U	5.0	1.6	11/12/17 18:08	
Iodomethane	ug/L	3.1 U	10.0	3.1	11/12/17 18:08	
Methylene Chloride	ug/L	1.9 U	5.0	1.9	11/12/17 18:08	
Styrene	ug/L	1.6 U	5.0	1.6	11/12/17 18:08	
Tetrachloroethene	ug/L	1.8 U	5.0	1.8	11/12/17 18:08	
Toluene	ug/L	1.6 U	5.0	1.6	11/12/17 18:08	
trans-1,2-Dichloroethene	ug/L	1.8 U	5.0	1.8	11/12/17 18:08	
trans-1,3-Dichloropropene	ug/L	1.6 U	5.0	1.6	11/12/17 18:08	
trans-1,4-Dichloro-2-butene	ug/L	2.0 U	5.0	2.0	11/12/17 18:08	
Trichloroethene	ug/L	1.8 U	5.0	1.8	11/12/17 18:08	
Trichlorofluoromethane	ug/L	1.7 U	10.0	1.7	11/12/17 18:08	

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

METHOD BLANK: 2143241 Matrix: Water
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Vinyl acetate	ug/L	2.3 U	10.0	2.3	11/12/17 18:08	
Vinyl chloride	ug/L	1.5 U	5.0	1.5	11/12/17 18:08	
Xylene (Total)	ug/L	5.0 U	5.0	5.0	11/12/17 18:08	
1,2-Dichloroethane-d4 (S)	%	102	70-130		11/12/17 18:08	
4-Bromofluorobenzene (S)	%	94	70-130		11/12/17 18:08	
Toluene-d8 (S)	%	104	70-130		11/12/17 18:08	

LABORATORY CONTROL SAMPLE: 2143242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	80-125	
1,1,1-Trichloroethane	ug/L	50	45.0	90	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	79-124	
1,1,2-Trichloroethane	ug/L	50	47.5	95	85-125	
1,1-Dichloroethane	ug/L	50	43.0	86	73-126	
1,1-Dichloroethene	ug/L	50	53.7	107	66-135	
1,2,3-Trichloropropane	ug/L	50	53.6	107	75-130	
1,2-Dichlorobenzene	ug/L	50	50.6	101	80-133	
1,2-Dichloroethane	ug/L	50	43.1	86	67-128	
1,2-Dichloropropane	ug/L	50	47.7	95	75-132	
2-Butanone (MEK)	ug/L	100	94.0	94	61-144	
2-Hexanone	ug/L	100	103	103	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.7	98	72-135	
Acetone	ug/L	100	89.9	90	48-146	
Acrylonitrile	ug/L	250	231	92	40-160	
Benzene	ug/L	50	48.0	96	80-125	
Bromochloromethane	ug/L	50	46.4	93	71-125	
Bromodichloromethane	ug/L	50	48.0	96	78-124	
Bromoform	ug/L	50	46.6	93	71-128	
Bromomethane	ug/L	50	54.1	108	40-160	
Carbon disulfide	ug/L	50	54.6	109	50-160	
Carbon tetrachloride	ug/L	50	48.1	96	69-131	
Chlorobenzene	ug/L	50	50.0	100	81-122	
Chloroethane	ug/L	50	60.8	122	39-148	
Chloroform	ug/L	50	46.7	93	73-127	
Chloromethane	ug/L	50	55.6	111	44-146	
cis-1,2-Dichloroethene	ug/L	50	45.8	92	74-124	
cis-1,3-Dichloropropene	ug/L	50	50.0	100	72-132	
Dibromochloromethane	ug/L	50	51.2	102	78-125	
Dibromomethane	ug/L	50	43.4	87	82-120	
Ethylbenzene	ug/L	50	50.0	100	79-121	
Iodomethane	ug/L	100	86.5	86	39-154	
Methylene Chloride	ug/L	50	46.1	92	64-133	
Styrene	ug/L	50	51.8	104	84-126	

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

LABORATORY CONTROL SAMPLE: 2143242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	50	51.1	102	78-122	
Toluene	ug/L	50	46.9	94	80-121	
trans-1,2-Dichloroethene	ug/L	50	44.9	90	71-127	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	48.0	96	40-160	
Trichloroethene	ug/L	50	53.1	106	78-122	
Trichlorofluoromethane	ug/L	50	44.8	90	53-137	
Vinyl acetate	ug/L	100	106	106	40-160	
Vinyl chloride	ug/L	50	46.4	93	58-137	
Xylene (Total)	ug/L	150	154	103	81-126	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE SAMPLE: 2143618

Parameter	Units	35345326004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.7 U	20	19.2	96	70-130	
1,1,1-Trichloroethane	ug/L	1.9 U	20	21.1	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	1.5 U	20	19.2	96	70-130	
1,1,2-Trichloroethane	ug/L	1.7 U	20	19.1	96	70-130	
1,1-Dichloroethane	ug/L	1.8 U	20	20.9	104	70-130	
1,1-Dichloroethene	ug/L	1.9 U	20	21.3	106	65-160	
1,2,3-Trichloropropane	ug/L	1.5 U	20	20.6	103	70-130	
1,2-Dichlorobenzene	ug/L	1.5 U	20	19.9	100	70-130	
1,2-Dichloroethane	ug/L	1.8 U	20	20.6	103	70-130	
1,2-Dichloropropane	ug/L	1.7 U	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	4.9 U	40	41.9	105	70-130	
2-Hexanone	ug/L	3.8 U	40	42.7	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	3.6 U	40	41.6	104	70-130	
Acetone	ug/L	10.0 U	40	47.2	118	70-130	
Acrylonitrile	ug/L	11.5 U	100	104	104	70-130	
Benzene	ug/L	1.7 U	20	20.2	101	58-162	
Bromochloromethane	ug/L	2.2 U	20	20.7	104	70-130	
Bromodichloromethane	ug/L	1.7 U	20	19.5	98	70-130	
Bromoform	ug/L	1.5 U	20	18.7	94	70-130	
Bromomethane	ug/L	2.5 U	20	18.4	92	70-130	
Carbon disulfide	ug/L	1.7 U	20	22.7	113	70-130	
Carbon tetrachloride	ug/L	1.9 U	20	21.2	106	70-130	
Chlorobenzene	ug/L	1.7 U	20	19.6	98	70-138	
Chloroethane	ug/L	1.6 U	20	19.3	96	70-130	
Chloroform	ug/L	1.9 U	20	19.1	96	70-130	
Chloromethane	ug/L	1.5 U	20	21.0	105	70-130	
cis-1,2-Dichloroethene	ug/L	1.8 U	20	21.1	106	70-130	
cis-1,3-Dichloropropene	ug/L	1.6 U	20	20.9	105	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

MATRIX SPIKE SAMPLE: 2143618

Parameter	Units	35345326004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	1.8 U	20	19.1	96	70-130	
Dibromomethane	ug/L	2.0 U	20	20.7	103	70-130	
Ethylbenzene	ug/L	1.6 U	20	20.7	103	22-189	
Iodomethane	ug/L	3.1 U	40	32.3	81	70-130	
Methylene Chloride	ug/L	1.9 U	20	18.6	93	70-130	
Styrene	ug/L	1.6 U	20	19.3	96	70-130	
Tetrachloroethene	ug/L	1.8 U	20	20.4	102	70-130	
Toluene	ug/L	1.6 U	20	20.1	100	65-152	
trans-1,2-Dichloroethene	ug/L	1.8 U	20	20.9	105	70-130	
trans-1,3-Dichloropropene	ug/L	1.6 U	20	20.1	101	70-130	
trans-1,4-Dichloro-2-butene	ug/L	2.0 U	20	20.6	103	70-130	
Trichloroethene	ug/L	1.8 U	20	21.9	109	70-142	
Trichlorofluoromethane	ug/L	1.7 U	20	20.6	103	70-130	
Vinyl acetate	ug/L	2.3 U	40	39.6	99	70-130	
Vinyl chloride	ug/L	1.5 U	20	20.7	104	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2143617

Parameter	Units	35345326003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.7 U	1.7 U		30	
1,1,1-Trichloroethane	ug/L	1.9 U	1.9 U		30	
1,1,2,2-Tetrachloroethane	ug/L	1.5 U	1.5 U		30	
1,1,2-Trichloroethane	ug/L	1.7 U	1.7 U		30	
1,1-Dichloroethane	ug/L	1.8 U	1.8 U		30	
1,1-Dichloroethene	ug/L	1.9 U	1.9 U		30	
1,2,3-Trichloropropane	ug/L	1.5 U	1.5 U		30	
1,2-Dichlorobenzene	ug/L	1.5 U	1.5 U		30	
1,2-Dichloroethane	ug/L	1.8 U	1.8 U		30	
1,2-Dichloropropane	ug/L	1.7 U	1.7 U		30	
2-Butanone (MEK)	ug/L	4.9 U	4.9 U		30	
2-Hexanone	ug/L	3.8 U	3.8 U		30	
4-Methyl-2-pentanone (MIBK)	ug/L	3.6 U	3.6 U		30	
Acetone	ug/L	10.0 U	10.0 U		30	
Acrylonitrile	ug/L	11.5 U	11.5 U		30	
Benzene	ug/L	1.7 U	1.7 U		30	
Bromochloromethane	ug/L	2.2 U	2.2 U		30	
Bromodichloromethane	ug/L	1.7 U	1.7 U		30	
Bromoform	ug/L	1.5 U	1.5 U		30	
Bromomethane	ug/L	2.5 U	2.5 U		30	
Carbon disulfide	ug/L	1.7 U	1.7 U		30	
Carbon tetrachloride	ug/L	1.9 U	1.9 U		30	
Chlorobenzene	ug/L	1.7 U	1.7 U		30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

SAMPLE DUPLICATE: 2143617

Parameter	Units	35345326003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloroethane	ug/L	1.6 U	1.6 U		30	
Chloroform	ug/L	1.9 U	1.9 U		30	
Chloromethane	ug/L	1.5 U	1.5 U		30	
cis-1,2-Dichloroethene	ug/L	1.8 U	1.8 U		30	
cis-1,3-Dichloropropene	ug/L	1.6 U	1.6 U		30	
Dibromochloromethane	ug/L	1.8 U	1.8 U		30	
Dibromomethane	ug/L	2.0 U	2.0 U		30	
Ethylbenzene	ug/L	1.6 U	1.6 U		30	
Iodomethane	ug/L	3.1 U	3.1 U		30	
Methylene Chloride	ug/L	1.9 U	1.9 U		30	
Styrene	ug/L	1.6 U	1.6 U		30	
Tetrachloroethene	ug/L	1.8 U	1.8 U		30	
Toluene	ug/L	1.6 U	1.6 U		30	
trans-1,2-Dichloroethene	ug/L	1.8 U	1.8 U		30	
trans-1,3-Dichloropropene	ug/L	1.6 U	1.6 U		30	
trans-1,4-Dichloro-2-butene	ug/L	2.0 U	2.0 U		30	
Trichloroethene	ug/L	1.8 U	1.8 U		30	
Trichlorofluoromethane	ug/L	1.7 U	1.7 U		30	
Vinyl acetate	ug/L	2.3 U	2.3 U		30	
Vinyl chloride	ug/L	1.5 U	1.5 U		30	
Xylene (Total)	ug/L	5.0 U	5.0 U		30	
1,2-Dichloroethane-d4 (S)	%	99	95	4		
4-Bromofluorobenzene (S)	%	99	101	2		
Toluene-d8 (S)	%	110	110	0		

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QUALITY CONTROL DATA

Project: Resource Recovery GMW
Pace Project No.: 35345326

QC Batch: 404261 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

METHOD BLANK: 2206722 | Matrix: Water
Associated Lab Samples: 35345326001, 35345326002, 35345326003, 35345326004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/10/17 15:37	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/10/17 15:37	

LABORATORY CONTROL SAMPLE: 2206723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.29	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.30	120	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207164 2207165

Parameter	Units	35346154001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	.44	.44	0.67	0.63	153	143	60-140	7	40	J(M1), L
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	.44	.44	0.82	0.82	187	186	60-140	1	40	J(M1), L

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REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery GMW
Pace Project No.: 35345326

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.
Q	Sample held beyond the accepted holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GMW
Pace Project No.: 35345326

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35345326001	**AC59525**	EPA 8011	404261	EPA 8011	404793
35345326002	**AC59526**	EPA 8011	404261	EPA 8011	404793
35345326003	**AC59527**	EPA 8011	404261	EPA 8011	404793
35345326004	**AC59528**	EPA 8011	404261	EPA 8011	404793
35345326001	**AC59525**	EPA 3010	402873	EPA 6010	402957
35345326002	**AC59526**	EPA 3010	402873	EPA 6010	402957
35345326003	**AC59527**	EPA 3010	402873	EPA 6010	402957
35345326004	**AC59528**	EPA 3010	402873	EPA 6010	402957
35345326001	**AC59525**	EPA 3010	402876	EPA 6020	402958
35345326002	**AC59526**	EPA 3010	402876	EPA 6020	402958
35345326003	**AC59527**	EPA 3010	402876	EPA 6020	402958
35345326004	**AC59528**	EPA 3010	402876	EPA 6020	402958
35345326001	**AC59525**	EPA 7470	403775	EPA 7470	403974
35345326002	**AC59526**	EPA 7470	403775	EPA 7470	403974
35345326003	**AC59527**	EPA 7470	403775	EPA 7470	403974
35345326004	**AC59528**	EPA 7470	403775	EPA 7470	403974
35345326001	**AC59525**	EPA 8260	386413		
35345326002	**AC59526**	EPA 8260	386413		
35345326003	**AC59527**	EPA 8260	386413		
35345326004	**AC59528**	EPA 8260	386413		

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WO# : 35345326

35345326

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY REC

FOR LAB USE ONLY
Temp. of Contents:_____ ° C (or Received on Ice: ROI)
Condition of Contents:

LOG IN NO.

1. Client: (Company or Individual): Pasco Co. ENV LAB
Address:
City: State Zip Code
Phone: ( )
Fax: ( )

2. Report to: (if different from above): Cardia Mulhern
Address:
City State Zip Code
Phone: ( )
Fax: ( )

3. Client Project Name: Resource Recovery GWM

4. Sampled by: (Print) MARIAN BERNAL

5. Sampled by: (Signature) Marian Bernal

6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	12. No. of Containers	15. Analyses Requested: Metals, Fe, Hg, Na	8260	8011						16. REMARK	For Lab Use Only LAB SAMPLE NO.
													13. Preservatives	N	H	C						
													14. Containers	P	V	V						
1.	AC59525	2MW-26D	10-30-17	1123		✓	GW					6	✓	✓	✓							
2.	AC59526	2MW-25D	10-30-17	1310		✓	GW					6	✓	✓	✓							
3.	AC59527	2MW-27D	10-30-17	1602		✓	GW					6	✓	✓	✓						Sent to	
4.	AC59528	4MW-27D	10-30-17	1618		✓	GW					6	✓	✓	✓						PACE	
5.																					11/1/17	
6.																						
7.																						
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian Bernal	10-30-17	1744	[illegible]	10-30-17	1744
2. [illegible]	11/1/17	1310	[illegible] T203	11-1-17	1310
3. [illegible]	11-1-17	1415	LMCGUIN / PACE 2.3	11-1-17	1415
4.					

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO# : 35345326

Project Manager: PM: VEG Due Date: 11/13/17

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: MLL
Label: 11/1/17
Deliver:
pH:

Thermometer Used: T-203 Date: 11-01-17 Time: 1440 Initials: LJM

State of Origin: FL

Cooler #1 Temp.°C 2.3	(Visual) 0.0	(Correction Factor) 2.3	(Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ None ☐ Other LJM 11-1-17

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☑ Yes	☐ No	☐ N/A
Chain of Custody Filled Out	☑ Yes	☐ No	☐ N/A
Relinquished Signature & Sampler Name COC	☑ Yes	☐ No	☐ N/A
Samples Arrived within Hold Time	☑ Yes	☐ No	☐ N/A
Rush TAT requested on COC	☐ Yes	☑ No	☐ N/A
Sufficient Volume	☑ Yes	☐ No	☐ N/A
Correct Containers Used	☑ Yes	☐ No	☐ N/A
Containers Intact	☑ Yes	☐ No	☐ N/A
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes	☐ No	☐ N/A
All containers needing acid/base preservation have been checked.	☑ Yes	☐ No	☐ N/A
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes	☐ No	☐ N/A
Headspace in VOA Vials? (>6mm):	☐ Yes	☑ No	☐ N/A
Trip Blank Present:	☐ Yes	☑ No	☐ N/A

Preservation Information:
Preservative:
Lot #/Trace #:
Date: Time:
Initials:

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 21, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GWM
Pace Project No.: 35345944

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Resource Recovery GWM
Pace Project No.:	35345944

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Resource Recovery GWM
Pace Project No.: 35345944

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35345944001	**AC59724**	Water	11/01/17 10:46	11/03/17 13:00
35345944002	**AC59725**	Water	11/01/17 12:01	11/03/17 13:00
35345944003	**AC59727**	Water	11/01/17 14:24	11/03/17 13:00
35345944004	**AC59728**	Water	11/01/17 15:18	11/03/17 13:00

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SAMPLE ANALYTE COUNT

Project: Resource Recovery GWM
Pace Project No.: 35345944

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35345944001	**AC59724**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35345944002	**AC59725**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35345944003	**AC59727**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35345944004	**AC59728**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345944

Sample: AC59724 **Lab ID: 35345944001** Collected: 11/01/17 10:46 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/09/17 17:40	11/16/17 18:34	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/09/17 17:40	11/16/17 18:34	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:22	7440-38-2	
Barium	**11.7**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:22	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/17/17 23:47	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:22	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:22	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:22	7440-48-4	
Copper	**2.6 I**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:22	7440-50-8	
Iron	**34.0 I**	ug/L	40.0	20.0	1	11/05/17 21:26	11/20/17 01:22	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:22	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:22	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/05/17 21:26	11/20/17 01:22	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:22	7440-22-4	
Sodium	**6.0**	mg/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:22	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:22	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/05/17 21:26	11/20/17 01:22	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:46	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/13/17 13:33	11/14/17 12:24	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/17 12:21	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 12:21	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/17 12:21	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/17 12:21	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/17 12:21	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 12:21	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 12:21	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/17 12:21	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/17 12:21	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/09/17 12:21	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345944

Sample: AC59724 **Lab ID: 35345944001** Collected: 11/01/17 10:46 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 12:21	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/17 12:21	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/17 12:21	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 12:21	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/17 12:21	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/17 12:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 12:21	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/17 12:21	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/09/17 12:21	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/17 12:21	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 12:21	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/09/17 12:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	89-111		1		11/09/17 12:21	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-135		1		11/09/17 12:21	17060-07-0	
Toluene-d8 (S)	108	%	89-112		1		11/09/17 12:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345944

Sample: AC59725 **Lab ID: 35345944002** Collected: 11/01/17 12:01 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/09/17 17:40	11/16/17 18:49	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/09/17 17:40	11/16/17 18:49	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:26	7440-38-2	
Barium	**8.1 I**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:26	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/17/17 23:53	7440-41-7	
Cadmium	**1.2**	ug/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:26	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:26	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:26	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:26	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/05/17 21:26	11/20/17 01:26	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:26	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:26	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/05/17 21:26	11/20/17 01:26	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:26	7440-22-4	
Sodium	**4.8**	mg/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:26	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:26	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/05/17 21:26	11/20/17 01:26	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:48	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/13/17 13:33	11/14/17 12:30	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/17 13:09	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:09	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/17 13:09	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/17 13:09	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/17 13:09	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:09	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:09	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/17 13:09	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/17 13:09	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/09/17 13:09	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345944

Sample: AC59725 **Lab ID: 35345944002** Collected: 11/01/17 12:01 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:09	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/17 13:09	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/17 13:09	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:09	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/17 13:09	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/17 13:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:09	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/17 13:09	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/09/17 13:09	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/17 13:09	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:09	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/09/17 13:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	89-111		1		11/09/17 13:09	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		11/09/17 13:09	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		11/09/17 13:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345944

Sample: AC59727 **Lab ID: 35345944003** Collected: 11/01/17 14:24 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/09/17 17:40	11/16/17 19:04	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/09/17 17:40	11/16/17 19:04	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:38	7440-38-2	
Barium	**21.2**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:38	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/17/17 23:58	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:38	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:38	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:38	7440-48-4	
Copper	**2.6 I**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:38	7440-50-8	
Iron	**73.5**	ug/L	40.0	20.0	1	11/05/17 21:26	11/20/17 01:38	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:38	7439-92-1	
Nickel	**3.6 I**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:38	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/05/17 21:26	11/20/17 01:38	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:38	7440-22-4	
Sodium	**38.2**	mg/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:38	7440-23-5	
Vanadium	**11.4**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:38	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/05/17 21:26	11/20/17 01:38	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:51	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/13/17 15:01	11/14/17 13:10	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/17 13:33	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:33	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/17 13:33	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/17 13:33	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/17 13:33	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:33	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:33	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/17 13:33	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/17 13:33	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/09/17 13:33	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345944

Sample: AC59727 **Lab ID: 35345944003** Collected: 11/01/17 14:24 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:33	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/17 13:33	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/17 13:33	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:33	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/17 13:33	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/17 13:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:33	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/17 13:33	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/09/17 13:33	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/17 13:33	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:33	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/09/17 13:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	89-111		1		11/09/17 13:33	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		11/09/17 13:33	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		11/09/17 13:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345944

Sample: AC59728 **Lab ID: 35345944004** Collected: 11/01/17 15:18 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/09/17 17:40	11/17/17 02:10	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/09/17 17:40	11/17/17 02:10	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:42	7440-38-2	
Barium	**32.3**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:42	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/18/17 00:03	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:42	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:42	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:42	7440-48-4	
Copper	**2.6 I**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:42	7440-50-8	
Iron	**295**	ug/L	40.0	20.0	1	11/05/17 21:26	11/20/17 01:42	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:42	7439-92-1	
Nickel	**3.0 I**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:42	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/05/17 21:26	11/20/17 01:42	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:42	7440-22-4	
Sodium	**38.1**	mg/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:42	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:42	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/05/17 21:26	11/20/17 01:42	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:58	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/13/17 15:01	11/14/17 13:21	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/17 13:57	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:57	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/17 13:57	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/17 13:57	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/17 13:57	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:57	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:57	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/17 13:57	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/17 13:57	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/09/17 13:57	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345944

Sample: AC59728 **Lab ID: 35345944004** Collected: 11/01/17 15:18 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:57	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/17 13:57	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/17 13:57	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:57	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/17 13:57	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/17 13:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/17 13:57	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/17 13:57	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/09/17 13:57	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/17 13:57	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/17 13:57	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/09/17 13:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		11/09/17 13:57	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	75-135		1		11/09/17 13:57	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		11/09/17 13:57	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

QC Batch: 405096 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35345944001, 35345944002

METHOD BLANK: 2212032 | Matrix: Water
Associated Lab Samples: 35345944001, 35345944002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/14/17 12:05	

LABORATORY CONTROL SAMPLE: 2212033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2212034 2212035

Parameter	Units	35345692001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.20 U	4	4	3.4	3.5	82	86	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

QC Batch: 405097 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35345944003, 35345944004

METHOD BLANK: 2212041 | Matrix: Water
Associated Lab Samples: 35345944003, 35345944004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/14/17 13:06	

LABORATORY CONTROL SAMPLE: 2212042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.2	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2212043 2212044

Parameter	Units	35345944003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.0	2.2	102	108	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

QC Batch: 403400 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35345944001, 35345944002, 35345944003, 35345944004

METHOD BLANK: 2202189 Matrix: Water
Associated Lab Samples: 35345944001, 35345944002, 35345944003, 35345944004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Barium	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Beryllium	ug/L	0.50 U	1.0	0.50	11/17/17 22:56	
Cadmium	ug/L	0.50 U	1.0	0.50	11/20/17 00:54	
Chromium	ug/L	2.5 U	5.0	2.5	11/20/17 00:54	
Cobalt	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Copper	ug/L	2.5 U	5.0	2.5	11/20/17 00:54	
Iron	ug/L	20.0 U	40.0	20.0	11/20/17 00:54	
Lead	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Nickel	ug/L	2.5 U	5.0	2.5	11/20/17 00:54	
Selenium	ug/L	7.5 U	15.0	7.5	11/20/17 00:54	
Silver	ug/L	2.5 U	5.0	2.5	11/20/17 00:54	
Sodium	mg/L	0.50 U	1.0	0.50	11/20/17 00:54	
Vanadium	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Zinc	ug/L	10.0 U	20.0	10.0	11/20/17 00:54	

LABORATORY CONTROL SAMPLE: 2202190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	235	94	80-120	
Barium	ug/L	250	247	99	80-120	
Beryllium	ug/L	25	26.2	105	80-120	
Cadmium	ug/L	25	24.4	98	80-120	
Chromium	ug/L	250	238	95	80-120	
Cobalt	ug/L	250	248	99	80-120	
Copper	ug/L	250	224	90	80-120	
Iron	ug/L	2500	2500	100	80-120	
Lead	ug/L	250	237	95	80-120	
Nickel	ug/L	250	250	100	80-120	
Selenium	ug/L	250	206	83	80-120	
Silver	ug/L	25	23.5	94	80-120	
Sodium	mg/L	12.5	11.5	92	80-120	
Vanadium	ug/L	250	238	95	80-120	
Zinc	ug/L	1250	1250	100	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2202191 2202192

Parameter	Units	35345911001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	55.9	250	250	316	311	104	102	75-125	1	20	
Barium	ug/L	34.4	250	250	297	304	105	108	75-125	3	20	
Beryllium	ug/L	0.50 U	25	25	26.8	26.8	107	107	75-125	0	20	
Cadmium	ug/L	0.50 U	25	25	24.2	24.2	97	97	75-125	0	20	
Chromium	ug/L	73.1	250	250	319	320	99	99	75-125	0	20	
Cobalt	ug/L	17.0	250	250	272	272	102	102	75-125	0	20	
Copper	ug/L	46.4	250	250	312	310	106	105	75-125	1	20	
Iron	ug/L	7200	2500	2500	9810	9960	104	110	75-125	2	20	
Lead	ug/L	5.0 U	250	250	247	246	97	97	75-125	0	20	
Nickel	ug/L	74.6	250	250	322	324	99	100	75-125	1	20	
Selenium	ug/L	75.0 U	250	250	192	187	77	75	75-125	3	20	
Silver	ug/L	2.5 U	25	25	28.2	28.5	113	114	75-125	1	20	
Sodium	mg/L	1200	12.5	12.5	1230	1240	272	296	75-125	0	20	J(M1), L
Vanadium	ug/L	13.3	250	250	264	261	100	99	75-125	1	20	
Zinc	ug/L	160	1250	1250	1520	1530	109	110	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

QC Batch: 403398 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35345944001, 35345944002, 35345944003, 35345944004

METHOD BLANK: 2202181 | Matrix: Water
Associated Lab Samples: 35345944001, 35345944002, 35345944003, 35345944004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/07/17 21:03	
Thallium	ug/L	0.50 U	1.0	0.50	11/07/17 21:03	

LABORATORY CONTROL SAMPLE: 2202182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.8	98	80-120	
Thallium	ug/L	50	47.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2202183 2202184

Parameter	Units	35345333001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	47.4	48.4	95	96	75-125	2	20	
Thallium	ug/L	0.50 U	50	50	45.0	48.4	90	97	75-125	7	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

QC Batch: 404361 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35345944001, 35345944002, 35345944003, 35345944004

METHOD BLANK: 2207250 Matrix: Water
Associated Lab Samples: 35345944001, 35345944002, 35345944003, 35345944004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/09/17 10:20	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/09/17 10:20	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/09/17 10:20	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/09/17 10:20	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/09/17 10:20	
Acetone	ug/L	10.0 U	20.0	10.0	11/09/17 10:20	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/09/17 10:20	
Benzene	ug/L	0.10 U	1.0	0.10	11/09/17 10:20	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/09/17 10:20	
Bromoform	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/09/17 10:20	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/09/17 10:20	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/09/17 10:20	
Chloroform	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/09/17 10:20	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/09/17 10:20	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/09/17 10:20	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/09/17 10:20	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/09/17 10:20	
Styrene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Toluene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/09/17 10:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/09/17 10:20	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

METHOD BLANK: 2207250 Matrix: Water
Associated Lab Samples: 35345944001, 35345944002, 35345944003, 35345944004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/09/17 10:20	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/09/17 10:20	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/09/17 10:20	
1,2-Dichloroethane-d4 (S)	%	107	75-135		11/09/17 10:20	
4-Bromofluorobenzene (S)	%	96	89-111		11/09/17 10:20	
Toluene-d8 (S)	%	103	89-112		11/09/17 10:20	

LABORATORY CONTROL SAMPLE: 2207251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.3	92	70-130	
1,1,1-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	16.6	83	65-134	
1,2,3-Trichloropropane	ug/L	20	17.9	89	65-135	
1,2-Dichlorobenzene	ug/L	20	18.2	91	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	70-130	
1,2-Dichloropropane	ug/L	20	18.4	92	70-130	
1,4-Dichlorobenzene	ug/L	20	18.2	91	70-130	
2-Butanone (MEK)	ug/L	40	40.6	101	61-129	
2-Hexanone	ug/L	40	42.5	106	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	40.9	102	70-130	
Acetone	ug/L	40	41.9	105	44-155	
Acrylonitrile	ug/L	200	216	108	59-138	
Benzene	ug/L	20	19.3	97	70-130	
Bromochloromethane	ug/L	20	19.7	99	70-130	
Bromodichloromethane	ug/L	20	17.8	89	70-130	
Bromoform	ug/L	20	18.2	91	62-129	
Bromomethane	ug/L	20	22.1	110	10-179	
Carbon disulfide	ug/L	20	20.8	104	40-156	
Carbon tetrachloride	ug/L	20	17.7	89	66-127	
Chlorobenzene	ug/L	20	18.1	91	70-130	
Chloroethane	ug/L	20	19.2	96	57-142	
Chloroform	ug/L	20	18.6	93	70-130	
Chloromethane	ug/L	20	24.9	125	45-150	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.3	97	70-130	
Dibromochloromethane	ug/L	20	18.0	90	70-130	
Dibromomethane	ug/L	20	18.9	95	70-130	
Ethylbenzene	ug/L	20	18.3	92	70-130	
Iodomethane	ug/L	40	45.5	114	21-150	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

LABORATORY CONTROL SAMPLE: 2207251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.3	97	65-127	
Styrene	ug/L	20	20.1	101	70-130	
Tetrachloroethene	ug/L	20	18.6	93	48-155	
Toluene	ug/L	20	18.1	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	68-126	
trans-1,3-Dichloropropene	ug/L	20	18.9	95	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	18.7	93	46-138	
Trichloroethene	ug/L	20	18.7	94	69-129	
Trichlorofluoromethane	ug/L	20	22.3	112	60-144	
Vinyl acetate	ug/L	20	20.0	100	70-130	
Vinyl chloride	ug/L	20	21.7	109	67-136	
Xylene (Total)	ug/L	60	59.4	99	70-130	
1,2-Dichloroethane-d4 (S)	%			102	75-135	
4-Bromofluorobenzene (S)	%			101	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 2209246

Parameter	Units	35345944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	17.9	89	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20.1	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.1	91	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	20.1	100	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.6	88	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.8	94	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	19.1	95	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	19.0	94	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	18.3	92	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	39.2	98	61-129	
2-Hexanone	ug/L	5.0 U	40	38.6	96	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	38.5	96	70-130	
Acetone	ug/L	10.0 U	40	40.2	92	44-155	
Acrylonitrile	ug/L	5.0 U	200	190	95	59-138	
Benzene	ug/L	0.10 U	20	19.5	98	70-130	
Bromochloromethane	ug/L	0.50 U	20	20.5	103	70-130	
Bromodichloromethane	ug/L	0.27 U	20	17.9	90	70-130	
Bromoform	ug/L	0.50 U	20	17.0	85	62-129	
Bromomethane	ug/L	0.50 U	20	19.9	100	10-179	
Carbon disulfide	ug/L	5.0 U	20	20.8	104	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	19.5	98	66-127	
Chlorobenzene	ug/L	0.50 U	20	19.0	95	70-130	
Chloroethane	ug/L	0.50 U	20	19.6	98	57-142	
Chloroform	ug/L	0.50 U	20	19.2	96	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

MATRIX SPIKE SAMPLE: 2209246

Parameter	Units	35345944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	15.6	78	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.6	93	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.8	89	70-130	
Dibromochloromethane	ug/L	0.26 U	20	18.1	90	70-130	
Dibromomethane	ug/L	0.50 U	20	18.4	92	70-130	
Ethylbenzene	ug/L	0.50 U	20	19.7	99	70-130	
Iodomethane	ug/L	0.50 U	40	36.0	90	21-150	
Methylene Chloride	ug/L	2.5 U	20	18.9	93	65-127	
Styrene	ug/L	0.50 U	20	19.8	99	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.2	96	48-155	
Toluene	ug/L	0.50 U	20	19.0	95	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	19.1	95	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	18.1	90	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	18.3	91	46-138	
Trichloroethene	ug/L	0.50 U	20	19.4	97	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	19.4	97	60-144	
Vinyl acetate	ug/L	1.0 U	20	16.4	82	70-130	
Vinyl chloride	ug/L	0.50 U	20	16.2	81	67-136	
Xylene (Total)	ug/L	1.5 U	60	61.8	103	70-130	
1,2-Dichloroethane-d4 (S)	%				104	75-135	
4-Bromofluorobenzene (S)	%				104	89-111	
Toluene-d8 (S)	%				97	89-112	

SAMPLE DUPLICATE: 2209245

Parameter	Units	35345944001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

SAMPLE DUPLICATE: 2209245

Parameter	Units	35345944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	110	105	5	40	
4-Bromofluorobenzene (S)	%	95	99	4	40	
Toluene-d8 (S)	%	108	99	8	40	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

QC Batch: 404261 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35345944001, 35345944002, 35345944003

METHOD BLANK: 2206722 | Matrix: Water
Associated Lab Samples: 35345944001, 35345944002, 35345944003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/10/17 15:37	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/10/17 15:37	

LABORATORY CONTROL SAMPLE: 2206723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.29	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.30	120	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207164 2207165

Parameter	Units	35346154001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	.44	.44	0.67	0.63	153	143	60-140	7	40	J(M1), L
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	.44	.44	0.82	0.82	187	186	60-140	1	40	J(M1), L

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345944

QC Batch: 404286 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35345944004

METHOD BLANK: 2206839 | Matrix: Water
Associated Lab Samples: 35345944004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/17/17 01:40	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/17/17 01:40	

LABORATORY CONTROL SAMPLE: 2206840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.27	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.23	92	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207168 2207169

Parameter	Units	35345944004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.47	0.49	106	112	60-140	5	40	Q
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.45	0.45	101	102	60-140	1	40	Q

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery GWM
Pace Project No.: 35345944

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.
Q	Sample held beyond the accepted holding time.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GWM
Pace Project No.: 35345944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35345944001	**AC59724**	EPA 8011	404261	EPA 8011	404793
35345944002	**AC59725**	EPA 8011	404261	EPA 8011	404793
35345944003	**AC59727**	EPA 8011	404261	EPA 8011	404793
35345944004	**AC59728**	EPA 8011	404286	EPA 8011	404795
35345944001	**AC59724**	EPA 3010	403400	EPA 6010	403435
35345944002	**AC59725**	EPA 3010	403400	EPA 6010	403435
35345944003	**AC59727**	EPA 3010	403400	EPA 6010	403435
35345944004	**AC59728**	EPA 3010	403400	EPA 6010	403435
35345944001	**AC59724**	EPA 3010	403398	EPA 6020	403436
35345944002	**AC59725**	EPA 3010	403398	EPA 6020	403436
35345944003	**AC59727**	EPA 3010	403398	EPA 6020	403436
35345944004	**AC59728**	EPA 3010	403398	EPA 6020	403436
35345944001	**AC59724**	EPA 7470	405096	EPA 7470	405207
35345944002	**AC59725**	EPA 7470	405096	EPA 7470	405207
35345944003	**AC59727**	EPA 7470	405097	EPA 7470	405356
35345944004	**AC59728**	EPA 7470	405097	EPA 7470	405356
35345944001	**AC59724**	EPA 8260	404361		
35345944002	**AC59725**	EPA 8260	404361		
35345944003	**AC59727**	EPA 8260	404361		
35345944004	**AC59728**	EPA 8260	404361		

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Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY RECORD

Page 1 of 1

FOR LAB USE ONLY
Temp. of Contents: _____ ° C (or Received on Ice ROI)
Condition of Contents: _____

FOR LAB USE ONLY
LOG IN NO.

WO# : 35345944
35345944

1. Client: (Company or Individual): PASCO Co. ENV. LAB
Address:
City: State Zip Code

2. Report to: (if different from above): Candia Mulhern
Address:
City State Zip Code

3. Client Project Name: Resource Recovery GWM

4. Sampled by: (Print): MARIAN BERNAL

5. Sampled by: (Signature): Marian Bernal

6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	12. No. of Containers	13. Preservatives	N	H	C						16. REMARK	For Lab Use Only LAB SAMPLE NO.
													14. Containers	P	V	V						
													15. Analyses Requested: Metals App I, Fe, Hg, Na; 8260 App I; 80 11										
1.	AC59724	4MW-22	11-01-17	1046		✓	GW							✓	✓	✓							
2.	AC59725	4MW-21	11-01-17	1201		✓	GW							✓	✓	✓							
3.	AC59726	2MW-8	11-01-17	1238		Did NOT PURGE								X	X	X	MB					X Not Sampled MB	
4.	AC59727	4MW-27	11-01-17	1424		✓	GW							✓	✓	✓							
5.	AC59728	* 2MW-27S	11-01-17	1518		✓	GW							✓	✓	✓	MB					*2MW-27S	
6.																							
7.																						Sent to	
8.																						PACE	
9.																						11/3/17	
10.																							

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian Bernal	11-01-17	1624	[signature] 11/01/17 @	1624	
2. [signature]	11/3/17	1218	[signature]/Pace	1218	
3. [signature]/Pace	11/3/17	1300	MMCFULLO/PACE	11-3-17	1300
4.					

T203
1.3

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35345944

Project Manager: PM: VEG Due Date: 11/17/17

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label: 11/3/17
Deliver:
pH:

Thermometer Used: T-203 Date: 11-3-17 Time: 1310 Initials: KDK

State of Origin: FL

Cooler #1 Temp.°C	1.3 (Visual)	0.0 (Correction Factor)	1.3 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☐ Yes ☑ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments): 1/3 D260 Sample #003 was empty

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 21, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GWM
Pace Project No.: 35345942

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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8 East Tower Circle
Ormond Beach, FL 32174
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CERTIFICATIONS

Project: Resource Recovery GWM
Pace Project No.: 35345942

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Resource Recovery GWM
Pace Project No.: 35345942

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35345942001	**AC59776**	Water	11/02/17 11:56	11/03/17 13:00
35345942002	**AC59777**	Water	11/02/17 14:08	11/03/17 13:00

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Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Resource Recovery GWM
Pace Project No.: 35345942

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35345942001	**AC59776**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35345942002	**AC59777**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS, MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345942

Sample: AC59776 **Lab ID: 35345942001** Collected: 11/02/17 11:56 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/09/17 17:40	11/16/17 23:58	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/09/17 17:40	11/16/17 23:58	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:14	7440-38-2	
Barium	**12.0**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:14	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/17/17 23:37	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:14	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:14	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:14	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:14	7440-50-8	
Iron	**165**	ug/L	40.0	20.0	1	11/05/17 21:26	11/20/17 01:14	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:14	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:14	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/05/17 21:26	11/20/17 01:14	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:14	7440-22-4	
Sodium	**12.4**	mg/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:14	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:14	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/05/17 21:26	11/20/17 01:14	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:41	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/13/17 13:33	11/14/17 12:19	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/17 05:31	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:31	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/17 05:31	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/17 05:31	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/17 05:31	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:31	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:31	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/17 05:31	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/17 05:31	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/14/17 05:31	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	95-50-1	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345942

Sample: AC59776 **Lab ID: 35345942001** Collected: 11/02/17 11:56 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:31	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/17 05:31	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/17 05:31	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:31	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/17 05:31	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/17 05:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:31	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/17 05:31	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/14/17 05:31	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/17 05:31	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:31	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/14/17 05:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		11/14/17 05:31	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-135		1		11/14/17 05:31	17060-07-0	
Toluene-d8 (S)	109	%	89-112		1		11/14/17 05:31	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345942

Sample: AC59777 **Lab ID: 35345942002** Collected: 11/02/17 14:08 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/09/17 17:40	11/17/17 00:12	96-12-8	Q
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/09/17 17:40	11/17/17 00:12	106-93-4	Q
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.8 I**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:18	7440-38-2	
Barium	**10.7**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:18	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/17/17 23:42	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:18	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:18	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:18	7440-48-4	
Copper	**2.8 I**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:18	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/05/17 21:26	11/20/17 01:18	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:18	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:18	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/05/17 21:26	11/20/17 01:18	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/05/17 21:26	11/20/17 01:18	7440-22-4	
Sodium	**23.7**	mg/L	1.0	0.50	1	11/05/17 21:26	11/20/17 01:18	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/05/17 21:26	11/20/17 01:18	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/05/17 21:26	11/20/17 01:18	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:43	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/05/17 21:26	11/07/17 23:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/13/17 13:33	11/14/17 12:22	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/17 05:55	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:55	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/17 05:55	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/17 05:55	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/17 05:55	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:55	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:55	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/17 05:55	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/17 05:55	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/14/17 05:55	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35345942

Sample: AC59777 **Lab ID: 35345942002** Collected: 11/02/17 14:08 Received: 11/03/17 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:55	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/17 05:55	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/17 05:55	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:55	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/17 05:55	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/17 05:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/17 05:55	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/17 05:55	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/14/17 05:55	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/17 05:55	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/17 05:55	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/14/17 05:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		11/14/17 05:55	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		11/14/17 05:55	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		11/14/17 05:55	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

QC Batch: 405096 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35345942001, 35345942002

METHOD BLANK: 2212032 | Matrix: Water
Associated Lab Samples: 35345942001, 35345942002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/14/17 12:05	

LABORATORY CONTROL SAMPLE: 2212033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2212034 2212035

Parameter	Units	35345692001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.20 U	4	4	3.4	3.5	82	86	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

QC Batch: 403400 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35345942001, 35345942002

METHOD BLANK: 2202189 | Matrix: Water
Associated Lab Samples: 35345942001, 35345942002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Barium	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Beryllium	ug/L	0.50 U	1.0	0.50	11/17/17 22:56	
Cadmium	ug/L	0.50 U	1.0	0.50	11/20/17 00:54	
Chromium	ug/L	2.5 U	5.0	2.5	11/20/17 00:54	
Cobalt	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Copper	ug/L	2.5 U	5.0	2.5	11/20/17 00:54	
Iron	ug/L	20.0 U	40.0	20.0	11/20/17 00:54	
Lead	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Nickel	ug/L	2.5 U	5.0	2.5	11/20/17 00:54	
Selenium	ug/L	7.5 U	15.0	7.5	11/20/17 00:54	
Silver	ug/L	2.5 U	5.0	2.5	11/20/17 00:54	
Sodium	mg/L	0.50 U	1.0	0.50	11/20/17 00:54	
Vanadium	ug/L	5.0 U	10.0	5.0	11/20/17 00:54	
Zinc	ug/L	10.0 U	20.0	10.0	11/20/17 00:54	

LABORATORY CONTROL SAMPLE: 2202190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	235	94	80-120	
Barium	ug/L	250	247	99	80-120	
Beryllium	ug/L	25	26.2	105	80-120	
Cadmium	ug/L	25	24.4	98	80-120	
Chromium	ug/L	250	238	95	80-120	
Cobalt	ug/L	250	248	99	80-120	
Copper	ug/L	250	224	90	80-120	
Iron	ug/L	2500	2500	100	80-120	
Lead	ug/L	250	237	95	80-120	
Nickel	ug/L	250	250	100	80-120	
Selenium	ug/L	250	206	83	80-120	
Silver	ug/L	25	23.5	94	80-120	
Sodium	mg/L	12.5	11.5	92	80-120	
Vanadium	ug/L	250	238	95	80-120	
Zinc	ug/L	1250	1250	100	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2202191 2202192

Parameter	Units	35345911001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	55.9	250	250	316	311	104	102	75-125	1	20	
Barium	ug/L	34.4	250	250	297	304	105	108	75-125	3	20	
Beryllium	ug/L	0.50 U	25	25	26.8	26.8	107	107	75-125	0	20	
Cadmium	ug/L	0.50 U	25	25	24.2	24.2	97	97	75-125	0	20	
Chromium	ug/L	73.1	250	250	319	320	99	99	75-125	0	20	
Cobalt	ug/L	17.0	250	250	272	272	102	102	75-125	0	20	
Copper	ug/L	46.4	250	250	312	310	106	105	75-125	1	20	
Iron	ug/L	7200	2500	2500	9810	9960	104	110	75-125	2	20	
Lead	ug/L	5.0 U	250	250	247	246	97	97	75-125	0	20	
Nickel	ug/L	74.6	250	250	322	324	99	100	75-125	1	20	
Selenium	ug/L	75.0 U	250	250	192	187	77	75	75-125	3	20	
Silver	ug/L	2.5 U	25	25	28.2	28.5	113	114	75-125	1	20	
Sodium	mg/L	1200	12.5	12.5	1230	1240	272	296	75-125	0	20	J(M1), L
Vanadium	ug/L	13.3	250	250	264	261	100	99	75-125	1	20	
Zinc	ug/L	160	1250	1250	1520	1530	109	110	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

QC Batch: 403398 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35345942001, 35345942002

METHOD BLANK: 2202181 | Matrix: Water
Associated Lab Samples: 35345942001, 35345942002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/07/17 21:03	
Thallium	ug/L	0.50 U	1.0	0.50	11/07/17 21:03	

LABORATORY CONTROL SAMPLE: 2202182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.8	98	80-120	
Thallium	ug/L	50	47.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2202183 2202184

Parameter	Units	35345333001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	47.4	48.4	95	96	75-125	2	20	
Thallium	ug/L	0.50 U	50	50	45.0	48.4	90	97	75-125	7	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

QC Batch: 405280 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35345942001, 35345942002

METHOD BLANK: 2212916 | Matrix: Water
Associated Lab Samples: 35345942001, 35345942002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/13/17 21:42	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/13/17 21:42	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/13/17 21:42	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/13/17 21:42	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/13/17 21:42	
Acetone	ug/L	10.0 U	20.0	10.0	11/13/17 21:42	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/13/17 21:42	
Benzene	ug/L	0.10 U	1.0	0.10	11/13/17 21:42	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/13/17 21:42	
Bromoform	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/13/17 21:42	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/13/17 21:42	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/13/17 21:42	
Chloroform	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/13/17 21:42	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/13/17 21:42	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/13/17 21:42	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/13/17 21:42	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/13/17 21:42	
Styrene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Toluene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/13/17 21:42	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/13/17 21:42	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

METHOD BLANK: 2212916 Matrix: Water
Associated Lab Samples: 35345942001, 35345942002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/13/17 21:42	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/13/17 21:42	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/13/17 21:42	
1,2-Dichloroethane-d4 (S)	%	105	75-135		11/13/17 21:42	
4-Bromofluorobenzene (S)	%	100	89-111		11/13/17 21:42	
Toluene-d8 (S)	%	103	89-112		11/13/17 21:42	

LABORATORY CONTROL SAMPLE: 2212917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,1-Trichloroethane	ug/L	20	19.7	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	70-130	
1,1,2-Trichloroethane	ug/L	20	20.3	101	70-130	
1,1-Dichloroethane	ug/L	20	19.5	97	70-130	
1,1-Dichloroethene	ug/L	20	17.0	85	65-134	
1,2,3-Trichloropropane	ug/L	20	17.2	86	65-135	
1,2-Dichlorobenzene	ug/L	20	19.4	97	70-130	
1,2-Dichloroethane	ug/L	20	19.2	96	70-130	
1,2-Dichloropropane	ug/L	20	19.3	96	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	40	40.8	102	61-129	
2-Hexanone	ug/L	40	41.5	104	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	41.9	105	70-130	
Acetone	ug/L	40	33.1	83	44-155	
Acrylonitrile	ug/L	200	206	103	59-138	
Benzene	ug/L	20	19.7	98	70-130	
Bromochloromethane	ug/L	20	20.6	103	70-130	
Bromodichloromethane	ug/L	20	18.1	90	70-130	
Bromoform	ug/L	20	20.3	102	62-129	
Bromomethane	ug/L	20	23.6	118	10-179	
Carbon disulfide	ug/L	20	16.0	80	40-156	
Carbon tetrachloride	ug/L	20	19.6	98	66-127	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	16.4	82	57-142	
Chloroform	ug/L	20	18.6	93	70-130	
Chloromethane	ug/L	20	18.4	92	45-150	
cis-1,2-Dichloroethene	ug/L	20	18.3	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.6	93	70-130	
Dibromochloromethane	ug/L	20	19.6	98	70-130	
Dibromomethane	ug/L	20	20.6	103	70-130	
Ethylbenzene	ug/L	20	20.0	100	70-130	
Iodomethane	ug/L	40	49.2	123	21-150	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

LABORATORY CONTROL SAMPLE: 2212917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	18.0	90	65-127	
Styrene	ug/L	20	22.1	111	70-130	
Tetrachloroethene	ug/L	20	21.4	107	48-155	
Toluene	ug/L	20	19.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.1	96	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	12.6	63	46-138	
Trichloroethene	ug/L	20	19.8	99	69-129	
Trichlorofluoromethane	ug/L	20	17.2	86	60-144	
Vinyl acetate	ug/L	20	19.8	99	70-130	
Vinyl chloride	ug/L	20	15.0	75	67-136	
Xylene (Total)	ug/L	60	64.2	107	70-130	
1,2-Dichloroethane-d4 (S)	%			99	75-135	
4-Bromofluorobenzene (S)	%			109	89-111	
Toluene-d8 (S)	%			96	89-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214341 2214342

Parameter	Units	35346594002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	20	18.9	19.1	94	95	70-130	1	40	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20	19.9	19.8	100	99	70-130	1	40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	20	17.5	18.0	87	90	70-130	3	40	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20	19.7	18.7	98	93	70-130	5	40	
1,1-Dichloroethane	ug/L	0.50 U	20	20	19.1	19.4	96	97	70-130	1	40	
1,1-Dichloroethene	ug/L	0.50 U	20	20	16.3	17.2	82	86	65-134	5	40	
1,2,3-Trichloropropane	ug/L	0.59 U	20	20	15.6	18.7	78	94	65-135	18	40	
1,2-Dichlorobenzene	ug/L	0.50 U	20	20	17.5	18.5	88	92	70-130	5	40	
1,2-Dichloroethane	ug/L	0.50 U	20	20	18.7	18.3	92	91	70-130	2	40	
1,2-Dichloropropane	ug/L	0.50 U	20	20	17.9	18.6	89	93	70-130	4	40	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20	17.4	18.4	87	92	70-130	5	40	
2-Butanone (MEK)	ug/L	5.0 U	40	40	36.0	38.4	90	96	61-129	7	40	
2-Hexanone	ug/L	5.0 U	40	40	36.5	37.9	91	95	68-131	4	40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	40	37.2	39.0	93	97	70-130	5	40	
Acetone	ug/L	10.0 U	40	40	28.7	31.2	66	73	44-155	8	40	
Acrylonitrile	ug/L	5.0 U	200	200	189	188	94	94	59-138	1	40	
Benzene	ug/L	0.10 U	20	20	18.8	19.0	94	95	70-130	1	40	
Bromochloromethane	ug/L	0.50 U	20	20	20.4	19.9	102	100	70-130	2	40	
Bromodichloromethane	ug/L	0.27 U	20	20	17.3	17.3	86	86	70-130	0	40	
Bromoform	ug/L	0.50 U	20	20	16.6	15.8	83	79	62-129	5	40	
Bromomethane	ug/L	0.50 U	20	20	17.3	20.8	87	104	10-179	18	40	
Carbon disulfide	ug/L	5.0 U	20	20	16.7	16.5	83	83	40-156	1	40	
Carbon tetrachloride	ug/L	0.50 U	20	20	19.5	19.8	98	99	66-127	1	40	
Chlorobenzene	ug/L	0.50 U	20	20	19.4	19.2	97	96	70-130	1	40	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214341 2214342

Parameter	Units	35346594002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	0.50 U	20	20	17.2	15.0	86	75	57-142	14	40	
Chloroform	ug/L	0.50 U	20	20	18.3	18.3	91	92	70-130	0	40	
Chloromethane	ug/L	1.0	20	20	18.0	18.6	85	88	45-150	4	40	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	20	17.7	18.3	88	92	70-130	3	40	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	20	15.8	16.4	79	82	70-130	3	40	
Dibromochloromethane	ug/L	0.26 U	20	20	17.3	17.4	86	87	70-130	1	40	
Dibromomethane	ug/L	0.50 U	20	20	19.2	19.5	96	98	70-130	2	40	
Ethylbenzene	ug/L	0.50 U	20	20	18.9	18.8	95	94	70-130	1	40	
Iodomethane	ug/L	0.50 U	40	40	37.3	48.7	93	122	21-150	27	40	
Methylene Chloride	ug/L	2.5 U	20	20	17.0	17.1	85	85	65-127	0	40	
Styrene	ug/L	0.50 U	20	20	20.7	20.6	103	103	70-130	0	40	
Tetrachloroethene	ug/L	0.50 U	20	20	20.4	21.0	102	105	48-155	3	40	
Toluene	ug/L	0.50 U	20	20	18.7	19.1	94	96	70-130	2	40	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	20	17.6	17.5	88	88	68-126	0	40	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	20	17.3	17.4	87	87	70-130	0	40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	9.4 I	9.2 I	47	46	46-138		40	
Trichloroethene	ug/L	0.50 U	20	20	19.6	20.0	98	100	69-129	2	40	
Trichlorofluoromethane	ug/L	0.50 U	20	20	19.0	19.1	95	96	60-144	1	40	
Vinyl acetate	ug/L	1.0 U	20	20	16.3	16.5	82	83	70-130	1	40	
Vinyl chloride	ug/L	0.50 U	20	20	15.3	15.6	77	78	67-136	2	40	
Xylene (Total)	ug/L	1.5 U	60	60	60.2	59.7	100	99	70-130	1	40	
1,2-Dichloroethane-d4 (S)	%						100	99	75-135		40	
4-Bromofluorobenzene (S)	%						107	106	89-111		40	
Toluene-d8 (S)	%						96	99	89-112		40	

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REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35345942

QC Batch: 404262 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35345942001, 35345942002

METHOD BLANK: 2206725 | Matrix: Water
Associated Lab Samples: 35345942001, 35345942002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/16/17 19:19	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/16/17 19:19	

LABORATORY CONTROL SAMPLE: 2206726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.25	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.21	84	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207166 2207167

Parameter	Units	35345075001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.58	0.52	132	118	60-140	11	40	Q
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	.44	.44	0.46	0.47	105	106	60-140	1	40	Q

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery GWM
Pace Project No.: 35345942

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.
Q	Sample held beyond the accepted holding time.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GWM
Pace Project No.: 35345942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35345942001	**AC59776**	EPA 8011	404262	EPA 8011	404794
35345942002	**AC59777**	EPA 8011	404262	EPA 8011	404794
35345942001	**AC59776**	EPA 3010	403400	EPA 6010	403435
35345942002	**AC59777**	EPA 3010	403400	EPA 6010	403435
35345942001	**AC59776**	EPA 3010	403398	EPA 6020	403436
35345942002	**AC59777**	EPA 3010	403398	EPA 6020	403436
35345942001	**AC59776**	EPA 7470	405096	EPA 7470	405207
35345942002	**AC59777**	EPA 7470	405096	EPA 7470	405207
35345942001	**AC59776**	EPA 8260	405280		
35345942002	**AC59777**	EPA 8260	405280		

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Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY RECORD

Page 1 of 1

FOR LAB USE ONLY
Temp. of Contents: _____ ° C (or Received on Ice, ROI)
Condition of Contents: _____

FOR LAB USE ONLY
LOG IN NO.
WO# : 35345942
35345942

1. Client: (Company or Individual): Pasco Co. Env. Lab
Address:
City: State Zip Code

2. Report to: (if different from above): Carolin Mulhern
Address:
City State Zip Code Fax: ( )

3. Client Project Name: Resource Recovery GWM
4. Sampled by: (Print) MARIAN BERNAL
5. Sampled by: (Signature) Marian Bernal
6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	11. Leachate	11. Soil	11. Sludge	11. Other	12. No. of Containers	15. Analyses Requested: Metals Fe, Mn, Na	15. 8260 App. I	15. 8011						16. REMARK	For Lab Use Only LAB SAMPLE NO.
13. Preservatives													N	H	C							
14. Containers													P	V	V							
1.	AC59776	4MW-3A	11-02-17	1156		✓	GW					6	✓	✓	✓							
2.	AC59777	4MW-5	11.02.17	1408		✓	GW					6	✓	✓	✓							
3.																					Sent to	
4.																					PACE	
5.																					11/3/17	
6.																						
7.																						
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian Bernal	11-02-17	1534	[illegible]	11-02-17	15:34
2. [signature]	11/3/17	1218	[signature]	110317	1218
3. [signature]	110317	1300	MMCRGW/PACE	11-3-17	1300
4.					

T203
3.5

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO#: 35345942
PM: VEG Due Date: 11/17/17
CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label: 11/3/17
Deliver:
pH:

Thermometer Used: T-203 Date: 11-3-17 Time: 1310 Initials: KOM

State of Origin: FL

Cooler #1 Temp.°C 3.5 **(Visual)** 0.0 **(Correction Factor)** 3.5 **(Actual)** ☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # ____

Custody Seal on Cooler/Box Present: ☐Yes ☑No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐Bubble Wrap ☑ Bubble Bags ☐None ☐Other____

Samples shorted to lab (If Yes, complete) Shorted Date:____ Shorted Time:____ Qty:____

		Comments:
Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked. All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑Yes ☐ No ☐N/A ☑Yes ☐ No ☐N/A	Preservation Information: Preservative:____ Lot #/Trace #:____ Date:____ Time:____ Initials:____
Headspace in VOA Vials? (>6mm):	☐Yes ☑No ☐N/A	
Trip Blank Present:	☐Yes ☑No ☐N/A	

Client Notification/ Resolution:
Person Contacted:____ Date/Time:____

Comments/ Resolution (use back for additional comments):____

Project Manager Review:____ Date:____

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 21, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GWM
Pace Project No.: 35346751

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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CERTIFICATIONS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Resource Recovery GWM
Pace Project No.: 35346751

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35346751001	**AC59852**	Water	11/06/17 11:20	11/08/17 13:40
35346751002	**AC59853**	Water	11/06/17 11:20	11/08/17 13:40
35346751003	**AC59854**	Water	11/06/17 14:13	11/08/17 13:40
35346751004	**AC59855**	Water	11/06/17 15:39	11/08/17 13:40

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SAMPLE ANALYTE COUNT

Project: Resource Recovery GWM
Pace Project No.: 35346751

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35346751001	**AC59852**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35346751002	**AC59853**	EPA 8011	SMH	2	PASI-O
		EPA 6010	MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35346751003	**AC59854**	EPA 8011	SMH	2	PASI-O
		EPA 6010	MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35346751004	**AC59855**	EPA 8011	SMH	2	PASI-O
		EPA 6010	MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Sample: AC59852 **Lab ID: 35346751001** Collected: 11/06/17 11:20 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/09/17 16:33	11/17/17 18:09	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/09/17 16:33	11/17/17 18:09	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 11:49	7440-38-2	
Barium	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 11:49	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 11:49	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 11:49	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 11:49	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 11:49	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 11:49	7440-50-8	
Iron	**50.9**	ug/L	40.0	20.0	1	11/09/17 15:44	11/21/17 11:49	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 11:49	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 11:49	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/09/17 15:44	11/21/17 11:49	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 11:49	7440-22-4	
Sodium	**1.2**	mg/L	1.0	0.50	1	11/09/17 15:44	11/21/17 11:49	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 11:49	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/09/17 15:44	11/21/17 11:49	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 17:47	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 17:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 11:31	11/16/17 13:49	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/17/17 17:44	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 17:44	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/17/17 17:44	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/17/17 17:44	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/17/17 17:44	74-83-9	J(L1)
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 17:44	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 17:44	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/17/17 17:44	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/17/17 17:44	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/17/17 17:44	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Sample: AC59852 **Lab ID: 35346751001** Collected: 11/06/17 11:20 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 17:44	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/17/17 17:44	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/17/17 17:44	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 17:44	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/17/17 17:44	74-88-4	J(L1)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/17/17 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 17:44	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/17/17 17:44	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/17/17 17:44	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/17/17 17:44	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 17:44	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/17/17 17:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	89-111		1		11/17/17 17:44	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-135		1		11/17/17 17:44	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		11/17/17 17:44	2037-26-5	

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8 East Tower Circle
Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Sample: AC59853 **Lab ID: 35346751002** Collected: 11/06/17 11:20 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/09/17 16:33	11/17/17 18:24	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/09/17 16:33	11/17/17 18:24	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:32	7440-38-2	
Barium	**36.4**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:32	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:32	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:32	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:32	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:32	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:32	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/09/17 15:44	11/21/17 18:32	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:32	7439-92-1	
Nickel	**4.5 I**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:32	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/09/17 15:44	11/21/17 18:32	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:32	7440-22-4	
Sodium	**66.7**	mg/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:32	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:32	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/09/17 15:44	11/21/17 18:32	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:01	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 11:31	11/16/17 13:56	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/17/17 18:08	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:08	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/17/17 18:08	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/17/17 18:08	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/17/17 18:08	74-83-9	J(L1)
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:08	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:08	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/17/17 18:08	75-00-3	
Chloroform	**1.6**	ug/L	1.0	0.50	1		11/17/17 18:08	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/17/17 18:08	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/17/17 18:08	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Sample: AC59853 **Lab ID: 35346751002** Collected: 11/06/17 11:20 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:08	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/17/17 18:08	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/17/17 18:08	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:08	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/17/17 18:08	74-88-4	J(L1)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/17/17 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:08	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/17/17 18:08	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/17/17 18:08	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/17/17 18:08	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:08	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/17/17 18:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	89-111		1		11/17/17 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		11/17/17 18:08	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		11/17/17 18:08	2037-26-5	

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8 East Tower Circle
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(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Sample: AC59854 **Lab ID: 35346751003** Collected: 11/06/17 14:13 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/09/17 16:33	11/17/17 18:38	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/09/17 16:33	11/17/17 18:38	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:37	7440-38-2	
Barium	**11.3**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:37	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:37	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:37	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:37	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:37	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:37	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/09/17 15:44	11/21/17 18:37	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:37	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:37	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/09/17 15:44	11/21/17 18:37	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:37	7440-22-4	
Sodium	**5.4**	mg/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:37	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:37	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/09/17 15:44	11/21/17 18:37	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:04	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 11:31	11/16/17 13:58	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/17/17 18:33	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:33	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/17/17 18:33	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/17/17 18:33	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/17/17 18:33	74-83-9	J(L1)
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:33	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:33	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/17/17 18:33	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/17/17 18:33	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/17/17 18:33	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Sample: AC59854 **Lab ID: 35346751003** Collected: 11/06/17 14:13 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:33	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/17/17 18:33	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/17/17 18:33	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:33	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/17/17 18:33	74-88-4	J(L1)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/17/17 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:33	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/17/17 18:33	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/17/17 18:33	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/17/17 18:33	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:33	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/17/17 18:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		11/17/17 18:33	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		11/17/17 18:33	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		11/17/17 18:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Sample: AC59855 **Lab ID: 35346751004** Collected: 11/06/17 15:39 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0064 U**	ug/L	0.020	0.0064	1	11/09/17 16:33	11/17/17 18:53	96-12-8	
1,2-Dibromoethane (EDB)	**0.0075 U**	ug/L	0.0099	0.0075	1	11/09/17 16:33	11/17/17 18:53	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:42	7440-38-2	
Barium	**10.2**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:42	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:42	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:42	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:42	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:42	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:42	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/09/17 15:44	11/21/17 18:42	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:42	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:42	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/09/17 15:44	11/21/17 18:42	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:42	7440-22-4	
Sodium	**11.7**	mg/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:42	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:42	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/09/17 15:44	11/21/17 18:42	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:06	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 11:31	11/16/17 14:00	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/17/17 18:57	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:57	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/17/17 18:57	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/17/17 18:57	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/17/17 18:57	74-83-9	J(L1)
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:57	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:57	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/17/17 18:57	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/17/17 18:57	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/17/17 18:57	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346751

Sample: AC59855 **Lab ID: 35346751004** Collected: 11/06/17 15:39 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:57	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/17/17 18:57	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/17/17 18:57	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:57	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/17/17 18:57	74-88-4	J(L1)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/17/17 18:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/17/17 18:57	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/17/17 18:57	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/17/17 18:57	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/17/17 18:57	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/17/17 18:57	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/17/17 18:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	89-111		1		11/17/17 18:57	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		11/17/17 18:57	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		11/17/17 18:57	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

QC Batch: 405700 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

METHOD BLANK: 2215136 | Matrix: Water
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/16/17 13:31	

LABORATORY CONTROL SAMPLE: 2215137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2215138 2215139

Parameter	Units	35346717005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.5	1.6	72	81	75-125	12	20	J(M1)

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

QC Batch: 404465 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

METHOD BLANK: 2208090 | Matrix: Water
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Barium	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Beryllium	ug/L	0.50 U	1.0	0.50	11/21/17 11:28	
Cadmium	ug/L	0.50 U	1.0	0.50	11/21/17 11:28	
Chromium	ug/L	2.5 U	5.0	2.5	11/21/17 11:28	
Cobalt	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Copper	ug/L	2.5 U	5.0	2.5	11/21/17 11:28	
Iron	ug/L	20.0 U	40.0	20.0	11/21/17 11:28	
Lead	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Nickel	ug/L	2.5 U	5.0	2.5	11/21/17 11:28	
Selenium	ug/L	7.5 U	15.0	7.5	11/21/17 11:28	
Silver	ug/L	2.5 U	5.0	2.5	11/21/17 11:28	
Sodium	mg/L	0.50 U	1.0	0.50	11/21/17 11:28	
Vanadium	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Zinc	ug/L	10.0 U	20.0	10.0	11/21/17 11:28	

LABORATORY CONTROL SAMPLE: 2208091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	238	95	80-120	
Barium	ug/L	250	271	108	80-120	
Beryllium	ug/L	25	25.7	103	80-120	
Cadmium	ug/L	25	24.7	99	80-120	
Chromium	ug/L	250	251	100	80-120	
Cobalt	ug/L	250	249	99	80-120	
Copper	ug/L	250	254	102	80-120	
Iron	ug/L	2500	2720	109	80-120	
Lead	ug/L	250	250	100	80-120	
Nickel	ug/L	250	249	100	80-120	
Selenium	ug/L	250	237	95	80-120	
Silver	ug/L	25	26.2	105	80-120	
Sodium	mg/L	12.5	13.0	104	80-120	
Vanadium	ug/L	250	250	100	80-120	
Zinc	ug/L	1250	1250	100	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208092 2208093

Parameter	Units	35346923003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.3 I	250	250	268	266	104	103	75-125	1	20	
Barium	ug/L	75.5	250	250	343	311	107	94	75-125	10	20	
Beryllium	ug/L	<0.50	25	25	26.5	25.8	106	103	75-125	3	20	
Cadmium	ug/L	<0.50	25	25	25.4	24.9	102	99	75-125	2	20	
Chromium	ug/L	<2.5	250	250	259	257	103	102	75-125	1	20	
Cobalt	ug/L	<5.0	250	250	259	257	104	103	75-125	1	20	
Copper	ug/L	<2.5	250	250	272	266	108	106	75-125	2	20	
Iron	ug/L	209	2500	2500	2980	2890	111	107	75-125	3	20	
Lead	ug/L	<5.0	250	250	254	256	102	103	75-125	1	20	
Nickel	ug/L	<2.5	250	250	259	256	103	102	75-125	1	20	
Selenium	ug/L	9.6 I	250	250	261	255	101	98	75-125	2	20	
Silver	ug/L	<2.5	25	25	27.2	26.6	109	106	75-125	2	20	
Sodium	mg/L	60.5	12.5	12.5	72.6	71.7	97	90	75-125	1	20	
Vanadium	ug/L	<5.0	250	250	264	260	105	103	75-125	2	20	
Zinc	ug/L	<10.0	1250	1250	1310	1300	105	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

QC Batch: 404469 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

METHOD BLANK: 2208128 | Matrix: Water
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/10/17 17:42	
Thallium	ug/L	0.50 U	1.0	0.50	11/10/17 17:42	

LABORATORY CONTROL SAMPLE: 2208129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.2	102	80-120	
Thallium	ug/L	50	53.6	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208130 2208131

Parameter	Units	35346751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	51.6	49.8	103	99	75-125	3	20	
Thallium	ug/L	0.50 U	50	50	54.2	53.5	108	107	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

QC Batch: 406316 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

METHOD BLANK: 2218548 | Matrix: Water
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/17/17 09:00	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/17/17 09:00	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/17/17 09:00	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/17/17 09:00	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/17/17 09:00	
Acetone	ug/L	10.0 U	20.0	10.0	11/17/17 09:00	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/17/17 09:00	
Benzene	ug/L	0.10 U	1.0	0.10	11/17/17 09:00	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/17/17 09:00	
Bromoform	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/17/17 09:00	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/17/17 09:00	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/17/17 09:00	
Chloroform	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/17/17 09:00	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/17/17 09:00	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/17/17 09:00	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/17/17 09:00	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/17/17 09:00	
Styrene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Toluene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/17/17 09:00	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/17/17 09:00	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

METHOD BLANK: 2218548 Matrix: Water
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/17/17 09:00	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/17/17 09:00	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/17/17 09:00	
1,2-Dichloroethane-d4 (S)	%	102	75-135		11/17/17 09:00	
4-Bromofluorobenzene (S)	%	102	89-111		11/17/17 09:00	
Toluene-d8 (S)	%	101	89-112		11/17/17 09:00	

LABORATORY CONTROL SAMPLE: 2218549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.9	105	70-130	
1,1,1-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	70-130	
1,1,2-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethene	ug/L	20	16.7	84	65-134	
1,2,3-Trichloropropane	ug/L	20	21.3	106	65-135	
1,2-Dichlorobenzene	ug/L	20	20.3	101	70-130	
1,2-Dichloroethane	ug/L	20	19.8	99	70-130	
1,2-Dichloropropane	ug/L	20	19.4	97	70-130	
1,4-Dichlorobenzene	ug/L	20	19.3	97	70-130	
2-Butanone (MEK)	ug/L	40	45.3	113	61-129	
2-Hexanone	ug/L	40	46.1	115	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	44.9	112	70-130	
Acetone	ug/L	40	39.0	97	44-155	
Acrylonitrile	ug/L	200	217	109	59-138	
Benzene	ug/L	20	19.8	99	70-130	
Bromochloromethane	ug/L	20	22.3	111	70-130	
Bromodichloromethane	ug/L	20	18.3	91	70-130	
Bromoform	ug/L	20	21.0	105	62-129	
Bromomethane	ug/L	20	48.2	241	10-179	J(L1)
Carbon disulfide	ug/L	20	18.9	95	40-156	
Carbon tetrachloride	ug/L	20	19.2	96	66-127	
Chlorobenzene	ug/L	20	19.9	100	70-130	
Chloroethane	ug/L	20	18.3	92	57-142	
Chloroform	ug/L	20	19.5	97	70-130	
Chloromethane	ug/L	20	29.5	147	45-150	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	19.7	99	70-130	
Dibromomethane	ug/L	20	21.2	106	70-130	
Ethylbenzene	ug/L	20	19.4	97	70-130	
Iodomethane	ug/L	40	134	336	21-150	J(L1)

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

LABORATORY CONTROL SAMPLE: 2218549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	18.3	92	65-127	
Styrene	ug/L	20	21.8	109	70-130	
Tetrachloroethene	ug/L	20	21.5	107	48-155	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.2	101	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.4	97	46-138	
Trichloroethene	ug/L	20	20.5	102	69-129	
Trichlorofluoromethane	ug/L	20	17.9	90	60-144	
Vinyl acetate	ug/L	20	23.5	118	70-130	
Vinyl chloride	ug/L	20	18.8	94	67-136	
Xylene (Total)	ug/L	60	61.8	103	70-130	
1,2-Dichloroethane-d4 (S)	%			100	75-135	
4-Bromofluorobenzene (S)	%			106	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2218901

Parameter	Units	35348887001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	15.4	77	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	16.5	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	14.5	72	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	15.6	78	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	16.4	82	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	14.4	72	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	14.2	71	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	14.9	74	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	15.7	79	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	15.1	76	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	14.8	74	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	27.8	69	61-129	
2-Hexanone	ug/L	5.0 U	40	28.6	71	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	27.4	68	70-130	J(M1)
Acetone	ug/L	10.0 U	40	25.0	62	44-155	
Acrylonitrile	ug/L	5.0 U	200	145	72	59-138	
Benzene	ug/L	0.10 U	20	16.0	80	70-130	
Bromochloromethane	ug/L	0.50 U	20	17.5	88	70-130	
Bromodichloromethane	ug/L	0.27 U	20	14.7	74	70-130	
Bromoform	ug/L	0.50 U	20	15.2	76	62-129	
Bromomethane	ug/L	0.50 U	20	35.8	179	10-179	
Carbon disulfide	ug/L	5.0 U	20	14.2	71	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	16.8	84	66-127	
Chlorobenzene	ug/L	0.50 U	20	16.1	80	70-130	
Chloroethane	ug/L	0.50 U	20	15.2	76	57-142	
Chloroform	ug/L	0.50 U	20	15.3	77	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

MATRIX SPIKE SAMPLE: 2218901

Parameter	Units	35348887001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	23.9	119	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	14.9	75	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.0	70	70-130	
Dibromochloromethane	ug/L	0.26 U	20	15.1	76	70-130	
Dibromomethane	ug/L	0.50 U	20	16.3	82	70-130	
Ethylbenzene	ug/L	0.50 U	20	15.6	78	70-130	
Iodomethane	ug/L	0.50 U	40	103	258	21-150	J(M0)
Methylene Chloride	ug/L	2.5 U	20	14.4	71	65-127	
Styrene	ug/L	0.50 U	20	16.5	83	70-130	
Tetrachloroethene	ug/L	0.50 U	20	16.8	84	48-155	
Toluene	ug/L	0.50 U	20	15.6	78	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	14.8	74	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	15.0	75	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	11.3	56	46-138	
Trichloroethene	ug/L	0.50 U	20	16.5	83	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	17.9	89	60-144	
Vinyl acetate	ug/L	1.0 U	20	14.8	74	70-130	
Vinyl chloride	ug/L	0.50 U	20	15.6	78	67-136	
Xylene (Total)	ug/L	1.5 U	60	48.6	81	70-130	
1,2-Dichloroethane-d4 (S)	%				101	75-135	
4-Bromofluorobenzene (S)	%				108	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2218900

Parameter	Units	35348886001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

SAMPLE DUPLICATE: 2218900

Parameter	Units	35348886001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	102	105	2	40	
4-Bromofluorobenzene (S)	%	101	99	2	40	
Toluene-d8 (S)	%	98	100	2	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346751

QC Batch: 404379 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

METHOD BLANK: 2207399 | Matrix: Water
Associated Lab Samples: 35346751001, 35346751002, 35346751003, 35346751004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/17/17 15:13	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/17/17 15:13	

LABORATORY CONTROL SAMPLE: 2207400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.21	83	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.20	78	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208305 2208306

Parameter	Units	35346717003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.54	0.55	123	124	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.50	0.53	114	119	60-140	4	40	

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REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery GWM
Pace Project No.: 35346751

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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8 East Tower Circle
Ormond Beach, FL 32174
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GWM
Pace Project No.: 35346751

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35346751001	**AC59852**	EPA 8011	404379	EPA 8011	405147
35346751002	**AC59853**	EPA 8011	404379	EPA 8011	405147
35346751003	**AC59854**	EPA 8011	404379	EPA 8011	405147
35346751004	**AC59855**	EPA 8011	404379	EPA 8011	405147
35346751001	**AC59852**	EPA 3010	404465	EPA 6010	404501
35346751002	**AC59853**	EPA 3010	404465	EPA 6010	404501
35346751003	**AC59854**	EPA 3010	404465	EPA 6010	404501
35346751004	**AC59855**	EPA 3010	404465	EPA 6010	404501
35346751001	**AC59852**	EPA 3010	404469	EPA 6020	404504
35346751002	**AC59853**	EPA 3010	404469	EPA 6020	404504
35346751003	**AC59854**	EPA 3010	404469	EPA 6020	404504
35346751004	**AC59855**	EPA 3010	404469	EPA 6020	404504
35346751001	**AC59852**	EPA 7470	405700	EPA 7470	405824
35346751002	**AC59853**	EPA 7470	405700	EPA 7470	405824
35346751003	**AC59854**	EPA 7470	405700	EPA 7470	405824
35346751004	**AC59855**	EPA 7470	405700	EPA 7470	405824
35346751001	**AC59852**	EPA 8260	406316		
35346751002	**AC59853**	EPA 8260	406316		
35346751003	**AC59854**	EPA 8260	406316		
35346751004	**AC59855**	EPA 8260	406316		

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WO#: 35346751

35346751

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY RECORD

FOR LAB USE ONLY
Temp. of Contents: 12.1 ° C (or Received on Ice, ROI) Condition of Contents:

LOG IN NO.

1. Client: (Company or Individual): Pasco Co. ENV. LAB
Address:
City: State Zip Code
Phone: ( )
Fax: ( )

2. Report to: (if different from above): Candia Mulhern
Address:
City State Zip Code
Phone: ( )
Fax: ( )

3. Client Project Name: Resource Recovery GWM

4. Sampled by: (Print) MARIAN BERNAL

5. Sampled by: (Signature) Marian Bernal

6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

12. No. of Containers
13. Preservatives: N, H, C
14. Containers: P, V, V
15. Analyses Requested: Metals Fe Hg, Na; 8260 Aqu.; 5011

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	12. No. of Containers	Metals Fe Hg, Na	8260 Aqu.	5011						16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC59852	2MW-1	11-6-17	~~1320~~		✓	GW					6	✓	✓	✓						*time 1256	
2.	AC59853	4MW-1	11-6-17	1120		✓	GW					6	✓	✓	✓							
3.	AC59854	2MW-15AD	11-6-17	1413		✓	GW					6	✓	✓	✓							
4.	AC59855	2MW-18D	11-6-17	1539		✓	GW					6	✓	✓	✓						Sent to	
5.																					PACE	
6.																					11/8/17	
7.																						
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian Bernal	11-6-17	1648	TS	11-6-17	1648
2. [illegible]	11/8/17	1240	[illegible]	11-8-17	1240
3. [illegible]	11-8-17	1340	[illegible] PACE	11-8-17	1340
4.				T203 1.2	

PC 4/15/12

IR Gun 1704 77691

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35346751

Project Manager: PM: VEG **Due Date:** 11/22/17

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label: 11/8/17
Deliver:
pH:

Thermometer Used: T-203 Date: 11-8-17 Time: 1350 Initials: LQM

State of Origin: FL

Cooler #1 Temp.°C 1.2	(Visual) 0.0	(Correction Factor) 1.2	(Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☐ Yes ☑ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 21, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GWM
Pace Project No.: 35346754

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project:	Resource Recovery GWM
Pace Project No.:	35346754

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Resource Recovery GWM
Pace Project No.: 35346754

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35346754001	**2MW-6**	Water	11/07/17 12:22	11/08/17 13:40
35346754002	**2MW-2**	Water	11/07/17 13:55	11/08/17 13:40
35346754003	**4MW-14D**	Water	11/07/17 15:33	11/08/17 13:40

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Ormond Beach, FL 32174
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SAMPLE ANALYTE COUNT

Project: Resource Recovery GWM
Pace Project No.: 35346754

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35346754001	**2MW-6**	EPA 8011	SMH	2	PASI-O
		EPA 6010	MMT	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35346754002	**2MW-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35346754003	**4MW-14D**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	BTN	48	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346754

Sample: 2MW-6 **Lab ID: 35346754001** Collected: 11/07/17 12:22 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/09/17 16:33	11/17/17 19:08	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/09/17 16:33	11/17/17 19:08	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:48	7440-38-2	
Barium	**20.9**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:48	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:48	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:48	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:48	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:48	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:48	7440-50-8	
Iron	**39.9 I**	ug/L	40.0	20.0	1	11/09/17 15:44	11/21/17 18:48	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:48	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:48	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/09/17 15:44	11/21/17 18:48	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 18:48	7440-22-4	
Sodium	**2.0**	mg/L	1.0	0.50	1	11/09/17 15:44	11/21/17 18:48	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 18:48	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/09/17 15:44	11/21/17 18:48	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:09	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 11:31	11/16/17 14:02	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/19/17 00:58	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 00:58	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/19/17 00:58	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/19/17 00:58	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/19/17 00:58	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 00:58	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 00:58	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/17 00:58	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/19/17 00:58	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/19/17 00:58	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346754

Sample: 2MW-6 **Lab ID: 35346754001** Collected: 11/07/17 12:22 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 00:58	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/17 00:58	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/17 00:58	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 00:58	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/17 00:58	74-88-4	J(L1)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/19/17 00:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 00:58	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/19/17 00:58	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/19/17 00:58	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/19/17 00:58	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 00:58	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/19/17 00:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	89-111		1		11/19/17 00:58	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		11/19/17 00:58	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		11/19/17 00:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346754

Sample: 2MW-2 **Lab ID: 35346754002** Collected: 11/07/17 13:55 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/09/17 16:33	11/17/17 19:37	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/09/17 16:33	11/17/17 19:37	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:42	7440-38-2	
Barium	**41.5**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:42	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 14:42	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 14:42	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 14:42	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:42	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 14:42	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/09/17 15:44	11/21/17 14:42	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:42	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 14:42	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/09/17 15:44	11/21/17 14:42	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 14:42	7440-22-4	
Sodium	**3.4**	mg/L	1.0	0.50	1	11/09/17 15:44	11/21/17 14:42	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:42	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/09/17 15:44	11/21/17 14:42	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:11	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 11:31	11/16/17 14:04	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/19/17 01:22	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 01:22	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/19/17 01:22	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/19/17 01:22	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/19/17 01:22	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 01:22	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 01:22	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/17 01:22	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/19/17 01:22	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/19/17 01:22	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346754

Sample: 2MW-2 **Lab ID: 35346754002** Collected: 11/07/17 13:55 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 01:22	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/17 01:22	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/17 01:22	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 01:22	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/17 01:22	74-88-4	J(L1)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/19/17 01:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 01:22	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/19/17 01:22	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/19/17 01:22	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/19/17 01:22	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 01:22	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/19/17 01:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	89-111		1		11/19/17 01:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		11/19/17 01:22	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		11/19/17 01:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346754

Sample: 4MW-14D **Lab ID: 35346754003** Collected: 11/07/17 15:33 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.020	0.0062	1	11/09/17 16:33	11/17/17 19:52	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/09/17 16:33	11/17/17 19:52	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:47	7440-38-2	
Barium	**11.4**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:47	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 14:47	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/21/17 14:47	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 14:47	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:47	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 14:47	7440-50-8	
Iron	**23.7 I**	ug/L	40.0	20.0	1	11/09/17 15:44	11/21/17 14:47	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:47	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 14:47	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/09/17 15:44	11/21/17 14:47	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/09/17 15:44	11/21/17 14:47	7440-22-4	
Sodium	**10.8**	mg/L	1.0	0.50	1	11/09/17 15:44	11/21/17 14:47	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/09/17 15:44	11/21/17 14:47	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/09/17 15:44	11/21/17 14:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:14	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/17 15:44	11/10/17 18:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 11:31	11/16/17 14:06	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/19/17 02:11	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 02:11	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/19/17 02:11	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/19/17 02:11	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/19/17 02:11	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 02:11	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 02:11	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/17 02:11	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/19/17 02:11	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/19/17 02:11	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35346754

Sample: 4MW-14D **Lab ID: 35346754003** Collected: 11/07/17 15:33 Received: 11/08/17 13:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 02:11	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/17 02:11	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/17 02:11	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 02:11	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/17 02:11	74-88-4	J(L1)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/19/17 02:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/17 02:11	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/19/17 02:11	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/19/17 02:11	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/19/17 02:11	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/17 02:11	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/19/17 02:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		11/19/17 02:11	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		11/19/17 02:11	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		11/19/17 02:11	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

QC Batch: 405700 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35346754001, 35346754002, 35346754003

METHOD BLANK: 2215136 | Matrix: Water
Associated Lab Samples: 35346754001, 35346754002, 35346754003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/16/17 13:31	

LABORATORY CONTROL SAMPLE: 2215137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2215138 2215139

Parameter	Units	35346717005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.5	1.6	72	81	75-125	12	20	J(M1)

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

QC Batch: 404465 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35346754001, 35346754002, 35346754003

METHOD BLANK: 2208090 | Matrix: Water
Associated Lab Samples: 35346754001, 35346754002, 35346754003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Barium	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Beryllium	ug/L	0.50 U	1.0	0.50	11/21/17 11:28	
Cadmium	ug/L	0.50 U	1.0	0.50	11/21/17 11:28	
Chromium	ug/L	2.5 U	5.0	2.5	11/21/17 11:28	
Cobalt	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Copper	ug/L	2.5 U	5.0	2.5	11/21/17 11:28	
Iron	ug/L	20.0 U	40.0	20.0	11/21/17 11:28	
Lead	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Nickel	ug/L	2.5 U	5.0	2.5	11/21/17 11:28	
Selenium	ug/L	7.5 U	15.0	7.5	11/21/17 11:28	
Silver	ug/L	2.5 U	5.0	2.5	11/21/17 11:28	
Sodium	mg/L	0.50 U	1.0	0.50	11/21/17 11:28	
Vanadium	ug/L	5.0 U	10.0	5.0	11/21/17 11:28	
Zinc	ug/L	10.0 U	20.0	10.0	11/21/17 11:28	

LABORATORY CONTROL SAMPLE: 2208091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	238	95	80-120	
Barium	ug/L	250	271	108	80-120	
Beryllium	ug/L	25	25.7	103	80-120	
Cadmium	ug/L	25	24.7	99	80-120	
Chromium	ug/L	250	251	100	80-120	
Cobalt	ug/L	250	249	99	80-120	
Copper	ug/L	250	254	102	80-120	
Iron	ug/L	2500	2720	109	80-120	
Lead	ug/L	250	250	100	80-120	
Nickel	ug/L	250	249	100	80-120	
Selenium	ug/L	250	237	95	80-120	
Silver	ug/L	25	26.2	105	80-120	
Sodium	mg/L	12.5	13.0	104	80-120	
Vanadium	ug/L	250	250	100	80-120	
Zinc	ug/L	1250	1250	100	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208092 2208093

Parameter	Units	35346923003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.3 I	250	250	268	266	104	103	75-125	1	20	
Barium	ug/L	75.5	250	250	343	311	107	94	75-125	10	20	
Beryllium	ug/L	<0.50	25	25	26.5	25.8	106	103	75-125	3	20	
Cadmium	ug/L	<0.50	25	25	25.4	24.9	102	99	75-125	2	20	
Chromium	ug/L	<2.5	250	250	259	257	103	102	75-125	1	20	
Cobalt	ug/L	<5.0	250	250	259	257	104	103	75-125	1	20	
Copper	ug/L	<2.5	250	250	272	266	108	106	75-125	2	20	
Iron	ug/L	209	2500	2500	2980	2890	111	107	75-125	3	20	
Lead	ug/L	<5.0	250	250	254	256	102	103	75-125	1	20	
Nickel	ug/L	<2.5	250	250	259	256	103	102	75-125	1	20	
Selenium	ug/L	9.6 I	250	250	261	255	101	98	75-125	2	20	
Silver	ug/L	<2.5	25	25	27.2	26.6	109	106	75-125	2	20	
Sodium	mg/L	60.5	12.5	12.5	72.6	71.7	97	90	75-125	1	20	
Vanadium	ug/L	<5.0	250	250	264	260	105	103	75-125	2	20	
Zinc	ug/L	<10.0	1250	1250	1310	1300	105	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

QC Batch: 404469 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35346754001, 35346754002, 35346754003

METHOD BLANK: 2208128 | Matrix: Water
Associated Lab Samples: 35346754001, 35346754002, 35346754003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/10/17 17:42	
Thallium	ug/L	0.50 U	1.0	0.50	11/10/17 17:42	

LABORATORY CONTROL SAMPLE: 2208129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.2	102	80-120	
Thallium	ug/L	50	53.6	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208130 2208131

Parameter	Units	35346751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	51.6	49.8	103	99	75-125	3	20	
Thallium	ug/L	0.50 U	50	50	54.2	53.5	108	107	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

QC Batch: 406620 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35346754001, 35346754002, 35346754003

METHOD BLANK: 2220502 Matrix: Water
Associated Lab Samples: 35346754001, 35346754002, 35346754003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/18/17 22:57	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/18/17 22:57	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/18/17 22:57	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/18/17 22:57	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/18/17 22:57	
Acetone	ug/L	10.0 U	20.0	10.0	11/18/17 22:57	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/18/17 22:57	
Benzene	ug/L	0.10 U	1.0	0.10	11/18/17 22:57	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/18/17 22:57	
Bromoform	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/18/17 22:57	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/18/17 22:57	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/18/17 22:57	
Chloroform	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/18/17 22:57	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/18/17 22:57	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/18/17 22:57	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/18/17 22:57	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/18/17 22:57	
Styrene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Toluene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/18/17 22:57	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/18/17 22:57	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

METHOD BLANK: 2220502 Matrix: Water
Associated Lab Samples: 35346754001, 35346754002, 35346754003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/18/17 22:57	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/18/17 22:57	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/18/17 22:57	
1,2-Dichloroethane-d4 (S)	%	105	75-135		11/18/17 22:57	
4-Bromofluorobenzene (S)	%	102	89-111		11/18/17 22:57	
Toluene-d8 (S)	%	102	89-112		11/18/17 22:57	

LABORATORY CONTROL SAMPLE: 2220503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	101	70-130	
1,1,1-Trichloroethane	ug/L	20	19.0	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	95	70-130	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethene	ug/L	20	16.7	84	65-134	
1,2,3-Trichloropropane	ug/L	20	19.7	98	65-135	
1,2-Dichlorobenzene	ug/L	20	18.6	93	70-130	
1,2-Dichloroethane	ug/L	20	18.9	95	70-130	
1,2-Dichloropropane	ug/L	20	18.4	92	70-130	
1,4-Dichlorobenzene	ug/L	20	18.4	92	70-130	
2-Butanone (MEK)	ug/L	40	42.6	106	61-129	
2-Hexanone	ug/L	40	45.0	113	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	46.1	115	70-130	
Acetone	ug/L	40	39.8	100	44-155	
Acrylonitrile	ug/L	200	217	108	59-138	
Benzene	ug/L	20	18.7	93	70-130	
Bromochloromethane	ug/L	20	21.0	105	70-130	
Bromodichloromethane	ug/L	20	17.9	89	70-130	
Bromoform	ug/L	20	23.1	115	62-129	
Bromomethane	ug/L	20	19.9	100	10-179	
Carbon disulfide	ug/L	20	21.1	106	40-156	
Carbon tetrachloride	ug/L	20	19.2	96	66-127	
Chlorobenzene	ug/L	20	19.3	97	70-130	
Chloroethane	ug/L	20	14.5	73	57-142	
Chloroform	ug/L	20	18.3	91	70-130	
Chloromethane	ug/L	20	27.9	139	45-150	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.9	90	70-130	
Dibromochloromethane	ug/L	20	20.9	105	70-130	
Dibromomethane	ug/L	20	20.1	101	70-130	
Ethylbenzene	ug/L	20	18.4	92	70-130	
Iodomethane	ug/L	40	87.4	219	21-150	J(L1)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

LABORATORY CONTROL SAMPLE: 2220503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.1	96	65-127	
Styrene	ug/L	20	20.9	105	70-130	
Tetrachloroethene	ug/L	20	20.8	104	48-155	
Toluene	ug/L	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.4	87	68-126	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.0	80	46-138	
Trichloroethene	ug/L	20	19.0	95	69-129	
Trichlorofluoromethane	ug/L	20	17.6	88	60-144	
Vinyl acetate	ug/L	20	23.0	115	70-130	
Vinyl chloride	ug/L	20	17.3	86	67-136	
Xylene (Total)	ug/L	60	59.0	98	70-130	
1,2-Dichloroethane-d4 (S)	%			98	75-135	
4-Bromofluorobenzene (S)	%			109	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 2220968

Parameter	Units	35346754003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	20.7	103	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20.2	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.9	89	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.9	100	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	18.9	94	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.8	94	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.6	88	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.9	93	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	18.2	91	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	18.0	90	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	37.7	94	61-129	
2-Hexanone	ug/L	5.0 U	40	34.9	87	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	35.7	89	70-130	
Acetone	ug/L	10.0 U	40	29.5	74	44-155	
Acrylonitrile	ug/L	5.0 U	200	192	96	59-138	
Benzene	ug/L	0.10 U	20	19.2	96	70-130	
Bromochloromethane	ug/L	0.50 U	20	20.7	103	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.3	91	70-130	
Bromoform	ug/L	0.50 U	20	20.3	101	62-129	
Bromomethane	ug/L	0.50 U	20	23.0	115	10-179	
Carbon disulfide	ug/L	5.0 U	20	19.5	97	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	21.1	106	66-127	
Chlorobenzene	ug/L	0.50 U	20	19.8	99	70-130	
Chloroethane	ug/L	0.50 U	20	19.9	99	57-142	
Chloroform	ug/L	0.50 U	20	18.7	94	70-130	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

MATRIX SPIKE SAMPLE: 2220968

Parameter	Units	35346754003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	22.2	111	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	17.6	88	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.4	82	70-130	
Dibromochloromethane	ug/L	0.26 U	20	19.5	98	70-130	
Dibromomethane	ug/L	0.50 U	20	20.0	100	70-130	
Ethylbenzene	ug/L	0.50 U	20	19.0	95	70-130	
Iodomethane	ug/L	0.50 U	40	46.0	115	21-150	
Methylene Chloride	ug/L	2.5 U	20	18.0	89	65-127	
Styrene	ug/L	0.50 U	20	20.0	100	70-130	
Tetrachloroethene	ug/L	0.50 U	20	20.9	105	48-155	
Toluene	ug/L	0.50 U	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.8	89	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	18.3	92	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.9	74	46-138	
Trichloroethene	ug/L	0.50 U	20	20.5	102	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	20.3	101	60-144	
Vinyl acetate	ug/L	1.0 U	20	17.1	85	70-130	
Vinyl chloride	ug/L	0.50 U	20	17.6	88	67-136	
Xylene (Total)	ug/L	1.5 U	60	59.7	100	70-130	
1,2-Dichloroethane-d4 (S)	%				102	75-135	
4-Bromofluorobenzene (S)	%				109	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2220967

Parameter	Units	35346754002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

SAMPLE DUPLICATE: 2220967

Parameter	Units	35346754002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	104	105	1	40	
4-Bromofluorobenzene (S)	%	102	103	1	40	
Toluene-d8 (S)	%	101	101	0	40	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35346754

QC Batch: 404379 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35346754001, 35346754002, 35346754003

METHOD BLANK: 2207399 | Matrix: Water
Associated Lab Samples: 35346754001, 35346754002, 35346754003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/17/17 15:13	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/17/17 15:13	

LABORATORY CONTROL SAMPLE: 2207400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.21	83	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.20	78	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208305 2208306

Parameter	Units	35346717003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.54	0.55	123	124	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.50	0.53	114	119	60-140	4	40	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery GWM
Pace Project No.: 35346754

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GWM
Pace Project No.: 35346754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35346754001	**2MW-6**	EPA 8011	404379	EPA 8011	405147
35346754002	**2MW-2**	EPA 8011	404379	EPA 8011	405147
35346754003	**4MW-14D**	EPA 8011	404379	EPA 8011	405147
35346754001	**2MW-6**	EPA 3010	404465	EPA 6010	404501
35346754002	**2MW-2**	EPA 3010	404465	EPA 6010	404501
35346754003	**4MW-14D**	EPA 3010	404465	EPA 6010	404501
35346754001	**2MW-6**	EPA 3010	404469	EPA 6020	404504
35346754002	**2MW-2**	EPA 3010	404469	EPA 6020	404504
35346754003	**4MW-14D**	EPA 3010	404469	EPA 6020	404504
35346754001	**2MW-6**	EPA 7470	405700	EPA 7470	405824
35346754002	**2MW-2**	EPA 7470	405700	EPA 7470	405824
35346754003	**4MW-14D**	EPA 7470	405700	EPA 7470	405824
35346754001	**2MW-6**	EPA 8260	406620		
35346754002	**2MW-2**	EPA 8260	406620		
35346754003	**4MW-14D**	EPA 8260	406620		

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WO#: 35346754

35346754

CHAIN OF CUSTODY RECORD

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

FOR LAB USE ONLY
Temp. of Contents: 7.9 ° C (or Received on Ice, ROI) Condition of Contents:

LOG IN NO.

1. Client: (Company or Individual): Pasco Co. ENV. LAB.
Address:
City: State Zip Code
Phone: ( )
Fax: ( )

2. Report to: (if different from above): Candia Mulhern
Address:
City State Zip Code
Phone: ( )
Fax: ( )

3. Client Project Name: Resource Recovery GWM

4. Sampled by: (Print) MARIAN BERNAL

5. Sampled by: (Signature) Marian Bernal

6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

12. 13. Preservatives: N, H, C
14. Containers: P, V, V

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	No. of Containers	15. Analyses Requested: Metals Fe Hg Na	8260	App. I 8011						16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.		2MW-6	11-7-17	1222		✓	GW					6	✓	✓	✓							
2.		2MW-2	11-7-17	1355		✓	GW					6	✓	✓	✓							
3.		4MW-14D	11-7-17	1533		✓	GW					6	✓	✓	✓							
4.																					Sent to	
5.																					PACE	
6.																					11/8/17	
7.																						
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian Bernal	11-7-17	1633	TS	11-7-17	1633
2. [illegible]	11/8/17	1240	OM	11-8-17	1240
3. OM	11-8-17	1340	[illegible] / PACE	11-8-17	1340
4.				T203 1.6	

HR Gun 170477691

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35346754

Project Manager: PM: VEG Due Date: 11/22/17

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label: 11/8/17
Deliver:
pH:

Thermometer Used: T-203 Date: 11-8-17 Time: 1350 Initials: LQM

State of Origin: FL

Cooler #1 Temp.°C 1.6 **(Visual)** 0.0 **(Correction Factor)** 1.6 **(Actual)** ☑ Samples on ice, cooling process has begun

Cooler #2 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #3 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #4 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #5 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #6 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other_____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other_____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Samples shorted to lab (If Yes, complete) Shorted Date:_____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative:_____ Lot #/Trace #:_____ Date:_____ Time:_____ Initials:_____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☐ Yes ☑ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 30, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GWM
Pace Project No.: 35347483

Dear Ms. Mulhern:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project:	Resource Recovery GWM
Pace Project No.:	35347483

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Resource Recovery GWM
Pace Project No.: 35347483

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35347483001	**2MW-17S**	Water	11/08/17 09:57	11/08/17 15:05
35347483002	**2MW-19D**	Water	11/08/17 11:37	11/08/17 15:05

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SAMPLE ANALYTE COUNT

Project: Resource Recovery GWM
Pace Project No.: 35347483

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35347483001	**2MW-17S**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	SK1	48	PASI-O
35347483002	**2MW-19D**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS	15	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	SK1	48	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35347483

Sample: 2MW-17S **Lab ID: 35347483001** Collected: 11/08/17 09:57 Received: 11/08/17 15:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/14/17 10:50	11/18/17 11:20	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/14/17 10:50	11/18/17 11:20	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:19	7440-38-2	
Barium	**14.6**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:19	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/10/17 15:04	11/16/17 00:19	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/10/17 15:04	11/16/17 00:19	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/10/17 15:04	11/16/17 00:19	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:19	7440-48-4	
Copper	**5.1**	ug/L	5.0	2.5	1	11/10/17 15:04	11/16/17 00:19	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/10/17 15:04	11/16/17 00:19	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:19	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/10/17 15:04	11/16/17 00:19	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/10/17 15:04	11/16/17 00:19	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/10/17 15:04	11/16/17 00:19	7440-22-4	
Sodium	**4.8**	mg/L	1.0	0.50	1	11/10/17 15:04	11/16/17 00:19	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:19	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/10/17 15:04	11/16/17 00:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 13:49	11/16/17 16:44	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/20/17 00:47	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 00:47	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/20/17 00:47	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/20/17 00:47	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/20/17 00:47	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 00:47	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 00:47	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/20/17 00:47	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/20/17 00:47	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/20/17 00:47	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 00:47	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35347483

Sample: 2MW-17S **Lab ID: 35347483001** Collected: 11/08/17 09:57 Received: 11/08/17 15:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/20/17 00:47	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/20/17 00:47	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 00:47	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/20/17 00:47	74-88-4	J(L1)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/20/17 00:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 00:47	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/20/17 00:47	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/20/17 00:47	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/20/17 00:47	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 00:47	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/20/17 00:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	89-111		1		11/20/17 00:47	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		11/20/17 00:47	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		11/20/17 00:47	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35347483

Sample: 2MW-19D **Lab ID: 35347483002** Collected: 11/08/17 11:37 Received: 11/08/17 15:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/14/17 10:50	11/18/17 11:49	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/14/17 10:50	11/18/17 11:49	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:24	7440-38-2	
Barium	**10.7**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:24	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/10/17 15:04	11/16/17 00:24	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/10/17 15:04	11/16/17 00:24	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/10/17 15:04	11/16/17 00:24	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:24	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/10/17 15:04	11/16/17 00:24	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/10/17 15:04	11/16/17 00:24	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:24	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	11/10/17 15:04	11/16/17 00:24	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/10/17 15:04	11/16/17 00:24	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/10/17 15:04	11/16/17 00:24	7440-22-4	
Sodium	**8.0**	mg/L	1.0	0.50	1	11/10/17 15:04	11/16/17 00:24	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/10/17 15:04	11/16/17 00:24	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/10/17 15:04	11/16/17 00:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/17 13:49	11/16/17 16:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/20/17 01:35	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 01:35	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/20/17 01:35	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/20/17 01:35	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/20/17 01:35	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 01:35	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 01:35	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/20/17 01:35	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/20/17 01:35	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/20/17 01:35	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 01:35	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35347483

Sample: 2MW-19D **Lab ID: 35347483002** Collected: 11/08/17 11:37 Received: 11/08/17 15:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/20/17 01:35	10061-01-5	J(M1)
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/20/17 01:35	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 01:35	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/20/17 01:35	74-88-4	J(L1), J(M0)
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/20/17 01:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/20/17 01:35	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/20/17 01:35	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/20/17 01:35	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/20/17 01:35	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/20/17 01:35	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/20/17 01:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	89-111		1		11/20/17 01:35	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		11/20/17 01:35	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		11/20/17 01:35	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

QC Batch: 405702 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35347483001, 35347483002

METHOD BLANK: 2215144 | Matrix: Water
Associated Lab Samples: 35347483001, 35347483002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/16/17 14:34	

LABORATORY CONTROL SAMPLE: 2215145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	1.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2215146 2215147

Parameter	Units	35346902006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.5	1.8	72	88	75-125	20	20	J(M1)

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REPORT OF LABORATORY ANALYSIS

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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

QC Batch: 404792 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35347483001, 35347483002

METHOD BLANK: 2210256 | Matrix: Water
Associated Lab Samples: 35347483001, 35347483002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/15/17 12:04	
Barium	ug/L	5.0 U	10.0	5.0	11/15/17 12:04	
Beryllium	ug/L	0.50 U	1.0	0.50	11/15/17 12:04	
Cadmium	ug/L	0.50 U	1.0	0.50	11/15/17 12:04	
Chromium	ug/L	2.5 U	5.0	2.5	11/15/17 12:04	
Cobalt	ug/L	5.0 U	10.0	5.0	11/15/17 12:04	
Copper	ug/L	2.5 U	5.0	2.5	11/15/17 12:04	
Iron	ug/L	20.0 U	40.0	20.0	11/15/17 12:04	
Lead	ug/L	5.0 U	10.0	5.0	11/15/17 12:04	
Nickel	ug/L	2.5 U	5.0	2.5	11/15/17 12:04	
Selenium	ug/L	7.5 U	15.0	7.5	11/15/17 12:04	
Silver	ug/L	2.5 U	5.0	2.5	11/15/17 12:04	
Sodium	mg/L	0.50 U	1.0	0.50	11/15/17 12:04	
Vanadium	ug/L	5.0 U	10.0	5.0	11/15/17 12:04	
Zinc	ug/L	10.0 U	20.0	10.0	11/15/17 12:04	

LABORATORY CONTROL SAMPLE: 2210257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	254	102	80-120	
Barium	ug/L	250	258	103	80-120	
Beryllium	ug/L	25	26.1	104	80-120	
Cadmium	ug/L	25	26.2	105	80-120	
Chromium	ug/L	250	258	103	80-120	
Cobalt	ug/L	250	266	106	80-120	
Copper	ug/L	250	262	105	80-120	
Iron	ug/L	2500	2640	106	80-120	
Lead	ug/L	250	269	108	80-120	
Nickel	ug/L	250	265	106	80-120	
Selenium	ug/L	250	267	107	80-120	
Silver	ug/L	25	26.4	106	80-120	
Sodium	mg/L	12.5	12.7	102	80-120	
Vanadium	ug/L	250	256	102	80-120	
Zinc	ug/L	1250	1320	106	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2210258 2210259

Parameter	Units	35347050001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	5.0 U	250	250	236	254	94	101	75-125	7	20	
Barium	ug/L	17.8	250	250	280	277	105	104	75-125	1	20	
Beryllium	ug/L	0.50 U	25	25	24.7	26.2	99	105	75-125	6	20	
Cadmium	ug/L	0.50 U	25	25	23.7	25.3	95	101	75-125	7	20	
Chromium	ug/L	2.5 U	250	250	243	260	97	103	75-125	6	20	
Cobalt	ug/L	5.0 U	250	250	245	263	98	105	75-125	7	20	
Copper	ug/L	2.5 U	250	250	251	266	100	106	75-125	6	20	
Iron	ug/L	527	2500	2500	3180	3150	106	105	75-125	1	20	
Lead	ug/L	5.0 U	250	250	244	263	98	105	75-125	8	20	
Nickel	ug/L	2.5 U	250	250	246	264	98	105	75-125	7	20	
Selenium	ug/L	7.5 U	250	250	243	262	97	105	75-125	8	20	
Silver	ug/L	2.5 U	25	25	24.0	25.7	96	103	75-125	7	20	
Sodium	mg/L	45200 ug/L	12.5	12.5	57.9	56.6	101	91	75-125	2	20	
Vanadium	ug/L	5.0 U	250	250	247	261	97	103	75-125	6	20	
Zinc	ug/L	10.0 U	1250	1250	1240	1320	98	105	75-125	7	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

QC Batch: 406713 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35347483001, 35347483002

METHOD BLANK: 2220993 | Matrix: Water
Associated Lab Samples: 35347483001, 35347483002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/19/17 21:33	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/19/17 21:33	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/19/17 21:33	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/19/17 21:33	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/19/17 21:33	
Acetone	ug/L	10.0 U	20.0	10.0	11/19/17 21:33	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/19/17 21:33	
Benzene	ug/L	0.10 U	1.0	0.10	11/19/17 21:33	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/19/17 21:33	
Bromoform	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/19/17 21:33	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/19/17 21:33	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/19/17 21:33	
Chloroform	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/19/17 21:33	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/19/17 21:33	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/19/17 21:33	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/19/17 21:33	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/19/17 21:33	
Styrene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Toluene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/19/17 21:33	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/19/17 21:33	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

METHOD BLANK: 2220993 Matrix: Water
Associated Lab Samples: 35347483001, 35347483002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/19/17 21:33	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/19/17 21:33	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/19/17 21:33	
1,2-Dichloroethane-d4 (S)	%	105	75-135		11/19/17 21:33	
4-Bromofluorobenzene (S)	%	101	89-111		11/19/17 21:33	
Toluene-d8 (S)	%	102	89-112		11/19/17 21:33	

LABORATORY CONTROL SAMPLE: 2220994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.4	107	70-130	
1,1,1-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	70-130	
1,1,2-Trichloroethane	ug/L	20	20.5	103	70-130	
1,1-Dichloroethane	ug/L	20	18.9	94	70-130	
1,1-Dichloroethene	ug/L	20	18.3	91	65-134	
1,2,3-Trichloropropane	ug/L	20	19.9	100	65-135	
1,2-Dichlorobenzene	ug/L	20	18.6	93	70-130	
1,2-Dichloroethane	ug/L	20	19.5	98	70-130	
1,2-Dichloropropane	ug/L	20	19.1	96	70-130	
1,4-Dichlorobenzene	ug/L	20	18.7	93	70-130	
2-Butanone (MEK)	ug/L	40	45.8	115	61-129	
2-Hexanone	ug/L	40	45.4	114	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	45.6	114	70-130	
Acetone	ug/L	40	43.5	109	44-155	
Acrylonitrile	ug/L	200	205	102	59-138	
Benzene	ug/L	20	19.6	98	70-130	
Bromochloromethane	ug/L	20	20.3	101	70-130	
Bromodichloromethane	ug/L	20	18.3	92	70-130	
Bromoform	ug/L	20	21.3	107	62-129	
Bromomethane	ug/L	20	35.6	178	10-179	
Carbon disulfide	ug/L	20	20.9	104	40-156	
Carbon tetrachloride	ug/L	20	19.8	99	66-127	
Chlorobenzene	ug/L	20	20.1	101	70-130	
Chloroethane	ug/L	20	18.7	94	57-142	
Chloroform	ug/L	20	18.7	93	70-130	
Chloromethane	ug/L	20	25.7	128	45-150	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.0	95	70-130	
Dibromochloromethane	ug/L	20	19.9	100	70-130	
Dibromomethane	ug/L	20	22.0	110	70-130	
Ethylbenzene	ug/L	20	19.4	97	70-130	
Iodomethane	ug/L	40	84.1	210	21-150	J(L1)

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

LABORATORY CONTROL SAMPLE: 2220994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	20.3	101	65-127	
Styrene	ug/L	20	21.4	107	70-130	
Tetrachloroethene	ug/L	20	21.6	108	48-155	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	18.5	93	46-138	
Trichloroethene	ug/L	20	20.7	104	69-129	
Trichlorofluoromethane	ug/L	20	19.1	96	60-144	
Vinyl acetate	ug/L	20	22.6	113	70-130	
Vinyl chloride	ug/L	20	18.3	92	67-136	
Xylene (Total)	ug/L	60	60.8	101	70-130	
1,2-Dichloroethane-d4 (S)	%			100	75-135	
4-Bromofluorobenzene (S)	%			107	89-111	
Toluene-d8 (S)	%			101	89-112	

MATRIX SPIKE SAMPLE: 2221910

Parameter	Units	35347483002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	16.3	82	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	17.0	85	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	15.0	75	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	16.7	83	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	16.7	83	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	15.9	80	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	14.9	75	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	14.3	72	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.0	80	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	15.4	77	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	14.8	74	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	34.8	87	61-129	
2-Hexanone	ug/L	5.0 U	40	35.6	89	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	36.1	90	70-130	
Acetone	ug/L	10.0 U	40	32.6	82	44-155	
Acrylonitrile	ug/L	5.0 U	200	199	100	59-138	
Benzene	ug/L	0.10 U	20	15.9	79	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.1	91	70-130	
Bromodichloromethane	ug/L	0.27 U	20	15.1	75	70-130	
Bromoform	ug/L	0.50 U	20	16.8	84	62-129	
Bromomethane	ug/L	0.50 U	20	24.1	121	10-179	
Carbon disulfide	ug/L	5.0 U	20	19.7	98	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	17.7	88	66-127	
Chlorobenzene	ug/L	0.50 U	20	16.2	81	70-130	
Chloroethane	ug/L	0.50 U	20	18.2	91	57-142	
Chloroform	ug/L	0.50 U	20	16.2	81	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

MATRIX SPIKE SAMPLE: 2221910

Parameter	Units	35347483002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	22.4	112	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	15.0	75	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.8	69	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	15.7	78	70-130	
Dibromomethane	ug/L	0.50 U	20	17.2	86	70-130	
Ethylbenzene	ug/L	0.50 U	20	15.3	76	70-130	
Iodomethane	ug/L	0.50 U	40	60.6	152	21-150	J(M0)
Methylene Chloride	ug/L	2.5 U	20	15.5	76	65-127	
Styrene	ug/L	0.50 U	20	16.3	81	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.0	85	48-155	
Toluene	ug/L	0.50 U	20	16.0	80	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	15.4	77	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	15.1	75	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	15.7	79	46-138	
Trichloroethene	ug/L	0.50 U	20	17.0	85	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	16.0	80	60-144	
Vinyl acetate	ug/L	1.0 U	20	17.1	85	70-130	
Vinyl chloride	ug/L	0.50 U	20	15.2	76	67-136	
Xylene (Total)	ug/L	1.5 U	60	47.0	78	70-130	
1,2-Dichloroethane-d4 (S)	%				101	75-135	
4-Bromofluorobenzene (S)	%				107	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2221909

Parameter	Units	35347483001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

SAMPLE DUPLICATE: 2221909

Parameter	Units	35347483001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	106	107	0	40	
4-Bromofluorobenzene (S)	%	104	102	2	40	
Toluene-d8 (S)	%	100	104	4	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35347483

QC Batch: 405266 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35347483001, 35347483002

METHOD BLANK: 2212852 | Matrix: Water
Associated Lab Samples: 35347483001, 35347483002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/18/17 07:54	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/18/17 07:54	

LABORATORY CONTROL SAMPLE: 2212853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.26	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	99	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2212854 2212855

Parameter	Units	35347605006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0061 U	.44	.44	0.49	0.47	111	106	60-140	4	40	
1,2-Dibromoethane (EDB)	ug/L	0.0071 U	.44	.44	0.48	0.46	109	104	60-140	4	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Resource Recovery GWM
Pace Project No.: 35347483

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GWM
Pace Project No.: 35347483

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35347483001	**2MW-17S**	EPA 8011	405266	EPA 8011	405534
35347483002	**2MW-19D**	EPA 8011	405266	EPA 8011	405534
35347483001	**2MW-17S**	EPA 3010	404792	EPA 6010	404990
35347483002	**2MW-19D**	EPA 3010	404792	EPA 6010	404990
35347483001	**2MW-17S**	EPA 7470	405702	EPA 7470	405863
35347483002	**2MW-19D**	EPA 7470	405702	EPA 7470	405863
35347483001	**2MW-17S**	EPA 8260	406713		
35347483002	**2MW-19D**	EPA 8260	406713		

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WO# : 35347483

35347483

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF C

FOR LAB USE ONLY
Temp. of Contents: _____ ° C (or Received on Ice (ROI))
Condition of Contents: _____

FOR LAB USE ONLY
LOG IN NO.

1. Client: (Company or Individual): Pasco Co. ENV. LAB
Address:
City: State Zip Code
Phone: ( )
Fax: ( )

2. Report to: (if different from above): Cardia Mulhern
Address:
City State Zip Code
Phone: ( )
Fax: ( )

3. Client Project Name: Resource Recovery GWM
4. Sampled by: (Print): Marian Bernal
5. Sampled by: (Signature): Marian Bernal
6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	12. No. of Containers	15. Analyses Requested: Metals Fe, Hg, Na	8260	8011						16. REMARK	For Lab Use Only LAB SAMPLE NO.
												13. Preservatives	N		H	C						
												14. Containers	P		V	V						
1.		2MW-17S	11-8-17	0957		✓	GW					6	✓	✓	✓							
2.		2MW-19D	11-8-17	1137		✓	GW					6	✓	✓	✓							
3.																					Sent TO	
4.																					PACE 11-9-17	
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						

17.	RELINQUISHED BY	DATE	TIME	18.	RECEIVED BY	DATE	TIME
1.	Marian Bernal	11-08-17	1613		Samuel [illegible]	11-08-17	~~1638~~ 1613 KS 11/9/17
2.	KS	11-9-17	1355		[illegible]	11-9-17	1355
3.	[illegible]	11-9-17	1505		[illegible] / PACE	11-9-17	1505
4.	[illegible] / PACE	11-9-17	2000		[illegible]	11-9-17	2000
					[illegible] / Pace	11/9/17	2330

1.3 1.9 1.3°C T301

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

WO#: 35347483

Project #

Project Manager: PM: VEG **Due Date:** 11/22/17

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: TOM
pH: _____

Thermometer Used: T301 Date: 11/9/17 Time: 2330 Initials: AS

State of Origin: _____

Cooler #1 Temp.°C	1.2 (Visual)	+.1 (Correction Factor)	1.3 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No **Seals intact:** ☐ Yes ☐ No **Ice:** Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked. All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A ☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☐ Yes ☑ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 29, 2017

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Resource Recovery GWM
Pace Project No.: 35348452

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Resource Recovery GWM
Pace Project No.:	35348452

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Resource Recovery GWM
Pace Project No.: 35348452

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35348452001	**2 MW 24D**	Water	11/13/17 13:22	11/15/17 14:35
35348452002	**2 MW 24S**	Water	11/13/17 14:12	11/15/17 14:35

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SAMPLE ANALYTE COUNT

Project: Resource Recovery GWM
Pace Project No.: 35348452

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35348452001	**2 MW 24D**	EPA 8011	SMH	2	PASI-O
		EPA 6010	MMT	15	PASI-O
		EPA 6020	CRT	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
35348452002	**2 MW 24S**	EPA 8011	SMH	2	PASI-O
		EPA 6010	MMT	15	PASI-O
		EPA 6020	CRT	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35348452

Sample: 2 MW 24D **Lab ID: 35348452001** Collected: 11/13/17 13:22 Received: 11/15/17 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/20/17 11:52	11/22/17 12:23	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/20/17 11:52	11/22/17 12:23	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:07	7440-38-2	
Barium	**18.6**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:07	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/20/17 21:48	11/27/17 16:07	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/20/17 21:48	11/27/17 16:07	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/20/17 21:48	11/27/17 16:07	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:07	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/20/17 21:48	11/27/17 16:07	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	11/20/17 21:48	11/27/17 16:07	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:07	7439-92-1	
Nickel	**2.8 I**	ug/L	5.0	2.5	1	11/20/17 21:48	11/27/17 16:07	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/20/17 21:48	11/27/17 16:07	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/20/17 21:48	11/27/17 16:07	7440-22-4	
Sodium	**25.6**	mg/L	1.0	0.50	1	11/20/17 21:48	11/27/17 16:07	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:07	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/20/17 21:48	11/27/17 16:07	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/20/17 21:48	11/21/17 18:51	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/20/17 21:48	11/21/17 18:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/17 09:48	11/29/17 16:20	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/25/17 14:28	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 14:28	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/25/17 14:28	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/25/17 14:28	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/25/17 14:28	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 14:28	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 14:28	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/25/17 14:28	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/25/17 14:28	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/25/17 14:28	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	95-50-1	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35348452

Sample: 2 MW 24D **Lab ID: 35348452001** Collected: 11/13/17 13:22 Received: 11/15/17 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 14:28	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/25/17 14:28	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/25/17 14:28	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 14:28	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/25/17 14:28	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/25/17 14:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 14:28	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/25/17 14:28	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/25/17 14:28	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/25/17 14:28	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 14:28	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/25/17 14:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	89-111		1		11/25/17 14:28	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		11/25/17 14:28	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		11/25/17 14:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35348452

Sample: 2 MW 24S **Lab ID: 35348452002** Collected: 11/13/17 14:12 Received: 11/15/17 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0065 U**	ug/L	0.020	0.0065	1	11/20/17 11:52	11/22/17 12:38	96-12-8	
1,2-Dibromoethane (EDB)	**0.0077 U**	ug/L	0.010	0.0077	1	11/20/17 11:52	11/22/17 12:38	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:12	7440-38-2	
Barium	**27.9**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:12	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	11/20/17 21:48	11/27/17 16:12	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	11/20/17 21:48	11/27/17 16:12	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	11/20/17 21:48	11/27/17 16:12	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:12	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	11/20/17 21:48	11/27/17 16:12	7440-50-8	
Iron	**45.1**	ug/L	40.0	20.0	1	11/20/17 21:48	11/27/17 16:12	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:12	7439-92-1	
Nickel	**2.8 I**	ug/L	5.0	2.5	1	11/20/17 21:48	11/27/17 16:12	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	11/20/17 21:48	11/27/17 16:12	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	11/20/17 21:48	11/27/17 16:12	7440-22-4	
Sodium	**6.4**	mg/L	1.0	0.50	1	11/20/17 21:48	11/27/17 16:12	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	11/20/17 21:48	11/27/17 16:12	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	11/20/17 21:48	11/27/17 16:12	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/20/17 21:48	11/21/17 18:54	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/20/17 21:48	11/21/17 18:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.87**	ug/L	0.20	0.10	1	11/29/17 09:48	11/29/17 16:22	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/25/17 15:16	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 15:16	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/25/17 15:16	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/25/17 15:16	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/25/17 15:16	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 15:16	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 15:16	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/25/17 15:16	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/25/17 15:16	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	0.50	0.26	1		11/25/17 15:16	124-48-1	
Dibromomethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery GWM
Pace Project No.: 35348452

Sample: 2 MW 24S **Lab ID: 35348452002** Collected: 11/13/17 14:12 Received: 11/15/17 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 15:16	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/25/17 15:16	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/25/17 15:16	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 15:16	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/25/17 15:16	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/25/17 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/25/17 15:16	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/25/17 15:16	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	1.0	0.59	1		11/25/17 15:16	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/25/17 15:16	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/25/17 15:16	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/25/17 15:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		11/25/17 15:16	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	75-135		1		11/25/17 15:16	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		11/25/17 15:16	2037-26-5	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

QC Batch: 408506 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35348452001, 35348452002

METHOD BLANK: 2229576 | Matrix: Water
Associated Lab Samples: 35348452001, 35348452002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/29/17 16:03	

LABORATORY CONTROL SAMPLE: 2229577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.2	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2229578 2229579

Parameter	Units	35348450003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.1	2.1	106	107	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

QC Batch: 407039 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35348452001, 35348452002

METHOD BLANK: 2222286 | Matrix: Water
Associated Lab Samples: 35348452001, 35348452002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	11/27/17 15:04	
Barium	ug/L	5.0 U	10.0	5.0	11/27/17 15:04	
Beryllium	ug/L	0.50 U	1.0	0.50	11/27/17 15:04	
Cadmium	ug/L	0.50 U	1.0	0.50	11/27/17 15:04	
Chromium	ug/L	2.5 U	5.0	2.5	11/27/17 15:04	
Cobalt	ug/L	5.0 U	10.0	5.0	11/27/17 15:04	
Copper	ug/L	2.5 U	5.0	2.5	11/27/17 15:04	
Iron	ug/L	20.0 U	40.0	20.0	11/27/17 15:04	
Lead	ug/L	5.0 U	10.0	5.0	11/27/17 15:04	
Nickel	ug/L	2.5 U	5.0	2.5	11/27/17 15:04	
Selenium	ug/L	7.5 U	15.0	7.5	11/27/17 15:04	
Silver	ug/L	2.5 U	5.0	2.5	11/27/17 15:04	
Sodium	mg/L	0.50 U	1.0	0.50	11/27/17 15:04	
Vanadium	ug/L	5.0 U	10.0	5.0	11/27/17 15:04	
Zinc	ug/L	10.0 U	20.0	10.0	11/27/17 15:04	

LABORATORY CONTROL SAMPLE: 2222287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	278	111	80-120	
Barium	ug/L	250	270	108	80-120	
Beryllium	ug/L	25	24.2	97	80-120	
Cadmium	ug/L	25	27.1	108	80-120	
Chromium	ug/L	250	255	102	80-120	
Cobalt	ug/L	250	275	110	80-120	
Copper	ug/L	250	250	100	80-120	
Iron	ug/L	2500	2770	111	80-120	
Lead	ug/L	250	275	110	80-120	
Nickel	ug/L	250	271	108	80-120	
Selenium	ug/L	250	286	114	80-120	
Silver	ug/L	25	26.3	105	80-120	
Sodium	mg/L	12.5	14.3	115	80-120	
Vanadium	ug/L	250	248	99	80-120	
Zinc	ug/L	1250	1340	107	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2222288 2222289

Parameter	Units	35348450002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	5.0 U	250	250	276	284	110	113	75-125	3	20	
Barium	ug/L	5.0 U	250	250	272	279	107	110	75-125	3	20	
Beryllium	ug/L	0.50 U	25	25	24.3	25.1	97	100	75-125	3	20	
Cadmium	ug/L	0.50 U	25	25	26.5	27.7	106	111	75-125	4	20	
Chromium	ug/L	2.5 U	250	250	253	263	101	105	75-125	4	20	
Cobalt	ug/L	5.0 U	250	250	271	281	108	112	75-125	4	20	
Copper	ug/L	2.5 U	250	250	251	259	100	103	75-125	3	20	
Iron	ug/L	20.0 U	2500	2500	2740	2810	109	112	75-125	3	20	
Lead	ug/L	5.0 U	250	250	272	281	109	112	75-125	3	20	
Nickel	ug/L	2.5 U	250	250	268	277	106	110	75-125	4	20	
Selenium	ug/L	7.5 U	250	250	284	289	113	115	75-125	2	20	
Silver	ug/L	2.5 U	25	25	25.6	26.4	102	106	75-125	3	20	
Sodium	mg/L	4.9	12.5	12.5	18.5	18.9	109	112	75-125	2	20	
Vanadium	ug/L	5.0 U	250	250	250	257	99	102	75-125	3	20	
Zinc	ug/L	10.0 U	1250	1250	1330	1370	106	110	75-125	3	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

QC Batch: 407037 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35348452001, 35348452002

METHOD BLANK: 2222282 | Matrix: Water
Associated Lab Samples: 35348452001, 35348452002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/21/17 18:21	
Thallium	ug/L	0.50 U	1.0	0.50	11/21/17 18:21	

LABORATORY CONTROL SAMPLE: 2222283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	54.7	109	80-120	
Thallium	ug/L	50	53.2	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2222284 2222285

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	54.6	53.6	109	107	75-125	2	20	
Thallium	ug/L	0.50 U	50	50	53.1	53.6	106	107	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

QC Batch: 407745 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35348452001, 35348452002

METHOD BLANK: 2226043 | Matrix: Water
Associated Lab Samples: 35348452001, 35348452002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/25/17 12:29	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/25/17 12:29	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/25/17 12:29	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/25/17 12:29	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/25/17 12:29	
Acetone	ug/L	10.0 U	20.0	10.0	11/25/17 12:29	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/25/17 12:29	
Benzene	ug/L	0.10 U	1.0	0.10	11/25/17 12:29	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/25/17 12:29	
Bromoform	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/25/17 12:29	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/25/17 12:29	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/25/17 12:29	
Chloroform	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/25/17 12:29	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/25/17 12:29	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/25/17 12:29	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/25/17 12:29	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/25/17 12:29	
Styrene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Toluene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/25/17 12:29	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/25/17 12:29	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

METHOD BLANK: 2226043 Matrix: Water
Associated Lab Samples: 35348452001, 35348452002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/25/17 12:29	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/25/17 12:29	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/25/17 12:29	
1,2-Dichloroethane-d4 (S)	%	100	75-135		11/25/17 12:29	
4-Bromofluorobenzene (S)	%	92	89-111		11/25/17 12:29	
Toluene-d8 (S)	%	105	89-112		11/25/17 12:29	

LABORATORY CONTROL SAMPLE: 2226044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.4	107	70-130	
1,1,1-Trichloroethane	ug/L	20	23.1	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,2-Trichloroethane	ug/L	20	22.6	113	70-130	
1,1-Dichloroethane	ug/L	20	21.8	109	70-130	
1,1-Dichloroethene	ug/L	20	19.0	95	65-134	
1,2,3-Trichloropropane	ug/L	20	22.5	112	65-135	
1,2-Dichlorobenzene	ug/L	20	23.4	117	70-130	
1,2-Dichloroethane	ug/L	20	19.9	100	70-130	
1,2-Dichloropropane	ug/L	20	22.1	110	70-130	
1,4-Dichlorobenzene	ug/L	20	22.2	111	70-130	
2-Butanone (MEK)	ug/L	40	28.9	72	61-129	
2-Hexanone	ug/L	40	36.8	92	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.2	88	70-130	
Acetone	ug/L	40	29.5	74	44-155	
Acrylonitrile	ug/L	200	179	90	59-138	
Benzene	ug/L	20	23.0	115	70-130	
Bromochloromethane	ug/L	20	21.3	107	70-130	
Bromodichloromethane	ug/L	20	21.9	110	70-130	
Bromoform	ug/L	20	24.9	124	62-129	
Bromomethane	ug/L	20	17.1	85	10-179	
Carbon disulfide	ug/L	20	17.8	89	40-156	
Carbon tetrachloride	ug/L	20	23.3	117	66-127	
Chlorobenzene	ug/L	20	20.9	104	70-130	
Chloroethane	ug/L	20	17.2	86	57-142	
Chloroform	ug/L	20	21.2	106	70-130	
Chloromethane	ug/L	20	16.9	85	45-150	
cis-1,2-Dichloroethene	ug/L	20	21.3	107	70-130	
cis-1,3-Dichloropropene	ug/L	20	22.6	113	70-130	
Dibromochloromethane	ug/L	20	23.8	119	70-130	
Dibromomethane	ug/L	20	20.4	102	70-130	
Ethylbenzene	ug/L	20	23.0	115	70-130	
Iodomethane	ug/L	40	31.9	80	21-150	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

LABORATORY CONTROL SAMPLE: 2226044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.5	97	65-127	
Styrene	ug/L	20	22.1	111	70-130	
Tetrachloroethene	ug/L	20	22.1	111	48-155	
Toluene	ug/L	20	22.3	112	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.0	105	68-126	
trans-1,3-Dichloropropene	ug/L	20	23.7	118	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.5	83	46-138	
Trichloroethene	ug/L	20	21.0	105	69-129	
Trichlorofluoromethane	ug/L	20	18.2	91	60-144	
Vinyl acetate	ug/L	20	19.5	98	70-130	
Vinyl chloride	ug/L	20	19.4	97	67-136	
Xylene (Total)	ug/L	60	67.7	113	70-130	
1,2-Dichloroethane-d4 (S)	%			95	75-135	
4-Bromofluorobenzene (S)	%			97	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 2226517

Parameter	Units	35348452002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	18.9	95	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	22.1	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.9	94	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.6	98	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	20.1	101	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	18.3	92	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.9	95	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	20.3	101	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.4	86	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	20.1	100	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	34.0	85	61-129	
2-Hexanone	ug/L	5.0 U	40	40.7	102	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.0	92	70-130	
Acetone	ug/L	10.0 U	40	35.9	90	44-155	
Acrylonitrile	ug/L	5.0 U	200	170	85	59-138	
Benzene	ug/L	0.10 U	20	21.0	105	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.5	92	70-130	
Bromodichloromethane	ug/L	0.27 U	20	19.4	97	70-130	
Bromoform	ug/L	0.50 U	20	21.8	109	62-129	
Bromomethane	ug/L	0.50 U	20	12.5	63	10-179	
Carbon disulfide	ug/L	5.0 U	20	20.3	102	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	22.6	113	66-127	
Chlorobenzene	ug/L	0.50 U	20	19.0	95	70-130	
Chloroethane	ug/L	0.50 U	20	16.1	81	57-142	
Chloroform	ug/L	0.50 U	20	19.1	95	70-130	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

MATRIX SPIKE SAMPLE: 2226517

Parameter	Units	35348452002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	12.7	63	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	19.8	99	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	19.6	98	70-130	
Dibromochloromethane	ug/L	0.26 U	20	20.8	104	70-130	
Dibromomethane	ug/L	0.50 U	20	17.7	88	70-130	
Ethylbenzene	ug/L	0.50 U	20	21.3	106	70-130	
Iodomethane	ug/L	0.50 U	40	29.6	74	21-150	
Methylene Chloride	ug/L	2.5 U	20	16.1	81	65-127	
Styrene	ug/L	0.50 U	20	19.9	99	70-130	
Tetrachloroethene	ug/L	0.50 U	20	20.7	104	48-155	
Toluene	ug/L	0.50 U	20	20.2	101	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	19.4	97	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	20.0	100	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.4	72	46-138	
Trichloroethene	ug/L	0.50 U	20	19.3	97	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	17.6	88	60-144	
Vinyl acetate	ug/L	1.0 U	20	20.5	103	70-130	
Vinyl chloride	ug/L	0.50 U	20	16.3	81	67-136	
Xylene (Total)	ug/L	1.5 U	60	61.9	103	70-130	
1,2-Dichloroethane-d4 (S)	%				95	75-135	
4-Bromofluorobenzene (S)	%				98	89-111	Y
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2226516

Parameter	Units	35348452001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

SAMPLE DUPLICATE: 2226516

Parameter	Units	35348452001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	99	101	2	40	
4-Bromofluorobenzene (S)	%	92	90	2	40	
Toluene-d8 (S)	%	103	107	4	40	

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: Resource Recovery GWM
Pace Project No.: 35348452

QC Batch: 406698 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35348452001, 35348452002

METHOD BLANK: 2220944 | Matrix: Water
Associated Lab Samples: 35348452001, 35348452002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/22/17 06:22	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/22/17 06:22	

LABORATORY CONTROL SAMPLE: 2220945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.20	81	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.19	77	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2221670 2221671

Parameter	Units	35348234001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	<0.0062	.25	.25	0.29	0.30	116	118	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	<0.0073	.25	.25	0.30	0.30	118	119	60-140	1	40	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery GWM
Pace Project No.: 35348452

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
Y	The laboratory analysis was from an improperly preserved sample.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery GWM
Pace Project No.: 35348452

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35348452001	**2 MW 24D**	EPA 8011	406698	EPA 8011	407031
35348452002	**2 MW 24S**	EPA 8011	406698	EPA 8011	407031
35348452001	**2 MW 24D**	EPA 3010	407039	EPA 6010	407070
35348452002	**2 MW 24S**	EPA 3010	407039	EPA 6010	407070
35348452001	**2 MW 24D**	EPA 3010	407037	EPA 6020	407071
35348452002	**2 MW 24S**	EPA 3010	407037	EPA 6020	407071
35348452001	**2 MW 24D**	EPA 7470	408506	EPA 7470	408580
35348452002	**2 MW 24S**	EPA 7470	408506	EPA 7470	408580
35348452001	**2 MW 24D**	EPA 8260	407745		
35348452002	**2 MW 24S**	EPA 8260	407745		

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WO#: 35348452

35348452

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY REC

FOR LAB USE ONLY
Temp. of Contents: 3.9 ° C (or Received on Ice, ROI)
Condition of Contents:
LOG IN NO.:

1. Client: (Company or Individual): Pasco Co. ENV. LAB
Address:
City: State Zip Code
Phone: ( )
Fax: ( )

2. Report to: (if different from above): Candia Mulhern
Address:
City State Zip Code
Phone: ( )
Fax: ( )

3. Client Project Name: Resource Recovery GWM

4. Sampled by: (Print) MARIAN BERNAL

5. Sampled by: (Signature) Marian Bernal

6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	11. Leachate	11. Soil	11. Sludge	11. Other	12. No. of Containers	15. Analyses Requested: Metals Fe, Mn, Na	8260 App I.	8011						16. REMARK	For Lab Use Only LAB SAMPLE NO.
													13. Preservatives	N	H	C						
													14. Containers	P	V	V						
1.		2MW25D	11-13-17	1250		✓	GW														* IN HOUSE ONLY	
2.		2MW24D	11-13-17	1322		✓	GW					6	✓	✓	✓							
3.		2MW24S	11-13-17	1412		✓	GW					6	✓	✓	✓							
4.																					Sent to	
5.																					PACE	
6.																					11/15/17	
7.																						
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian Bernal	11-13-17	1600	Laura Dalton	11-13-17	17:00
2. [illegible]	11/15/17	1330	[illegible]	11-15-17	1330
3. [illegible]	11-15-17	1435	[illegible] / PACE	11-15-17	1435
4.					

TRO3
1.9

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35348452

Project Manager: PM: VEG **Due Date:** 12/01/17

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: LOM
Label:
Deliver: 11-15-17
pH: N/A

Thermometer Used: T-203 Date: 11-15-17 Time: 1440 Initials: LOM

State of Origin: FL

Cooler #1 Temp.°C 1.9	(Visual) 0.0	(Correction Factor) 1.9	(Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Prese
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐ Yes ☑ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☐ Yes ☑ No ☐ N/A	

Preservative Added: 1:1 HNO3
Volume Added: 1.0 mL
Date: 11/15/17 Time: 16:30
Lot Number: PTR-088 By: MJM

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments): SAMPLE 002 METALS pH@ 6
ADDED 1mL HNO3 TO BRING pH<2

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

February 09, 2018

Ms. Candia E. Mulhern
Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

RE: Project: Res recovery GMW
Pace Project No.: 35369844

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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CERTIFICATIONS

Project: Res recovery GMW
Pace Project No.: 35369844

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Res recovery GMW
Pace Project No.: 35369844

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35369844001	**4MW-6**	Water	01/22/18 13:14	01/24/18 14:10
35369844002	**4MW-4**	Water	01/22/18 14:26	01/24/18 14:10

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SAMPLE ANALYTE COUNT

Project: Res recovery GMW
Pace Project No.: 35369844

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35369844001	**4MW-6**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS	15	PASI-O
		EPA 6020	KPP, LEC	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	SK1	48	PASI-O
35369844002	**4MW-4**	EPA 8011	SMH	2	PASI-O
		EPA 6010	BTS	15	PASI-O
		EPA 6020	LEC	2	PASI-O
		EPA 7470	MLO	1	PASI-O
		EPA 8260	SK1	48	PASI-O

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ANALYTICAL RESULTS

Project: Res recovery GMW
Pace Project No.: 35369844

Sample: 4MW-6 **Lab ID: 35369844001** Collected: 01/22/18 13:14 Received: 01/24/18 14:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	01/26/18 12:23	01/27/18 13:39	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	01/26/18 12:23	01/27/18 13:39	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:15	7440-38-2	
Barium	**5.7 I**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:15	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	02/05/18 23:05	02/07/18 16:15	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	02/05/18 23:05	02/07/18 16:15	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	02/05/18 23:05	02/07/18 16:15	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:15	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	02/05/18 23:05	02/07/18 16:15	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	02/05/18 23:05	02/07/18 16:15	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:15	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	02/05/18 23:05	02/07/18 16:15	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	02/05/18 23:05	02/07/18 16:15	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	02/05/18 23:05	02/07/18 16:15	7440-22-4	
Sodium	**2.4**	mg/L	1.0	0.50	1	02/05/18 23:05	02/07/18 16:15	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:15	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	02/05/18 23:05	02/07/18 16:15	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	02/05/18 23:15	02/06/18 17:36	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	02/05/18 23:15	02/09/18 15:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	02/02/18 14:23	02/05/18 09:47	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		02/02/18 21:52	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 21:52	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/02/18 21:52	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		02/02/18 21:52	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		02/02/18 21:52	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 21:52	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 21:52	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		02/02/18 21:52	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		02/02/18 21:52	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		02/02/18 21:52	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		02/02/18 21:52	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		02/02/18 21:52	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	95-50-1	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Res recovery GMW
Pace Project No.: 35369844

Sample: 4MW-6 **Lab ID: 35369844001** Collected: 01/22/18 13:14 Received: 01/24/18 14:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 21:52	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		02/02/18 21:52	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		02/02/18 21:52	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 21:52	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		02/02/18 21:52	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		02/02/18 21:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 21:52	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		02/02/18 21:52	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		02/02/18 21:52	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		02/02/18 21:52	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 21:52	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/02/18 21:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		02/02/18 21:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		02/02/18 21:52	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		02/02/18 21:52	2037-26-5	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Res recovery GMW
Pace Project No.: 35369844

Sample: 4MW-4 **Lab ID: 35369844002** Collected: 01/22/18 14:26 Received: 01/24/18 14:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	01/26/18 12:23	01/27/18 13:54	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	01/26/18 12:23	01/27/18 13:54	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.0 U**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:24	7440-38-2	
Barium	**8.4 I**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:24	7440-39-3	
Beryllium	**0.50 U**	ug/L	1.0	0.50	1	02/05/18 23:05	02/07/18 16:24	7440-41-7	
Cadmium	**0.50 U**	ug/L	1.0	0.50	1	02/05/18 23:05	02/07/18 16:24	7440-43-9	
Chromium	**2.5 U**	ug/L	5.0	2.5	1	02/05/18 23:05	02/07/18 16:24	7440-47-3	
Cobalt	**5.0 U**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:24	7440-48-4	
Copper	**2.5 U**	ug/L	5.0	2.5	1	02/05/18 23:05	02/07/18 16:24	7440-50-8	
Iron	**20.0 U**	ug/L	40.0	20.0	1	02/05/18 23:05	02/07/18 16:24	7439-89-6	
Lead	**5.0 U**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:24	7439-92-1	
Nickel	**2.5 U**	ug/L	5.0	2.5	1	02/05/18 23:05	02/07/18 16:24	7440-02-0	
Selenium	**7.5 U**	ug/L	15.0	7.5	1	02/05/18 23:05	02/07/18 16:24	7782-49-2	
Silver	**2.5 U**	ug/L	5.0	2.5	1	02/05/18 23:05	02/07/18 16:24	7440-22-4	
Sodium	**5.4**	mg/L	1.0	0.50	1	02/05/18 23:05	02/07/18 16:24	7440-23-5	
Vanadium	**5.0 U**	ug/L	10.0	5.0	1	02/05/18 23:05	02/07/18 16:24	7440-62-2	
Zinc	**10.0 U**	ug/L	20.0	10.0	1	02/05/18 23:05	02/07/18 16:24	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	02/05/18 23:15	02/09/18 15:22	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	02/05/18 23:15	02/09/18 15:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	02/02/18 14:23	02/05/18 09:58	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		02/02/18 22:40	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 22:40	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/02/18 22:40	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		02/02/18 22:40	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		02/02/18 22:40	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 22:40	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 22:40	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		02/02/18 22:40	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		02/02/18 22:40	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		02/02/18 22:40	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		02/02/18 22:40	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		02/02/18 22:40	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	95-50-1	

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ANALYTICAL RESULTS

Project: Res recovery GMW
Pace Project No.: 35369844

Sample: 4MW-4 **Lab ID: 35369844002** Collected: 01/22/18 14:26 Received: 01/24/18 14:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	106-46-7	J(M1)
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 22:40	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		02/02/18 22:40	10061-01-5	J(M1)
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		02/02/18 22:40	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	100-41-4	J(M1)
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 22:40	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		02/02/18 22:40	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		02/02/18 22:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		02/02/18 22:40	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		02/02/18 22:40	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		02/02/18 22:40	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		02/02/18 22:40	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		02/02/18 22:40	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/02/18 22:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		02/02/18 22:40	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		02/02/18 22:40	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		02/02/18 22:40	2037-26-5	

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QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

QC Batch: 423207 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35369844001, 35369844002

METHOD BLANK: 2303362 | Matrix: Water
Associated Lab Samples: 35369844001, 35369844002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	02/05/18 09:43	

LABORATORY CONTROL SAMPLE: 2303363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2303364 2303365

Parameter	Units	35369844001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.0	2.1	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

QC Batch: 423706 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35369844001, 35369844002

METHOD BLANK: 2305974 | Matrix: Water
Associated Lab Samples: 35369844001, 35369844002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	02/07/18 15:55	
Barium	ug/L	5.0 U	10.0	5.0	02/07/18 15:55	
Beryllium	ug/L	0.50 U	1.0	0.50	02/07/18 15:55	
Cadmium	ug/L	0.50 U	1.0	0.50	02/07/18 15:55	
Chromium	ug/L	2.5 U	5.0	2.5	02/07/18 15:55	
Cobalt	ug/L	5.0 U	10.0	5.0	02/07/18 15:55	
Copper	ug/L	2.5 U	5.0	2.5	02/07/18 15:55	
Iron	ug/L	20.0 U	40.0	20.0	02/07/18 15:55	
Lead	ug/L	5.0 U	10.0	5.0	02/07/18 15:55	
Nickel	ug/L	2.5 U	5.0	2.5	02/07/18 15:55	
Selenium	ug/L	7.5 U	15.0	7.5	02/07/18 15:55	
Silver	ug/L	2.5 U	5.0	2.5	02/07/18 15:55	
Sodium	mg/L	0.50 U	1.0	0.50	02/07/18 15:55	
Vanadium	ug/L	5.0 U	10.0	5.0	02/07/18 15:55	
Zinc	ug/L	10.0 U	20.0	10.0	02/07/18 15:55	

LABORATORY CONTROL SAMPLE: 2305975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	248	99	80-120	
Barium	ug/L	250	235	94	80-120	
Beryllium	ug/L	25	25.1	100	80-120	
Cadmium	ug/L	25	25.1	100	80-120	
Chromium	ug/L	250	244	98	80-120	
Cobalt	ug/L	250	250	100	80-120	
Copper	ug/L	250	251	100	80-120	
Iron	ug/L	2500	2440	97	80-120	
Lead	ug/L	250	253	101	80-120	
Nickel	ug/L	250	255	102	80-120	
Selenium	ug/L	250	264	106	80-120	
Silver	ug/L	25	25.6	102	80-120	
Sodium	mg/L	12.5	11.9	95	80-120	
Vanadium	ug/L	250	241	96	80-120	
Zinc	ug/L	1250	1260	101	80-120	

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QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2305976 2305977

Parameter	Units	35369550002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	101	250	250	363	374	105	109	75-125	3	20	
Barium	ug/L	66.7	250	250	327	337	104	108	75-125	3	20	
Beryllium	ug/L	0.50 U	25	25	25.3	25.7	101	102	75-125	2	20	
Cadmium	ug/L	0.50 U	25	25	24.7	24.9	99	100	75-125	1	20	
Chromium	ug/L	87.8	250	250	325	325	95	95	75-125	0	20	
Cobalt	ug/L	17.0	250	250	262	264	98	99	75-125	1	20	
Copper	ug/L	14.2	250	250	236	216	89	81	75-125	9	20	
Iron	ug/L	6600	2500	2500	10900	13600	171	280	75-125	22	20	J(M1), J(R1)
Lead	ug/L	5.0 U	250	250	227	225	90	90	75-125	1	20	
Nickel	ug/L	75.8	250	250	318	325	97	100	75-125	2	20	
Selenium	ug/L	7.5 U	250	250	260	255	104	102	75-125	2	20	
Silver	ug/L	2.5 U	25	25	18.7	17.5	75	70	75-125	6	20	J(M1)
Sodium	mg/L	1380	12.5	12.5	1310	1320	-568	-496	75-125	1	20	M6
Vanadium	ug/L	23.6	250	250	270	264	98	96	75-125	2	20	
Zinc	ug/L	124	1250	1250	1430	1460	105	107	75-125	2	20	

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QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

QC Batch: 423707 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35369844001, 35369844002

METHOD BLANK: 2305978 | Matrix: Water
Associated Lab Samples: 35369844001, 35369844002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	02/06/18 17:04	
Thallium	ug/L	0.50 U	1.0	0.50	02/09/18 14:57	

LABORATORY CONTROL SAMPLE: 2305979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.6	103	80-120	
Thallium	ug/L	50	49.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2305980 2305981

Parameter	Units	35369844001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	51.3	54.0	103	108	75-125	5	20	
Thallium	ug/L	0.50 U	50	50	51.1	51.7	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

QC Batch: 423271 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35369844001, 35369844002

METHOD BLANK: 2303738 | Matrix: Water
Associated Lab Samples: 35369844001, 35369844002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	02/02/18 20:41	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	02/02/18 20:41	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	02/02/18 20:41	
2-Hexanone	ug/L	5.0 U	10.0	5.0	02/02/18 20:41	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	02/02/18 20:41	
Acetone	ug/L	10.0 U	20.0	10.0	02/02/18 20:41	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	02/02/18 20:41	
Benzene	ug/L	0.10 U	1.0	0.10	02/02/18 20:41	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	02/02/18 20:41	
Bromoform	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Bromomethane	ug/L	0.50 U	5.0	0.50	02/02/18 20:41	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	02/02/18 20:41	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	02/02/18 20:41	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Chloroethane	ug/L	0.50 U	10.0	0.50	02/02/18 20:41	
Chloroform	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Chloromethane	ug/L	0.62 U	1.0	0.62	02/02/18 20:41	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	02/02/18 20:41	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	02/02/18 20:41	
Dibromomethane	ug/L	0.50 U	2.0	0.50	02/02/18 20:41	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Iodomethane	ug/L	0.50 U	10.0	0.50	02/02/18 20:41	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	02/02/18 20:41	
Styrene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Toluene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	02/02/18 20:41	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	02/02/18 20:41	
Trichloroethene	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	

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QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

METHOD BLANK: 2303738 Matrix: Water
Associated Lab Samples: 35369844001, 35369844002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	02/02/18 20:41	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	02/02/18 20:41	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/02/18 20:41	
1,2-Dichloroethane-d4 (S)	%	103	75-135		02/02/18 20:41	
4-Bromofluorobenzene (S)	%	100	89-111		02/02/18 20:41	
Toluene-d8 (S)	%	100	89-112		02/02/18 20:41	

LABORATORY CONTROL SAMPLE: 2303739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.7	94	70-130	
1,1,1-Trichloroethane	ug/L	20	19.3	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	70-130	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	21.0	105	70-130	
1,1-Dichloroethene	ug/L	20	19.2	96	65-134	
1,2,3-Trichloropropane	ug/L	20	20.1	100	65-135	
1,2-Dichlorobenzene	ug/L	20	18.7	94	70-130	
1,2-Dichloroethane	ug/L	20	17.9	90	70-130	
1,2-Dichloropropane	ug/L	20	18.7	93	70-130	
1,4-Dichlorobenzene	ug/L	20	18.7	93	70-130	
2-Butanone (MEK)	ug/L	40	41.3	103	61-129	
2-Hexanone	ug/L	40	43.4	108	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	44.7	112	70-130	
Acetone	ug/L	40	41.4	103	44-155	
Acrylonitrile	ug/L	200	218	109	59-138	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	19.7	98	70-130	
Bromodichloromethane	ug/L	20	18.2	91	70-130	
Bromoform	ug/L	20	18.2	91	62-129	
Bromomethane	ug/L	20	26.9	134	10-179	
Carbon disulfide	ug/L	20	22.2	111	40-156	
Carbon tetrachloride	ug/L	20	18.0	90	66-127	
Chlorobenzene	ug/L	20	18.8	94	70-130	
Chloroethane	ug/L	20	21.2	106	57-142	
Chloroform	ug/L	20	18.5	92	70-130	
Chloromethane	ug/L	20	22.5	112	45-150	
cis-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.6	93	70-130	
Dibromochloromethane	ug/L	20	18.5	93	70-130	
Dibromomethane	ug/L	20	18.8	94	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Iodomethane	ug/L	40	35.1	88	21-150	

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QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

LABORATORY CONTROL SAMPLE: 2303739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.0	95	65-127	
Styrene	ug/L	20	19.7	98	70-130	
Tetrachloroethene	ug/L	20	20.6	103	48-155	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	68-126	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	20.5	103	46-138	
Trichloroethene	ug/L	20	19.0	95	69-129	
Trichlorofluoromethane	ug/L	20	19.1	96	60-144	
Vinyl acetate	ug/L	20	21.0	105	70-130	
Vinyl chloride	ug/L	20	20.5	102	67-136	
Xylene (Total)	ug/L	60	60.4	101	70-130	
1,2-Dichloroethane-d4 (S)	%			94	75-135	
4-Bromofluorobenzene (S)	%			102	89-111	
Toluene-d8 (S)	%			101	89-112	

MATRIX SPIKE SAMPLE: 2304723

Parameter	Units	35369844002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	15.0	75	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	15.8	79	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	15.4	77	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	16.0	80	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.0	90	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	16.7	84	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	14.2	71	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	14.2	71	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.1	80	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	15.8	79	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	13.8	69	70-130	J(M1)
2-Butanone (MEK)	ug/L	5.0 U	40	37.9	95	61-129	
2-Hexanone	ug/L	5.0 U	40	36.0	90	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	38.3	96	70-130	
Acetone	ug/L	10.0 U	40	44.4	111	44-155	
Acrylonitrile	ug/L	5.0 U	200	192	96	59-138	
Benzene	ug/L	0.10 U	20	15.7	78	70-130	
Bromochloromethane	ug/L	0.50 U	20	17.9	90	70-130	
Bromodichloromethane	ug/L	0.27 U	20	15.2	76	70-130	
Bromoform	ug/L	0.50 U	20	13.9	69	62-129	
Bromomethane	ug/L	0.50 U	20	19.4	97	10-179	
Carbon disulfide	ug/L	5.0 U	20	21.3	105	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	14.3	71	66-127	
Chlorobenzene	ug/L	0.50 U	20	14.7	74	70-130	
Chloroethane	ug/L	0.50 U	20	21.0	105	57-142	
Chloroform	ug/L	0.50 U	20	16.4	82	70-130	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

MATRIX SPIKE SAMPLE: 2304723

Parameter	Units	35369844002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	19.6	98	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.7	84	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.4	67	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	14.3	71	70-130	
Dibromomethane	ug/L	0.50 U	20	15.5	77	70-130	
Ethylbenzene	ug/L	0.50 U	20	13.9	69	70-130	J(M1)
Iodomethane	ug/L	0.50 U	40	21.3	53	21-150	
Methylene Chloride	ug/L	2.5 U	20	17.3	85	65-127	
Styrene	ug/L	0.50 U	20	14.2	71	70-130	
Tetrachloroethene	ug/L	0.50 U	20	14.6	73	48-155	
Toluene	ug/L	0.50 U	20	14.9	74	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	15.3	77	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.3	72	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.6	73	46-138	
Trichloroethene	ug/L	0.50 U	20	15.1	76	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	19.1	95	60-144	
Vinyl acetate	ug/L	1.0 U	20	17.3	87	70-130	
Vinyl chloride	ug/L	0.50 U	20	19.3	96	67-136	
Xylene (Total)	ug/L	1.5 U	60	43.1	72	70-130	
1,2-Dichloroethane-d4 (S)	%				101	75-135	
4-Bromofluorobenzene (S)	%				97	89-111	
Toluene-d8 (S)	%				100	89-112	

SAMPLE DUPLICATE: 2304722

Parameter	Units	35369844001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

SAMPLE DUPLICATE: 2304722

Parameter	Units	35369844001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	103	102	1	40	
4-Bromofluorobenzene (S)	%	96	98	2	40	
Toluene-d8 (S)	%	98	97	1	40	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Res recovery GMW
Pace Project No.: 35369844

QC Batch: 421359 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35369844001, 35369844002

METHOD BLANK: 2294510 | Matrix: Water
Associated Lab Samples: 35369844001, 35369844002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	01/27/18 11:26	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	01/27/18 11:26	

LABORATORY CONTROL SAMPLE: 2294511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.29	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.30	120	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2294673 2294674

Parameter	Units	35370231001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.52	0.51	119	116	60-140	2	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.54	0.54	124	123	60-140	0	40	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Res recovery GMW
Pace Project No.: 35369844

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Res recovery GMW
Pace Project No.: 35369844

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35369844001	**4MW-6**	EPA 8011	421359	EPA 8011	421598
35369844002	**4MW-4**	EPA 8011	421359	EPA 8011	421598
35369844001	**4MW-6**	EPA 3010	423706	EPA 6010	423735
35369844002	**4MW-4**	EPA 3010	423706	EPA 6010	423735
35369844001	**4MW-6**	EPA 3010	423707	EPA 6020	423736
35369844002	**4MW-4**	EPA 3010	423707	EPA 6020	423736
35369844001	**4MW-6**	EPA 7470	423207	EPA 7470	423275
35369844002	**4MW-4**	EPA 7470	423207	EPA 7470	423275
35369844001	**4MW-6**	EPA 8260	423271		
35369844002	**4MW-4**	EPA 8260	423271		

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Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY RECORD

Page 1 of 1

FOR LAB USE ONLY
Temp. of Contents: 6-7 °C (or Received on Ice, ROI)
Condition of Contents:

FOR LAB USE ONLY
LOG IN NO.

1. Client: (Company or Individual) Pasco Co. Env. Lab
Address:
Phone: ( )
City: State Zip Code
Fax: ( )

2. Report to: (if different from above) Candia Mulhern
Address:
Phone: ( )
City State Zip Code
Fax: ( )

3. Client Project Name: Res-Recovery GMW
4. Sampled by: (Print) MARIAN BERNAL
5. Sampled by: (Signature) Marian Bernal
6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	12. No. of Containers	15. Analyses Requested: Metals Fe, Hg, Ni	8260	8011						16. REMARK	For Lab Use Only LAB SAMPLE NO.
												13. Preservatives	N	H	C							
												14. Containers	P	V	V							
1.		4MW-6	1-22-18	1314		✓	GW					6	✓	✓	✓							
2.		4MW-4	1-22-18	1426		✓	GW					6	✓	✓	✓							
3.																					Sent to	
4.																					PACE	
5.																					1/24/18	
6.																						
7.																						
8.																						
9.																						
10.																						

WO# : 35369844
35369844

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. Marian Bernal	1-22-18	1525	[illegible]	1/22/18	1525
2. [illegible]	1/24/18	1220	[illegible]	1-24-18	1220
3. [illegible]	1-24-18	1410	[illegible] TWB -0.1	1-24-18	1410
4.					

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35369844

Project Manager: PM: VEG Due Date: 02/07/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: MVL
Label: 1/24/18
Deliver:
pH:

Thermometer Used: T-203 Date: 1/24/18 Time: 1410 Initials: MVL

State of Origin: FL

Cooler #1 Temp.°C -0.1	(Visual) 0.0	(Correction Factor) -0.1	(Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☑ Ground ☐ International Priority
☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☑ Yes	☐ No	☐ N/A	
Chain of Custody Filled Out	☑ Yes	☐ No	☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes	☐ No	☐ N/A	
Samples Arrived within Hold Time	☑ Yes	☐ No	☐ N/A	
Rush TAT requested on COC	☐ Yes	☑ No	☐ N/A	
Sufficient Volume	☑ Yes	☐ No	☐ N/A	
Correct Containers Used	☑ Yes	☐ No	☐ N/A	
Containers Intact	☑ Yes	☐ No	☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes	☐ No	☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes	☐ No	☐ N/A	Preservation Information: Preservative:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes	☐ No	☐ N/A	Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes	☑ No	☐ N/A	
Trip Blank Present:	☐ Yes	☑ No	☐ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

RESOURCE RECOVERY SEMI-ANNUAL GWM

2017 QUARTER IV

YEAR: 2017 **QUARTER:** IV

WELL DATA						FIELD ANALYSIS							
WELL I.D.	DATE DAY-MONTH	SAMPLE TIME 24hr.	T.O.P. ELEV. (ft)	STATIC H2O LEVEL (ft)	N.G.V.D (ft)	pH (STD Units)	TEMP. (°C)	SP. COND. (uS/cm)	D.O. (mg/L)	TURB (NTUs)	COLOR OBSERVED	ANALYST	SAMPLE #
2MW1	6-Nov	1256	49.95	13.55	36.40	6.08	27.77	32	4.66	42.6	CLOUDY	MB	AC59852
2MW10	25-Oct	1142	52.63	dry	NA							MB	AC59364
2MW13D	26-Oct	1555	52.39	dry	NA							MB	AC62470
2MW15AD	6-Nov	1413	54.71	18.58	36.13	7.31	25.55	336	1.29	0.9	clear	MB	AC59854
2MW17S	8-Nov	957	53.42	22.40	31.02	6.00	26.45	309	4.26	1.2	CLEAR	MB	AC59972
2MW18D	6-Nov	1539	52.75	22.32	30.43	7.11	25.34	508	0.99	1.6	clear	MB	AC59855
2MW19D	8-Nov	1137	52.25	22.63	29.62	6.98	26.23	512	1.88	2.6	CLEAR	MB	AC59973
2MW2	7-Nov	1355	56.41	18.34	38.07	4.69	24.52	90	4.85	0.0	clear	MB	AC59905
2MW24D	13-Nov	1322	50.55	17.67	32.88	7.17	25.86	550	1.53	0.1	CLEAR	MB	AC60081
2MW24S	13-Nov	1412	50.37	17.46	32.91	6.64	26.61	522	2.49	1.3	clear	MB	AC60082
2MW25D	30-Oct	1310	47.87	14.31	33.56	7.04	26.49	734	0.98	2.4	CLEAR	MB	AC60080
2MW25S	30-Oct	1205	47.84	DRY	NA							MB	AC59530
2MW26D	30-Oct	1123	54.13	20.2	33.93	7.12	25.12	591	1.55	0.5	CLEAR	MB	AC59525
2MW26S	30-Oct	1010	54.16	DRY	NA							MB	AC59529
2MW27D	30-Oct	1602	50.32	15.17	35.15	7.31	23.76	771	3.27	2.7	CLEAR	MB	AC59527
2MW27S	1-Nov	1518	50.44	15.30	35.14	6.92	25.78	761	1.02	0.3	clear	MB	AC59728
2MW3	2-Nov	1042	50.01	DRY	NA							MB	AC59778
2MW4	7-Nov	1028	54.77	DRY	NA							MB	AC59903
2MW5	2-Nov	1316	49.17	DRY	NA							MB	AC59779
2MW6	7-Nov	1222	56.11	21.45	34.66	5.73	27.95	84	5.36	4.3	clear	MB	AC59904
2MW7	25-Oct	1025	52.75	dry	NA							MB	AC59362
2MW8	1-Nov	1107	51.97	DRY	NA							MB	AC59726
2MW9	25-Oct	1138	52.29	dry	NA							MB	AC59363
4MW1	6-Nov	1120	50.34	13.92	36.42	6.77	26.44	964	1.06	0.3	CLEAR	MB	AC59853
4MW11D	26-Oct	1537	65.00	30.43	34.57	7.46	23.01	372	3.74	0.50	CLEAR	MB	AC59413
4MW12D	26-Oct	1236	55.03	21.42	33.61	7.25	24.98	416	2.36	0.0	CLEAR	MB	AC59414
4MW13D	26-Oct	1341	52.39	20.95	31.44	7.24	25.96	445	2.42	0.2	CLEAR	MB	AC59415

WELL I.D.	DATE DAY-MONTH	SAMPLE TIME 24hr.	T.O.P. ELEV. (ft)	STATIC H2O LEVEL (ft)	N.G.V.D (ft)	pH (STD Units)	TEMP. (°C)	SP. COND. (uS/cm)	D.O. (mg/L)	TURB (NTUs)	COLOR OBSERVED	ANALYST	SAMPLE #
4MW14D	7-Nov	1533	52.00	18.53	33.47	7.21	27.39	412	1.07	2.6	clear	MB	AC59906
4MW2	25-Oct	1402	56.11	18.24	37.87	7.68	23.31	212	3.01	0.1	CLEAR	MB	AC59361
4MW21	1-Nov	1120	51.46	18.11	33.35	5.26	24.59	130	4.73	1.8	clear	MB	AC59725
4MW22	1-Nov	1046	53.44	21.35	32.09	7.05	24.66	477	1.11	1.1	CLEAR	MB	AC59724
4MW27	1-Nov	1424	49.60	14.41	35.19	7.24	24.74	689	2.02	1.9	CLEAR	MB	AC59727
4MW27D	30-Oct	1618	49.28	14.32	34.96	7.58	23.32	276	3.55	32.7	cloudy	MB	AC59528
4MW3A	2-Nov	1156	52.92	21.32	31.6	7.26	23.21	477	1.54	0.3	clear	MB	AC59776
4MW4	22-Jan	1426	50.81	22.68	28.13	7.24	25.29	433	1.86	<0.1	clear	MB	AC62767
4MW5	2-Nov	1408	49.06	17.65	31.41	7.22	24.39	597	2.11	0.4	clear	MB	AC59777
4MW6	22-Jan	1314	55.93	23.14	32.79	7.13	24.66	154	3.73	<0.1	clear	MB	AC62768
4MW7	25-Oct	1002	52.62	18.78	33.84	7.22	23.87	375	1.86	0.8	clear	MB	AC59358
4MW8	25-Oct	1214	51.87	18.1	33.77	7.16	23.38	399	1.47	0.0	clear	MB	AC59360
4MW9	25-Oct	1121	52.78	20.21	32.57	[	24.30	457	1.02	0.1	clear	MB	AC59359

WELL I.D.	DATE DAY-MONTH	SAMPLE TIME 24hr.	T.O.P. ELEV. (ft)	STATIC H2O LEVEL (ft)	N.G.V.D (ft)	pH (STD Units)	TEMP. (°C)	SP. COND. (uS/cm)	D.O. (mg/L)	TURB (NTUs)	COLOR OBSERVED	ANALYST	SAMPLE #
WELL ID	**LAB ANALYSIS**												
		CL- (mg/L)	TDS (mg/L)	NO3 (mg/L)	NH3 (mg/L)	FECAL	Cd (ug/L)	Cr (ug/L)	As (ug/L)	Pb (ug/L)	Na (ug/L)		SAMPLE #
2MW1		1.51	52	0.04 U	0.05 U								AC59852
2MW10													AC59364
2MW13D													AC62470
2MW15DA		11.50	182	0.20 I	0.05 U								AC59854
2MW17S		32.3	252	6.59	0.05 U								AC59972
2MW18D		31.9	288	0.82	0.05 U								AC59855
2MW19D		18.8	258	0.36	0.05 U								AC59973
2MW2		6.89	60	3.70	0.05 U								AC59905
2MW24D		48.1	310	1.73	0.05 U								AC60081
2MW24S		7.89	288	5.96	0.05 U								AC60082
2MW25D		87.4	416	376 XC	0.05 U								AC59526
2MW25D Resample				0.82									AC60080
2MW25S													AC59530
2MW26D		55.8	324	0.46	0.05 U								AC59525
2MW26S													AC59529
2MW27D		104.0	448	1.41	0.05 U								AC59527
2MW27S		90.0	460	0.93	0.05 U								AC59728
2MW3A													AC59778
2MW4													AC59903
2MW5													AC59779
2MW6		11.0	68	2.56	0.05 U								AC59904
2MW7													AC59362
2MW8													AC69726
2MW9													AC59363
4MW1		138	580 XC	1.64	0.05 U								AC59853
4MW11D		21.5	202.00	0.62	0.05 U								AC59413
4MW12D		22.00	228.00	0.89	0.05 U								AC59414
4MW13D		20.4	246	0.04 U	0.05 U								AC59415
4MW14D		23.5	226	0.54	0.05 U								AC59906
4MW2		5.84	116	0.82	0.13 I								AC59361
4MW21		10.3	108	5.28	0.05 U								AC59725

WELL I.D.	DATE DAY-MONTH	SAMPLE TIME 24hr.	T.O.P. ELEV. (ft)	STATIC H2O LEVEL (ft)	N.G.V.D (ft)	pH (STD Units)	TEMP. (°C)	SP. COND. (uS/cm)	D.O. (mg/L)	TURB (NTUs)	COLOR OBSERVED	ANALYST	SAMPLE #
4MW22		18.6	266	0.15	0.05 U								AC59724
4MW27		102	400	0.20	0.07 I								AC59727
4MW27D		5.27	156	0.04 U	0.22								AC59528
4MW3A		35.4	266	0.04 U	0.09 I								AC59776
4MW4		19.2	243	0.44	0.05 u								AC62767
4MW5		64.4	356	0.57	0.05 U								AC59777
4MW6		4.61	80	0.46	0.05 U								AC62768
4MW7		14.3	194	0.39	0.05 U								AC59358
4MW8		11.1	202	0.04 U	0.05 U								AC59360
4MW9		25.1	242	0.50	0.12 I								AC59359
BILLING DATE:				**SAMPLE TIME:**				**MILEAGE:**					

AMBIENT FIELD CONDITIONS

METER: **CALIBRATION DATE:**

PRESERVATIVES	
TYPE	LOT #
H2SO4	161853

PURGING EQUIPMENT: Bladder pump and Micro Purge MP-50 QED compressor

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-15AD	SAMPLE DATE:	November 6, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	44.50	STATIC WATER:	18.58	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.15

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1338	1420	13.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1350	5.00	5.00	0.38	18.55	7.13	25.28	340	1.13	4.1	clear	none
1402	4.00	9.00	0.40	18.57	7.28	25.52	333	1.26	1.5	clear	none
1413	4.00	13.00	0.40	18.57	7.31	25.55	336	1.29	0.9	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:		
				ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	161853	H2SO4	0.5	<2	NO3			BP
pace	PE	200					Fe,Hg,Na,			BP
1	PE	125					Cl,			BP
1	PE	250					TDS			BP
1	PE	125					NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:	HAYS RD		
WELL NO.		SAMPLE ID:	2MW-25D	SAMPLE DATE:	October 30, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	32.00	STATIC WATER:	14.31	GALLONS / FOOT:	0.16	1 WELL VOLUME=	2.83

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1219		9.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1232	3.00	3.00	0.17	14.30	7.07	26.25	736	1.64	5.9	CLEAR	None
1253	3.00	6.00	0.17	14.33	7.01	26.58	724	1.08	4.6	CLEAR	None
1310	3.00	9.00	0.17	14.33	7.04	26.49	734	0.98	2.4	CLEAR	None

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:		
				ENDED:	1310
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	101816	5	BP
SAL	PE	125	na	na	na	<2	Fe,Hg,Na,	sal container		BP
1	PE	125	na	na	na	na	Cl,	101916	1	BP
1	PE	250	na	na	na	na	TDS, TURB	101816	5	BP
1	PE	125	na	na	na	na	NH3	101216	02	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW- 27D	SAMPLE DATE:	1030/2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	45.30	STATIC WATER:	15.17	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.82

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1504		0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1505	0.00	0.00	NA	15.17	9.42	22.93	663	4.69	7.4	CLEAR	None
1521	5.00	5.00	0.40	15.17	7.29	23.81	780	2.52	4.1	CLEAR	None
1547	5.00	10.00	0.40	15.17	7.21	23.88	777	2.34	2.2	CLEAR	none
1602	5.00	15.00	0.40	15.18	7.31	23.76	771	3.27	2.7	CLEAR	None

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	42417	01	BP
pace lab	PE	250	na	na	na	<2	Fe,Hg,Na,	na	na	BP
1	PE	125	na	na	na	na	Cl,	42417	02	BP
1	PE	250	na	na	na	na	TDS, TURB	42417	01	BP
1	PE	250	na	na	na	na	NH3	42417	01	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-27D	SAMPLE DATE:	October 30, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	156.00	STATIC WATER:	14.32	GALLONS / FOOT:	0.65	1 WELL VOLUME=	92.09

USING Low -Flow Method

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1412		14.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1420	0.00	0.00	NA	14.32	7.71	21.64	276	4.58	3.0	clear	NONE
1452	5.00	5.00	0.20	14.31	7.63	23.42	268	2.62	24.4	clear	NONE
1513	4.00	9.00	0.20	14.34	7.50	23.72	279	2.62	41.1	cloudy	NONE
1545	6.00	15.00	0.20	14.41	7.52	23.44	279	3.14	37.3	cloudy	none
1618	6.00	21.00	0.20	14.40	7.58	23.32	276	3.55	32.7	cloudy	none

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL	*Marian Bernal*	VERIFIED:		
				ENDED:	1545
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			BP
pace lab	PE	250	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS			BP
1	PE	250	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-22	SAMPLE DATE:	November 1, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	48.00	STATIC WATER:	21.35	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.264

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1213		8.75

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1022	5.00	5.00	0.40	21.39	7.08	24.51	479	2.18	1.6	CLEAR	NONE
1031	2.50	7.50	0.40	27.56	7.06	24.60	483	1.48	1.4	CLEAR	NONE
1045	2.50	8.75	0.40	27.53	7.05	24.66	477	1.11	1.1	CLEAR	NONE

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	161853	H2SO4	0.5	<2	NO3	102217	01	BP
Pace Lab	PE	125	na	na	na	<2	Fe,Hg,Na,	Pace	Bottle	BP
1	PE	125	na	na	na	na	Cl,	100217	02	BP
1	PE	250	na	na	na	na	TDS	102217	01	BP
1	PE	125	na	na	na	na	NH3	102217	01	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-21	SAMPLE DATE:	November 1, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	43.00	STATIC WATER:	18.11	GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.98

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				12.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1137	4.00	4.00	0.46	18.62	5.67	24.55	131	4.92	11.2	brownishh	NONE
1146	4.00	8.00	0.46	18.30	5.28	24.53	131	4.47	10.8	brownish	NONE
1153	4.00	12.00	0.46	18.26	5.25	24.46	131	4.36	8.4	clear	NONE
1159	1.00	13.00	0.40	18.20	5.25	24.62	130	4.62	5.2	clear	NONE
1201	1.00	14.00	0.40	18.20	5.26	24.59	130	4.73	1.8	clear	NONE

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:		
				ENDED:	1201
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	161853	H2SO4	0.5	<2	NO3			BP
SAL	PE	125					Fe,Hg,Na,			BP
1	PE	125					Cl,			BP
1	PE	250					TDS, TURB			BP
1	PE	125					NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-5	SAMPLE DATE:	November 2, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	77.00	STATIC WATER:	17.65	GALLONS / FOOT:	0.65	1 WELL VOLUME=	38.58

Used Low Flow Method

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1318	1417	0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1340	7.00	7.00	0.32	17.69	7.2	24.55	595	2.12	0.4	clear	none
1358	7.00	14.00	0.32	18.15	7.24	24.42	601	2.13	0.4	clear	none
1408	3.00	17.00	0.27	17.68	7.22	24.39	597	2.11	0.4	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL	*Marian Bernal*		VERIFIED:		ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250		H2SO4	0.5	<2	NO3			BP
SAL	PE	125	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS			BP
1	PE	125	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-8	SAMPLE DATE:	November 1, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	18.00	STATIC WATER:	17.5	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0.08

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1415		DRY		DRY		DRY					

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-27	SAMPLE DATE:	November 1, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	78.00	STATIC WATER:	14.41	GALLONS / FOOT:	0.65	1 WELL VOLUME=	41.3

USING LOW-FLOW METHOD

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1328		22.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1355	10.00	10.00	0.46	14.62	6.94	24.42	697	1.3	3.3	CLEAR	NONE
1413	6.00	16.00	0.46	14.56	7.18	24.91	693	0.72	2.7	CLEAR	NONE
1424	6.00	22.00	0.46	14.58	7.24	24.74	689	2.02	1.9	CLEAR	NONE

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL		*marian bernal*			ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	125		H2SO4	0.5	<2	NO3		01	BP
1	PE	125	na	na	na	<2	Fe,Hg,Na,		01	BP
1	PE	125	na	na	na	na	Cl,		03	BP
1	PE	250	na	na	na	na	TDS, TURB		03	BP
1	PE	125	na	na	na	na	NH3		03	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-27S	SAMPLE DATE:	November 1, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			50.44	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	21.00	STATIC WATER:	15.3	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0.912

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1420	1525	5.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1430	1.00	1.00		15.90	6.76	24.91	775	2.45	2.8	clear	none
1439	1.00	2.00		***	6.87	24.80	783	2.38	1.3	clear	none
1455	1.50	3.50		***	6.82	25.45	766	1.18	1.9	clear	none
1518	1.50	5.00		***	6.92	25.78	761	1.02	0.3	clear	none

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:	ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	na	na	BP
pace	PE	125	na	na	na	<2	Fe,Hg,Na,	na	na	BP
1	PE	125	na	na	na	na	Cl,	na	na	BP
1	PE	250	na	na	na	na	TDS, TURB	na	na	BP
1	PE	125	na	na	na	na	NH3	na	na	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-3A	SAMPLE DATE:	November 2, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	51.00	STATIC WATER:	21.32	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.75

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1115	1206	15.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1135	5.00	5.00	0.63	21.30	7.28	23.68	468	1.82	0.1	clear	none
1146	5.00	10.00	0.63	21.35	7.31	23.24	471	1.63	0.4	clear	none
1200	5.00	15.00	0.63	21.34	7.26	23.21	477	1.54	0.3	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	101717	01	BP
pace lab	PE	250	na	na	na	<2	Fe,Hg,Na,	pace	bottle	BP
1	PE	125	na	na	na	na	Cl,	42417	02	BP
1	PE	250	na	na	na	na	TDS	42417	01	BP
1	PE	250	na	na	na	na	NH3	42417	01	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

DEP-SOP-001/01 FS 2200 GROUNDWATER SAMPLING FORM FD 9000-24 FS-012-1 Ground Water Sampling Data Sheet rev:9/1/16 [Page ___of___]

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-1	SAMPLE DATE:	

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2"				Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	20.00	STATIC WATER:		GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.2

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				8.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:		
				ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	161853	H2SO4	0.5	<2	NO3			
Pace Lab	PE	125	NA	NA	NA	<2	Fe,Hg,Na,			
1	PE	125	NA	NA	NA	NA	Cl,			
1	PE	250	NA	NA	NA	NA	TDS			
1	PE	125	NA	NA	NA	NA	NH3			
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-26D	SAMPLE DATE:	May 1, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	55.00	STATIC WATER:	20.2	GALLONS / FOOT:	0.16	1 WELL VOLUME=	5.57

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1030		0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1049	6.00	6.00	0.57	20.18	7.16	23.64	589	1.68	2.5	CLEAR	None
1108	6.00	12.00	0.57	20.18	7.17	23.41	589	2.55	1.5	CLEAR	None
1115	3.00	15.00	0.57	20.18	7.12	25.14	590	1.66	1.2	CLEAR	None
1123	3.00	18.00	0.55	20.18	7.12	25.12	591	1.55	0.5	CLEAR	None

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL	*Marian Bernal*				ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	42417	01	BP
pace lab	PE	250	na	na	na	<2	Fe,Hg,Na,	na	na	BP
1	PE	125	na	na	na	na	Cl,	42417	02	BP
1	PE	250	na	na	na	na	TDS, TURB	42417	01	BP
1	PE	250	na	na	na	na	NH3	42417	01	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-1	SAMPLE DATE:	

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4"				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	60.00	STATIC WATER:		GALLONS / FOOT:	0.65	1 WELL VOLUME=	39

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1016	1130	0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)

* used Low-Flow purguing Method ***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	161853	H2SO4	0.5	<2	NO3			BP
Pace Lab	PE	125	NA	NA	NA	<2	Fe,Hg,Na,			BP
1	PE	125	NA	NA	NA	NA	Cl,			BP
1	PE	250	NA	NA	NA	NA	TDS, TURB			BP
1	PE	125	NA	NA	NA	NA	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-14D	SAMPLE DATE:	November 7, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	50.00	STATIC WATER:	18.53	GALLONS / FOOT:	0.16	1 WELL VOLUME=	5.04

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1440		13.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1502	5.00	5.00	0.33	18.68	7.06	27.63	405	1.33	1.3	clear	None
1516	4.00	9.00	0.40	18.60	7.21	27.46	414	1.4	2.7	clear	None
1533	4.00	13.00	0.40	24.64	7.21	27.39	412	1.07	2.6	clear	None

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:		
				ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			BP
SAL	PE	125	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS			BP
1	PE	125	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-2	SAMPLE DATE:	October 25, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4"			31.31	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	69.00	STATIC WATER:	18.24	GALLONS / FOOT:	0.65	1 WELL VOLUME=	32.99

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1310	1405	17.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1335	7.00	7.00	0.79	18.27	7.68	23.59	213	1.43	0.0	CLEAR	None
1348	5.00	12.00	0.79	18.24	7.72	23.37	210	2.52	0.1	CLEAR	None
1402	5.00	17.00	0.79	18.24	7.68	23.31	212	3.01	0.1	CLEAR	None

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	Marian Bernal			VERIFIED:		ENDED:	1402
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			BP
pace	PE	125	NA	NA	NA	<2	Fe,Hg,Na,			BP
1	125	125	NA	NA	NA	NA	Cl,			BP
1	PE	250	NA	NA	NA	NA	TDS, TURB			BP
1	PE	250	NA	NA	NA	NA	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

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

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW17S	SAMPLE DATE:	November 8, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				Submersible pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	38.00	STATIC WATER:	22.94	GALLONS / FOOT:	0.16	1 WELL VOLUME=	2.41

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1155	1038	9.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
0923	3.00	3.00	0.50	23.06	6.21	25.78	311	4.13	4.3	CLEAR	NONE
0935	3.00	6.00	0.59	23.10	6.10	26.38	307	4.25	3.2	CLEAR	NONE
0946	3.00	9.00	0.59	23.10	6,01	26.53	310	3.82	1.7	CLEAR	NONE
0957	1.00	10.00	0.48	23.10	6.00	26.45	309	4.26	1.2	CLEAR	NONE

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:	ENDED:	957
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			BP
pace	PE	125	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS, TURB			BP
1	PE	125	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-7	SAMPLE DATE:	October 25, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	50.00	STATIC WATER:	18.78	GALLONS / FOOT:	0.65	1 WELL VOLUME=	20.293

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1028	1127	0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
0923	0.00	0.00	0.32	18.78	7.26	20.56	380	4.03	1.4	clear	none
0945	5.00	5.00	0.32	18.75	7.17	23.55	381	1.39	0.8	clear	none
0955	3.00	8.00	0.32	18.70	7.18	23.81	377	1.79	1.0	clear	none
1002	3.00	11.00	0.32	18.70	7.22	23.87	375	1.86	0.8	clear	none

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL	*Marian Bernal*	VERIFIED:		ENDED: 0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	161853	H2SO4	0.5	<2	NO3			BP
Pace Lab	PE	125	1114090	HNO3	0.5	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS			BP
1	PE	250	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-7	SAMPLE DATE:	October 25, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	15.00	STATIC WATER:	15	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0

(TABLE SAID 3

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
	DRY			DRY			DRY			DRY	

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL	*Marian Bernal*				ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD		BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH			DATE	SERIES	
NONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NGVD:											

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-9	SAMPLE DATE:	October 25, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	51.00	STATIC WATER:	20.21	GALLONS / FOOT:	0.65	1 WELL VOLUME=	20.01

using low-flow purguing method

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1035	0.00	0.00	0.33	20.21	7.22	24.09	454	2.32	0.0	clear	none
1048	7.00	7.00	0.33	19.56	7.12	24.41	457	0.99	0.1	clear	none
1105	7.00	14.00	0.33	19.52	7.15	24.35	458	1.57	0.0	clear	none
1121	7.00	21.00	0.33	19.50	7.13	24.30	457	1.02	0.1	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL	*Marian Bernal*		VERIFIED:		ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	161853	H2SO4	0.5	<2	NO3			BP
pace lab	PE	125	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS, TURB			BP
1	PE	125	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-9	SAMPLE DATE:	October 25, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	11.80	STATIC WATER:		GALLONS / FOOT:	0.16	1 WELL VOLUME=	#VALUE!

(TABLE SAID 3

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1014		0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
		DRY		DRY			DRY				

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD		BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH			DATE	SERIES	
NONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BP
NGVD:											

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-8	SAMPLE DATE:	October 25, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	41.00	STATIC WATER:		GALLONS / FOOT:	0.65	1 WELL VOLUME=	26.65

used low-flow purguing method

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1154	6.00	6.00			7.23	22.85	399	2.12	0.1	clear	none
1206	6.00	12.00			7.14	23.31	400	1.05	0.4	clear	none
1214	6.00	18.00			7.16	23.38	399	1.47	0.0	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	161853	H2SO4	0.5	<2	NO3			BP
Pace Lab	PE	125	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS, TURB			BP
1	PE	125	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

DEP-SOP-001/01 FS 2200 GROUNDWATER SAMPLING FORM FD 9000-24 FS-012-1 Ground Water Sampling Data Sheet rev:9/1/16 [Page ___of___]

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-10	SAMPLE DATE:	October 25, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	15.00	STATIC WATER:	15	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0

(TABLE SAID 3

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1014		0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
	0.00		DRY		DRY		DRY				

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD		BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH			DATE	SERIES	
NONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BP
NGVD:											

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

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

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

DEP-SOP-001/01 FS 2200 GROUNDWATER SAMPLING FORM FD 9000-24 FS-012-1 Ground Water Sampling Data Sheet rev:9/1/16 [Page ___of___]

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-11D	SAMPLE DATE:	October 26, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			65.00	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	52.00	STATIC WATER:	30.43	GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.45

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				10.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1110	4.00	4.00		30.48	7.46	22.44	369	3.79	2.4	CLEAR	None
1126	3.50	7.50		30.50	7.41	22.98	371	3.41	1.7	CLEAR	None
1139	2.50	10.00		30.50	7.46	23.01	372	3.74	0.50	CLEAR	None

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:		
				ENDED:	1139
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	41617	01	BP
pace	PE	250	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,	41417	05	BP
1	PE	250	na	na	na	na	TDS, TURB	41617	01	BP
1	PE	250	na	na	na	na	NH3	41617	01	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

DEP-SOP-001/01 FS 2200 GROUNDWATER SAMPLING FORM FD 9000-24 FS-012-1 Ground Water Sampling Data Sheet rev:9/1/16 [Page ___of___]

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-12D	SAMPLE DATE:	October 26, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	55.00	STATIC WATER:	21.42	GALLONS / FOOT:	0.16	1 WELL VOLUME=	5.37

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1206	1240	13.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1208	6.00	6.00	0.61	21.42	7.22	24.97	419	1.45	0.3	CLEAR	None
1217	4.00	10.00	0.61	21.42	7.24	24.68	415	2.33	0.1	CLEAR	None
1236	3.00	13.00	0.61	21.40	7.25	24.98	416	2.36	0.0	CLEAR	None

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN BERNAL	*Marian Bernal*				ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			BP
Pace	PE	250	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125					Cl,			BP
1	PE	250					TDS			BP
1	PE	250					NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

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

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:	HAYS RD		
WELL NO.		SAMPLE ID:	4MW-13D	SAMPLE DATE:	October 25, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

	36.00	STATIC WATER:	20.95	GALLONS / FOOT:	0.16	1 WELL VOLUME=	2.41

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				8.50

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1316	3.00	3.00		20.88	7.09	26.71	451	0.7	0.3	CLEAR	None
1328	3.00	6.00		28.88	7.22	25.99	447	2.28	0.6	CLEAR	None
1341	2.50	8.50		20.85	7.24	25.96	445	2.42	0.2	CLEAR	None

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN Bernal					ENDED:	1341
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	101816	5	BP
SAL	PE	125	na	na	na	<2	Fe,Hg,Na,	sal container		BP
1	PE	125	na	na	na	na	Cl,	101916	1	BP
1	PE	250	na	na	na	na	TDS, TURB	101816	5	BP
1	PE	125	na	na	na	na	NH3	101216	02	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-13D	SAMPLE DATE:	

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2"				Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	18.00	STATIC WATER:	15.3 to top of pump	GALLONS / FOOT:	0.16	1 WELL VOLUME=	

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1500		8.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			
SAL	PE	125	NA	NA	NA	<2	Fe,Hg,Na,			
1	PE	125	NA	NA	NA	NA	Cl,			
1	PE	250	NA	NA	NA	NA	TDS, TURB			
1	PE	125	NA	NA	NA	NA	NH3			
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-26S	SAMPLE DATE:	October 30, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	23.00	STATIC WATER:	20.18	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0.45

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1013	0.00	0.00		20.18							

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD		BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH			DATE	SERIES	
NONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BP
NGVD:											

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-5	SAMPLE DATE:	November 2, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2"				Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	11.50	STATIC WATER:	10.96	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0.09

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				8.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1216	0.00	0.00									

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:		
				ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			
pace	PE	125	NA	NA	NA	<2	Fe,Hg,Na,			
1	PE	125	NA	NA	NA	NA	Cl,			
1	PE	250	NA	NA	NA	NA	TDS, TURB			
1	PE	125	NA	NA	NA	NA	NH3			
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-3	SAMPLE DATE:	November 2, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	13.00	STATIC WATER:	13	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1042	DRY	NONE		13							

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD		BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH			DATE	SERIES	
NONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NGVD:											

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW18D	SAMPLE DATE:	November 6, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	44.00	STATIC WATER:	22.32	GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.47

***TWD measured today**

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1455		11.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1506	4.00	4.00	0.34	22.35	7.09	25.39	499	1.51	2.7	CLEAR	NONE
1521	4.00	4.00	0.34	22.32	7.04	6.00	498	1.33	2.5	CLEAR	NONE
1539	3.00	11.00	0.34	22,33	7.11	25.34	508	0.99	1.6	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			BP
pace Lab	PE	125	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	250	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TD			BP
1	PE	125	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

DEP-SOP-001/01 FS 2200 GROUNDWATER SAMPLING FORM FD 9000-24 FS-012-1 Ground Water Sampling Data Sheet rev:9/1/16 [Page ___of___]

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-2	SAMPLE DATE:	November 7, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2"			56.41	Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	38.00	STATIC WATER:	18.34	GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.15

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1316		0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1328	4.00	4.00	0.34	18.67	5.23	24.74	90	3.73	0.0	clear	none
1344	3.00	7.00	0.34	20.21	4.75	24.59	91	4.96	0.0	clear	none
1355	3.00	10.00	0.34	18.82	4.69	24.52	90	4.85	0.0	clear	none

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:		
				ENDED:	1355
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	41817	01	BP
SAL	PE	125	NA	NA	NA	<2	Fe,Hg,Na,			BP
1	PE	125	NA	NA	NA	NA	Cl,	41817	02	BP
1	PE	250	NA	NA	NA	NA	TDS, TURB	41817	01	BP
1	PE	125	NA	NA	NA	NA	NH3	41817	01	BP
NGVD:	**38.07**									

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-6	SAMPLE DATE:	November 7, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	25.00	STATIC WATER:	21.45	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0.57

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				2.50

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1140	0.00	0.00	0.21	***	7.34	27.64	97	5.45	3.8	clear	none
1152	0.75	0.75	0.09	***	6.57	27.69	90	5.37	3.2	clear	none
1205	0.75	1.50	0.09	***	5.97	27.86	87	5.10	0.8	clear	none
			waited to replenish								
1214	0.50	2.00	0.90	***	5.79	27.93	86	5.24	2.0	clear	none
1222	0.50	2.50	0.90	***	5.73	27.95	84	5.36	4.3	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:	ENDED:	1222
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
										BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-4	SAMPLE DATE:	

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	15.50	STATIC WATER:	dry	GALLONS / FOOT:	0.16	1 WELL VOLUME=	#VALUE!

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1014		0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

					VERIFIED:		
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):			TUBING MATERIAL CODE:		
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	103016	1	BP
SAL	PE	125	na	na	na	<2	Fe,Hg,Na,	92016	3	BP
1	PE	125	na	na	na	na	Cl,	101316	2	BP
1	PE	250	na	na	na	na	TDS, TURB	103016	1	BP
1	PE	125	na	na	na	na	NH3	101316	02	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-24S	SAMPLE DATE:	November 13, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	29.00	STATIC WATER:	17.46	GALLONS / FOOT:	0.16	1 WELL VOLUME=	1.85

Mesured TWD 29 ' today

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1318	1418	9.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1336	3.00	3.00	0.56	17.47	6.67	26.77	523	3.44	41.6	cloudy	None
1355	3.00	6.00	0.56	17.47	6.65	26.64	521	2.88	10.6	cloudy	None
1412	3.00	9.00	0.53	17.00	6.64	26.61	522	2.49	1.3	clear	None

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN BERNAL	*Martian Bernal*				ENDED:	1412
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			BP
pace lab	PE	125	na	na	na	<2	Fe,Hg,Na,	Pace container		BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS, TURB			BP
1	PE	125	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

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

2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-24D	SAMPLE DATE:	November 13, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	47.00	STATIC WATER:	17.67	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.69

measured 47 today

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
				0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1302	5.00	5.00	0.53	17.68	7.17	25.88	551	1.62	2.1	CLEAR	None
1318	5.00	10.00	0.53	17.68	7.16	25.80	552	1.68	0.3	CLEAR	None
1322	2.00	12.00	0.53	17.68	7.17	25.86	550	1.53	0.1	CLEAR	NONE

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL		VERIFIED:	ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:	
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):	DUPLICATE

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3			BP
Pace Lab	PE	250	na	na	na	<2	Fe,Hg,Na,	pace container		BP
1	PE	125	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS, TURB			BP
1	PE	250	na	na	na	na	NH3			BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	RESOURCE RECOVERY	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-25S	SAMPLE DATE:	October 30, 2017

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	17.50	STATIC WATER:	14.18	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0.53

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1608	1615	0.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1210	0.00										

***WATER LEVEL IS BELOW TOP OF PUMP.

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL			VERIFIED:		ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD		BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH			DATE	SERIES	
NONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BP
NGVD:											

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	2MW-19D	SAMPLE DATE:	

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	55.00	STATIC WATER:	27.55	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.39

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1414		10.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1418	4.50	4.50	0.26	27.68	7.32	25.30	421	2.74	3.7	CLEAR	NONE
1440	2.75	7.25	0.31	27.60	7.25	25.48	426	2.18	1.1	CLEAR	NONE
1458	2.75	10.00	0.29	27.57	7.29	25.61	428	2.26	0.0	CLEAR	NONE

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

				VERIFIED:			
SAMPLED BY (PRINT):	MARIAN BERNAL					ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	101816	5	BP
SAL	PE	250	1114090	HNO3	0.5	<2	Fe,Hg,Na,	92016	3	BP
1	PE	250	na	na	na	na	Cl,	101316	1	BP
1	PE	250	na	na	na	na	TDS, TURB	101816	5	BP
1	PE	250	na	na	na	na	NH3	103016	01	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump; **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)

pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-6	SAMPLE DATE:	January 22, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	100.00	STATIC WATER:	23.14	GALLONS / FOOT:	0.65	1 WELL VOLUME=	49.96

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1225		12.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1225	0.00	0.00	NA	23.14	8.37	26.16	142	4.88	4.3	clear	none
1245	6.00	6.00	0.40	23.15	7.21	24.60	157	4.43	<0.1	clear	none
1300	6.00	12.00	0.40	23.14	7.18	24.72	157	3.62	<0.1	clear	none
1314	6.00	18.00	0.40	23.14	7.13	24.66	154	3.73	<0.1	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL	*Marian Bernal*		VERIFIED:		ENDED:	1314
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	122517	1	BP
Pace Lab	PE	250	1114090	HNO3	0.5	<2	Fe,Hg,Na,			BP
1	PE	250	na	na	na	na	Cl,			BP
1	PE	250	na	na	na	na	TDS	122517	1	BP
1	PE	250	na	na	na	na	NH3	122517	1	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)

GROUNDWATER SAMPLING DATA SHEET - PASCO COUNTY UTILITIES ENVIRONMENTAL LAB

SITE NAME:	**RESOURCE RECOVERY**	SITE LOCATION:			
WELL NO.		SAMPLE ID:	4MW-4	SAMPLE DATE:	January 22, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4				BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	50.00	STATIC WATER:	22.68	GALLONS / FOOT:	0.65	1 WELL VOLUME=	17.76

using Low -Flow method

PUMP VOL (GAL):		TUBING CAP.(GAL)		TUBING LENGTH ft		FLOW CELLVOL.		1 EQ. VOL. PURGE:	

INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (GALLONS):
		1345	1428	18.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	Ph (S.U.)	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
1356	6.00	6.00	0.33	22.68	7.31	25.68	433	2.43	5.1	clear	none
1410	6.00	12.00	0.33	22.68	7.22	25.39	436	2.62	0.8	clear	none
1426	6.00	18.00	0.33	22.68	7.24	25.29	433	1.86	<0.1	clear	none

*****WATER LEVEL IS BELOW TOP OF PUMP.**

WELL CAPACITY (Gallons Per Foot): **0.75"**=0.02; **1"**=0.04; **1.25"**=0.06; **2"**=0.16; **3"**=0.37; **4"**=0.65; **5"**=1.02; **6"**=1.47; **12"**=5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"**=0.0006; **3/16"**=0.0014; **1/4"**=0.0026; **5/16"**=0.004; **3/8"**=0.006; **1/2"**=0.010; **5/8"**=0.016

SAMPLING DATA

SAMPLED BY (PRINT):	MARIAN BERNAL			VERIFIED:		ENDED:	0
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

SAMPLE CONTAINER SPECIFICATION AND PRESERVATION							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	FINAL PH		DATE	SERIES	
1	PE	250	123751	H2SO4	0.5	<2	NO3	121717	02	BP
PACE LAB	PE	125	na	na	na	<2	Fe,Hg,Na,			BP
1	PE	125	na	na	na	na	Cl,	122517	03	BP
1	PE	250	na	na	na	na	TDS	121717	02	BP
1	PE	125	na	na	na	na	NH3	121717	02	BP
NGVD:										

MATERIAL CODES: AG=AMBER GLASS; **CG**=CLEAR GLASS; **PE**=POLYETHYLENE; **PP**=POLYPROPYLENE; **S**=SILICONE; **T**=TEFLON; **O**=OTHER

SAMPLING/PURGING EQUIPMENT CODES: **APP**=After Peristalic Pump; **B**=Bailer; **BP**=Bladder Pump; **ESP**=Electric Submersible Pump; **PP**=Peristalic Pump **RFPP**=Reverse Flow Peristalic Pump; **SM**=Straw Method(Tube Gravity Drain); **VT**=Vacuum Trap; **O**=Other(Specify)

NOTES: 1. The above does not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria For Range Of Variation Of Last Three Consecutive Readings (See FS 2212, Section 3)
pH: +/- 0.2 units **Temperature**: +/- 0.2 C **Specific Conductance**: +/-5% **Dissolved Oxygen**: all readings <= 20% saturation (see Table FS 2200-2) optionally, +/-0.2mg/L or +/-10%(whichever is greater) **Turbidity**: all readings <20 NTU; optionally+/- 5NTU or +/- 10% (whichever is greater)