PASCO COUNTY FLORIDA
OPEN SPACES, LIVEABLE 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

28 Feb 2019

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, 2018

To Whom It May Concern:

This submittal is for the Semester II, 2018 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
9. Case Narrative

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

Sincerely,

Candia E. Mulhern
Laboratory Manager

Enc.: 1

cc: Charles Cullen, PI Engineering Director
John Power, Solid Waste Director
Justin Roessler, Solid Waste Assistant Director

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

Office (727) 847-8902
Fax (727) 847-8112

DHRS #E44123

Case Narrative

CLIENT: Pasco County Solid Waste
Pasco County Resource Recovery
Facility #: 45799
Date Sampled: Quarter IV, 2018

I. SAMPLING

Laboratory field staff began sampling the groundwater monitoring wells at the Pasco County Resource Recovery Facility on November 06, 2018. The DO probe stopped working during this sampling event requiring samples to be pulled in BOD bottles with air-tight stoppers. The DO was measured upon receipt at the laboratory. No unusual environmental conditions were noted during this sampling period.

II. SAMPLE RECEIVING/CUSTODY

The samples were delivered by laboratory field personnel, received on wet ice, and the temperature of the samples maintained at ≤ 6°C. Samples were processed by the Sample Custody section of the laboratory. The samples, as received, were shipped to PACE Laboratories for analyses. There were no significant logistics or quality problems unless noted below.

III. ANALYTICAL DATA

The samples were analyzed by PACE Laboratories, a TNI certified laboratory. There were no significant logistics or quality problems unless noted below or in the text of the report.

IV. QUALITY CONTROL

There were no significant quality control problems unless noted in the attached QC reports.

V. CONCLUSIONS

The Pasco County Resource Recovery is on a semi-annual monitoring schedule and will continue to be sampled as such. There does not appear to be any outstanding anomalies noted at the site.

Candia E. Mulhern
Laboratory Manager
cmulhern@pascocountyfl.net
(727) 847-8902

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.

28 Feb 2019 (Date)

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

Digitally signed by Candia E. Mulhern
Date: 2019.02.28 15:42:29 -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
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PASCO COUNTY RESOURCE RECOVERY
EXCEEDED ANALYTES
Semester II, 2018

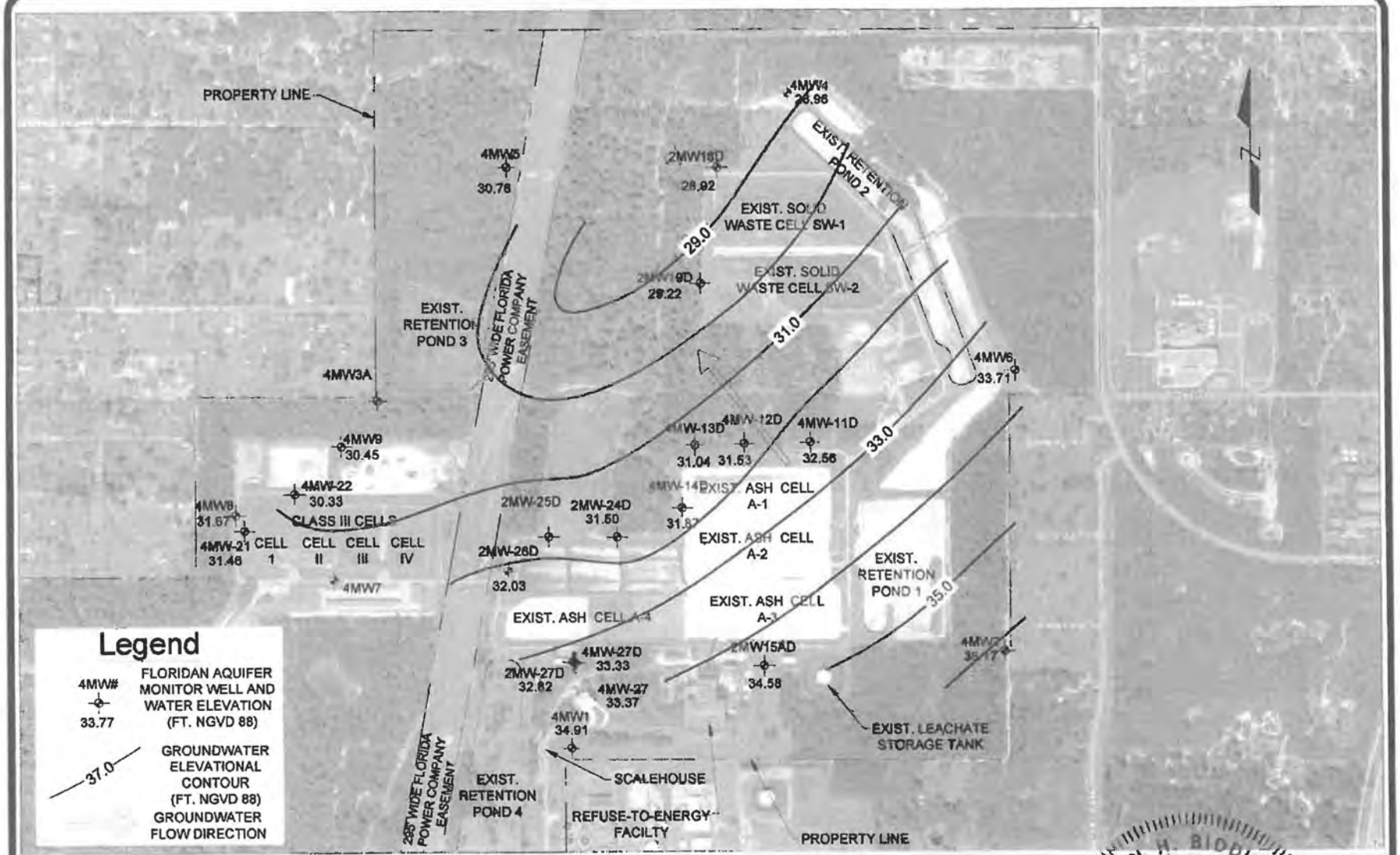
WELL #	SAMPLE DATE	ANALYTE	RESULT	UNITS	RESAMPLE	RESULT	UNITS
2MW2	29-Nov-18	pH	5.06	std units	No	---	---
		DO	7.04	mg/L	No	---	---
2MW-17S	6-Nov-18	pH	6.13	std units	No	---	---
		DO	5.76	mg/L	No	---	---
		Nitrate-Nitrite	16.1	mg/L	No	---	---
2MW-24S	7-Nov-18	Iron	3200	ug/L	No	---	---
4MW-6	3-Dec-18	DO	5.05	mg/L	No	---	---
4MW-21	19-Nov-18	pH	5.34	std units	No	---	---
		DO	7.53	mg/L	No	---	---
4MW22	19-Nov-18	DO	5.90	mg/L	No	---	---

RESOURCE RECOVERY

WATER LEVEL 2018 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	5-Nov	0912	49.95	15.25	34.70	**2MW-13D**	5-Nov	0852	52.39	DRY	#VALUE!
4MW1	5-Nov	0914	50.34	15.43	34.91	**4MW-13D**	5-Nov	0820	54.04	23.00	31.04
2MW2	5-Nov	1033	56.41	19.68	36.73	**4MW-14D**	5-Nov	0833	52.00	20.13	31.87
4MW2	5-Nov	1034	56.11	19.94	36.17	**2MW-15DA**	5-Nov	0800	54.71	20.13	34.58
2MW3A	5-Nov	1301	50.01	DRY	#VALUE!	**2MW-17S**	5-Nov	0803	53.42	24.33	29.09
4MW3A	5-Nov	1300	52.92	28.00	24.92	**2MW-18D**	5-Nov	0806	52.75	23.83	28.92
2MW4	5-Nov	1230	54.77	DRY	#VALUE!	**2MW-19D**	5-Nov	0810	52.25	23.03	29.22
4MW4	5-Nov	1053	50.81	21.85	28.96	**4MW 21**	5-Nov	1019	51.46	20.00	31.46
2MW5	5-Nov	1043	49.17	DRY	#VALUE!	**4MW 22**	5-Nov	1008	53.44	23.11	30.33
4MW5	5-Nov	0013	49.06	18.30	30.76	**2MW-24S**	5-Nov	0836	50.37	18.85	31.52
2MW6	5-Nov	1043	56.11	DRY	#VALUE!	**2MW-24D**	5-Nov	0836	50.55	19.05	31.50
4MW6	5-Nov	1046	55.95	22.24	33.71	**2MW-25S**	5-Nov	0844	47.84	16.18	31.66
2MW7	5-Nov	1045	52.75	DRY	#VALUE!	**2MW-25D**	5-Nov	0844	47.87	34.97	12.90
4MW7	5-Nov	0950	52.62	19.96	32.66	**2MW-26S**	5-Nov	0850	54.16	22.07	32.09
2MW8	5-Nov	1013	51.97	DRY	#VALUE!	**2MW-26D**	5-Nov	0850	54.13	22.10	32.03
4MW8	5-Nov	1013	51.87	20.20	31.67	**2MW-27S**	5-Nov	0900	50.44	17.15	33.29
2MW9	5-Nov	0958	52.29	DRY	#VALUE!	**2MW-27D**	5-Nov	0858	50.32	17.50	32.82
4MW9	5-Nov	0959	52.78	22.33	30.45	**4MW-27**	5-Nov	0908	49.60	16.23	33.37
2MW10	5-Nov	1009	52.63	DRY	#VALUE!	**4MW-27D**	5-Nov	0905	49.28	15.95	33.33
4MW-11D	5-Nov	0813	65.00	32.44	32.56						
4MW-12D	5-Nov	0814	55.03	23.50	31.53						

NOTES:



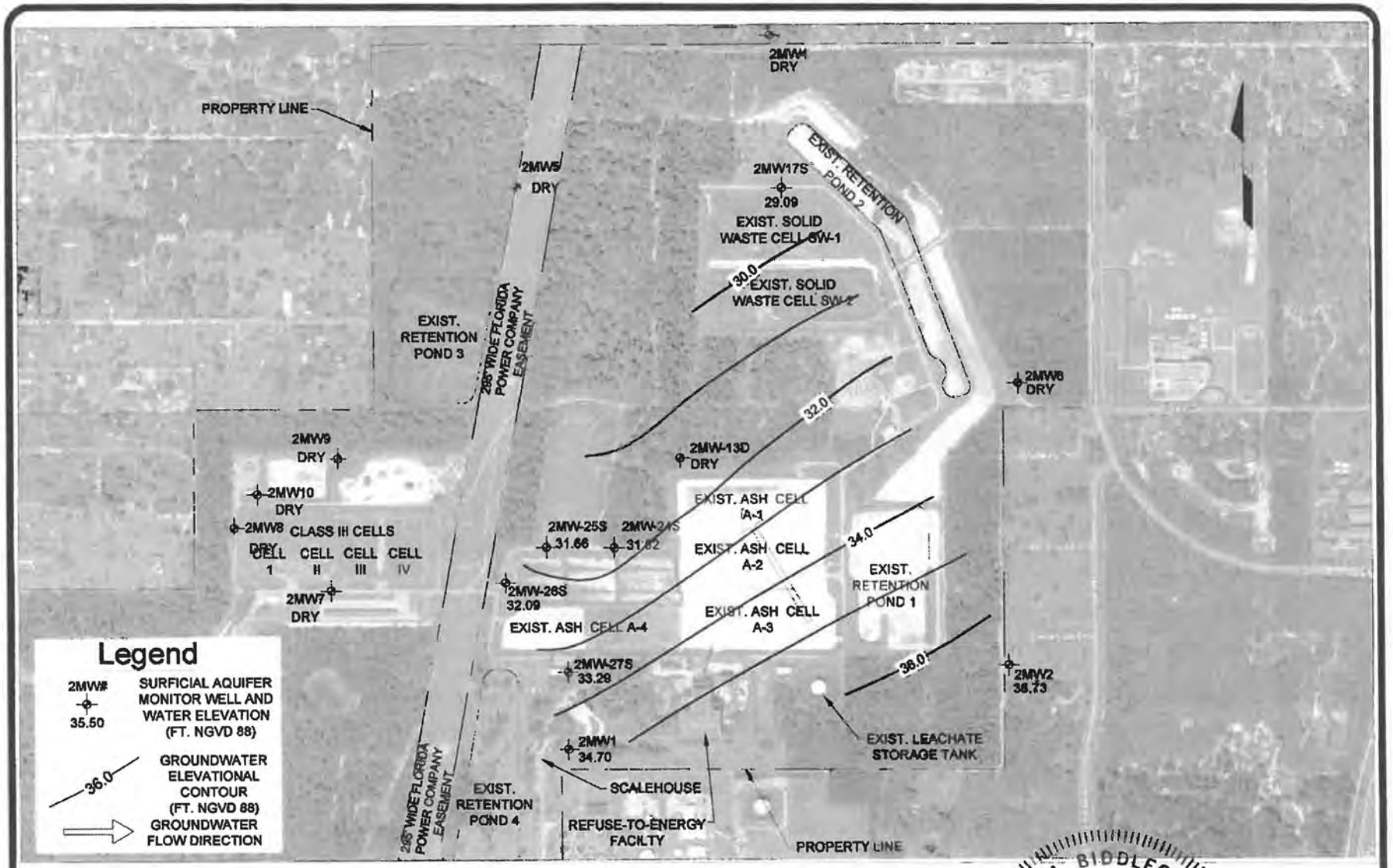
WEST PASCO RESOURCE RECOVERY FACILITY

Floridan Aquifer Groundwater Contour Map 2nd Semiannual 2018

Project Number:	Date Measured:
18-[illegible].00	November 5, 2018

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

Approved By:
Allan Biddlecomb, PG



WEST PASCO RESOURCE RECOVERY FACILITY

Surficial Aquifer Groundwater Contour Map 2nd Semiannual 2018

Scale

0 1000 2000 Feet

Project Number: 18-701.00

Date Measured: November 5, 2018

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

1/29/2019

Approved By: Allan Biddlecomb

Pasco County Utilities Environmental Laboratory Report

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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: 2/28/2019

Sample Number:	**AC73779**	Sample ID:	2MW15DA @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/6/2018	Date Received:	11/6/2018
Time Sampled:	9:41	Time Received:	15:06
Sampled By:	GTORREY	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/6/2018	9:41	GST	302	D	umhos/cm	1
pH Field	FDEP FT 1100	11/6/2018	9:41	GST	7.35	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/6/2018	9:41	GST	25.11	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/6/2018	9:41	GST	3.5	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/6/2018	9:41	GST	34.58	D	Ft.	0
Color by Observation	Observation	11/6/2018	9:41	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/6/2018	15:20	GST	3.11	Q	mg/L	0.1

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 2016 TNI Standards

State Laboratory ID: E44123
EPA Lab Code: FL00137

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CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC73780**	Sample ID:	2MW17S @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/6/2018	Date Received:	11/6/2018
Time Sampled:	10:35	Time Received:	15:06
Sampled By:	GTORREY	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/6/2018	10:35	GST	346	D	umhos/cm	1
pH Field	FDEP FT 1100	11/6/2018	10:35	GST	6.13	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/6/2018	10:35	GST	26.45	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/6/2018	10:35	GST	4	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/6/2018	10:35	GST	29.09	D	Ft.	0
Color by Observation	Observation	11/6/2018	10:35	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/6/2018	15:20	GST	5.76	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC73781**	Sample ID:	2MW18D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/6/2018	Date Received:	11/6/2018
Time Sampled:	13:22	Time Received:	15:06
Sampled By:	GTORREY	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/6/2018	13:22	GST	493	D	umhos/cm	1
pH Field	FDEP FT 1100	11/6/2018	13:22	GST	7.06	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/6/2018	13:22	GST	24.42	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/6/2018	13:22	GST	4.4	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/6/2018	14:23	GST	28.92	D	Ft.	0
Color by Observation	Observation	11/6/2018	13:22	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/6/2018	15:20	GST	2.36	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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Hours: Mon-Fri 8am-5pm

Report Date: 2/28/2019

CLIENT/SAMPLE INFORMATION

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

Sample Number:	**AC73782**	Sample ID:	2MW19D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/6/2018	Date Received:	11/6/2018
Time Sampled:	14:23	Time Received:	15:06
Sampled By:	GTORREY	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/6/2018	14:23	GST	455	D	umhos/cm	1
pH Field	FDEP FT 1100	11/6/2018	14:23	GST	7.09	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/6/2018	14:23	GST	24.90	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/6/2018	14:23	GST	3.8	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/6/2018	14:23	GST	28.42	D	Ft.	0
Color by Observation	Observation	11/6/2018	14:23	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/6/2018	15:20	GST	3.86	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC73852**	Sample ID:	2MW-24S @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/7/2018	Date Received:	11/7/2018
Time Sampled:	9:13	Time Received:	14:36
Sampled By:	GT	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/7/2018	9:13	GST	445	D	umhos/cm	1
pH Field	FDEP FT 1100	11/7/2018	9:13	GST	6.51	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/7/2018	9:13	GST	26.77	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/7/2018	9:13	GST	207	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/7/2018	9:13	GST	31.52	D	Ft.	0
Color by Observation	Observation	11/7/2018	9:13	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/7/2018	15:00	GST	4.65	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhem, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC73853**	Sample ID:	2MW-24D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/7/2018	Date Received:	11/7/2018
Time Sampled:	9:46	Time Received:	14:36
Sampled By:	GT	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/7/2018	9:46	GST	540	D	umhos/cm	1
pH Field	FDEP FT 1100	11/7/2018	9:46	GST	7.09	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/7/2018	9:46	GST	25.99	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/7/2018	9:46	GST	19.7	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/7/2018	9:46	GST	15.58	D	Ft.	0
Color by Observation	Observation	11/7/2018	9:46	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/7/2018	15:00	GST	2.74	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC73854**	Sample ID:	2MW-25D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/7/2018	Date Received:	11/7/2018
Time Sampled:	11:01	Time Received:	14:36
Sampled By:	GT	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/7/2018	11:01	GST	694	D	umhos/cm	1
pH Field	FDEP FT 1100	11/7/2018	11:01	GST	7.06	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/7/2018	11:01	GST	27.35	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/7/2018	11:01	GST	16.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/7/2018	11:01	GST	31.59	D	Ft.	0
Color by Observation	Observation	11/7/2018	11:01	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/7/2018	15:00	GST	4.41	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC73855**	Sample ID:	2MW-26D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/7/2018	Date Received:	11/7/2018
Time Sampled:	13:45	Time Received:	14:36
Sampled By:	GT	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/7/2018	13:45	GST	542	D	umhos/cm	1
pH Field	FDEP FT 1100	11/7/2018	13:45	GST	7.15	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/7/2018	13:45	GST	26.19	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/7/2018	13:45	GST	4.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/7/2018	13:45	GST	32.03	D	Ft.	0
Color by Observation	Observation	11/7/2018	13:45	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/7/2018	15:05	GST	3.41	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
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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 2016 TNI Standards

State Laboratory ID: E44123
EPA Lab Code: FL00137

Pasco County Utilities Environmental Laboratory Report

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

Report Date: 2/28/2019

CLIENT/SAMPLE INFORMATION

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

Sample Number:	**AC73882**	Sample ID:	4MW11D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/8/2018	Date Received:	11/8/2018
Time Sampled:	9:53	Time Received:	14:52
Sampled By:	GTORREY	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/8/2018	9:53	GST	337	D	umhos/cm	1
pH Field	FDEP FT 1100	11/8/2018	9:53	GST	7.25	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/8/2018	9:53	GST	25.16	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/8/2018	9:53	GST	2.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/8/2018	9:53	GST	32.56	D	Ft.	0
Color by Observation	Observation	11/8/2018	9:53	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/8/2018	15:05	GST	3.28	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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XC = Reported value exceeds the MCL (F.A.C. 62-550).
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CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC73883**	Sample ID:	4MW12D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/8/2018	Date Received:	11/8/2018
Time Sampled:	10:14	Time Received:	14:52
Sampled By:	GTORREY	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/8/2018	10:14	GST	389	D	umhos/cm	1
pH Field	FDEP FT 1100	11/8/2018	10:14	GST	7.22	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/8/2018	10:14	GST	25.56	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/8/2018	10:14	GST	2.0	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/8/2018	10:14	GST	31.53	D	Ft.	0
Color by Observation	Observation	11/8/2018	10:14	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/8/2018	15:05	GST	1.77	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC73884**	Sample ID:	4MW13D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/8/2018	Date Received:	11/8/2018
Time Sampled:	11:44	Time Received:	14:52
Sampled By:	GTORREY	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/8/2018	11:44	GST	445	D	umhos/cm	1
pH Field	FDEP FT 1100	11/8/2018	11:44	GST	7.11	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/8/2018	11:44	GST	27.55	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/8/2018	11:44	GST	2.7	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/8/2018	11:44	GST	31.04	D	Ft.	0
Color by Observation	Observation	11/8/2018	11:44	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/8/2018	15:05	GST	1.73	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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This Document Meets All the Requirements of the 2016 TNI Standards

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CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC73885**	Sample ID:	4MW14D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/8/2018	Date Received:	11/8/2018
Time Sampled:	13:20	Time Received:	14:52
Sampled By:	GTORREY	Received By:	CF
		Delivered By:	GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/8/2018	13:20	GST	393	D	umhos/cm	1
pH Field	FDEP FT 1100	11/8/2018	13:20	GST	7.26	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/8/2018	13:20	GST	27.77	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/8/2018	13:20	GST	3.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/8/2018	13:20	GST	31.87	D	Ft.	0
Color by Observation	Observation	11/8/2018	13:20	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/8/2018	15:05	GST	1.27	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC74095**	Sample ID:	2MW27D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/14/2018	Date Received:	11/14/2018
Time Sampled:	10:12	Time Received:	14:39
Sampled By:	GT	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/14/2018	10:12	GST	748	D	umhos/cm	1
pH Field	FDEP FT 1100	11/14/2018	10:12	GST	7.18	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/14/2018	10:12	GST	25.40	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/14/2018	10:12	GST	8	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/14/2018	10:12	GST	32.98	D	Ft.	0
Color by Observation	Observation	11/14/2018	10:12	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/14/2018	15:00	GST	3.20	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC74096**	Sample ID:	2MW27S @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/14/2018	Date Received:	11/14/2018
Time Sampled:	10:58	Time Received:	14:39
Sampled By:	GT	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/14/2018	10:58	GST	767	D	umhos/cm	1
pH Field	FDEP FT 1100	11/14/2018	10:58	GST	6.89	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/14/2018	10:58	GST	24.42	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/14/2018	10:58	GST	3.4	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/14/2018	10:58	GST	33	D	Ft.	0
Color by Observation	Observation	11/14/2018	10:58	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/14/2018	15:00	GST	3.74	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhem, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

West Pasco Landfill
Hays Road
Shady Hills, Fl
John Power

Report Date: 2/28/2019

Sample Number:	**AC74257**	Sample ID:	4MW22
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/19/2018	Date Received:	11/19/2018
Time Sampled:	11:04	Time Received:	14:57
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/19/2018	11:04	GST	441	D	umhos/cm	1
pH Field	FDEP FT 1100	11/19/2018	11:04	GST	7.08	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/19/2018	11:04	GST	21.03	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/19/2018	11:04	GST	5.9	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/19/2018	11:04	GST	29.92	D	Ft.	0
Color by Observation	Observation	11/19/2018	11:04	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/19/2018	15:15	GST	5.9	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC74258**	Sample ID:	4MW21 @ RES REC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/19/2018	Date Received:	11/19/2018
Time Sampled:	13:31	Time Received:	14:57
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/19/2018	13:31	GST	130	D	umhos/cm	1
pH Field	FDEP FT 1100	11/19/2018	13:31	GST	5.34	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/19/2018	13:31	GST	25.10	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/19/2018	13:31	GST	11.9	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/19/2018	13:31	GST	31.06	D	Ft.	0
Color by Observation	Observation	11/19/2018	13:31	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/19/2018	15:15	GST	7.53	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhem, Laboratory Manager

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PASCO COUNTY FLORIDA

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CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC74259**	Sample ID:	4MW7 @ Res Rec
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/19/2018	Date Received:	11/19/2018
Time Sampled:	10:02	Time Received:	14:57
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/19/2018	10:02	GST	346	D	umhos/cm	1
pH Field	FDEP FT 1100	11/19/2018	10:02	GST	7.18	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/19/2018	10:02	GST	24.53	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/19/2018	10:02	GST	2.4	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/19/2018	10:02	GST	31.24	D	Ft.	0
Color by Observation	Observation	11/19/2018	10:02	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/19/2018	15:15	GST	1.70	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC74295**	Sample ID:	4MW1 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/20/2018	Date Received:	11/20/2018
Time Sampled:	11:57	Time Received:	15:04
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/20/2018	11:57	GST	972	D	umhos/cm	1
pH Field	FDEP FT 1100	11/20/2018	11:57	GST	7.01		Std Units	0.10
Temperature Field	FDEP FT 1400	11/20/2018	11:57	GST	25.81	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/20/2018	11:57	GST	2.2	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/20/2018	11:57	GST	34.59	D	Ft.	0
Color by Observation	Observation	11/20/2018	11:57	GST	CLEAR	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/20/2018	15:20	GST	1.53	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC74296**	Sample ID:	4MW8 @ RES REC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/20/2018	Date Received:	11/20/2018
Time Sampled:	14:26	Time Received:	15:04
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/20/2018	14:26	GST	393	D	umhos/cm	1
pH Field	FDEP FT 1100	11/20/2018	14:26	GST	7.19	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/20/2018	14:26	GST	23.60	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/20/2018	14:26	GST	1.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/20/2018	14:26	GST	31.67	D	Ft.	0
Color by Observation	Observation	11/20/2018	14:26	GST	CLEAR	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/20/2018	15:20	GST	0.67	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC74419**	Sample ID:	4MW4 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/26/2018	Date Received:	11/26/2018
Time Sampled:	10:39	Time Received:	15:05
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/26/2018	10:39	GST	449	D	umhos/cm	1
pH Field	FDEP FT 1100	11/26/2018	10:39	GST	7.26	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/26/2018	10:39	GST	25.59	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/26/2018	10:39	GST	4.1	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/26/2018	10:39	GST	28.46	D	Ft.	0
Color by Observation	Observation	11/26/2018	10:39	GST	CLEAR	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/26/2018	15:20	GST	3.57	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.
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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 2016 TNI Standards

State Laboratory ID: 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: Annamarie Cangialosi, Administrative Secretary
Chris Childress, QA/QC Officer
Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC74420**	Sample ID:	4MW9 @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/26/2018	Date Received:	11/26/2018
Time Sampled:	13:49	Time Received:	15:05
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/26/2018	13:49	GST	484	D	umhos/cm	1
pH Field	FDEP FT 1100	11/26/2018	13:49	GST	7.28	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/26/2018	13:49	GST	24.55	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/26/2018	13:49	GST	2	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/26/2018	13:49	GST	30.03	D	Ft.	0
Color by Observation	Observation	11/26/2018	13:49	GST	CLEAR	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/26/2018	15:20	GST	2.69	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhem, Laboratory Manager

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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: 2/28/2019

Sample Number:	**AC74505**	Sample ID:	4MW5 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/28/2018	Date Received:	11/28/2018
Time Sampled:	12:34	Time Received:	14:45
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/28/2018	12:34	GST	583	D	umhos/cm	1
pH Field	FDEP FT 1100	11/28/2018	12:34	GST	7.23	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/28/2018	12:34	GST	22.30	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/28/2018	12:34	GST	8.7	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/28/2018	12:34	GST	29.16	D	Ft.	0
Color by Observation	Observation	11/28/2018	12:34	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/28/2018	15:00	GST	2.29	Q	mg/L	0.1

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: 2/28/2019

Sample Number:	**AC74544**	Sample ID:	4MW2 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/29/2018	Date Received:	11/29/2018
Time Sampled:	11:38	Time Received:	15:00
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/29/2018	11:38	GST	213	D	umhos/cm	1
pH Field	FDEP FT 1100	11/29/2018	11:38	GST	7.70	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/29/2018	11:38	GST	22.82	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/29/2018	11:38	GST	2.6	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/29/2018	11:38	GST	36.11	D	Ft.	0
Color by Observation	Observation	11/29/2018	11:38	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/29/2018	15:15	GST	2.88	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2016 TNI Standards

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CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC74545**	Sample ID:	2MW2 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/29/2018	Date Received:	11/29/2018
Time Sampled:	12:52	Time Received:	15:00
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/29/2018	12:52	GST	094	D	umhos/cm	1
pH Field	FDEP FT 1100	11/29/2018	12:52	GST	5.06	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/29/2018	12:52	GST	23.27	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/29/2018	12:52	GST	2.5	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/29/2018	12:52	GST	36.11	D	Ft.	0
Color by Observation	Observation	11/29/2018	12:52	GST	CLOUDY	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/29/2018	15:15	GST	7.04	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2016 TNI Standards

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EPA Lab Code: FL00137

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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: 2/28/2019

Sample Number:	**AC74602**	Sample ID:	4MW27 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/30/2018	Date Received:	11/30/2018
Time Sampled:	12:32	Time Received:	14:46
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/30/2018	12:32	GST	625	D	umhos/cm	1
pH Field	FDEP FT 1100	11/30/2018	12:32	GST	7.33	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/30/2018	12:32	GST	24.79	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/30/2018	12:32	GST	2.5	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/30/2018	12:32	GST	32.66	D	Ft.	0
Color by Observation	Observation	11/30/2018	12:32	GST	CLEAR	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/30/2018	15:15	GST	3.49	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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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 2016 TNI Standards

State Laboratory ID: E44123
EPA Lab Code: FL00137

Pasco County Utilities Environmental Laboratory Report

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Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

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

Report Date: 2/28/2019

Sample Number:	**AC74603**	Sample ID:	4MW3A @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	11/30/2018	Date Received:	11/30/2018
Time Sampled:	14:00	Time Received:	14:46
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	11/30/2018	14:00	GST	459	D	umhos/cm	1
pH Field	FDEP FT 1100	11/30/2018	14:00	GST	7.19	D	Std Units	0.10
Temperature Field	FDEP FT 1400	11/30/2018	14:00	GST	24.10	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	11/30/2018	14:00	GST	2.5	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	11/30/2018	14:00	GST	23.97	D	Ft.	0
Color by Observation	Observation	11/30/2018	14:00	GST	CLEAR	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	11/30/2018	15:15	GST	1.93	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123
EPA Lab Code: FL00137

PASCO COUNTY FLORIDA

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: 2/28/2019

Sample Number:	**AC74659**	Sample ID:	4MW6 @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	12/3/2018	Date Received:	12/3/2018
Time Sampled:	13:42	Time Received:	14:35
Sampled By:	GTORREY	Received By:	LR
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	12/3/2018	13:42	GST	160	D	umhos/cm	1
pH Field	FDEP FT 1100	12/3/2018	13:42	GST	7.94	D	Std Units	0.10
Temperature Field	FDEP FT 1400	12/3/2018	13:42	GST	24.17	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	12/3/2018	13:42	GST	4.4	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	12/3/2018	13:42	GST	32.95	D	Ft.	0
Color by Observation	Observation	12/3/2018	13:42	GST	CLEAR	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	12/3/2018	14:50	GST	5.05	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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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: 2/28/2019

Sample Number:	**AC74834**	Sample ID:	4MW27D @ RESREC
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	12/6/2018	Date Received:	12/6/2018
Time Sampled:	17:02	Time Received:	17:30
Sampled By:	GT	Received By:	KS
		Delivered By:	GT

REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Conductivity Field	FDEP FT 1200	12/26/2018	17:02	GST	277	D	umhos/cm	1
pH Field	FDEP FT 1100	12/26/2018	17:02	GST	7.47	D	Std Units	0.10
Temperature Field	FDEP FT 1400	12/26/2018	17:02	GST	23.47	D	Deg C	0.00
Turbidity Field	FDEP FT 1600	12/26/2018	17:02	GST	4.8	D	NTU	0.00
Water Level (NGVD)	DEP-SOP	12/26/2018	17:02	GST	32.18	D	Ft.	0
Color by Observation	Observation	12/26/2018	17:02	GST	CLEAR	D	ObsColor	0
Dissolved Oxygen	SM 4500-O G	12/6/2018	17:45	GST	3.34	Q	mg/L	0.1

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123
EPA Lab Code: FL00137

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

November 27, 2018

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

RE: Project: RES REC
Pace Project No.: 35429130

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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

CERTIFICATIONS

Project: RES REC
Pace Project No.: 35429130

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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: RES REC
Pace Project No.: 35429130

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35429130001	**AC73779**	Water	11/06/18 09:41	11/07/18 13:40
35429130002	**AC73780**	Water	11/06/18 10:35	11/07/18 13:40
35429130003	**AC73781**	Water	11/06/18 13:22	11/07/18 13:40
35429130004	**AC73782**	Water	11/06/18 14:23	11/07/18 13:40

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SAMPLE ANALYTE COUNT

Project: RES REC
Pace Project No.: 35429130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429130001	**AC73779**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429130002	**AC73780**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429130003	**AC73781**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429130004	**AC73782**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O

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ANALYTICAL RESULTS

Project: RES REC
Pace Project No.: 35429130

Sample: AC73779 **Lab ID: 35429130001** Collected: 11/06/18 09:41 Received: 11/07/18 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	11/13/18 17:45	11/14/18 08:54	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/13/18 17:45	11/14/18 08:54	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/09/18 03:46	11/09/18 17:16	7440-38-2	
Barium	**9.4 I**	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:16	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:16	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:16	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:16	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:16	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:16	7440-50-8	
Iron	**33.3 I**	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:16	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 03:46	11/09/18 17:16	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:16	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 03:46	11/09/18 17:16	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:16	7440-22-4	
Sodium	**4.2**	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:16	7440-23-5	
Vanadium	**2.0 I**	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:16	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:16	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	11/09/18 03:48	11/09/18 15:31	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:16	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 13:05	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:05	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 13:05	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 13:05	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 13:05	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:05	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:05	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 13:05	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 13:05	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 13:05	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 13:05	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 13:05	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	95-50-1	

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ANALYTICAL RESULTS

Project: RES REC
Pace Project No.: 35429130

Sample: AC73779 **Lab ID: 35429130001** Collected: 11/06/18 09:41 Received: 11/07/18 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		11/15/18 13:05	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:05	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 13:05	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 13:05	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:05	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 13:05	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 13:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:05	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 13:05	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 13:05	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 13:05	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:05	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 13:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/15/18 13:05	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/15/18 13:05	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/15/18 13:05	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**180**	mg/L	5.0	5.0	1		11/13/18 18:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**8.4**	mg/L	5.0	2.5	1		11/08/18 10:21	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/12/18 11:28	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.13**	mg/L	0.050	0.025	1		11/08/18 12:14		

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ANALYTICAL RESULTS

Project: RES REC
Pace Project No.: 35429130

Sample: AC73780 **Lab ID: 35429130002** Collected: 11/06/18 10:35 Received: 11/07/18 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	11/13/18 17:45	11/14/18 09:09	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/13/18 17:45	11/14/18 09:09	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/09/18 03:46	11/09/18 17:18	7440-38-2	
Barium	**16.1**	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:18	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:18	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:18	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:18	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:18	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:18	7440-50-8	
Iron	**14.2 I**	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:18	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 03:46	11/09/18 17:18	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:18	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 03:46	11/09/18 17:18	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:18	7440-22-4	
Sodium	**5.1**	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:18	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:18	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:18	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	11/09/18 03:48	11/09/18 15:33	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:19	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 13:29	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:29	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 13:29	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 13:29	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 13:29	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:29	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:29	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 13:29	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 13:29	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 13:29	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 13:29	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 13:29	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	95-50-1	

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ANALYTICAL RESULTS

Project: RES REC
Pace Project No.: 35429130

Sample: AC73780 **Lab ID: 35429130002** Collected: 11/06/18 10:35 Received: 11/07/18 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		11/15/18 13:29	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:29	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 13:29	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 13:29	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:29	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 13:29	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 13:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:29	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 13:29	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 13:29	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 13:29	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:29	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 13:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/15/18 13:29	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/15/18 13:29	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/15/18 13:29	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**230**	mg/L	5.0	5.0	1		11/13/18 18:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.6**	mg/L	5.0	2.5	1		11/08/18 10:40	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/12/18 11:34	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**16.1**	mg/L	0.50	0.25	10		11/08/18 12:58		

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ANALYTICAL RESULTS

Project: RES REC
Pace Project No.: 35429130

Sample: AC73781 **Lab ID: 35429130003** Collected: 11/06/18 13:22 Received: 11/07/18 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	11/13/18 17:45	11/14/18 09:24	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/13/18 17:45	11/14/18 09:24	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/09/18 03:46	11/09/18 17:21	7440-38-2	
Barium	**10.0**	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:21	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:21	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:21	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:21	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:21	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:21	7440-50-8	
Iron	**15.4 I**	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:21	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 03:46	11/09/18 17:21	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:21	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 03:46	11/09/18 17:21	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:21	7440-22-4	
Sodium	**10.9**	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:21	7440-23-5	
Vanadium	**2.9 I**	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:21	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:21	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	11/09/18 03:48	11/09/18 15:35	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:21	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 13:53	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:53	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 13:53	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 13:53	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 13:53	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:53	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:53	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 13:53	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 13:53	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 13:53	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 13:53	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 13:53	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	95-50-1	

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ANALYTICAL RESULTS

Project: RES REC
Pace Project No.: 35429130

Sample: AC73781 **Lab ID: 35429130003** Collected: 11/06/18 13:22 Received: 11/07/18 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		11/15/18 13:53	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:53	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 13:53	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 13:53	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:53	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 13:53	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 13:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 13:53	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 13:53	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 13:53	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 13:53	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 13:53	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 13:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/15/18 13:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/15/18 13:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/15/18 13:53	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**297**	mg/L	5.0	5.0	1		11/13/18 18:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**27.5**	mg/L	5.0	2.5	1		11/08/18 11:00	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/12/18 11:35	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.64**	mg/L	0.050	0.025	1		11/08/18 12:16		

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ANALYTICAL RESULTS

Project: RES REC
Pace Project No.: 35429130

Sample: AC73782 **Lab ID: 35429130004** Collected: 11/06/18 14:23 Received: 11/07/18 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	11/13/18 17:45	11/14/18 09:38	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/13/18 17:45	11/14/18 09:38	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/09/18 03:46	11/09/18 17:24	7440-38-2	
Barium	**9.2 I**	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:24	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:24	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:24	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:24	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:24	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:24	7440-50-8	
Iron	**26.6 I**	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:24	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 03:46	11/09/18 17:24	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:24	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 03:46	11/09/18 17:24	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:24	7440-22-4	
Sodium	**7.4**	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:24	7440-23-5	
Vanadium	**2.6 I**	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:24	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:24	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	11/09/18 03:48	11/09/18 15:37	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:27	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 14:18	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:18	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 14:18	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 14:18	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 14:18	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:18	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:18	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 14:18	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 14:18	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 14:18	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 14:18	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 14:18	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	95-50-1	

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ANALYTICAL RESULTS

Project: RES REC
Pace Project No.: 35429130

Sample: AC73782 **Lab ID: 35429130004** Collected: 11/06/18 14:23 Received: 11/07/18 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		11/15/18 14:18	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:18	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 14:18	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 14:18	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:18	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 14:18	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 14:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:18	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 14:18	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 14:18	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 14:18	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:18	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 14:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/15/18 14:18	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/15/18 14:18	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/15/18 14:18	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**259**	mg/L	5.0	5.0	1		11/13/18 18:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**17.6**	mg/L	5.0	2.5	1		11/08/18 11:19	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/12/18 11:37	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.24**	mg/L	0.050	0.025	1		11/08/18 12:20		

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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

QC Batch: 495344 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2679174 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/26/18 15:34	

LABORATORY CONTROL SAMPLE: 2679175

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: 2679176 2679177

Parameter	Units	35429035001 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	2.0	104	102	75-125	2	20	

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: RES REC
Pace Project No.: 35429130

QC Batch: 492355 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2662661 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1	U	10.0	7.1	11/09/18 15:45	
Barium	ug/L	0.84	U	10.0	0.84	11/09/18 15:45	
Beryllium	ug/L	1.6	U	4.0	1.6	11/09/18 15:45	
Cadmium	ug/L	0.33	U	1.0	0.33	11/09/18 15:45	
Chromium	ug/L	1.7	U	5.0	1.7	11/09/18 15:45	
Cobalt	ug/L	0.96	U	10.0	0.96	11/09/18 15:45	
Copper	ug/L	2.6	U	5.0	2.6	11/09/18 15:45	
Iron	ug/L	9.2	U	40.0	9.2	11/09/18 15:45	
Lead	ug/L	4.6	U	10.0	4.6	11/09/18 15:45	
Nickel	ug/L	2.1	U	5.0	2.1	11/09/18 15:45	
Selenium	ug/L	8.5	U	15.0	8.5	11/09/18 15:45	
Silver	ug/L	1.0	U	5.0	1.0	11/09/18 15:45	
Sodium	mg/L	0.27	U	2.0	0.27	11/09/18 15:45	
Vanadium	ug/L	1.0	U	10.0	1.0	11/09/18 15:45	
Zinc	ug/L	11.0	U	20.0	11.0	11/09/18 15:45	

LABORATORY CONTROL SAMPLE: 2662662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	249	100	80-120	
Barium	ug/L	250	259	103	80-120	
Beryllium	ug/L	25	25.2	101	80-120	
Cadmium	ug/L	25	25.9	104	80-120	
Chromium	ug/L	250	257	103	80-120	
Cobalt	ug/L	250	260	104	80-120	
Copper	ug/L	250	250	100	80-120	
Iron	ug/L	2500	2590	104	80-120	
Lead	ug/L	250	262	105	80-120	
Nickel	ug/L	250	263	105	80-120	
Selenium	ug/L	250	256	103	80-120	
Silver	ug/L	25	25.7	103	80-120	
Sodium	mg/L	12.5	13.1	105	80-120	
Vanadium	ug/L	250	255	102	80-120	
Zinc	ug/L	1250	1310	105	80-120	

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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662663 2662664

Parameter	Units	35429268001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	8.6 I	250	250	259	254	100	98	75-125	2	20	
Barium	ug/L	20.4	250	250	276	272	102	101	75-125	1	20	
Beryllium	ug/L	1.6 U	25	25	24.8	24.5	99	98	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	25.5	25.3	102	101	75-125	1	20	
Chromium	ug/L	1.7 U	250	250	257	254	102	101	75-125	1	20	
Cobalt	ug/L	0.96 U	250	250	261	259	104	103	75-125	1	20	
Copper	ug/L	2.6 U	250	250	253	250	101	100	75-125	1	20	
Iron	ug/L	5230	2500	2500	7700	7590	99	94	75-125	1	20	
Lead	ug/L	4.6 U	250	250	256	254	102	101	75-125	1	20	
Nickel	ug/L	2.1 U	250	250	262	259	104	103	75-125	1	20	
Selenium	ug/L	8.5 U	250	250	254	250	101	99	75-125	1	20	
Silver	ug/L	1.0 U	25	25	25.7	25.1	103	101	75-125	2	20	
Sodium	mg/L	8.5	12.5	12.5	21.6	21.5	105	104	75-125	1	20	
Vanadium	ug/L	5.5 I	250	250	262	259	103	102	75-125	1	20	
Zinc	ug/L	11.0 U	1250	1250	1270	1260	102	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

QC Batch: 492354 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2662657 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/10/18 14:40	
Thallium	ug/L	0.50 U	1.0	0.50	11/10/18 14:40	

LABORATORY CONTROL SAMPLE: 2662658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.5	101	80-120	
Thallium	ug/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662659 2662660

Parameter	Units	35429268002 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	49.3	49.4	98	99	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	49.4	50.1	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

QC Batch: 493994 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2672034 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/15/18 09:49	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/15/18 09:49	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
Acetone	ug/L	10.0 U	20.0	10.0	11/15/18 09:49	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
Benzene	ug/L	0.10 U	1.0	0.10	11/15/18 09:49	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/15/18 09:49	
Bromoform	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/15/18 09:49	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/15/18 09:49	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/15/18 09:49	
Chloroform	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/15/18 09:49	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/15/18 09:49	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/15/18 09:49	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/15/18 09:49	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/15/18 09:49	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/15/18 09:49	
Styrene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Toluene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/15/18 09:49	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	

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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

METHOD BLANK: 2672034 Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/15/18 09:49	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/15/18 09:49	
1,2-Dichloroethane-d4 (S)	%	98	70-130		11/15/18 09:49	
4-Bromofluorobenzene (S)	%	101	70-130		11/15/18 09:49	
Toluene-d8 (S)	%	104	70-130		11/15/18 09:49	

LABORATORY CONTROL SAMPLE: 2672035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	25.2	126	70-130	
1,1,1-Trichloroethane	ug/L	20	21.3	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	68-125	
1,1,2-Trichloroethane	ug/L	20	23.0	115	70-130	
1,1-Dichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	20	17.7	89	66-133	
1,2,3-Trichloropropane	ug/L	20	20.3	102	62-127	
1,2-Dichlorobenzene	ug/L	20	22.4	112	70-130	
1,2-Dichloroethane	ug/L	20	19.8	99	70-130	
1,2-Dichloropropane	ug/L	20	20.1	100	70-130	
1,4-Dichlorobenzene	ug/L	20	21.6	108	70-130	
2-Butanone (MEK)	ug/L	40	37.0	93	47-143	
2-Hexanone	ug/L	40	33.6	84	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	34.1	85	57-132	
Acetone	ug/L	40	38.0	95	46-148	
Acrylonitrile	ug/L	200	172	86	60-143	
Benzene	ug/L	20	20.6	103	70-130	
Bromochloromethane	ug/L	20	22.1	111	70-130	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	21.5	108	49-126	
Bromomethane	ug/L	20	25.2	126	10-165	
Carbon disulfide	ug/L	20	14.2	71	60-141	
Carbon tetrachloride	ug/L	20	21.6	108	63-126	
Chlorobenzene	ug/L	20	21.7	109	70-130	
Chloroethane	ug/L	20	18.3	92	71-142	
Chloroform	ug/L	20	20.2	101	70-130	
Chloromethane	ug/L	20	13.7	69	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.4	92	70-130	
Dibromochloromethane	ug/L	20	20.1	101	62-118	
Dibromomethane	ug/L	20	24.1	121	70-130	
Ethylbenzene	ug/L	20	21.5	108	70-130	
Iodomethane	ug/L	40	22.0	55	10-164	

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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

LABORATORY CONTROL SAMPLE: 2672035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	20.1	101	65-136	
Styrene	ug/L	20	21.8	109	70-130	
Tetrachloroethene	ug/L	20	23.6	118	64-134	
Toluene	ug/L	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	68-127	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	42-129	
Trichloroethene	ug/L	20	22.3	111	70-130	
Trichlorofluoromethane	ug/L	20	15.3	77	65-135	
Vinyl acetate	ug/L	20	19.7	99	60-144	
Vinyl chloride	ug/L	20	17.1	85	68-131	
Xylene (Total)	ug/L	60	66.9	112	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2673837

Parameter	Units	35429012002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	21.2	106	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	17.7	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.0	85	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.0	85	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	15.8	79	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	16.6	83	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.6	88	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.4	81	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.1	80	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.0	85	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	37.3	93	47-143	
2-Hexanone	ug/L	5.0 U	40	31.4	78	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	31.7	79	57-132	
Acetone	ug/L	10.0 U	40	34.1	85	46-148	
Acrylonitrile	ug/L	5.0 U	200	157	79	60-143	
Benzene	ug/L	0.10 U	20	16.9	85	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.7	94	70-130	
Bromodichloromethane	ug/L	0.27 U	20	16.6	83	70-130	
Bromoform	ug/L	0.50 U	20	15.4	77	49-126	
Bromomethane	ug/L	0.50 U	20	25.6	128	10-165	
Carbon disulfide	ug/L	5.0 U	20	15.7	78	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	17.4	87	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.2	89	70-130	
Chloroethane	ug/L	0.50 U	20	19.3	97	71-142	
Chloroform	ug/L	0.50 U	20	16.6	83	70-130	

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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

MATRIX SPIKE SAMPLE: 2673837

Parameter	Units	35429012002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	13.0	65	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	15.3	76	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.3	66	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	15.5	78	62-118	
Dibromomethane	ug/L	0.50 U	20	18.9	95	70-130	
Ethylbenzene	ug/L	0.50 U	20	17.7	89	70-130	
Iodomethane	ug/L	0.50 U	40	8.6 I	21	10-164	
Methylene Chloride	ug/L	2.5 U	20	16.5	82	65-136	
Styrene	ug/L	0.50 U	20	16.1	80	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.5	88	64-134	
Toluene	ug/L	0.50 U	20	17.3	86	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	16.3	82	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.8	74	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	12.8	64	42-129	
Trichloroethene	ug/L	0.50 U	20	18.2	91	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	16.3	82	65-135	
Vinyl acetate	ug/L	1.0 U	20	16.8	84	60-144	
Vinyl chloride	ug/L	0.50 U	20	16.6	83	68-131	
Xylene (Total)	ug/L	1.5 U	60	53.1	89	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2673836

Parameter	Units	35429012001 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	0.22 I	0.22 I		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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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

SAMPLE DUPLICATE: 2673836

Parameter	Units	35429012001 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	1.9	1.8	6	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)	%	101	101	1	40	
4-Bromofluorobenzene (S)	%	97	101	4	40	
Toluene-d8 (S)	%	102	102	0	40	

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

QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

QC Batch: 493345 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2668281 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/14/18 08:25	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/14/18 08:25	

LABORATORY CONTROL SAMPLE: 2668282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.27	108	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.27	109	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2668657 2668658

Parameter	Units	35429130004 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	0.51	0.54	116	123	60-140	6	40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.52	0.53	119	121	60-140	2	40	

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REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

QC Batch: 492332 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2662446 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/13/18 18:27	

LABORATORY CONTROL SAMPLE: 2662447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	90-110	

SAMPLE DUPLICATE: 2662448

Parameter	Units	35429002001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	21.0	20.0	5	5	

SAMPLE DUPLICATE: 2662449

Parameter	Units	35429012003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0 U		5	

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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

QC Batch: 492122 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2661197 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/08/18 09:42	

LABORATORY CONTROL SAMPLE: 2661198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661199 2661200

Parameter	Units	35428577001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.3	50	50	57.0	57.7	102	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661201 2661202

Parameter	Units	35429012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.3	50	50	75.0	75.3	101	102	90-110	0	20	

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

QC Batch: 492891 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2665622 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/12/18 11:11	

LABORATORY CONTROL SAMPLE: 2665623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 2665625

Parameter	Units	35429035001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	0.93	91	90-110	

SAMPLE DUPLICATE: 2665624

Parameter	Units	35429035001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 U		20	

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: RES REC
Pace Project No.: 35429130

QC Batch: 492015 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

METHOD BLANK: 2660884 | Matrix: Water
Associated Lab Samples: 35429130001, 35429130002, 35429130003, 35429130004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	11/08/18 11:56	

LABORATORY CONTROL SAMPLE: 2660885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 2660887

Parameter	Units	35429125001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	2	1.8	90	90-110	

MATRIX SPIKE SAMPLE: 2660889

Parameter	Units	35429130003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.64	2	2.5	92	90-110	

SAMPLE DUPLICATE: 2660886

Parameter	Units	35429125001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2660888

Parameter	Units	35429130003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.64	0.64	1	20	

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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: RES REC
Pace Project No.: 35429130

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RES REC
Pace Project No.: 35429130

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429130001	**AC73779**	EPA 8011	493345	EPA 8011	493457
35429130002	**AC73780**	EPA 8011	493345	EPA 8011	493457
35429130003	**AC73781**	EPA 8011	493345	EPA 8011	493457
35429130004	**AC73782**	EPA 8011	493345	EPA 8011	493457
35429130001	**AC73779**	EPA 3010	492355	EPA 6010	492393
35429130002	**AC73780**	EPA 3010	492355	EPA 6010	492393
35429130003	**AC73781**	EPA 3010	492355	EPA 6010	492393
35429130004	**AC73782**	EPA 3010	492355	EPA 6010	492393
35429130001	**AC73779**	EPA 3010	492354	EPA 6020	492391
35429130002	**AC73780**	EPA 3010	492354	EPA 6020	492391
35429130003	**AC73781**	EPA 3010	492354	EPA 6020	492391
35429130004	**AC73782**	EPA 3010	492354	EPA 6020	492391
35429130001	**AC73779**	EPA 7470	495344	EPA 7470	495728
35429130002	**AC73780**	EPA 7470	495344	EPA 7470	495728
35429130003	**AC73781**	EPA 7470	495344	EPA 7470	495728
35429130004	**AC73782**	EPA 7470	495344	EPA 7470	495728
35429130001	**AC73779**	EPA 8260	493994		
35429130002	**AC73780**	EPA 8260	493994		
35429130003	**AC73781**	EPA 8260	493994		
35429130004	**AC73782**	EPA 8260	493994		
35429130001	**AC73779**	SM 2540C	492332		
35429130002	**AC73780**	SM 2540C	492332		
35429130003	**AC73781**	SM 2540C	492332		
35429130004	**AC73782**	SM 2540C	492332		
35429130001	**AC73779**	EPA 300.0	492122		
35429130002	**AC73780**	EPA 300.0	492122		
35429130003	**AC73781**	EPA 300.0	492122		
35429130004	**AC73782**	EPA 300.0	492122		
35429130001	**AC73779**	EPA 350.1	492891		
35429130002	**AC73780**	EPA 350.1	492891		
35429130003	**AC73781**	EPA 350.1	492891		
35429130004	**AC73782**	EPA 350.1	492891		
35429130001	**AC73779**	EPA 353.2	492015		
35429130002	**AC73780**	EPA 353.2	492015		
35429130003	**AC73781**	EPA 353.2	492015		
35429130004	**AC73782**	EPA 353.2	492015		

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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: 8.8 C ° C (or Received on Ice, ROI)
Condition of Contents:

FOR LAB USE ONLY
WO# : 35429130
35429130

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

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

3. Client Project Name: RES REC

4. Sampled by: (Print) GREG TORREY

5. Sampled by: (Signature) [signature]

6. Shipping Method: COURIER

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. 13. Preservatives: N S C T
14. Containers: P P P G
15. Analyses Requested

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	FE HG NA	NO3 NH3	Cl TDS	APPENDIX I					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC73779	2MW-15DA	11-6-18	9:41		✓	GW					8	✓	✓	✓	✓						
2.	AC73780	2MW-17S	11-6-18	10:35		✓	GW					8	✓	✓	✓	✓						
3.	AC73781	2MW-18D	11-6-18	13:22		✓	GW					8	✓	✓	✓	✓					Sent to	
4.	AC73782	2MW-19D	11-6-18	14:23		✓	GW					8	✓	✓	✓	✓					PACE	
5.																					[initials] 11/7/18	
6.																						
7.																						
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. [signature]	11-6-18	15:06	[initials]	11/6/18	15:06
2. [signature]	11/7/18	1255	[initials] T202	11-7-18	1255
3. [initials]	11-7-18	1340	[signature] / PACE 0.9	11-7-18	1340
4.					

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35429130

Project Manager: PM: ADA **Due Date:** 11/27/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label: 11/7/18
Deliver:
pH:

Thermometer Used: T-202 Date: 11-7-18 Time: 1340 Initials: WJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	0.9 (Visual)	0.0 (Correction Factor)	0.9 (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	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 27, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35429772

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Resource Recovery
Pace Project No.: 35429772

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35429772

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35429772001	**AC73852 (2MW-24S)**	Water	11/07/18 09:13	11/09/18 12:52
35429772002	**AC73853 (2MW-24D)**	Water	11/07/18 09:46	11/09/18 12:52
35429772003	**AC73854 (2MW-25D)**	Water	11/07/18 11:01	11/09/18 12:52
35429772004	**AC73855 (2MW-26D)**	Water	11/07/18 13:45	11/09/18 12:52

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SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35429772

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429772001	**AC73852 (2MW-24S)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC, SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35429772002	**AC73853 (2MW-24D)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC, SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35429772003	**AC73854 (2MW-25D)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC, SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35429772004	**AC73855 (2MW-26D)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC, SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429772

Sample: AC73852 (2MW-24S) **Lab ID: 35429772001** Collected: 11/07/18 09:13 Received: 11/09/18 12:52 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	11/15/18 00:08	11/15/18 14:17	96-12-8	
1,2-Dibromoethane (EDB)	**0.0071 U**	ug/L	0.0095	0.0071	1	11/15/18 00:08	11/15/18 14:17	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/24/18 03:01	11/27/18 13:56	7440-38-2	
Barium	**32.7**	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 13:56	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 13:56	7440-41-7	
Cadmium	**0.56 I**	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 13:56	7440-43-9	
Chromium	**13.9**	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 13:56	7440-47-3	
Cobalt	**7.0 I**	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 13:56	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 13:56	7440-50-8	
Iron	**3200**	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 13:56	7439-89-6	J(M1)
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/24/18 03:01	11/27/18 13:56	7439-92-1	
Nickel	**12.2**	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 13:56	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 13:56	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 11:33	7440-22-4	
Sodium	**6.6**	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 13:56	7440-23-5	
Vanadium	**21.6**	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 13:56	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 13:56	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	11/24/18 03:03	11/24/18 12:42	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 12:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/16/18 17:25	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:25	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/16/18 17:25	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/16/18 17:25	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/16/18 17:25	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:25	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:25	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/16/18 17:25	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/16/18 17:25	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/16/18 17:25	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/16/18 17:25	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/16/18 17:25	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429772

Sample: AC73852 (2MW-24S) **Lab ID: 35429772001** Collected: 11/07/18 09:13 Received: 11/09/18 12:52 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		11/16/18 17:25	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:25	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/16/18 17:25	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/16/18 17:25	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:25	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/16/18 17:25	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/16/18 17:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:25	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/16/18 17:25	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/16/18 17:25	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/16/18 17:25	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:25	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/16/18 17:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/16/18 17:25	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/16/18 17:25	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 17:25	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**265**	mg/L	5.0	5.0	1		11/12/18 14:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.5**	mg/L	5.0	2.5	1		11/16/18 13:26	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 10:59	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**5.8**	mg/L	0.25	0.12	5		11/10/18 10:57		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429772

Sample: AC73853 (2MW-24D) **Lab ID: 35429772002** Collected: 11/07/18 09:46 Received: 11/09/18 12:52 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	11/15/18 00:08	11/15/18 14:32	96-12-8	
1,2-Dibromoethane (EDB)	**0.0071 U**	ug/L	0.0095	0.0071	1	11/15/18 00:08	11/15/18 14:32	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/24/18 03:01	11/27/18 14:07	7440-38-2	
Barium	**16.2**	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:07	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:07	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:07	7440-43-9	
Chromium	**2.0 I**	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:07	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:07	7440-48-4	
Copper	**2.6 I**	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:07	7440-50-8	
Iron	**145**	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:07	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/24/18 03:01	11/27/18 14:07	7439-92-1	
Nickel	**2.9 I**	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:07	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:07	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 11:44	7440-22-4	
Sodium	**19.9**	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:07	7440-23-5	
Vanadium	**1.9 I**	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:07	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:07	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	11/24/18 03:03	11/24/18 12:43	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 12:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:48	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/16/18 17:49	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:49	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/16/18 17:49	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/16/18 17:49	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/16/18 17:49	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:49	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:49	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/16/18 17:49	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/16/18 17:49	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/16/18 17:49	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/16/18 17:49	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/16/18 17:49	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429772

Sample: AC73853 (2MW-24D) **Lab ID: 35429772002** Collected: 11/07/18 09:46 Received: 11/09/18 12:52 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		11/16/18 17:49	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:49	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/16/18 17:49	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/16/18 17:49	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:49	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/16/18 17:49	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/16/18 17:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 17:49	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/16/18 17:49	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/16/18 17:49	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/16/18 17:49	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 17:49	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/16/18 17:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/16/18 17:49	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/16/18 17:49	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/16/18 17:49	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**314**	mg/L	5.0	5.0	1		11/12/18 14:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**42.1**	mg/L	5.0	2.5	1		11/16/18 14:32	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 11:01	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.050	0.025	1		11/10/18 10:44		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429772

Sample: AC73854 (2MW-25D) **Lab ID: 35429772003** Collected: 11/07/18 11:01 Received: 11/09/18 12:52 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	11/15/18 00:08	11/15/18 14:46	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0095	0.0072	1	11/15/18 00:08	11/15/18 14:46	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/24/18 03:01	11/27/18 14:10	7440-38-2	
Barium	**23.6**	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:10	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:10	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:10	7440-43-9	
Chromium	**3.6 I**	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:10	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:10	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:10	7440-50-8	
Iron	**187**	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:10	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/24/18 03:01	11/27/18 14:10	7439-92-1	
Nickel	**5.1**	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:10	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:10	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 11:47	7440-22-4	
Sodium	**34.1**	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:10	7440-23-5	
Vanadium	**1.9 I**	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:10	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:10	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	11/24/18 03:03	11/24/18 12:53	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 12:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:51	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/16/18 18:13	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:13	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/16/18 18:13	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/16/18 18:13	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/16/18 18:13	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:13	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:13	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/16/18 18:13	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/16/18 18:13	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/16/18 18:13	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/16/18 18:13	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/16/18 18:13	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429772

Sample: AC73854 (2MW-25D) **Lab ID: 35429772003** Collected: 11/07/18 11:01 Received: 11/09/18 12:52 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		11/16/18 18:13	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:13	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/16/18 18:13	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/16/18 18:13	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:13	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/16/18 18:13	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/16/18 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:13	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/16/18 18:13	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/16/18 18:13	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/16/18 18:13	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:13	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/16/18 18:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/16/18 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/16/18 18:13	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/16/18 18:13	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**377**	mg/L	5.0	5.0	1		11/12/18 14:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**79.7**	mg/L	5.0	2.5	1		11/16/18 14:54	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 11:03	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.050	0.025	1		11/10/18 10:45		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429772

Sample: AC73855 (2MW-26D) **Lab ID: 35429772004** Collected: 11/07/18 13:45 Received: 11/09/18 12:52 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	11/15/18 00:08	11/15/18 15:01	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/15/18 00:08	11/15/18 15:01	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/24/18 03:01	11/27/18 14:13	7440-38-2	
Barium	**15.9**	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:13	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:13	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:13	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:13	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:13	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:13	7440-50-8	
Iron	**17.0 I**	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:13	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/24/18 03:01	11/27/18 14:13	7439-92-1	
Nickel	**2.3 I**	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:13	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:13	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 11:50	7440-22-4	
Sodium	**23.8**	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:13	7440-23-5	
Vanadium	**1.4 I**	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:13	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:13	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	11/24/18 03:03	11/24/18 12:55	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 12:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:53	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/16/18 18:36	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:36	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/16/18 18:36	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/16/18 18:36	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/16/18 18:36	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:36	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:36	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/16/18 18:36	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/16/18 18:36	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/16/18 18:36	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/16/18 18:36	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/16/18 18:36	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429772

Sample: AC73855 (2MW-26D) **Lab ID: 35429772004** Collected: 11/07/18 13:45 Received: 11/09/18 12:52 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		11/16/18 18:36	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:36	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/16/18 18:36	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/16/18 18:36	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:36	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/16/18 18:36	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/16/18 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/16/18 18:36	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/16/18 18:36	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/16/18 18:36	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/16/18 18:36	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/16/18 18:36	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/16/18 18:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/16/18 18:36	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/16/18 18:36	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/16/18 18:36	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**285**	mg/L	5.0	5.0	1		11/12/18 14:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**47.1**	mg/L	5.0	2.5	1		11/16/18 15:16	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 11:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.37**	mg/L	0.050	0.025	1		11/10/18 10:46		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

QC Batch: 495346 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2679180 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/27/18 13:02	

LABORATORY CONTROL SAMPLE: 2679181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2679182 2679183

Parameter	Units	35429580010 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	2.0	103	102	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

QC Batch: 495882 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2682629 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1 U	10.0	7.1	11/27/18 13:50	
Barium	ug/L	0.84 U	10.0	0.84	11/27/18 13:50	
Beryllium	ug/L	1.6 U	4.0	1.6	11/27/18 13:50	
Cadmium	ug/L	0.33 U	1.0	0.33	11/27/18 13:50	
Chromium	ug/L	1.7 U	5.0	1.7	11/27/18 13:50	
Cobalt	ug/L	0.96 U	10.0	0.96	11/27/18 13:50	
Copper	ug/L	2.6 U	5.0	2.6	11/27/18 13:50	
Iron	ug/L	9.2 U	40.0	9.2	11/27/18 13:50	
Lead	ug/L	4.6 U	10.0	4.6	11/27/18 13:50	
Nickel	ug/L	2.1 U	5.0	2.1	11/27/18 13:50	
Selenium	ug/L	8.5 U	15.0	8.5	11/27/18 13:50	
Silver	ug/L	1.0 U	5.0	1.0	11/27/18 11:27	
Sodium	mg/L	0.27 U	2.0	0.27	11/27/18 13:50	
Vanadium	ug/L	1.0 U	10.0	1.0	11/27/18 13:50	
Zinc	ug/L	11.0 U	20.0	11.0	11/27/18 13:50	

LABORATORY CONTROL SAMPLE: 2682630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	488	98	80-120	
Barium	ug/L	250	257	103	80-120	
Beryllium	ug/L	50	50.8	102	80-120	
Cadmium	ug/L	50	51.6	103	80-120	
Chromium	ug/L	500	514	103	80-120	
Cobalt	ug/L	500	514	103	80-120	
Copper	ug/L	500	497	99	80-120	
Iron	ug/L	2500	2570	103	80-120	
Lead	ug/L	500	520	104	80-120	
Nickel	ug/L	500	521	104	80-120	
Selenium	ug/L	500	508	102	80-120	
Silver	ug/L	50	53.8	108	80-120	
Sodium	mg/L	12.5	12.7	102	80-120	
Vanadium	ug/L	500	508	102	80-120	
Zinc	ug/L	2500	2560	102	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682631 2682632

Parameter	Units	35429772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	500	500	477	480	95	96	75-125	1	20	
Barium	ug/L	32.7	250	250	285	289	101	102	75-125	1	20	
Beryllium	ug/L	1.6 U	50	50	49.2	49.5	97	98	75-125	1	20	
Cadmium	ug/L	0.56 I	50	50	49.4	49.8	98	99	75-125	1	20	
Chromium	ug/L	13.9	500	500	510	515	99	100	75-125	1	20	
Cobalt	ug/L	7.0 I	500	500	492	494	97	97	75-125	1	20	
Copper	ug/L	2.6 U	500	500	481	482	96	96	75-125	0	20	
Iron	ug/L	3200	2500	2500	6950	7620	150	177	75-125	9	20	J(M1)
Lead	ug/L	4.6 U	500	500	497	501	99	99	75-125	1	20	
Nickel	ug/L	12.2	500	500	503	510	98	99	75-125	1	20	
Selenium	ug/L	8.5 U	500	500	484	487	97	97	75-125	1	20	
Silver	ug/L	1.0 U	50	50	52.8	53.2	106	106	75-125	1	20	
Sodium	mg/L	6.6	12.5	12.5	18.9	19.3	98	101	75-125	2	20	
Vanadium	ug/L	21.6	500	500	518	524	99	101	75-125	1	20	
Zinc	ug/L	11.0 U	2500	2500	2430	2440	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

QC Batch: 495881 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2682625 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	
Thallium	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	

LABORATORY CONTROL SAMPLE: 2682626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.7	101	80-120	
Thallium	ug/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682627 2682628

Parameter	Units	35429772002 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	51.2	103	102	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	51.0	50.9	102	102	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

QC Batch: 494386 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2674243 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/16/18 10:27	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/16/18 10:27	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
Acetone	ug/L	10.0 U	20.0	10.0	11/16/18 10:27	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
Benzene	ug/L	0.10 U	1.0	0.10	11/16/18 10:27	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/16/18 10:27	
Bromoform	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/16/18 10:27	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/16/18 10:27	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/16/18 10:27	
Chloroform	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/16/18 10:27	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/16/18 10:27	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/16/18 10:27	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/16/18 10:27	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/16/18 10:27	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/16/18 10:27	
Styrene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Toluene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/16/18 10:27	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

METHOD BLANK: 2674243 Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/16/18 10:27	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/16/18 10:27	
1,2-Dichloroethane-d4 (S)	%	101	70-130		11/16/18 10:27	
4-Bromofluorobenzene (S)	%	103	70-130		11/16/18 10:27	
Toluene-d8 (S)	%	106	70-130		11/16/18 10:27	

LABORATORY CONTROL SAMPLE: 2674244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	25.1	125	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	68-125	
1,1,2-Trichloroethane	ug/L	20	22.9	115	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	16.6	83	66-133	
1,2,3-Trichloropropane	ug/L	20	19.3	96	62-127	
1,2-Dichlorobenzene	ug/L	20	22.1	111	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
1,2-Dichloropropane	ug/L	20	19.5	98	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	104	70-130	
2-Butanone (MEK)	ug/L	40	36.2	91	47-143	
2-Hexanone	ug/L	40	33.3	83	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	34.4	86	57-132	
Acetone	ug/L	40	35.5	89	46-148	
Acrylonitrile	ug/L	200	183	91	60-143	
Benzene	ug/L	20	20.1	100	70-130	
Bromochloromethane	ug/L	20	21.7	109	70-130	
Bromodichloromethane	ug/L	20	20.7	104	70-130	
Bromoform	ug/L	20	19.6	98	49-126	
Bromomethane	ug/L	20	22.9	114	10-165	
Carbon disulfide	ug/L	20	14.3	72	60-141	
Carbon tetrachloride	ug/L	20	19.5	98	63-126	
Chlorobenzene	ug/L	20	21.3	107	70-130	
Chloroethane	ug/L	20	15.3	76	71-142	
Chloroform	ug/L	20	19.2	96	70-130	
Chloromethane	ug/L	20	11.6	58	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	20.0	100	62-118	
Dibromomethane	ug/L	20	23.0	115	70-130	
Ethylbenzene	ug/L	20	21.2	106	70-130	
Iodomethane	ug/L	40	18.5	46	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

LABORATORY CONTROL SAMPLE: 2674244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.3	96	65-136	
Styrene	ug/L	20	21.0	105	70-130	
Tetrachloroethene	ug/L	20	22.2	111	64-134	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	16.3	81	42-129	
Trichloroethene	ug/L	20	21.1	105	70-130	
Trichlorofluoromethane	ug/L	20	13.4	67	65-135	
Vinyl acetate	ug/L	20	18.8	94	60-144	
Vinyl chloride	ug/L	20	14.5	72	68-131	
Xylene (Total)	ug/L	60	66.1	110	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 2676809

Parameter	Units	35429407003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	18.3	92	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	16.6	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	16.4	82	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	17.4	87	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	15.5	76	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	15.0	75	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	15.1	76	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	16.3	81	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	15.3	76	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	15.2	76	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	16.3	80	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	26.4	66	47-143	
2-Hexanone	ug/L	5.0 U	40	24.6	61	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	25.1	63	57-132	
Acetone	ug/L	10.0 U	40	28.5	68	46-148	
Acrylonitrile	ug/L	5.0 U	200	143	71	60-143	
Benzene	ug/L	0.94 I	20	16.7	79	70-130	
Bromochloromethane	ug/L	0.50 U	20	17.4	87	70-130	
Bromodichloromethane	ug/L	0.27 U	20	16.0	80	70-130	
Bromoform	ug/L	0.50 U	20	14.8	74	49-126	
Bromomethane	ug/L	0.50 U	20	23.3	116	10-165	
Carbon disulfide	ug/L	5.0 U	20	12.8	64	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	16.1	81	63-126	
Chlorobenzene	ug/L	0.68 I	20	17.2	82	70-130	
Chloroethane	ug/L	0.50 U	20	22.6	113	71-142	
Chloroform	ug/L	0.50 U	20	16.2	81	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

MATRIX SPIKE SAMPLE: 2676809

Parameter	Units	35429407003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	13.9	70	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	14.8	72	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	12.9	65	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	14.5	72	62-118	
Dibromomethane	ug/L	0.50 U	20	18.0	90	70-130	
Ethylbenzene	ug/L	0.50 U	20	16.4	82	70-130	
Iodomethane	ug/L	0.50 U	40	5.1 I	13	10-164	
Methylene Chloride	ug/L	2.5 U	20	15.3	76	65-136	
Styrene	ug/L	0.50 U	20	16.0	80	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.3	86	64-134	
Toluene	ug/L	0.50 U	20	16.3	82	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	15.5	78	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	13.9	70	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	11.6	58	42-129	
Trichloroethene	ug/L	0.50 U	20	17.3	87	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	17.1	86	65-135	
Vinyl acetate	ug/L	1.0 U	20	13.8	69	60-144	
Vinyl chloride	ug/L	0.50 U	20	17.4	87	68-131	
Xylene (Total)	ug/L	1.5 U	60	50.3	84	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				111	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2676808

Parameter	Units	35429407002 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	1.0	1.0	2	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	1.7	1.8	6	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	16.4	17.2	4	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
Pace Project No.: 35429772

SAMPLE DUPLICATE: 2676808

Parameter	Units	35429407002 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	3.8	4.0	5	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	1.4	1.5	7	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	2.5	2.7	6	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)	%	97	97	0	40	
4-Bromofluorobenzene (S)	%	101	100	1	40	
Toluene-d8 (S)	%	102	101	1	40	

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

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

QC Batch: 493805 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2670914 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/15/18 08:49	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/15/18 08:49	

LABORATORY CONTROL SAMPLE: 2670915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.5	0.47	94	60-140	
1,2-Dibromoethane (EDB)	ug/L	.5	0.45	91	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2671556 2671557

Parameter	Units	35430556001 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	.25	.25	0.31	0.32	123	130	60-140	5	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	.25	.25	0.27	0.29	108	117	60-140	8	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
Pace Project No.: 35429772

QC Batch: 492918 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2665799 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/12/18 14:48	

LABORATORY CONTROL SAMPLE: 2665800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	90-110	

SAMPLE DUPLICATE: 2665801

Parameter	Units	35429268006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	547	553	1	5	

SAMPLE DUPLICATE: 2666628

Parameter	Units	35429444001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	688	680	1	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

QC Batch: 494409 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2674334 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/16/18 12:20	

LABORATORY CONTROL SAMPLE: 2674335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674423 2674424

Parameter	Units	35429772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.5	50	50	63.0	63.5	101	102	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674425 2674426

Parameter	Units	35429873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.1	50	50	58.7	59.7	99	101	90-110	2	20	

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429772

QC Batch: 493106 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2667363 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/13/18 10:41	

LABORATORY CONTROL SAMPLE: 2667364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 2667366

Parameter	Units	35430400008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	7.8	1	8.7	88	90-110	J(M1)

SAMPLE DUPLICATE: 2667365

Parameter	Units	35430400008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	7.8	7.8	0	20	

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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
Pace Project No.: 35429772

QC Batch: 492737 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

METHOD BLANK: 2665081 | Matrix: Water
Associated Lab Samples: 35429772001, 35429772002, 35429772003, 35429772004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	11/10/18 10:26	

LABORATORY CONTROL SAMPLE: 2665082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 2665084

Parameter	Units	35429561001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.041 I	2	2.1	101	90-110	

MATRIX SPIKE SAMPLE: 2665086

Parameter	Units	35429796001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.71	2	2.7	100	90-110	

SAMPLE DUPLICATE: 2665083

Parameter	Units	35429561001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.041 I	0.042 I		20	

SAMPLE DUPLICATE: 2665085

Parameter	Units	35429796001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.71	0.71	0	20	

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

QUALIFIERS

Project: Resource Recovery
Pace Project No.: 35429772

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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
Pace Project No.: 35429772

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429772001	**AC73852 (2MW-24S)**	EPA 8011	493805	EPA 8011	493884
35429772002	**AC73853 (2MW-24D)**	EPA 8011	493805	EPA 8011	493884
35429772003	**AC73854 (2MW-25D)**	EPA 8011	493805	EPA 8011	493884
35429772004	**AC73855 (2MW-26D)**	EPA 8011	493805	EPA 8011	493884
35429772001	**AC73852 (2MW-24S)**	EPA 3010	495882	EPA 6010	495883
35429772002	**AC73853 (2MW-24D)**	EPA 3010	495882	EPA 6010	495883
35429772003	**AC73854 (2MW-25D)**	EPA 3010	495882	EPA 6010	495883
35429772004	**AC73855 (2MW-26D)**	EPA 3010	495882	EPA 6010	495883
35429772001	**AC73852 (2MW-24S)**	EPA 3010	495881	EPA 6020	495884
35429772002	**AC73853 (2MW-24D)**	EPA 3010	495881	EPA 6020	495884
35429772003	**AC73854 (2MW-25D)**	EPA 3010	495881	EPA 6020	495884
35429772004	**AC73855 (2MW-26D)**	EPA 3010	495881	EPA 6020	495884
35429772001	**AC73852 (2MW-24S)**	EPA 7470	495346	EPA 7470	495730
35429772002	**AC73853 (2MW-24D)**	EPA 7470	495346	EPA 7470	495730
35429772003	**AC73854 (2MW-25D)**	EPA 7470	495346	EPA 7470	495730
35429772004	**AC73855 (2MW-26D)**	EPA 7470	495346	EPA 7470	495730
35429772001	**AC73852 (2MW-24S)**	EPA 8260	494386		
35429772002	**AC73853 (2MW-24D)**	EPA 8260	494386		
35429772003	**AC73854 (2MW-25D)**	EPA 8260	494386		
35429772004	**AC73855 (2MW-26D)**	EPA 8260	494386		
35429772001	**AC73852 (2MW-24S)**	SM 2540C	492918		
35429772002	**AC73853 (2MW-24D)**	SM 2540C	492918		
35429772003	**AC73854 (2MW-25D)**	SM 2540C	492918		
35429772004	**AC73855 (2MW-26D)**	SM 2540C	492918		
35429772001	**AC73852 (2MW-24S)**	EPA 300.0	494409		
35429772002	**AC73853 (2MW-24D)**	EPA 300.0	494409		
35429772003	**AC73854 (2MW-25D)**	EPA 300.0	494409		
35429772004	**AC73855 (2MW-26D)**	EPA 300.0	494409		
35429772001	**AC73852 (2MW-24S)**	EPA 350.1	493106		
35429772002	**AC73853 (2MW-24D)**	EPA 350.1	493106		
35429772003	**AC73854 (2MW-25D)**	EPA 350.1	493106		
35429772004	**AC73855 (2MW-26D)**	EPA 350.1	493106		
35429772001	**AC73852 (2MW-24S)**	EPA 353.2	492737		
35429772002	**AC73853 (2MW-24D)**	EPA 353.2	492737		
35429772003	**AC73854 (2MW-25D)**	EPA 353.2	492737		
35429772004	**AC73855 (2MW-26D)**	EPA 353.2	492737		

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Pas[illegible] 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: 9.8 ° C (or Received on Ice, ROI)
Condition of Contents:

FOR LAB USE ONLY
LOG IN NO.

1. Client: (Company or Individual) 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

4. Sampled by: (Print) GREG TORREY

5. Sampled by: (Signature) [signature]

6. Shipping Method: COURIER

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 S C T
14. Containers: P P P G

15. Analyses Requested

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	Sample Time	10. Comp.	Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	No. of Containers	FE HG NA	NO3 NH3	Cl SO4 TDS	APPENDIX I				16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC73852	2MW-24S	11-7-18	9:13		✓	GW					8	✓	✓	✓	✓					
2.	AC73853	2MW-24D	11-7-18	946		✓	GW					8	✓	✓	✓	✓					
3.	AC73854	2MW-25D	11-7-18	1101		✓	GW					8	✓	✓	✓	✓					
4.	AC73855	2MW-26D	11-7-18	13:45		✓	GW					8	✓	✓	✓	✓					
5.																				Sent to	
6.																				PACE	
7.																				11/9/18	
8.																					
9.																					
10.																					

WO#: 35429772

35429772

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. [signature]	11-7-18	14:36	[signature]	11/7/18	14:36
2. [signature]	11/9/18	0844	[signature]	110918	0844
3. [signature]	110918	1252	[signature] T 2.2 0.9	11/9/18	1252
4.					

IR# 1704 77691

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35429772

Project Manager: PM: ADA **Due Date:** 11/27/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: MVL
Label: 11/9/18
Deliver:
pH:

Thermometer Used: T-202 Date: 11/9/18 Time: 1252 Initials: MVL

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	0.9 (Visual)	0.0 (Correction Factor)	0.9 (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:** (We) 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: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	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 27, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35429796

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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CERTIFICATIONS

Project:	Resource Recovery
Pace Project No.:	35429796

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35429796

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35429796001	**AC73882 (4MW-11D)**	Water	11/08/18 09:53	11/09/18 12:52
35429796002	**AC73883 (4MW-12D)**	Water	11/08/18 10:14	11/09/18 12:52
35429796003	**AC73884 (4MW-13D)**	Water	11/08/18 11:44	11/09/18 12:52
35429796004	**AC73885 (4MW-14D)**	Water	11/08/18 13:20	11/09/18 12:52

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SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35429796

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429796001	**AC73882 (4MW-11D)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC, SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35429796002	**AC73883 (4MW-12D)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35429796003	**AC73884 (4MW-13D)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35429796004	**AC73885 (4MW-14D)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429796

Sample: AC73882 (4MW-11D) **Lab ID: 35429796001** Collected: 11/08/18 09:53 Received: 11/09/18 12:52 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	11/15/18 01:10	11/15/18 15:46	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/15/18 01:10	11/15/18 15:46	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/24/18 03:01	11/27/18 14:16	7440-38-2	
Barium	**6.8 I**	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:16	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:16	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:16	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:16	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:16	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:16	7440-50-8	
Iron	**10.5 I**	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:16	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/24/18 03:01	11/27/18 14:16	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:16	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:16	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 11:53	7440-22-4	
Sodium	**5.3**	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:16	7440-23-5	
Vanadium	**1.7 I**	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:16	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:16	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	11/24/18 03:03	11/24/18 12:56	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 12:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:55	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/19/18 11:38	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 11:38	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/19/18 11:38	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/19/18 11:38	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/19/18 11:38	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 11:38	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 11:38	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/19/18 11:38	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/18 11:38	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/19/18 11:38	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/19/18 11:38	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/19/18 11:38	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429796

Sample: AC73882 (4MW-11D) **Lab ID: 35429796001** Collected: 11/08/18 09:53 Received: 11/09/18 12:52 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		11/19/18 11:38	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 11:38	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/18 11:38	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/18 11:38	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 11:38	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/18 11:38	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/19/18 11:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 11:38	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/19/18 11:38	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/19/18 11:38	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/19/18 11:38	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 11:38	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/19/18 11:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/19/18 11:38	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		11/19/18 11:38	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/19/18 11:38	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**158**	mg/L	5.0	5.0	1		11/13/18 15:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**14.8**	mg/L	5.0	2.5	1		11/16/18 15:38	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 11:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.71**	mg/L	0.050	0.025	1		11/10/18 10:48		

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(386)672-5668

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429796

Sample: AC73883 (4MW-12D) **Lab ID: 35429796002** Collected: 11/08/18 10:14 Received: 11/09/18 12:52 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	11/15/18 01:10	11/15/18 16:30	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/15/18 01:10	11/15/18 16:30	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/24/18 03:01	11/27/18 14:24	7440-38-2	
Barium	**6.8 I**	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:24	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:24	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:24	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:24	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:24	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:24	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:24	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/24/18 03:01	11/27/18 14:24	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:24	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:24	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:24	7440-22-4	
Sodium	**7.0**	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:24	7440-23-5	
Vanadium	**1.4 I**	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:24	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:24	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	11/24/18 03:03	11/24/18 12:58	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 12:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:57	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/19/18 12:03	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:03	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/19/18 12:03	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/19/18 12:03	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/19/18 12:03	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:03	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:03	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/19/18 12:03	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/18 12:03	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/19/18 12:03	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/19/18 12:03	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/19/18 12:03	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429796

Sample: AC73883 (4MW-12D) **Lab ID: 35429796002** Collected: 11/08/18 10:14 Received: 11/09/18 12:52 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		11/19/18 12:03	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:03	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/18 12:03	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/18 12:03	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:03	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/18 12:03	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/19/18 12:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:03	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/19/18 12:03	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/19/18 12:03	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/19/18 12:03	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:03	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/19/18 12:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/19/18 12:03	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/19/18 12:03	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/19/18 12:03	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**185**	mg/L	5.0	5.0	1		11/13/18 15:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**15.3**	mg/L	5.0	2.5	1		11/16/18 16:00	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 11:12	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.76**	mg/L	0.050	0.025	1		11/10/18 10:51		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429796

Sample: AC73884 (4MW-13D) **Lab ID: 35429796003** Collected: 11/08/18 11:44 Received: 11/09/18 12:52 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	11/15/18 01:10	11/15/18 17:00	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0095	0.0072	1	11/15/18 01:10	11/15/18 17:00	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/24/18 03:01	11/27/18 14:27	7440-38-2	
Barium	**8.9 I**	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:27	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:27	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:27	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:27	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:27	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:27	7440-50-8	
Iron	**50.3**	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:27	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/24/18 03:01	11/27/18 14:27	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:27	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:27	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:27	7440-22-4	
Sodium	**8.9**	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:27	7440-23-5	
Vanadium	**1.6 I**	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:27	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:27	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	11/24/18 03:03	11/24/18 13:00	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:59	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/19/18 12:28	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:28	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/19/18 12:28	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/19/18 12:28	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/19/18 12:28	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:28	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:28	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/19/18 12:28	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/18 12:28	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/19/18 12:28	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/19/18 12:28	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/19/18 12:28	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429796

Sample: AC73884 (4MW-13D) **Lab ID: 35429796003** Collected: 11/08/18 11:44 Received: 11/09/18 12:52 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		11/19/18 12:28	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:28	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/18 12:28	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/18 12:28	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:28	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/18 12:28	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/19/18 12:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:28	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/19/18 12:28	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/19/18 12:28	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/19/18 12:28	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:28	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/19/18 12:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/19/18 12:28	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/19/18 12:28	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/19/18 12:28	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**224**	mg/L	5.0	5.0	1		11/13/18 15:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.3**	mg/L	5.0	2.5	1		11/16/18 16:22	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 11:14	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		11/10/18 10:53		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429796

Sample: AC73885 (4MW-14D) **Lab ID: 35429796004** Collected: 11/08/18 13:20 Received: 11/09/18 12:52 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	11/15/18 01:10	11/15/18 17:15	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/15/18 01:10	11/15/18 17:15	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/24/18 03:01	11/27/18 14:30	7440-38-2	
Barium	**11.0**	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:30	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:30	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:30	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:30	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:30	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:30	7440-50-8	
Iron	**85.1**	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:30	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/24/18 03:01	11/27/18 14:30	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:30	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:30	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:30	7440-22-4	
Sodium	**10.1**	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:30	7440-23-5	
Vanadium	**1.6 I**	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:30	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:30	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	11/24/18 03:03	11/24/18 13:01	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 14:06	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/19/18 12:52	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:52	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/19/18 12:52	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/19/18 12:52	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/19/18 12:52	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:52	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:52	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/19/18 12:52	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/18 12:52	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/19/18 12:52	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/19/18 12:52	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/19/18 12:52	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35429796

Sample: AC73885 (4MW-14D) **Lab ID: 35429796004** Collected: 11/08/18 13:20 Received: 11/09/18 12:52 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		11/19/18 12:52	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:52	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/18 12:52	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/19/18 12:52	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:52	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/19/18 12:52	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/19/18 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/19/18 12:52	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/19/18 12:52	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/19/18 12:52	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/19/18 12:52	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/19/18 12:52	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/19/18 12:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/19/18 12:52	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/19/18 12:52	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/19/18 12:52	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**187**	mg/L	5.0	5.0	1		11/13/18 15:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**18.4**	mg/L	5.0	2.5	1		11/16/18 16:44	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 11:16	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.64**	mg/L	0.050	0.025	1		11/10/18 10:58		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 495346 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2679180 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/27/18 13:02	

LABORATORY CONTROL SAMPLE: 2679181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2679182 2679183

Parameter	Units	35429580010 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	2.0	103	102	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 495882 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2682629 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1	U	10.0	7.1	11/27/18 13:50	
Barium	ug/L	0.84	U	10.0	0.84	11/27/18 13:50	
Beryllium	ug/L	1.6	U	4.0	1.6	11/27/18 13:50	
Cadmium	ug/L	0.33	U	1.0	0.33	11/27/18 13:50	
Chromium	ug/L	1.7	U	5.0	1.7	11/27/18 13:50	
Cobalt	ug/L	0.96	U	10.0	0.96	11/27/18 13:50	
Copper	ug/L	2.6	U	5.0	2.6	11/27/18 13:50	
Iron	ug/L	9.2	U	40.0	9.2	11/27/18 13:50	
Lead	ug/L	4.6	U	10.0	4.6	11/27/18 13:50	
Nickel	ug/L	2.1	U	5.0	2.1	11/27/18 13:50	
Selenium	ug/L	8.5	U	15.0	8.5	11/27/18 13:50	
Silver	ug/L	1.0	U	5.0	1.0	11/27/18 11:27	
Sodium	mg/L	0.27	U	2.0	0.27	11/27/18 13:50	
Vanadium	ug/L	1.0	U	10.0	1.0	11/27/18 13:50	
Zinc	ug/L	11.0	U	20.0	11.0	11/27/18 13:50	

LABORATORY CONTROL SAMPLE: 2682630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	488	98	80-120	
Barium	ug/L	250	257	103	80-120	
Beryllium	ug/L	50	50.8	102	80-120	
Cadmium	ug/L	50	51.6	103	80-120	
Chromium	ug/L	500	514	103	80-120	
Cobalt	ug/L	500	514	103	80-120	
Copper	ug/L	500	497	99	80-120	
Iron	ug/L	2500	2570	103	80-120	
Lead	ug/L	500	520	104	80-120	
Nickel	ug/L	500	521	104	80-120	
Selenium	ug/L	500	508	102	80-120	
Silver	ug/L	50	53.8	108	80-120	
Sodium	mg/L	12.5	12.7	102	80-120	
Vanadium	ug/L	500	508	102	80-120	
Zinc	ug/L	2500	2560	102	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682631 2682632

Parameter	Units	35429772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	500	500	477	480	95	96	75-125	1	20	
Barium	ug/L	32.7	250	250	285	289	101	102	75-125	1	20	
Beryllium	ug/L	1.6 U	50	50	49.2	49.5	97	98	75-125	1	20	
Cadmium	ug/L	0.56 I	50	50	49.4	49.8	98	99	75-125	1	20	
Chromium	ug/L	13.9	500	500	510	515	99	100	75-125	1	20	
Cobalt	ug/L	7.0 I	500	500	492	494	97	97	75-125	1	20	
Copper	ug/L	2.6 U	500	500	481	482	96	96	75-125	0	20	
Iron	ug/L	3200	2500	2500	6950	7620	150	177	75-125	9	20	J(M1)
Lead	ug/L	4.6 U	500	500	497	501	99	99	75-125	1	20	
Nickel	ug/L	12.2	500	500	503	510	98	99	75-125	1	20	
Selenium	ug/L	8.5 U	500	500	484	487	97	97	75-125	1	20	
Silver	ug/L	1.0 U	50	50	52.8	53.2	106	106	75-125	1	20	
Sodium	mg/L	6.6	12.5	12.5	18.9	19.3	98	101	75-125	2	20	
Vanadium	ug/L	21.6	500	500	518	524	99	101	75-125	1	20	
Zinc	ug/L	11.0 U	2500	2500	2430	2440	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 495881 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2682625 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	
Thallium	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	

LABORATORY CONTROL SAMPLE: 2682626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.7	101	80-120	
Thallium	ug/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682627 2682628

Parameter	Units	35429772002 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	51.2	103	102	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	51.0	50.9	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 494434 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2674557 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/19/18 10:25	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/19/18 10:25	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
Acetone	ug/L	10.0 U	20.0	10.0	11/19/18 10:25	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
Benzene	ug/L	0.10 U	1.0	0.10	11/19/18 10:25	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/19/18 10:25	
Bromoform	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/19/18 10:25	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/19/18 10:25	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/19/18 10:25	
Chloroform	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/19/18 10:25	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/19/18 10:25	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/19/18 10:25	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/19/18 10:25	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/19/18 10:25	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/19/18 10:25	
Styrene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Toluene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/19/18 10:25	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

METHOD BLANK: 2674557 Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/19/18 10:25	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/19/18 10:25	
1,2-Dichloroethane-d4 (S)	%	97	70-130		11/19/18 10:25	
4-Bromofluorobenzene (S)	%	108	70-130		11/19/18 10:25	
Toluene-d8 (S)	%	103	70-130		11/19/18 10:25	

LABORATORY CONTROL SAMPLE: 2674558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	70-130	
1,1,1-Trichloroethane	ug/L	20	22.0	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.5	102	68-125	
1,1,2-Trichloroethane	ug/L	20	23.6	118	70-130	
1,1-Dichloroethane	ug/L	20	20.3	102	70-130	
1,1-Dichloroethene	ug/L	20	16.0	80	66-133	
1,2,3-Trichloropropane	ug/L	20	21.3	107	62-127	
1,2-Dichlorobenzene	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	20	19.5	98	70-130	
1,2-Dichloropropane	ug/L	20	20.8	104	70-130	
1,4-Dichlorobenzene	ug/L	20	19.8	99	70-130	
2-Butanone (MEK)	ug/L	40	41.3	103	47-143	
2-Hexanone	ug/L	40	37.1	93	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.9	95	57-132	
Acetone	ug/L	40	48.7	122	46-148	
Acrylonitrile	ug/L	200	138	69	60-143	
Benzene	ug/L	20	21.4	107	70-130	
Bromochloromethane	ug/L	20	24.7	124	70-130	
Bromodichloromethane	ug/L	20	21.1	105	70-130	
Bromoform	ug/L	20	20.1	100	49-126	
Bromomethane	ug/L	20	18.1	91	10-165	
Carbon disulfide	ug/L	20	15.5	78	60-141	
Carbon tetrachloride	ug/L	20	19.6	98	63-126	
Chlorobenzene	ug/L	20	21.5	107	70-130	
Chloroethane	ug/L	20	22.0	110	71-142	
Chloroform	ug/L	20	21.5	108	70-130	
Chloromethane	ug/L	20	21.5	107	40-140	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	70-130	
Dibromochloromethane	ug/L	20	19.9	100	62-118	
Dibromomethane	ug/L	20	24.3	121	70-130	
Ethylbenzene	ug/L	20	20.9	104	70-130	
Iodomethane	ug/L	40	31.3	78	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

LABORATORY CONTROL SAMPLE: 2674558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	20.8	104	65-136	
Styrene	ug/L	20	19.2	96	70-130	
Tetrachloroethene	ug/L	20	23.9	119	64-134	
Toluene	ug/L	20	21.9	110	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	68-127	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	26.7	134	42-129	J(L1)
Trichloroethene	ug/L	20	22.2	111	70-130	
Trichlorofluoromethane	ug/L	20	17.5	88	65-135	
Vinyl acetate	ug/L	20	20.1	101	60-144	
Vinyl chloride	ug/L	20	19.8	99	68-131	
Xylene (Total)	ug/L	60	62.1	104	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			112	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2678301

Parameter	Units	35431408009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.9	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	16.0	80	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.7	89	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	16.6	83	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	15.8	79	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	16.8	84	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.9	85	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.4	82	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	15.9	80	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	31.9	80	47-143	
2-Hexanone	ug/L	5.0 U	40	28.9	72	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	28.0	70	57-132	
Acetone	ug/L	10.0 U	40	32.3	81	46-148	
Acrylonitrile	ug/L	5.0 U	200	197	98	60-143	
Benzene	ug/L	0.10 U	20	17.4	87	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.2	96	70-130	
Bromodichloromethane	ug/L	0.27 U	20	16.5	83	70-130	
Bromoform	ug/L	0.50 U	20	16.3	82	49-126	
Bromomethane	ug/L	0.50 U	20	18.5	93	10-165	
Carbon disulfide	ug/L	5.0 U	20	14.0	70	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.3	96	63-126	
Chlorobenzene	ug/L	0.50 U	20	17.2	86	70-130	
Chloroethane	ug/L	0.50 U	20	13.8	69	71-142	J(M1)
Chloroform	ug/L	0.50 U	20	17.4	87	70-130	

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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

MATRIX SPIKE SAMPLE: 2678301

Parameter	Units	35431408009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	11.7	58	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.6	83	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.6	68	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	15.3	76	62-118	
Dibromomethane	ug/L	0.50 U	20	20.4	102	70-130	
Ethylbenzene	ug/L	0.50 U	20	17.3	87	70-130	
Iodomethane	ug/L	0.50 U	40	25.5	64	10-164	
Methylene Chloride	ug/L	2.5 U	20	16.7	83	65-136	
Styrene	ug/L	0.50 U	20	15.7	79	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.5	97	64-134	
Toluene	ug/L	0.50 U	20	17.5	87	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.5	88	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.2	71	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	12.3	61	42-129	
Trichloroethene	ug/L	0.50 U	20	19.2	96	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	12.9	64	65-135	J(M1)
Vinyl acetate	ug/L	1.0 U	20	14.9	74	60-144	
Vinyl chloride	ug/L	0.50 U	20	14.5	72	68-131	
Xylene (Total)	ug/L	1.5 U	60	52.7	88	70-130	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				114	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2678300

Parameter	Units	35431408008 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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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

SAMPLE DUPLICATE: 2678300

Parameter	Units	35431408008 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)	%	97	100	3	40	
4-Bromofluorobenzene (S)	%	93	93	0	40	
Toluene-d8 (S)	%	102	103	1	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 493807 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2670925 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/15/18 15:16	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/15/18 15:16	

LABORATORY CONTROL SAMPLE: 2670926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.21	85	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.20	81	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2671558 2671559

Parameter	Units	35429796001 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	.25	.25	0.32	0.32	129	129	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.25	.25	0.30	0.31	121	124	60-140	3	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 493182 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2667592 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/13/18 15:09	

LABORATORY CONTROL SAMPLE: 2667593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	90-110	

SAMPLE DUPLICATE: 2667594

Parameter	Units	35429580009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	350	349	0	5	

SAMPLE DUPLICATE: 2667595

Parameter	Units	35429738002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	220	224	2	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 494409 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2674334 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/16/18 12:20	

LABORATORY CONTROL SAMPLE: 2674335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674423 2674424

Parameter	Units	35429772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.5	50	50	63.0	63.5	101	102	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674425 2674426

Parameter	Units	35429873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.1	50	50	58.7	59.7	99	101	90-110	2	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 493106 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2667363 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/13/18 10:41	

LABORATORY CONTROL SAMPLE: 2667364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 2667366

Parameter	Units	35430400008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	7.8	1	8.7	88	90-110	J(M1)

SAMPLE DUPLICATE: 2667365

Parameter	Units	35430400008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	7.8	7.8	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35429796

QC Batch: 492737 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

METHOD BLANK: 2665081 | Matrix: Water
Associated Lab Samples: 35429796001, 35429796002, 35429796003, 35429796004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	11/10/18 10:26	

LABORATORY CONTROL SAMPLE: 2665082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 2665084

Parameter	Units	35429561001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.041 I	2	2.1	101	90-110	

MATRIX SPIKE SAMPLE: 2665086

Parameter	Units	35429796001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.71	2	2.7	100	90-110	

SAMPLE DUPLICATE: 2665083

Parameter	Units	35429561001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.041 I	0.042 I		20	

SAMPLE DUPLICATE: 2665085

Parameter	Units	35429796001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.71	0.71	0	20	

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QUALIFIERS

Project: Resource Recovery
Pace Project No.: 35429796

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35429796

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429796001	**AC73882 (4MW-11D)**	EPA 8011	493807	EPA 8011	493885
35429796002	**AC73883 (4MW-12D)**	EPA 8011	493807	EPA 8011	493885
35429796003	**AC73884 (4MW-13D)**	EPA 8011	493807	EPA 8011	493885
35429796004	**AC73885 (4MW-14D)**	EPA 8011	493807	EPA 8011	493885
35429796001	**AC73882 (4MW-11D)**	EPA 3010	495882	EPA 6010	495883
35429796002	**AC73883 (4MW-12D)**	EPA 3010	495882	EPA 6010	495883
35429796003	**AC73884 (4MW-13D)**	EPA 3010	495882	EPA 6010	495883
35429796004	**AC73885 (4MW-14D)**	EPA 3010	495882	EPA 6010	495883
35429796001	**AC73882 (4MW-11D)**	EPA 3010	495881	EPA 6020	495884
35429796002	**AC73883 (4MW-12D)**	EPA 3010	495881	EPA 6020	495884
35429796003	**AC73884 (4MW-13D)**	EPA 3010	495881	EPA 6020	495884
35429796004	**AC73885 (4MW-14D)**	EPA 3010	495881	EPA 6020	495884
35429796001	**AC73882 (4MW-11D)**	EPA 7470	495346	EPA 7470	495730
35429796002	**AC73883 (4MW-12D)**	EPA 7470	495346	EPA 7470	495730
35429796003	**AC73884 (4MW-13D)**	EPA 7470	495346	EPA 7470	495730
35429796004	**AC73885 (4MW-14D)**	EPA 7470	495346	EPA 7470	495730
35429796001	**AC73882 (4MW-11D)**	EPA 8260	494434		
35429796002	**AC73883 (4MW-12D)**	EPA 8260	494434		
35429796003	**AC73884 (4MW-13D)**	EPA 8260	494434		
35429796004	**AC73885 (4MW-14D)**	EPA 8260	494434		
35429796001	**AC73882 (4MW-11D)**	SM 2540C	493182		
35429796002	**AC73883 (4MW-12D)**	SM 2540C	493182		
35429796003	**AC73884 (4MW-13D)**	SM 2540C	493182		
35429796004	**AC73885 (4MW-14D)**	SM 2540C	493182		
35429796001	**AC73882 (4MW-11D)**	EPA 300.0	494409		
35429796002	**AC73883 (4MW-12D)**	EPA 300.0	494409		
35429796003	**AC73884 (4MW-13D)**	EPA 300.0	494409		
35429796004	**AC73885 (4MW-14D)**	EPA 300.0	494409		
35429796001	**AC73882 (4MW-11D)**	EPA 350.1	493106		
35429796002	**AC73883 (4MW-12D)**	EPA 350.1	493106		
35429796003	**AC73884 (4MW-13D)**	EPA 350.1	493106		
35429796004	**AC73885 (4MW-14D)**	EPA 350.1	493106		
35429796001	**AC73882 (4MW-11D)**	EPA 353.2	492737		
35429796002	**AC73883 (4MW-12D)**	EPA 353.2	492737		
35429796003	**AC73884 (4MW-13D)**	EPA 353.2	492737		
35429796004	**AC73885 (4MW-14D)**	EPA 353.2	492737		

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Pas... 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: 5.3 ° C (or Received on Ice (ROI))
Condition of Contents:

FOR LAB USE ONLY
LOG IN NO.

1. Client: (Company or Individual) 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

4. Sampled by: (Print) Greg Torrey

5. Sampled by: (Signature)

6. Shipping Method: Courier

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 S C T
14. Containers: P P P G

15. Analyses Requested

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	Sample Time	10. Comp.	Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	No. of Containers	FE HGNA	NO3 NH3	Cl TDS	APPENDIX I					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC73882	4MW11D	11-8-18	953		✓	GW					8	✓	✓	✓	✓						
2.	AC73883	4MW12D	11-8-18	1014		✓	GW					8	✓	✓	✓	✓						
3.	AC73884	4MW13D	11-8-18	1144		✓	GW					8	✓	✓	✓	✓					Sent to	
4.	AC73885	4MW14D	11-8-18	1320		✓	GW					8	✓	✓	✓	✓					PACE	
5.																					11/9/18	
6.																						
7.																						
8.																						
9.																						
10.																						

WO#: 35429796

35429796

17.	RELINQUISHED BY	DATE	TIME	18.	RECEIVED BY	DATE	TIME
1.	[signature]	11-8-18	13:52		[signature]	11/8/18	13:52
2.	[signature]	11/9/18	0844		[signature]	11/9/18	0844
3.	[signature]	11/9/18	1252		[signature] Pace TW2 1.0	11/9/18	1252
4.							

IR GW 17047769

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35429796

Project Manager: PM: ADA **Due Date:** 11/27/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: MVL
Label: 11/9/18
Deliver:
pH:

Thermometer Used: T-202 Date: 11/9/18 Time: 1252 Initials: MVL

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 1.0	(Visual) 0.0	(Correction Factor) 1.0	(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:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	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

December 04, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35431603

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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

CERTIFICATIONS

Project:	Resource Recovery
Pace Project No.:	35431603

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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
Pace Project No.: 35431603

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35431603001	**AC74095**	Water	11/14/18 10:12	11/16/18 14:20
35431603002	**AC74096**	Water	11/14/18 10:58	11/16/18 14:20

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(386)672-5668

SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35431603

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35431603001	**AC74095**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	CRT	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35431603002	**AC74096**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	CRT	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O

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8 East Tower Circle
Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35431603

Sample: AC74095 **Lab ID: 35431603001** Collected: 11/14/18 10:12 Received: 11/16/18 14:20 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	11/24/18 09:05	11/25/18 13:24	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/24/18 09:05	11/25/18 13:24	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/30/18 11:32	12/03/18 21:00	7440-38-2	
Barium	**28.4**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:00	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:00	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:00	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:00	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:00	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:00	7440-50-8	
Iron	**55.1**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:00	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:00	7439-92-1	
Nickel	**3.5 I**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:00	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:00	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:00	7440-22-4	
Sodium	**47.0**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:00	7440-23-5	
Vanadium	**2.4 I**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:00	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:00	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	11/30/18 11:30	12/01/18 19:56	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 19:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 13:40	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/26/18 14:51	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 14:51	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/26/18 14:51	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/26/18 14:51	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/26/18 14:51	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 14:51	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 14:51	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/26/18 14:51	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/26/18 14:51	75-00-3	
Chloroform	**1.2**	ug/L	1.0	0.50	1		11/26/18 14:51	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/26/18 14:51	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/26/18 14:51	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/26/18 14:51	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	95-50-1	

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35431603

Sample: AC74095 **Lab ID: 35431603001** Collected: 11/14/18 10:12 Received: 11/16/18 14:20 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		11/26/18 14:51	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 14:51	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/26/18 14:51	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/26/18 14:51	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 14:51	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/26/18 14:51	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/26/18 14:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 14:51	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/26/18 14:51	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/26/18 14:51	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/26/18 14:51	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 14:51	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/26/18 14:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/26/18 14:51	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/26/18 14:51	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/26/18 14:51	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**400**	mg/L	5.0	5.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**97.6**	mg/L	10.0	5.0	2		11/28/18 10:18	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/21/18 09:29	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**1.6**	mg/L	0.050	0.025	1		11/19/18 15:37		

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35431603

Sample: AC74096 **Lab ID: 35431603002** Collected: 11/14/18 10:58 Received: 11/16/18 14:20 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	11/24/18 09:05	11/25/18 13:38	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/24/18 09:05	11/25/18 13:38	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/30/18 11:32	12/03/18 21:02	7440-38-2	
Barium	**31.1**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:02	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:02	7440-41-7	
Cadmium	**0.33 I**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:02	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:02	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:02	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:02	7440-50-8	
Iron	**52.7**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:02	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:02	7439-92-1	
Nickel	**3.4 I**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:02	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:02	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:02	7440-22-4	
Sodium	**43.2**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:02	7440-23-5	
Vanadium	**1.6 I**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:02	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:02	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	11/30/18 11:30	12/01/18 20:00	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 13:42	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/26/18 15:15	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 15:15	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/26/18 15:15	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/26/18 15:15	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/26/18 15:15	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 15:15	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 15:15	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/26/18 15:15	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/26/18 15:15	75-00-3	
Chloroform	**0.90 I**	ug/L	1.0	0.50	1		11/26/18 15:15	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/26/18 15:15	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/26/18 15:15	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/26/18 15:15	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35431603

Sample: AC74096 **Lab ID: 35431603002** Collected: 11/14/18 10:58 Received: 11/16/18 14:20 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		11/26/18 15:15	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 15:15	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/26/18 15:15	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/26/18 15:15	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 15:15	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/26/18 15:15	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/26/18 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/26/18 15:15	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/26/18 15:15	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/26/18 15:15	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/26/18 15:15	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/26/18 15:15	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/26/18 15:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/26/18 15:15	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/26/18 15:15	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/26/18 15:15	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**414**	mg/L	5.0	5.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**93.2**	mg/L	5.0	2.5	1		11/27/18 21:10	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/21/18 09:31	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.050	0.025	1		11/19/18 15:40		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 497983 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35431603001, 35431603002

METHOD BLANK: 2692403 | Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/04/18 13:08	

LABORATORY CONTROL SAMPLE: 2692404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2692405 2692406

Parameter	Units	35431318003 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	97	104	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 497573 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35431603001, 35431603002

METHOD BLANK: 2690365 | Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1	U	10.0	7.1	12/03/18 20:14	
Barium	ug/L	0.84	U	10.0	0.84	12/03/18 20:14	
Beryllium	ug/L	1.6	U	4.0	1.6	12/03/18 20:14	
Cadmium	ug/L	0.33	U	1.0	0.33	12/03/18 20:14	
Chromium	ug/L	1.7	U	5.0	1.7	12/03/18 20:14	
Cobalt	ug/L	0.96	U	10.0	0.96	12/03/18 20:14	
Copper	ug/L	2.6	U	5.0	2.6	12/03/18 20:14	
Iron	ug/L	9.2	U	40.0	9.2	12/03/18 20:14	
Lead	ug/L	4.6	U	10.0	4.6	12/03/18 20:14	
Nickel	ug/L	2.1	U	5.0	2.1	12/03/18 20:14	
Selenium	ug/L	8.5	U	15.0	8.5	12/03/18 20:14	
Silver	ug/L	1.0	U	5.0	1.0	12/03/18 20:14	
Sodium	mg/L	0.27	U	2.0	0.27	12/03/18 20:14	
Vanadium	ug/L	1.0	U	10.0	1.0	12/03/18 20:14	
Zinc	ug/L	11.0	U	20.0	11.0	12/03/18 20:14	

LABORATORY CONTROL SAMPLE: 2690366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	241	96	80-120	
Barium	ug/L	250	250	100	80-120	
Beryllium	ug/L	25	24.4	98	80-120	
Cadmium	ug/L	25	25.2	101	80-120	
Chromium	ug/L	250	251	100	80-120	
Cobalt	ug/L	250	253	101	80-120	
Copper	ug/L	250	242	97	80-120	
Iron	ug/L	2500	2500	100	80-120	
Lead	ug/L	250	253	101	80-120	
Nickel	ug/L	250	254	102	80-120	
Selenium	ug/L	250	248	99	80-120	
Silver	ug/L	25	24.6	99	80-120	
Sodium	mg/L	12.5	12.7	102	80-120	
Vanadium	ug/L	250	248	99	80-120	
Zinc	ug/L	1250	1250	100	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2690367 2690368

Parameter	Units	35431318001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	240	240	96	96	75-125	0	20	
Barium	ug/L	3.5 I	250	250	251	254	99	100	75-125	1	20	
Beryllium	ug/L	1.6 U	25	25	24.4	24.5	97	98	75-125	0	20	
Cadmium	ug/L	0.33 U	25	25	24.8	24.9	99	99	75-125	0	20	
Chromium	ug/L	4.2 I	250	250	254	254	100	100	75-125	0	20	
Cobalt	ug/L	0.96 U	250	250	250	252	100	101	75-125	1	20	
Copper	ug/L	2.6 U	250	250	240	240	96	96	75-125	0	20	
Iron	ug/L	11.7 I	2500	2500	2480	2500	99	99	75-125	1	20	
Lead	ug/L	4.6 U	250	250	248	249	99	100	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	251	253	100	101	75-125	0	20	
Selenium	ug/L	8.5 U	250	250	244	243	98	97	75-125	0	20	
Silver	ug/L	1.0 U	25	25	24.4	24.5	98	98	75-125	0	20	
Sodium	mg/L	2.1	12.5	12.5	14.7	14.8	101	101	75-125	1	20	
Vanadium	ug/L	50.5	250	250	299	300	100	100	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1240	1250	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 497577 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35431603001, 35431603002

METHOD BLANK: 2690373 | Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/01/18 20:43	
Thallium	ug/L	0.50 U	1.0	0.50	12/01/18 20:43	

LABORATORY CONTROL SAMPLE: 2690374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	53.8	108	80-120	
Thallium	ug/L	50	49.8	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2690375 2690376

Parameter	Units	35431318002 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	53.6	53.2	107	106	75-125	1	20	
Thallium	ug/L	0.50 U	50	50	50.9	50.8	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 496096 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35431603001, 35431603002

METHOD BLANK: 2683130 | Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/26/18 08:51	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/26/18 08:51	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/26/18 08:51	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/26/18 08:51	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/26/18 08:51	
Acetone	ug/L	10.0 U	20.0	10.0	11/26/18 08:51	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/26/18 08:51	
Benzene	ug/L	0.10 U	1.0	0.10	11/26/18 08:51	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/26/18 08:51	
Bromoform	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/26/18 08:51	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/26/18 08:51	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/26/18 08:51	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/26/18 08:51	
Chloroform	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/26/18 08:51	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/26/18 08:51	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/26/18 08:51	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/26/18 08:51	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/26/18 08:51	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/26/18 08:51	
Styrene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Toluene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/26/18 08:51	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/26/18 08:51	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

METHOD BLANK: 2683130 Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/26/18 08:51	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/26/18 08:51	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/26/18 08:51	
1,2-Dichloroethane-d4 (S)	%	101	70-130		11/26/18 08:51	
4-Bromofluorobenzene (S)	%	107	70-130		11/26/18 08:51	
Toluene-d8 (S)	%	106	70-130		11/26/18 08:51	

LABORATORY CONTROL SAMPLE: 2683131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.9	110	70-130	
1,1,1-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	68-125	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethene	ug/L	20	16.9	85	66-133	
1,2,3-Trichloropropane	ug/L	20	17.3	87	62-127	
1,2-Dichlorobenzene	ug/L	20	19.5	97	70-130	
1,2-Dichloroethane	ug/L	20	18.9	95	70-130	
1,2-Dichloropropane	ug/L	20	18.1	91	70-130	
1,4-Dichlorobenzene	ug/L	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	40	36.3	91	47-143	
2-Hexanone	ug/L	40	33.5	84	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	32.5	81	57-132	
Acetone	ug/L	40	37.5	94	46-148	
Acrylonitrile	ug/L	200	201	100	60-143	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	21.6	108	70-130	
Bromodichloromethane	ug/L	20	18.3	91	70-130	
Bromoform	ug/L	20	17.1	86	49-126	
Bromomethane	ug/L	20	17.5	87	10-165	
Carbon disulfide	ug/L	20	13.3	67	60-141	
Carbon tetrachloride	ug/L	20	20.0	100	63-126	
Chlorobenzene	ug/L	20	19.2	96	70-130	
Chloroethane	ug/L	20	17.8	89	71-142	
Chloroform	ug/L	20	18.7	93	70-130	
Chloromethane	ug/L	20	12.8	64	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	70-130	
Dibromochloromethane	ug/L	20	16.8	84	62-118	
Dibromomethane	ug/L	20	22.5	113	70-130	
Ethylbenzene	ug/L	20	18.7	93	70-130	
Iodomethane	ug/L	40	8.8 I	22	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

LABORATORY CONTROL SAMPLE: 2683131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	18.9	94	65-136	
Styrene	ug/L	20	18.3	92	70-130	
Tetrachloroethene	ug/L	20	21.2	106	64-134	
Toluene	ug/L	20	18.4	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	93	68-127	
trans-1,3-Dichloropropene	ug/L	20	16.5	82	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	15.0	75	42-129	
Trichloroethene	ug/L	20	20.9	105	70-130	
Trichlorofluoromethane	ug/L	20	13.9	70	65-135	
Vinyl acetate	ug/L	20	18.5	92	60-144	
Vinyl chloride	ug/L	20	14.7	73	68-131	
Xylene (Total)	ug/L	60	57.1	95	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			115	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2684317

Parameter	Units	35431421004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	21.5	107	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.4	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	16.8	84	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.6	93	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.9	90	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	16.8	84	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.1	91	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.7	87	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.7	83	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.9	89	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	30.7	77	47-143	
2-Hexanone	ug/L	5.0 U	40	27.0	68	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	27.4	68	57-132	
Acetone	ug/L	10.0 U	40	29.4	73	46-148	
Acrylonitrile	ug/L	5.0 U	200	179	89	60-143	
Benzene	ug/L	0.10 U	20	17.9	89	70-130	
Bromochloromethane	ug/L	0.50 U	20	20.9	105	70-130	
Bromodichloromethane	ug/L	0.27 U	20	17.1	85	70-130	
Bromoform	ug/L	0.50 U	20	14.6	73	49-126	
Bromomethane	ug/L	0.50 U	20	12.6	63	10-165	
Carbon disulfide	ug/L	5.0 U	20	13.8	69	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.4	97	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.7	94	70-130	
Chloroethane	ug/L	0.50 U	20	20.1	101	71-142	
Chloroform	ug/L	0.50 U	20	18.8	94	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

MATRIX SPIKE SAMPLE: 2684317

Parameter	Units	35431421004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	11.1	55	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	17.0	85	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.7	68	70-130	
Dibromochloromethane	ug/L	0.26 U	20	15.1	76	62-118	
Dibromomethane	ug/L	0.50 U	20	19.9	100	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.3	91	70-130	
Iodomethane	ug/L	0.50 U	40	9.9 I	25	10-164	
Methylene Chloride	ug/L	2.5 U	20	18.2	91	65-136	
Styrene	ug/L	0.50 U	20	16.9	85	70-130	
Tetrachloroethene	ug/L	0.50 U	20	20.1	100	64-134	
Toluene	ug/L	0.50 U	20	18.3	91	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.2	86	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.5	73	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	5.0 U	22	42-129	
Trichloroethene	ug/L	0.50 U	20	20.1	101	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	15.3	77	65-135	
Vinyl acetate	ug/L	1.0 U	20	14.9	74	60-144	
Vinyl chloride	ug/L	0.50 U	20	16.3	81	68-131	
Xylene (Total)	ug/L	1.5 U	60	55.6	93	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2684145

Parameter	Units	35431421002 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	3.0	2.8	8	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	2.3	2.2	6	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	2.4	2.2	7	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
Pace Project No.: 35431603

SAMPLE DUPLICATE: 2684145

Parameter	Units	35431421002 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	0.75 I	0.67 I		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)	%	97	100	3	40	
4-Bromofluorobenzene (S)	%	107	110	3	40	
Toluene-d8 (S)	%	101	103	3	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 495794 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35431603001, 35431603002

METHOD BLANK: 2682108 | Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/25/18 07:45	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/25/18 07:45	

LABORATORY CONTROL SAMPLE: 2682109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.21	85	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.22	87	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682110 2682111

Parameter	Units	35430983001 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	.44	.44	0.47	0.48	107	109	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	<0.0072	.44	.44	0.44	0.45	100	103	60-140	3	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 495463 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35431603001, 35431603002

METHOD BLANK: 2680226 | Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/21/18 15:37	

LABORATORY CONTROL SAMPLE: 2680227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	90-110	

SAMPLE DUPLICATE: 2680228

Parameter	Units	35431421001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	149	1	5	

SAMPLE DUPLICATE: 2680229

Parameter	Units	35431370003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	363	376	4	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 496612 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35431603001, 35431603002

METHOD BLANK: 2685312 | Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/27/18 16:44	

LABORATORY CONTROL SAMPLE: 2685313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2685419 2685420

Parameter	Units	35431420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	106	50	50	163	163	114	114	90-110	0	20	J(M1), L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2686296 2686297

Parameter	Units	35432881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	73.7	500	500	571	568	99	99	90-110	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 495120 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35431603001, 35431603002

METHOD BLANK: 2678371 | Matrix: Water
Associated Lab Samples: 35431603001, 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/21/18 08:45	

LABORATORY CONTROL SAMPLE: 2678372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	107	90-110	

MATRIX SPIKE SAMPLE: 2678374

Parameter	Units	35432049001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.80	1	1.9	105	90-110	

SAMPLE DUPLICATE: 2678373

Parameter	Units	35432049001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.80	0.80	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 494902 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35431603001

METHOD BLANK: 2677072 | Matrix: Water
Associated Lab Samples: 35431603001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	11/19/18 14:57	

LABORATORY CONTROL SAMPLE: 2677073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 2677075

Parameter	Units	35431516009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.062	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 2677077

Parameter	Units	35431596001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.068	2	2.0	98	90-110	

SAMPLE DUPLICATE: 2677074

Parameter	Units	35431516009 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.062	0.068	9	20	

SAMPLE DUPLICATE: 2677076

Parameter	Units	35431596001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.068	0.066	2	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35431603

QC Batch: 494903 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35431603002

METHOD BLANK: 2677080 | Matrix: Water
Associated Lab Samples: 35431603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	11/19/18 15:38	

LABORATORY CONTROL SAMPLE: 2677081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 2677083

Parameter	Units	35431603002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.1	2	3.1	100	90-110	

MATRIX SPIKE SAMPLE: 2677085

Parameter	Units	35431622001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.048 I	2	2.0	96	80-120	

SAMPLE DUPLICATE: 2677082

Parameter	Units	35431603002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.1	1.1	0	20	

SAMPLE DUPLICATE: 2677084

Parameter	Units	35431622001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.048 I	0.047 I		20	

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

QUALIFIERS

Project: Resource Recovery
Pace Project No.: 35431603

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35431603

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35431603001	**AC74095**	EPA 8011	495794	EPA 8011	495962
35431603002	**AC74096**	EPA 8011	495794	EPA 8011	495962
35431603001	**AC74095**	EPA 3010	497573	EPA 6010	497770
35431603002	**AC74096**	EPA 3010	497573	EPA 6010	497770
35431603001	**AC74095**	EPA 3010	497577	EPA 6020	497769
35431603002	**AC74096**	EPA 3010	497577	EPA 6020	497769
35431603001	**AC74095**	EPA 7470	497983	EPA 7470	498121
35431603002	**AC74096**	EPA 7470	497983	EPA 7470	498121
35431603001	**AC74095**	EPA 8260	496096		
35431603002	**AC74096**	EPA 8260	496096		
35431603001	**AC74095**	SM 2540C	495463		
35431603002	**AC74096**	SM 2540C	495463		
35431603001	**AC74095**	EPA 300.0	496612		
35431603002	**AC74096**	EPA 300.0	496612		
35431603001	**AC74095**	EPA 350.1	495120		
35431603002	**AC74096**	EPA 350.1	495120		
35431603001	**AC74095**	EPA 353.2	494902		
35431603002	**AC74096**	EPA 353.2	494903		

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Pas[illegible] 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: 12.1 ° C (or Received on Ice ROI)
Condition of Contents:

FOR LAB USE ONLY
LOG IN NO.

WO# : 35431603
35431603

IR GUN 17647769 1

1. Client: (Company or Individual) ENV Lab
Address:
City: State Zip Code

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

3. Client Project Name: RESOURCE RECOVERY

4. Sampled by: (Print) GREG TORREY

5. Sampled by: (Signature) [signature]

6. Shipping Method: COURIER

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 S C T
14. Containers: P P P V
15. Analyses Requested

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	Sample Time	10. Comp.	Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	No. of Containers	FE Hg NA	NO3 NH3	Cl TDS	APPENDIX I					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74095	2MW-27D	11-14-18	10:12		✓	GW					8	✓	✓	✓	✓						
2.	AC74096	2MW-27S	11-14-18	10:58		✓	GW					8	✓	✓	✓	✓						
3.																						
4.																					Send to	
5.																					PACE	
6.																					11-16-18	
7.																						
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. [signature]	11-14-18	14:39	[signature]	11-14-18	15:18
2. [signature]	11-16-18	0840	[signature] T202	11/16/18	0840
3. [signature]	11/16/18	1420	[signature] PACE 1.2	11-16-18	1420
4.					

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35431603

Project Manager: PM: ADA **Due Date:** 12/04/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label:
Deliver: 11/16/18
pH:

Thermometer Used: T-202 Date: 11-16-18 Time: 1420 Initials: NJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

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. 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

December 06, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35432456

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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

CERTIFICATIONS

Project: Resource Recovery
Pace Project No.: 35432456

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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Ormond Beach, FL 32174
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SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35432456

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35432456001	**AC74259**	Water	11/19/18 10:02	11/21/18 09:50
35432456002	**AC74257**	Water	11/19/18 11:04	11/21/18 09:50
35432456003	**AC74258**	Water	11/19/18 13:31	11/21/18 09:50

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SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35432456

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35432456001	**AC74259**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	15	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35432456002	**AC74257**	EPA 8011	MMB	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35432456003	**AC74258**	EPA 8011	MMB	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	SEW	1	PASI-O

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432456

Sample: AC74259 **Lab ID: 35432456001** Collected: 11/19/18 10:02 Received: 11/21/18 09:50 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	11/30/18 06:19	12/01/18 01:53	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/30/18 06:19	12/01/18 01:53	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/05/18 01:21	12/05/18 14:38	7440-38-2	
Barium	**8.5 I**	ug/L	10.0	0.84	1	12/05/18 01:21	12/05/18 14:38	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/05/18 01:21	12/05/18 14:38	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/05/18 01:21	12/05/18 14:38	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/05/18 01:21	12/05/18 14:38	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/05/18 01:21	12/05/18 14:38	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/05/18 01:21	12/05/18 14:38	7440-50-8	
Iron	**13.0 I**	ug/L	40.0	9.2	1	12/05/18 01:21	12/05/18 14:38	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/05/18 01:21	12/05/18 14:38	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/05/18 01:21	12/05/18 14:38	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/05/18 01:21	12/05/18 14:38	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/05/18 01:21	12/05/18 14:38	7440-22-4	
Sodium	**4.6**	mg/L	2.0	0.27	1	12/05/18 01:21	12/05/18 14:38	7440-23-5	
Vanadium	**1.1 I**	ug/L	10.0	1.0	1	12/05/18 01:21	12/05/18 14:38	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/05/18 01:21	12/05/18 14:38	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/04/18 12:49	12/06/18 15:11	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**8.0 I**	ug/L	20.0	5.3	1		11/30/18 19:07	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		11/30/18 19:07	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/30/18 19:07	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		11/30/18 19:07	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		11/30/18 19:07	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		11/30/18 19:07	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		11/30/18 19:07	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/30/18 19:07	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		11/30/18 19:07	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/30/18 19:07	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		11/30/18 19:07	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		11/30/18 19:07	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		11/30/18 19:07	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		11/30/18 19:07	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		11/30/18 19:07	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		11/30/18 19:07	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	75-35-4	

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432456

Sample: AC74259 **Lab ID: 35432456001** Collected: 11/19/18 10:02 Received: 11/21/18 09:50 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		11/30/18 19:07	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		11/30/18 19:07	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		11/30/18 19:07	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		11/30/18 19:07	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		11/30/18 19:07	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		11/30/18 19:07	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		11/30/18 19:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		11/30/18 19:07	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		11/30/18 19:07	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		11/30/18 19:07	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		11/30/18 19:07	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		11/30/18 19:07	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		11/30/18 19:07	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		11/30/18 19:07	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		11/30/18 19:07	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		11/30/18 19:07	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:07	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	5.0	1.0	1		11/30/18 19:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/30/18 19:07	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/30/18 19:07	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/30/18 19:07	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**188**	mg/L	5.0	5.0	1		11/26/18 14:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.5**	mg/L	5.0	2.5	1		12/03/18 10:36	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/26/18 11:44	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.19**	mg/L	0.050	0.025	1		11/24/18 07:24		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432456

Sample: AC74257 **Lab ID: 35432456002** Collected: 11/19/18 11:04 Received: 11/21/18 09:50 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	11/30/18 06:19	12/01/18 02:09	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/30/18 06:19	12/01/18 02:09	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/05/18 01:21	12/05/18 15:05	7440-38-2	
Barium	**11.1**	ug/L	10.0	0.84	1	12/05/18 01:21	12/05/18 15:05	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/05/18 01:21	12/05/18 15:05	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/05/18 01:21	12/05/18 15:05	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/05/18 01:21	12/05/18 15:05	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/05/18 01:21	12/05/18 15:05	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/05/18 01:21	12/05/18 15:05	7440-50-8	
Iron	**164**	ug/L	40.0	9.2	1	12/05/18 01:21	12/05/18 15:05	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/05/18 01:21	12/05/18 15:05	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/05/18 01:21	12/05/18 15:05	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/05/18 01:21	12/05/18 15:05	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/05/18 01:21	12/05/18 15:05	7440-22-4	
Sodium	**6.3**	mg/L	2.0	0.27	1	12/05/18 01:21	12/05/18 15:05	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	12/05/18 01:21	12/05/18 15:05	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/05/18 01:21	12/05/18 15:05	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/04/18 12:49	12/06/18 15:13	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		11/30/18 19:32	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		11/30/18 19:32	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/30/18 19:32	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		11/30/18 19:32	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		11/30/18 19:32	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		11/30/18 19:32	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		11/30/18 19:32	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/30/18 19:32	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		11/30/18 19:32	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/30/18 19:32	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		11/30/18 19:32	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		11/30/18 19:32	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		11/30/18 19:32	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		11/30/18 19:32	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		11/30/18 19:32	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		11/30/18 19:32	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432456

Sample: AC74257 **Lab ID: 35432456002** Collected: 11/19/18 11:04 Received: 11/21/18 09:50 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		11/30/18 19:32	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		11/30/18 19:32	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		11/30/18 19:32	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		11/30/18 19:32	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		11/30/18 19:32	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		11/30/18 19:32	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		11/30/18 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		11/30/18 19:32	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		11/30/18 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		11/30/18 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		11/30/18 19:32	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		11/30/18 19:32	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		11/30/18 19:32	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		11/30/18 19:32	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		11/30/18 19:32	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		11/30/18 19:32	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:32	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	5.0	1.0	1		11/30/18 19:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/30/18 19:32	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		11/30/18 19:32	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/30/18 19:32	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**258**	mg/L	5.0	5.0	1		11/26/18 14:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**15.5**	mg/L	5.0	2.5	1		12/03/18 11:43	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.049 I**	mg/L	0.050	0.035	1		11/26/18 11:46	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.060**	mg/L	0.050	0.025	1		11/24/18 07:28		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432456

Sample: AC74258 **Lab ID: 35432456003** Collected: 11/19/18 13:31 Received: 11/21/18 09:50 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	11/30/18 06:19	12/01/18 02:23	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/30/18 06:19	12/01/18 02:23	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/05/18 01:21	12/05/18 15:08	7440-38-2	
Barium	**8.9 I**	ug/L	10.0	0.84	1	12/05/18 01:21	12/05/18 15:08	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/05/18 01:21	12/05/18 15:08	7440-41-7	
Cadmium	**1.0**	ug/L	1.0	0.33	1	12/05/18 01:21	12/05/18 15:08	7440-43-9	
Chromium	**2.7 I**	ug/L	5.0	1.7	1	12/05/18 01:21	12/05/18 15:08	7440-47-3	
Cobalt	**1.0 I**	ug/L	10.0	0.96	1	12/05/18 01:21	12/05/18 15:08	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/05/18 01:21	12/05/18 15:08	7440-50-8	
Iron	**178**	ug/L	40.0	9.2	1	12/05/18 01:21	12/05/18 15:08	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/05/18 01:21	12/05/18 15:08	7439-92-1	
Nickel	**2.4 I**	ug/L	5.0	2.1	1	12/05/18 01:21	12/05/18 15:08	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/05/18 01:21	12/05/18 15:08	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/05/18 01:21	12/05/18 15:08	7440-22-4	
Sodium	**4.8**	mg/L	2.0	0.27	1	12/05/18 01:21	12/05/18 15:08	7440-23-5	
Vanadium	**2.5 I**	ug/L	10.0	1.0	1	12/05/18 01:21	12/05/18 15:08	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/05/18 01:21	12/05/18 15:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/04/18 12:49	12/06/18 15:16	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		11/30/18 19:56	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		11/30/18 19:56	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/30/18 19:56	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		11/30/18 19:56	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		11/30/18 19:56	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		11/30/18 19:56	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		11/30/18 19:56	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/30/18 19:56	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		11/30/18 19:56	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/30/18 19:56	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		11/30/18 19:56	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		11/30/18 19:56	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		11/30/18 19:56	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		11/30/18 19:56	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		11/30/18 19:56	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		11/30/18 19:56	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432456

Sample: AC74258 **Lab ID: 35432456003** Collected: 11/19/18 13:31 Received: 11/21/18 09:50 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		11/30/18 19:56	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		11/30/18 19:56	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		11/30/18 19:56	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		11/30/18 19:56	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		11/30/18 19:56	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		11/30/18 19:56	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		11/30/18 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		11/30/18 19:56	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		11/30/18 19:56	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		11/30/18 19:56	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		11/30/18 19:56	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		11/30/18 19:56	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		11/30/18 19:56	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		11/30/18 19:56	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		11/30/18 19:56	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		11/30/18 19:56	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/30/18 19:56	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	5.0	1.0	1		11/30/18 19:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/30/18 19:56	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/30/18 19:56	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/30/18 19:56	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**89.0**	mg/L	5.0	5.0	1		11/26/18 14:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**8.5**	mg/L	5.0	2.5	1		12/03/18 12:05	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/26/18 11:48	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**6.1**	mg/L	0.25	0.12	5		11/24/18 07:36		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

QC Batch: 498278 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35432456001, 35432456002, 35432456003

METHOD BLANK: 2693762 | Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/06/18 14:31	

LABORATORY CONTROL SAMPLE: 2693763

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: 2693764 2693765

Parameter	Units	35432051006 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	2.0	100	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

QC Batch: 498513 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35432456001, 35432456002, 35432456003

METHOD BLANK: 2695254 | Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1 U	10.0	7.1	12/05/18 14:32	
Barium	ug/L	0.84 U	10.0	0.84	12/05/18 14:32	
Beryllium	ug/L	1.6 U	4.0	1.6	12/05/18 14:32	
Cadmium	ug/L	0.33 U	1.0	0.33	12/05/18 14:32	
Chromium	ug/L	1.7 U	5.0	1.7	12/05/18 14:32	
Cobalt	ug/L	0.96 U	10.0	0.96	12/05/18 14:32	
Copper	ug/L	2.6 U	5.0	2.6	12/05/18 14:32	
Iron	ug/L	9.2 U	40.0	9.2	12/05/18 14:32	
Lead	ug/L	4.6 U	10.0	4.6	12/05/18 14:32	
Nickel	ug/L	2.1 U	5.0	2.1	12/05/18 14:32	
Selenium	ug/L	8.5 U	15.0	8.5	12/05/18 14:32	
Silver	ug/L	1.0 U	5.0	1.0	12/05/18 14:32	
Sodium	mg/L	0.27 U	2.0	0.27	12/05/18 14:32	
Vanadium	ug/L	1.0 U	10.0	1.0	12/05/18 14:32	
Zinc	ug/L	11.0 U	20.0	11.0	12/05/18 14:32	

LABORATORY CONTROL SAMPLE: 2695255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	228	91	80-120	
Barium	ug/L	250	242	97	80-120	
Beryllium	ug/L	25	23.2	93	80-120	
Cadmium	ug/L	25	24.5	98	80-120	
Chromium	ug/L	250	245	98	80-120	
Cobalt	ug/L	250	243	97	80-120	
Copper	ug/L	250	234	94	80-120	
Iron	ug/L	2500	2440	98	80-120	
Lead	ug/L	250	245	98	80-120	
Nickel	ug/L	250	245	98	80-120	
Selenium	ug/L	250	233	93	80-120	
Silver	ug/L	25	23.7	95	80-120	
Sodium	mg/L	12.5	11.9	95	80-120	
Vanadium	ug/L	250	241	96	80-120	
Zinc	ug/L	1250	1190	95	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2695256 2695257

Parameter	Units	35432456001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	234	234	93	93	75-125	0	20	
Barium	ug/L	8.5 I	250	250	256	255	99	98	75-125	0	20	
Beryllium	ug/L	1.6 U	25	25	23.8	23.8	95	95	75-125	0	20	
Cadmium	ug/L	0.33 U	25	25	24.8	24.7	99	99	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	248	248	99	99	75-125	0	20	
Cobalt	ug/L	0.96 U	250	250	249	248	99	99	75-125	0	20	
Copper	ug/L	2.6 U	250	250	239	239	96	96	75-125	0	20	
Iron	ug/L	13.0 I	2500	2500	2510	2510	100	100	75-125	0	20	
Lead	ug/L	4.6 U	250	250	248	248	99	99	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	248	248	99	99	75-125	0	20	
Selenium	ug/L	8.5 U	250	250	235	235	94	94	75-125	0	20	
Silver	ug/L	1.0 U	25	25	24.4	24.4	98	98	75-125	0	20	
Sodium	mg/L	4.6	12.5	12.5	17.1	17.0	100	99	75-125	1	20	
Vanadium	ug/L	1.1 I	250	250	249	248	99	99	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1210	1200	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

QC Batch: 497542 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35432456001, 35432456002, 35432456003

METHOD BLANK: 2690262 Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/30/18 10:27	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/30/18 10:27	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/30/18 10:27	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/30/18 10:27	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/30/18 10:27	
Acetone	ug/L	10.0 U	20.0	10.0	11/30/18 10:27	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/30/18 10:27	
Benzene	ug/L	0.10 U	1.0	0.10	11/30/18 10:27	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/30/18 10:27	
Bromoform	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/30/18 10:27	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/30/18 10:27	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/30/18 10:27	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/30/18 10:27	
Chloroform	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/30/18 10:27	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/30/18 10:27	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/30/18 10:27	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/30/18 10:27	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/30/18 10:27	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/30/18 10:27	
Styrene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Toluene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/30/18 10:27	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/30/18 10:27	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

METHOD BLANK: 2690262 Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/30/18 10:27	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/30/18 10:27	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	11/30/18 10:27	
1,2-Dichloroethane-d4 (S)	%	107	70-130		11/30/18 10:27	
4-Bromofluorobenzene (S)	%	91	70-130		11/30/18 10:27	
Toluene-d8 (S)	%	101	70-130		11/30/18 10:27	

LABORATORY CONTROL SAMPLE: 2690263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	100	70-130	
1,1,1-Trichloroethane	ug/L	20	19.1	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.4	112	68-125	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethane	ug/L	20	19.9	99	70-130	
1,1-Dichloroethene	ug/L	20	17.8	89	66-133	
1,2,3-Trichloropropane	ug/L	20	19.7	99	62-127	
1,2-Dichlorobenzene	ug/L	20	21.0	105	70-130	
1,2-Dichloroethane	ug/L	20	19.1	95	70-130	
1,2-Dichloropropane	ug/L	20	20.2	101	70-130	
1,4-Dichlorobenzene	ug/L	20	20.3	102	70-130	
2-Butanone (MEK)	ug/L	40	35.3	88	47-143	
2-Hexanone	ug/L	40	38.1	95	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	38.5	96	57-132	
Acetone	ug/L	40	40.6	102	46-148	
Acrylonitrile	ug/L	200	187	94	60-143	
Benzene	ug/L	20	19.8	99	70-130	
Bromochloromethane	ug/L	20	18.4	92	70-130	
Bromodichloromethane	ug/L	20	19.1	96	70-130	
Bromoform	ug/L	20	18.4	92	49-126	
Bromomethane	ug/L	20	18.5	92	10-165	
Carbon disulfide	ug/L	20	17.3	87	60-141	
Carbon tetrachloride	ug/L	20	18.8	94	63-126	
Chlorobenzene	ug/L	20	19.2	96	70-130	
Chloroethane	ug/L	20	17.1	85	71-142	
Chloroform	ug/L	20	19.5	98	70-130	
Chloromethane	ug/L	20	17.6	88	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.3	102	70-130	
Dibromochloromethane	ug/L	20	19.6	98	62-118	
Dibromomethane	ug/L	20	18.3	92	70-130	
Ethylbenzene	ug/L	20	20.3	101	70-130	
Iodomethane	ug/L	40	32.1	80	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

LABORATORY CONTROL SAMPLE: 2690263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.9	100	65-136	
Styrene	ug/L	20	20.1	101	70-130	
Tetrachloroethene	ug/L	20	17.0	85	64-134	
Toluene	ug/L	20	19.9	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.1	96	68-127	
trans-1,3-Dichloropropene	ug/L	20	20.2	101	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	17.4	87	42-129	
Trichloroethene	ug/L	20	17.5	88	70-130	
Trichlorofluoromethane	ug/L	20	14.3	72	65-135	
Vinyl acetate	ug/L	20	23.0	115	60-144	
Vinyl chloride	ug/L	20	14.6	73	68-131	
Xylene (Total)	ug/L	60	62.0	103	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2690991

Parameter	Units	35432916012 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	20.8	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	23.2	116	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	21.1	105	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	19.1	96	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	23.9	120	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	21.0	105	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	20.1	100	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	21.0	105	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.7	104	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	34.2	85	47-143	
2-Hexanone	ug/L	5.0 U	40	34.8	87	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	35.3	88	57-132	
Acetone	ug/L	10.0 U	40	35.5	76	46-148	
Acrylonitrile	ug/L	5.0 U	200	175	88	60-143	
Benzene	ug/L	0.10 U	20	21.1	105	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.9	95	70-130	
Bromodichloromethane	ug/L	0.27 U	20	20.3	102	70-130	
Bromoform	ug/L	0.50 U	20	18.4	92	49-126	
Bromomethane	ug/L	0.50 U	20	17.4	87	10-165	
Carbon disulfide	ug/L	5.0 U	20	18.6	93	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	20.2	101	63-126	
Chlorobenzene	ug/L	0.50 U	20	19.8	99	70-130	
Chloroethane	ug/L	0.50 U	20	18.0	90	71-142	
Chloroform	ug/L	0.50 U	20	20.2	101	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

MATRIX SPIKE SAMPLE: 2690991

Parameter	Units	35432916012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	19.2	96	40-140	
cis-1,2-Dichloroethene	ug/L	14.8	20	35.5	104	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	19.9	100	70-130	
Dibromochloromethane	ug/L	0.26 U	20	20.0	100	62-118	
Dibromomethane	ug/L	0.50 U	20	18.7	93	70-130	
Ethylbenzene	ug/L	0.50 U	20	20.9	105	70-130	
Iodomethane	ug/L	0.50 U	40	31.0	77	10-164	
Methylene Chloride	ug/L	2.5 U	20	19.2	96	65-136	
Styrene	ug/L	0.50 U	20	20.6	103	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.1	85	64-134	
Toluene	ug/L	0.50 U	20	20.9	105	70-130	
trans-1,2-Dichloroethene	ug/L	1.7	20	20.9	96	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	20.8	104	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	16.5	82	42-129	
Trichloroethene	ug/L	1.0	20	19.8	94	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	15.3	77	65-135	
Vinyl acetate	ug/L	1.0 U	20	21.7	109	60-144	
Vinyl chloride	ug/L	0.50 U	20	16.9	83	68-131	
Xylene (Total)	ug/L	1.0 U	60	63.5	106	70-130	
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				94	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2690990

Parameter	Units	35433403001 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	18.9 I	10.0 I		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	

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
Pace Project No.: 35432456

SAMPLE DUPLICATE: 2690990

Parameter	Units	35433403001 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	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	110	108	2	40	
4-Bromofluorobenzene (S)	%	90	89	1	40	
Toluene-d8 (S)	%	101	102	0	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

QC Batch: 497405 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35432456001, 35432456002, 35432456003

METHOD BLANK: 2689669 | Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/01/18 01:24	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/01/18 01:24	

LABORATORY CONTROL SAMPLE: 2689670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	94	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.22	90	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2689774 2689775

Parameter	Units	35433693002 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	.25	.25	0.33	0.32	134	126	60-140	6	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	.25	.25	0.30	0.29	122	115	60-140	6	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
Pace Project No.: 35432456

QC Batch: 496146 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35432456001, 35432456002, 35432456003

METHOD BLANK: 2683267 | Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/26/18 14:40	

LABORATORY CONTROL SAMPLE: 2683268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	294	98	90-110	

SAMPLE DUPLICATE: 2683269

Parameter	Units	35431957002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	109	113	4	5	

SAMPLE DUPLICATE: 2683270

Parameter	Units	35431992005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	27.0	27.0	0	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

QC Batch: 498016 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35432456001, 35432456002, 35432456003

METHOD BLANK: 2692628 | Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	12/03/18 09:51	

LABORATORY CONTROL SAMPLE: 2692629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2692630 2692631

Parameter	Units	35432456001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.5	50	50	60.2	62.1	95	99	90-110	3	20	

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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

QC Batch: 496110 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35432456001, 35432456002, 35432456003

METHOD BLANK: 2683169 | Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/26/18 11:17	

LABORATORY CONTROL SAMPLE: 2683170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 2683172

Parameter	Units	35432176004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.042 I	1	1.1	106	90-110	

SAMPLE DUPLICATE: 2683171

Parameter	Units	35432176004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.042 I	0.042 I		20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432456

QC Batch: 495904 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35432456001, 35432456002, 35432456003

METHOD BLANK: 2682693 | Matrix: Water
Associated Lab Samples: 35432456001, 35432456002, 35432456003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	11/24/18 07:04	

LABORATORY CONTROL SAMPLE: 2682694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 2682696

Parameter	Units	35432155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.081	2	2.0	95	90-110	

MATRIX SPIKE SAMPLE: 2682698

Parameter	Units	35432456001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.19	2	2.1	95	90-110	

SAMPLE DUPLICATE: 2682695

Parameter	Units	35432155001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.081	0.073	10	20	

SAMPLE DUPLICATE: 2682697

Parameter	Units	35432456001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.19	0.19	0	20	

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery
Pace Project No.: 35432456

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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.

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35432456

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35432456001	**AC74259**	EPA 8011	497405	EPA 8011	497540
35432456002	**AC74257**	EPA 8011	497405	EPA 8011	497540
35432456003	**AC74258**	EPA 8011	497405	EPA 8011	497540
35432456001	**AC74259**	EPA 3010	498513	EPA 6010	498514
35432456002	**AC74257**	EPA 3010	498513	EPA 6010	498514
35432456003	**AC74258**	EPA 3010	498513	EPA 6010	498514
35432456001	**AC74259**	EPA 7470	498278	EPA 7470	498437
35432456002	**AC74257**	EPA 7470	498278	EPA 7470	498437
35432456003	**AC74258**	EPA 7470	498278	EPA 7470	498437
35432456001	**AC74259**	EPA 8260	497542		
35432456002	**AC74257**	EPA 8260	497542		
35432456003	**AC74258**	EPA 8260	497542		
35432456001	**AC74259**	SM 2540C	496146		
35432456002	**AC74257**	SM 2540C	496146		
35432456003	**AC74258**	SM 2540C	496146		
35432456001	**AC74259**	EPA 300.0	498016		
35432456002	**AC74257**	EPA 300.0	498016		
35432456003	**AC74258**	EPA 300.0	498016		
35432456001	**AC74259**	EPA 350.1	496110		
35432456002	**AC74257**	EPA 350.1	496110		
35432456003	**AC74258**	EPA 350.1	496110		
35432456001	**AC74259**	EPA 353.2	495904		
35432456002	**AC74257**	EPA 353.2	495904		
35432456003	**AC74258**	EPA 353.2	495904		

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Pas[illegible] 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: 7.9 ° C (or Received on Ice ROI)
Condition of Contents:

WO#: 35432456
35432456

IK 6un 170477691

1. Client: (Company or Individual) ENV Lab
Address:
City: State Zip Code

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

3. Client Project Name: RESOURCE RECOVERY
4. Sampled by: (Print) GREG TORREY
5. Sampled by: (Signature) [signature]
6. Shipping Method: COURIER

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	S	C	T					
14. Containers	P	P	P	V					

15. Analyses Requested

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	Sample Time	10. Comp.	Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	No. of Containers	FE HG NA	NO3 NH3	Cl TDS	APPENDIX I					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74259	4MW7	11-19-18	10:02		✓	GW					8	✓	✓	✓	✓						
2.	AC74257	4MM-22	11-19-18	11:04		✓	GW					8	✓	✓	✓	✓					~~Send to LR~~	
3.	AC74258	4MMW-21	11-19-18	13:31		✓	GW					8	✓	✓	✓	✓						
4.																						
5.																					Send to	
6.																					PACE	
7.																					11-21-18	
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. [signature]	11-19-18	14:57	[signature]	11-19-18	15:38
2. [signature]	11-21-18	0800	[signature] T202	11-21-18	0800
3. [signature]	11-21-18	0950	MMC GMW / PACE 0.6	11-21-18	0950
4.					

Page 26 of 27
PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO# : 35432456

Project Manager: PM: ADA **Due Date:** 12/07/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label:
Deliver: 11/21/18
pH:

Thermometer Used: T-202 Date: 11-21-18 Time: 0950 Initials: LOM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 0.6 **(Visual)** 0.0 **(Correction Factor)** 0.6 **(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:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	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

December 06, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35432458

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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Ormond Beach, FL 32174
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CERTIFICATIONS

Project:	Resource Recovery
Pace Project No.:	35432458

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35432458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35432458001	**AC74295**	Water	11/20/18 11:57	11/21/18 09:50
35432458002	**AC74296**	Water	11/20/18 14:26	11/21/18 09:50

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Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35432458

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35432458001	**AC74295**	EPA 8011	MMB	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35432458002	**AC74296**	EPA 8011	MMB	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	SEW	1	PASI-O

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432458

Sample: AC74295 **Lab ID: 35432458001** Collected: 11/20/18 11:57 Received: 11/21/18 09:50 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	11/30/18 06:19	12/01/18 02:39	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/30/18 06:19	12/01/18 02:39	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/05/18 01:21	12/05/18 15:10	7440-38-2	
Barium	**34.8**	ug/L	10.0	0.84	1	12/05/18 01:21	12/05/18 15:10	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/05/18 01:21	12/05/18 15:10	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/05/18 01:21	12/05/18 15:10	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/05/18 01:21	12/05/18 15:10	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/05/18 01:21	12/05/18 15:10	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/05/18 01:21	12/05/18 15:10	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	12/05/18 01:21	12/05/18 15:10	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/05/18 01:21	12/05/18 15:10	7439-92-1	
Nickel	**5.1**	ug/L	5.0	2.1	1	12/05/18 01:21	12/05/18 15:10	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/05/18 01:21	12/05/18 15:10	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/05/18 01:21	12/05/18 15:10	7440-22-4	
Sodium	**68.4**	mg/L	2.0	0.27	1	12/05/18 01:21	12/05/18 15:10	7440-23-5	
Vanadium	**2.1 I**	ug/L	10.0	1.0	1	12/05/18 01:21	12/05/18 15:10	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/05/18 01:21	12/05/18 15:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/04/18 12:49	12/06/18 15:18	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/03/18 02:06	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/03/18 02:06	107-13-1	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		12/03/18 02:06	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/03/18 02:06	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/03/18 02:06	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/03/18 02:06	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/03/18 02:06	74-83-9	
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		12/03/18 02:06	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/03/18 02:06	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		12/03/18 02:06	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		12/03/18 02:06	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/03/18 02:06	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		12/03/18 02:06	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/03/18 02:06	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/03/18 02:06	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/03/18 02:06	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		12/03/18 02:06	95-50-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		12/03/18 02:06	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/03/18 02:06	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/03/18 02:06	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		12/03/18 02:06	107-06-2	
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/03/18 02:06	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432458

Sample: AC74295 **Lab ID: 35432458001** Collected: 11/20/18 11:57 Received: 11/21/18 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/03/18 02:06	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		12/03/18 02:06	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/03/18 02:06	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/03/18 02:06	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/03/18 02:06	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		12/03/18 02:06	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/03/18 02:06	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/03/18 02:06	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/03/18 02:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/03/18 02:06	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/03/18 02:06	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/03/18 02:06	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/03/18 02:06	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		12/03/18 02:06	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		12/03/18 02:06	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/03/18 02:06	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/03/18 02:06	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		12/03/18 02:06	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/03/18 02:06	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/03/18 02:06	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/03/18 02:06	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		12/03/18 02:06	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		12/03/18 02:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		12/03/18 02:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/03/18 02:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/03/18 02:06	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**515**	mg/L	5.0	5.0	1		11/27/18 15:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**115**	mg/L	25.0	12.5	5		12/03/18 12:28	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/26/18 11:54	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**2.4**	mg/L	0.050	0.025	1		11/24/18 07:31		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432458

Sample: AC74296 **Lab ID: 35432458002** Collected: 11/20/18 14:26 Received: 11/21/18 09:50 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	11/30/18 06:19	12/01/18 03:08	96-12-8	
1,2-Dibromoethane (EDB)	**0.0071 U**	ug/L	0.0095	0.0071	1	11/30/18 06:19	12/01/18 03:08	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/05/18 01:21	12/05/18 15:13	7440-38-2	
Barium	**7.2 I**	ug/L	10.0	0.84	1	12/05/18 01:21	12/05/18 15:13	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/05/18 01:21	12/05/18 15:13	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/05/18 01:21	12/05/18 15:13	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/05/18 01:21	12/05/18 15:13	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/05/18 01:21	12/05/18 15:13	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/05/18 01:21	12/05/18 15:13	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	12/05/18 01:21	12/05/18 15:13	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/05/18 01:21	12/05/18 15:13	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/05/18 01:21	12/05/18 15:13	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/05/18 01:21	12/05/18 15:13	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/05/18 01:21	12/05/18 15:13	7440-22-4	
Sodium	**4.0**	mg/L	2.0	0.27	1	12/05/18 01:21	12/05/18 15:13	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	12/05/18 01:21	12/05/18 15:13	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/05/18 01:21	12/05/18 15:13	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/04/18 12:49	12/06/18 15:20	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/03/18 02:54	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/03/18 02:54	107-13-1	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		12/03/18 02:54	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/03/18 02:54	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/03/18 02:54	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/03/18 02:54	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/03/18 02:54	74-83-9	
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		12/03/18 02:54	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/03/18 02:54	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		12/03/18 02:54	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		12/03/18 02:54	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/03/18 02:54	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		12/03/18 02:54	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/03/18 02:54	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/03/18 02:54	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/03/18 02:54	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		12/03/18 02:54	95-50-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		12/03/18 02:54	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/03/18 02:54	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/03/18 02:54	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		12/03/18 02:54	107-06-2	
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/03/18 02:54	75-35-4	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35432458

Sample: AC74296 **Lab ID: 35432458002** Collected: 11/20/18 14:26 Received: 11/21/18 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/03/18 02:54	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		12/03/18 02:54	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/03/18 02:54	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/03/18 02:54	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/03/18 02:54	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		12/03/18 02:54	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/03/18 02:54	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/03/18 02:54	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/03/18 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/03/18 02:54	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/03/18 02:54	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/03/18 02:54	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/03/18 02:54	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		12/03/18 02:54	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		12/03/18 02:54	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/03/18 02:54	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/03/18 02:54	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		12/03/18 02:54	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/03/18 02:54	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/03/18 02:54	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/03/18 02:54	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		12/03/18 02:54	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		12/03/18 02:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		12/03/18 02:54	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/03/18 02:54	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/03/18 02:54	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**209**	mg/L	5.0	5.0	1		11/27/18 15:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.5**	mg/L	5.0	2.5	1		12/03/18 12:50	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/26/18 11:55	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		11/24/18 07:37		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

QC Batch: 498278 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35432458001, 35432458002

METHOD BLANK: 2693762 | Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/06/18 14:31	

LABORATORY CONTROL SAMPLE: 2693763

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: 2693764 2693765

Parameter	Units	35432051006 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	2.0	100	100	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

QC Batch: 498513 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35432458001, 35432458002

METHOD BLANK: 2695254 | Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1 U	10.0	7.1	12/05/18 14:32	
Barium	ug/L	0.84 U	10.0	0.84	12/05/18 14:32	
Beryllium	ug/L	1.6 U	4.0	1.6	12/05/18 14:32	
Cadmium	ug/L	0.33 U	1.0	0.33	12/05/18 14:32	
Chromium	ug/L	1.7 U	5.0	1.7	12/05/18 14:32	
Cobalt	ug/L	0.96 U	10.0	0.96	12/05/18 14:32	
Copper	ug/L	2.6 U	5.0	2.6	12/05/18 14:32	
Iron	ug/L	9.2 U	40.0	9.2	12/05/18 14:32	
Lead	ug/L	4.6 U	10.0	4.6	12/05/18 14:32	
Nickel	ug/L	2.1 U	5.0	2.1	12/05/18 14:32	
Selenium	ug/L	8.5 U	15.0	8.5	12/05/18 14:32	
Silver	ug/L	1.0 U	5.0	1.0	12/05/18 14:32	
Sodium	mg/L	0.27 U	2.0	0.27	12/05/18 14:32	
Vanadium	ug/L	1.0 U	10.0	1.0	12/05/18 14:32	
Zinc	ug/L	11.0 U	20.0	11.0	12/05/18 14:32	

LABORATORY CONTROL SAMPLE: 2695255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	228	91	80-120	
Barium	ug/L	250	242	97	80-120	
Beryllium	ug/L	25	23.2	93	80-120	
Cadmium	ug/L	25	24.5	98	80-120	
Chromium	ug/L	250	245	98	80-120	
Cobalt	ug/L	250	243	97	80-120	
Copper	ug/L	250	234	94	80-120	
Iron	ug/L	2500	2440	98	80-120	
Lead	ug/L	250	245	98	80-120	
Nickel	ug/L	250	245	98	80-120	
Selenium	ug/L	250	233	93	80-120	
Silver	ug/L	25	23.7	95	80-120	
Sodium	mg/L	12.5	11.9	95	80-120	
Vanadium	ug/L	250	241	96	80-120	
Zinc	ug/L	1250	1190	95	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2695256 2695257

Parameter	Units	35432456001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	234	234	93	93	75-125	0	20	
Barium	ug/L	8.5 I	250	250	256	255	99	98	75-125	0	20	
Beryllium	ug/L	1.6 U	25	25	23.8	23.8	95	95	75-125	0	20	
Cadmium	ug/L	0.33 U	25	25	24.8	24.7	99	99	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	248	248	99	99	75-125	0	20	
Cobalt	ug/L	0.96 U	250	250	249	248	99	99	75-125	0	20	
Copper	ug/L	2.6 U	250	250	239	239	96	96	75-125	0	20	
Iron	ug/L	13.0 I	2500	2500	2510	2510	100	100	75-125	0	20	
Lead	ug/L	4.6 U	250	250	248	248	99	99	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	248	248	99	99	75-125	0	20	
Selenium	ug/L	8.5 U	250	250	235	235	94	94	75-125	0	20	
Silver	ug/L	1.0 U	25	25	24.4	24.4	98	98	75-125	0	20	
Sodium	mg/L	4.6	12.5	12.5	17.1	17.0	100	99	75-125	1	20	
Vanadium	ug/L	1.1 I	250	250	249	248	99	99	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1210	1200	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

QC Batch: 497915 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35432458001, 35432458002

METHOD BLANK: 2692270 | Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	12/03/18 00:31	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/03/18 00:31	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	12/03/18 00:31	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/03/18 00:31	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	12/03/18 00:31	
1,1-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/03/18 00:31	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	12/03/18 00:31	
1,2-Dichlorobenzene	ug/L	0.29 U	1.0	0.29	12/03/18 00:31	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	12/03/18 00:31	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	12/03/18 00:31	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	12/03/18 00:31	
2-Butanone (MEK)	ug/L	7.5 U	10.0	7.5	12/03/18 00:31	
2-Hexanone	ug/L	0.85 U	10.0	0.85	12/03/18 00:31	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	12/03/18 00:31	
Acetone	ug/L	5.3 U	20.0	5.3	12/03/18 00:31	
Acrylonitrile	ug/L	3.7 U	10.0	3.7	12/03/18 00:31	
Benzene	ug/L	0.30 U	1.0	0.30	12/03/18 00:31	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	12/03/18 00:31	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	12/03/18 00:31	
Bromoform	ug/L	2.6 U	3.0	2.6	12/03/18 00:31	
Bromomethane	ug/L	4.0 U	5.0	4.0	12/03/18 00:31	
Carbon disulfide	ug/L	0.45 U	10.0	0.45	12/03/18 00:31	
Carbon tetrachloride	ug/L	1.1 U	3.0	1.1	12/03/18 00:31	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	12/03/18 00:31	
Chloroethane	ug/L	3.7 U	10.0	3.7	12/03/18 00:31	
Chloroform	ug/L	0.32 U	1.0	0.32	12/03/18 00:31	
Chloromethane	ug/L	0.97 U	1.0	0.97	12/03/18 00:31	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/03/18 00:31	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/03/18 00:31	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	12/03/18 00:31	
Dibromomethane	ug/L	0.68 U	2.0	0.68	12/03/18 00:31	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	12/03/18 00:31	
Iodomethane	ug/L	9.3 U	10.0	9.3	12/03/18 00:31	
Methylene Chloride	ug/L	2.0 U	5.0	2.0	12/03/18 00:31	
Styrene	ug/L	0.26 U	1.0	0.26	12/03/18 00:31	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	12/03/18 00:31	
Toluene	ug/L	0.33 U	1.0	0.33	12/03/18 00:31	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	12/03/18 00:31	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/03/18 00:31	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	12/03/18 00:31	
Trichloroethene	ug/L	0.36 U	1.0	0.36	12/03/18 00:31	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

METHOD BLANK: 2692270 Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	12/03/18 00:31	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	12/03/18 00:31	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	12/03/18 00:31	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	12/03/18 00:31	
1,2-Dichloroethane-d4 (S)	%	106	70-130		12/03/18 00:31	
4-Bromofluorobenzene (S)	%	94	70-130		12/03/18 00:31	
Toluene-d8 (S)	%	104	70-130		12/03/18 00:31	

LABORATORY CONTROL SAMPLE: 2692271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	70-130	
1,1,1-Trichloroethane	ug/L	20	19.5	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	68-125	
1,1,2-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1-Dichloroethane	ug/L	20	18.7	94	70-130	
1,1-Dichloroethene	ug/L	20	17.2	86	66-133	
1,2,3-Trichloropropane	ug/L	20	21.6	108	62-127	
1,2-Dichlorobenzene	ug/L	20	20.2	101	70-130	
1,2-Dichloroethane	ug/L	20	18.4	92	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	36.9	92	47-143	
2-Hexanone	ug/L	40	33.7	84	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	34.3	86	57-132	
Acetone	ug/L	40	52.5	131	46-148	
Acrylonitrile	ug/L	200	183	92	60-143	
Benzene	ug/L	20	19.8	99	70-130	
Bromochloromethane	ug/L	20	19.3	97	70-130	
Bromodichloromethane	ug/L	20	19.9	99	70-130	
Bromoform	ug/L	20	17.2	86	49-126	
Bromomethane	ug/L	20	26.8	134	10-165	
Carbon disulfide	ug/L	20	25.6	128	60-141	
Carbon tetrachloride	ug/L	20	19.1	95	63-126	
Chlorobenzene	ug/L	20	19.8	99	70-130	
Chloroethane	ug/L	20	22.9	115	71-142	
Chloroform	ug/L	20	19.7	99	70-130	
Chloromethane	ug/L	20	21.3	106	40-140	
cis-1,2-Dichloroethene	ug/L	20	19.5	98	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
Dibromochloromethane	ug/L	20	16.8	84	62-118	
Dibromomethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	20.0	100	70-130	
Iodomethane	ug/L	40	40.1	100	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

LABORATORY CONTROL SAMPLE: 2692271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.8	99	65-136	
Styrene	ug/L	20	19.3	96	70-130	
Tetrachloroethene	ug/L	20	21.8	109	64-134	
Toluene	ug/L	20	19.9	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	68-127	
trans-1,3-Dichloropropene	ug/L	20	18.2	91	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	15.9	79	42-129	
Trichloroethene	ug/L	20	19.1	95	70-130	
Trichlorofluoromethane	ug/L	20	19.0	95	65-135	
Vinyl acetate	ug/L	20	24.3	121	60-144	
Vinyl chloride	ug/L	20	18.3	92	68-131	
Xylene (Total)	ug/L	60	61.5	103	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2692770

Parameter	Units	35432458002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	18.5	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	18.3	92	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	18.3	91	70-130	
1,1-Dichloroethene	ug/L	0.27 U	20	16.5	82	66-133	
1,2,3-Trichloropropane	ug/L	1.1 U	20	19.2	96	62-127	
1,2-Dichlorobenzene	ug/L	0.29 U	20	17.3	87	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	17.1	85	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	17.5	88	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	17.6	88	70-130	
2-Butanone (MEK)	ug/L	7.5 U	40	33.4	83	47-143	
2-Hexanone	ug/L	0.85 U	40	26.4	66	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	25.8	65	57-132	
Acetone	ug/L	5.3 U	40	42.6	106	46-148	
Acrylonitrile	ug/L	3.7 U	200	160	80	60-143	
Benzene	ug/L	0.30 U	20	18.4	92	70-130	
Bromochloromethane	ug/L	0.37 U	20	18.2	91	70-130	
Bromodichloromethane	ug/L	0.19 U	20	17.5	88	70-130	
Bromoform	ug/L	2.6 U	20	15.3	76	49-126	
Bromomethane	ug/L	4.0 U	20	21.6	108	10-165	
Carbon disulfide	ug/L	0.45 U	20	24.1	121	60-141	
Carbon tetrachloride	ug/L	1.1 U	20	18.6	93	63-126	
Chlorobenzene	ug/L	0.35 U	20	18.7	93	70-130	
Chloroethane	ug/L	3.7 U	20	22.8	114	71-142	
Chloroform	ug/L	0.32 U	20	18.9	95	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

MATRIX SPIKE SAMPLE: 2692770

Parameter	Units	35432458002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.97 U	20	19.7	99	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	17.6	88	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	14.0	70	70-130	
Dibromochloromethane	ug/L	0.45 U	20	14.8	74	62-118	
Dibromomethane	ug/L	0.68 U	20	17.8	89	70-130	
Ethylbenzene	ug/L	0.30 U	20	18.6	93	70-130	
Iodomethane	ug/L	9.3 U	40	28.4	70	10-164	
Methylene Chloride	ug/L	2.0 U	20	18.3	92	65-136	
Styrene	ug/L	0.26 U	20	17.5	87	70-130	
Tetrachloroethene	ug/L	0.38 U	20	16.5	82	64-134	
Toluene	ug/L	0.33 U	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	16.6	83	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	15.2	76	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	12.7	64	42-129	
Trichloroethene	ug/L	0.36 U	20	19.0	95	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	18.3	92	65-135	
Vinyl acetate	ug/L	0.19 U	20	20.1	101	60-144	
Vinyl chloride	ug/L	0.39 U	20	16.4	82	68-131	
Xylene (Total)	ug/L	2.1 U	60	54.7	91	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2692769

Parameter	Units	35432458001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.27 U	0.27 U		40	
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 U		40	
1,2-Dichlorobenzene	ug/L	0.29 U	0.29 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	7.5 U	7.5 U		40	
2-Hexanone	ug/L	0.85 U	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	
Acetone	ug/L	5.3 U	5.3 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

SAMPLE DUPLICATE: 2692769

Parameter	Units	35432458001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	2.6 U	2.6 U		40	
Bromomethane	ug/L	4.0 U	4.0 U		40	
Carbon disulfide	ug/L	0.45 U	0.45 U		40	
Carbon tetrachloride	ug/L	1.1 U	1.1 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.32 U	0.32 U		40	
Chloromethane	ug/L	0.97 U	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichloroethane-d4 (S)	%	105	107	2	40	
4-Bromofluorobenzene (S)	%	92	94	2	40	
Toluene-d8 (S)	%	101	99	2	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
Pace Project No.: 35432458

QC Batch: 497405 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35432458001, 35432458002

METHOD BLANK: 2689669 | Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/01/18 01:24	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/01/18 01:24	

LABORATORY CONTROL SAMPLE: 2689670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	94	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.22	90	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2689774 2689775

Parameter	Units	35433693002 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	.25	.25	0.33	0.32	134	126	60-140	6	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	.25	.25	0.30	0.29	122	115	60-140	6	40	

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REPORT OF LABORATORY ANALYSIS

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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

QC Batch: 496398 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35432458001, 35432458002

METHOD BLANK: 2684402 | Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/27/18 15:15	

LABORATORY CONTROL SAMPLE: 2684403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	294	98	90-110	

SAMPLE DUPLICATE: 2684404

Parameter	Units	35432191001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	106	4	5	

SAMPLE DUPLICATE: 2684405

Parameter	Units	35432469005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	443	443	0	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

QC Batch: 498016 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35432458001, 35432458002

METHOD BLANK: 2692628 | Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	12/03/18 09:51	

LABORATORY CONTROL SAMPLE: 2692629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2692630 2692631

Parameter	Units	35432456001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.5	50	50	60.2	62.1	95	99	90-110	3	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

QC Batch: 496110 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35432458001, 35432458002

METHOD BLANK: 2683169 | Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/26/18 11:17	

LABORATORY CONTROL SAMPLE: 2683170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 2683172

Parameter	Units	35432176004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.042 I	1	1.1	106	90-110	

SAMPLE DUPLICATE: 2683171

Parameter	Units	35432176004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.042 I	0.042 I		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35432458

QC Batch: 495904 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35432458001, 35432458002

METHOD BLANK: 2682693 | Matrix: Water
Associated Lab Samples: 35432458001, 35432458002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	11/24/18 07:04	

LABORATORY CONTROL SAMPLE: 2682694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 2682696

Parameter	Units	35432155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.081	2	2.0	95	90-110	

MATRIX SPIKE SAMPLE: 2682698

Parameter	Units	35432456001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.19	2	2.1	95	90-110	

SAMPLE DUPLICATE: 2682695

Parameter	Units	35432155001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.081	0.073	10	20	

SAMPLE DUPLICATE: 2682697

Parameter	Units	35432456001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.19	0.19	0	20	

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(386)672-5668

QUALIFIERS

Project: Resource Recovery
Pace Project No.: 35432458

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35432458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35432458001	**AC74295**	EPA 8011	497405	EPA 8011	497540
35432458002	**AC74296**	EPA 8011	497405	EPA 8011	497540
35432458001	**AC74295**	EPA 3010	498513	EPA 6010	498514
35432458002	**AC74296**	EPA 3010	498513	EPA 6010	498514
35432458001	**AC74295**	EPA 7470	498278	EPA 7470	498437
35432458002	**AC74296**	EPA 7470	498278	EPA 7470	498437
35432458001	**AC74295**	EPA 8260	497915		
35432458002	**AC74296**	EPA 8260	497915		
35432458001	**AC74295**	SM 2540C	496398		
35432458002	**AC74296**	SM 2540C	496398		
35432458001	**AC74295**	EPA 300.0	498016		
35432458002	**AC74296**	EPA 300.0	498016		
35432458001	**AC74295**	EPA 350.1	496110		
35432458002	**AC74296**	EPA 350.1	496110		
35432458001	**AC74295**	EPA 353.2	495904		
35432458002	**AC74296**	EPA 353.2	495904		

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Pas[illegible] 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: 14.8 ° C (or Received on Ice, ROI) Condition of Contents:

WO# : 35432458
35432458

IR Gun 170477691

1. Client: (Company or Individual) ENV Lab
Address:
City: State Zip Code

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

3. Client Project Name: RESOURCE RECOVERY

4. Sampled by: (Print) GREG TORREY

5. Sampled by: (Signature) [signature]

6. Shipping Method: COURIER

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. 13. Preservatives: N S C T
14. Containers: P P P V
15. Analyses Requested

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	FE HG NA	NO3 NH3	Cl TDS	APPENDIX I					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74295	4MW-1	11-20-18	11:57		✓	GW					8	✓	✓	✓	✓						
2.	AC74296	4MW-8	11-20-18	14:26		✓	GW					8	✓	✓	✓	✓						
3.												~~8~~										
4.																					Send to	
5.																					PACE	
6.																					11-21-18	
7.																						
8.																						
9.																						
10.																						

17.	RELINQUISHED BY	DATE	TIME	18.	RECEIVED BY	DATE	TIME
1.	[signature]	11-20-18	15:04		Jous Rubi	11-20-18	15:04
2.	Jous Rubi	11-21-18	0800		[signature] T202	11-21-18	0800
3.	[signature]	11-21-18	0950		MMC [illegible] / PACE 0.3	11-21-18	0950
4.							

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35432458

Project Manager: PM: ADA Due Date: 12/07/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label:
Deliver: 11/21/18
pH:

Thermometer Used: T-202 Date: 11-21-18 Time: 0950 Initials: LOM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	0.3 (Visual)	0.0 (Correction Factor)	0.3 (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:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	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

December 11, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35433341

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 28, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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CERTIFICATIONS

Project:	Resource Recovery
Pace Project No.:	35433341

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35433341

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35433341001	**AC74419 (4MW-4)**	Water	11/26/18 10:39	11/28/18 12:20
35433341002	**AC74420 (4MW-9)**	Water	11/26/18 13:49	11/28/18 12:20

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SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35433341

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35433341001	**AC74419 (4MW-4)**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35433341002	**AC74420 (4MW-9)**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433341

Sample: AC74419 (4MW-4) **Lab ID: 35433341001** Collected: 11/26/18 10:39 Received: 11/28/18 12:20 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	11/30/18 06:19	12/01/18 06:19	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/30/18 06:19	12/01/18 06:19	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/08/18 03:56	12/11/18 02:46	7440-38-2	
Barium	**8.2 I**	ug/L	10.0	0.84	1	12/08/18 03:56	12/11/18 02:46	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/08/18 03:56	12/11/18 02:46	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/08/18 03:56	12/11/18 02:46	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/08/18 03:56	12/11/18 02:46	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/08/18 03:56	12/11/18 02:46	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/08/18 03:56	12/11/18 02:46	7440-50-8	
Iron	**21.3 I**	ug/L	40.0	9.2	1	12/08/18 03:56	12/11/18 02:46	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/08/18 03:56	12/11/18 02:46	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/08/18 03:56	12/11/18 02:46	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/08/18 03:56	12/11/18 02:46	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/08/18 03:56	12/11/18 02:46	7440-22-4	
Sodium	**6.9**	mg/L	2.0	0.27	1	12/08/18 03:56	12/11/18 02:46	7440-23-5	
Vanadium	**3.2 I**	ug/L	10.0	1.0	1	12/08/18 03:56	12/11/18 02:46	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/08/18 03:56	12/11/18 02:46	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	12/08/18 03:52	12/10/18 21:49	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/08/18 03:52	12/10/18 21:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/05/18 13:24	12/06/18 17:53	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/06/18 15:53	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/06/18 15:53	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		12/06/18 15:53	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/06/18 15:53	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/06/18 15:53	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/06/18 15:53	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/06/18 15:53	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		12/06/18 15:53	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/06/18 15:53	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		12/06/18 15:53	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/06/18 15:53	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/06/18 15:53	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/06/18 15:53	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/06/18 15:53	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433341

Sample: AC74419 (4MW-4) **Lab ID: 35433341001** Collected: 11/26/18 10:39 Received: 11/28/18 12:20 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		12/06/18 15:53	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/06/18 15:53	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/06/18 15:53	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/06/18 15:53	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/06/18 15:53	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/06/18 15:53	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/06/18 15:53	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/06/18 15:53	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/06/18 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/06/18 15:53	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/06/18 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/06/18 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/06/18 15:53	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/06/18 15:53	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/06/18 15:53	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/06/18 15:53	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/06/18 15:53	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/06/18 15:53	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 15:53	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	5.0	1.0	1		12/06/18 15:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/06/18 15:53	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/06/18 15:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/06/18 15:53	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**149**	mg/L	5.0	5.0	1		11/29/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**14.5**	mg/L	5.0	2.5	1		12/06/18 19:59	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/29/18 12:31	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.61**	mg/L	0.050	0.025	1		11/30/18 11:11		

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433341

Sample: AC74420 (4MW-9) **Lab ID: 35433341002** Collected: 11/26/18 13:49 Received: 11/28/18 12:20 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	11/30/18 06:19	12/01/18 06:33	96-12-8	
1,2-Dibromoethane (EDB)	**0.0071 U**	ug/L	0.0095	0.0071	1	11/30/18 06:19	12/01/18 06:33	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/08/18 03:56	12/11/18 02:50	7440-38-2	
Barium	**9.1 I**	ug/L	10.0	0.84	1	12/08/18 03:56	12/11/18 02:50	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/08/18 03:56	12/11/18 02:50	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/08/18 03:56	12/11/18 02:50	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/08/18 03:56	12/11/18 02:50	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/08/18 03:56	12/11/18 02:50	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/08/18 03:56	12/11/18 02:50	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	12/08/18 03:56	12/11/18 02:50	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/08/18 03:56	12/11/18 02:50	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/08/18 03:56	12/11/18 02:50	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/08/18 03:56	12/11/18 02:50	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/08/18 03:56	12/11/18 02:50	7440-22-4	
Sodium	**11.0**	mg/L	2.0	0.27	1	12/08/18 03:56	12/11/18 02:50	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	12/08/18 03:56	12/11/18 02:50	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/08/18 03:56	12/11/18 02:50	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	12/08/18 03:52	12/10/18 21:53	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/08/18 03:52	12/10/18 21:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/05/18 13:24	12/06/18 17:55	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/06/18 16:18	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/06/18 16:18	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		12/06/18 16:18	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/06/18 16:18	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/06/18 16:18	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/06/18 16:18	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/06/18 16:18	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		12/06/18 16:18	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/06/18 16:18	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		12/06/18 16:18	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/06/18 16:18	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/06/18 16:18	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/06/18 16:18	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/06/18 16:18	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433341

Sample: AC74420 (4MW-9) **Lab ID: 35433341002** Collected: 11/26/18 13:49 Received: 11/28/18 12:20 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		12/06/18 16:18	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/06/18 16:18	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/06/18 16:18	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/06/18 16:18	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/06/18 16:18	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/06/18 16:18	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/06/18 16:18	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/06/18 16:18	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/06/18 16:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/06/18 16:18	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/06/18 16:18	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/06/18 16:18	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/06/18 16:18	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/06/18 16:18	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/06/18 16:18	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/06/18 16:18	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/06/18 16:18	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/06/18 16:18	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		12/06/18 16:18	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	5.0	1.0	1		12/06/18 16:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/06/18 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/06/18 16:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/06/18 16:18	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**220**	mg/L	5.0	5.0	1		11/29/18 15:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**25.0**	mg/L	5.0	2.5	1		12/06/18 21:06	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/29/18 12:33	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.39**	mg/L	0.050	0.025	1		11/30/18 11:13		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

QC Batch: 498677 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2695880 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/06/18 17:17	

LABORATORY CONTROL SAMPLE: 2695881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2695882 2695883

Parameter	Units	35433214001 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	2.2	2.2	108	108	75-125	0	20	

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
Pace Project No.: 35433341

QC Batch: 499620 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2701795 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1 U	10.0	7.1	12/11/18 01:46	
Barium	ug/L	0.84 U	10.0	0.84	12/11/18 01:46	
Beryllium	ug/L	1.6 U	4.0	1.6	12/11/18 01:46	
Cadmium	ug/L	0.33 U	1.0	0.33	12/11/18 01:46	
Chromium	ug/L	1.7 U	5.0	1.7	12/11/18 01:46	
Cobalt	ug/L	0.96 U	10.0	0.96	12/11/18 01:46	
Copper	ug/L	2.6 U	5.0	2.6	12/11/18 01:46	
Iron	ug/L	9.2 U	40.0	9.2	12/11/18 01:46	
Lead	ug/L	4.6 U	10.0	4.6	12/11/18 01:46	
Nickel	ug/L	2.1 U	5.0	2.1	12/11/18 01:46	
Selenium	ug/L	8.5 U	15.0	8.5	12/11/18 01:46	
Silver	ug/L	1.0 U	5.0	1.0	12/11/18 01:46	
Sodium	mg/L	0.27 U	2.0	0.27	12/11/18 01:46	
Vanadium	ug/L	1.0 U	10.0	1.0	12/11/18 01:46	
Zinc	ug/L	11.0 U	20.0	11.0	12/11/18 01:46	

LABORATORY CONTROL SAMPLE: 2701796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	242	97	80-120	
Barium	ug/L	250	246	98	80-120	
Beryllium	ug/L	25	25.4	102	80-120	
Cadmium	ug/L	25	25.5	102	80-120	
Chromium	ug/L	250	261	104	80-120	
Cobalt	ug/L	250	251	101	80-120	
Copper	ug/L	250	249	100	80-120	
Iron	ug/L	2500	2480	99	80-120	
Lead	ug/L	250	261	104	80-120	
Nickel	ug/L	250	260	104	80-120	
Selenium	ug/L	250	250	100	80-120	
Silver	ug/L	25	24.4	97	80-120	
Sodium	mg/L	12.5	13.0	104	80-120	
Vanadium	ug/L	250	252	101	80-120	
Zinc	ug/L	1250	1250	100	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2701797 2701798

Parameter	Units	35433214003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	260	260	102	102	75-125	0	20	
Barium	ug/L	146	250	250	393	400	99	101	75-125	2	20	
Beryllium	ug/L	1.6 U	25	25	25.1	25.5	100	102	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	24.2	24.6	97	98	75-125	2	20	
Chromium	ug/L	5.9	250	250	259	263	101	103	75-125	1	20	
Cobalt	ug/L	0.96 U	250	250	246	250	98	100	75-125	1	20	
Copper	ug/L	3.1 I	250	250	262	266	104	105	75-125	1	20	
Iron	ug/L	9430	2500	2500	11800	11900	95	99	75-125	1	20	
Lead	ug/L	4.9 I	250	250	252	255	99	100	75-125	1	20	
Nickel	ug/L	3.7 I	250	250	254	258	100	102	75-125	1	20	
Selenium	ug/L	8.5 U	250	250	248	253	99	101	75-125	2	20	
Silver	ug/L	1.0 U	25	25	25.4	25.8	102	103	75-125	2	20	
Sodium	mg/L	347	12.5	12.5	368	374	170	217	75-125	2	20	L
Vanadium	ug/L	1.6 I	250	250	255	258	101	102	75-125	1	20	
Zinc	ug/L	110 U	1250	1250	1170	1190	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

QC Batch: 499621 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2701799 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/10/18 21:31	
Thallium	ug/L	0.50 U	1.0	0.50	12/10/18 21:31	

LABORATORY CONTROL SAMPLE: 2701800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.7	103	80-120	
Thallium	ug/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2701801 2701802

Parameter	Units	35433214002 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	52.7	53.2	105	106	75-125	1	20	
Thallium	ug/L	0.50 U	50	50	52.8	51.8	106	104	75-125	2	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

QC Batch: 499018 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2697935 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	12/06/18 10:33	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/06/18 10:33	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	12/06/18 10:33	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/06/18 10:33	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	12/06/18 10:33	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	12/06/18 10:33	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	12/06/18 10:33	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	12/06/18 10:33	
2-Hexanone	ug/L	0.85 U	10.0	0.85	12/06/18 10:33	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	12/06/18 10:33	
Acetone	ug/L	5.3 U	20.0	5.3	12/06/18 10:33	
Acrylonitrile	ug/L	3.7 U	10.0	3.7	12/06/18 10:33	
Benzene	ug/L	0.10 U	1.0	0.10	12/06/18 10:33	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	12/06/18 10:33	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	12/06/18 10:33	
Bromoform	ug/L	2.6 U	3.0	2.6	12/06/18 10:33	
Bromomethane	ug/L	4.0 U	5.0	4.0	12/06/18 10:33	
Carbon disulfide	ug/L	0.45 U	10.0	0.45	12/06/18 10:33	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	12/06/18 10:33	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
Chloroethane	ug/L	3.7 U	10.0	3.7	12/06/18 10:33	
Chloroform	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
Chloromethane	ug/L	0.97 U	1.0	0.97	12/06/18 10:33	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/06/18 10:33	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	12/06/18 10:33	
Dibromomethane	ug/L	0.68 U	2.0	0.68	12/06/18 10:33	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
Iodomethane	ug/L	9.3 U	10.0	9.3	12/06/18 10:33	
Methylene Chloride	ug/L	2.0 U	5.0	2.0	12/06/18 10:33	
Styrene	ug/L	0.26 U	1.0	0.26	12/06/18 10:33	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
Toluene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/06/18 10:33	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	12/06/18 10:33	
Trichloroethene	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

METHOD BLANK: 2697935 Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	12/06/18 10:33	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	12/06/18 10:33	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	12/06/18 10:33	
Xylene (Total)	ug/L	1.0 U	5.0	1.0	12/06/18 10:33	
1,2-Dichloroethane-d4 (S)	%	103	70-130		12/06/18 10:33	
4-Bromofluorobenzene (S)	%	102	70-130		12/06/18 10:33	
Toluene-d8 (S)	%	102	70-130		12/06/18 10:33	

LABORATORY CONTROL SAMPLE: 2697936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.6	113	70-130	
1,1,1-Trichloroethane	ug/L	20	19.3	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	23.1	115	68-125	
1,1,2-Trichloroethane	ug/L	20	22.7	114	70-130	
1,1-Dichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	20	19.0	95	66-133	
1,2,3-Trichloropropane	ug/L	20	23.4	117	62-127	
1,2-Dichlorobenzene	ug/L	20	22.6	113	70-130	
1,2-Dichloroethane	ug/L	20	18.8	94	70-130	
1,2-Dichloropropane	ug/L	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	20	21.4	107	70-130	
2-Butanone (MEK)	ug/L	40	45.0	113	47-143	
2-Hexanone	ug/L	40	38.0	95	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.8	94	57-132	
Acetone	ug/L	40	38.2	96	46-148	
Acrylonitrile	ug/L	200	191	95	60-143	
Benzene	ug/L	20	20.5	103	70-130	
Bromochloromethane	ug/L	20	21.2	106	70-130	
Bromodichloromethane	ug/L	20	20.1	101	70-130	
Bromoform	ug/L	20	21.0	105	49-126	
Bromomethane	ug/L	20	6.9	34	10-165	
Carbon disulfide	ug/L	20	18.3	92	60-141	
Carbon tetrachloride	ug/L	20	19.5	98	63-126	
Chlorobenzene	ug/L	20	21.0	105	70-130	
Chloroethane	ug/L	20	30.4	152	71-142	J(L1)
Chloroform	ug/L	20	19.9	99	70-130	
Chloromethane	ug/L	20	20.0	100	40-140	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	70-130	
cis-1,3-Dichloropropene	ug/L	20	21.6	108	70-130	
Dibromochloromethane	ug/L	20	21.5	107	62-118	
Dibromomethane	ug/L	20	21.0	105	70-130	
Ethylbenzene	ug/L	20	21.7	108	70-130	
Iodomethane	ug/L	40	10.7	27	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

LABORATORY CONTROL SAMPLE: 2697936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	18.6	93	65-136	
Styrene	ug/L	20	20.7	103	70-130	
Tetrachloroethene	ug/L	20	20.1	101	64-134	
Toluene	ug/L	20	21.5	108	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	93	68-127	
trans-1,3-Dichloropropene	ug/L	20	22.4	112	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	18.6	93	42-129	
Trichloroethene	ug/L	20	19.8	99	70-130	
Trichlorofluoromethane	ug/L	20	21.0	105	65-135	
Vinyl acetate	ug/L	20	18.2	91	60-144	
Vinyl chloride	ug/L	20	19.3	97	68-131	
Xylene (Total)	ug/L	60	69.9	117	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2697996

Parameter	Units	35433214003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	21.7	108	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	18.5	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	22.9	115	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	21.5	108	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	18.1	91	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.5	87	66-133	
1,2,3-Trichloropropane	ug/L	1.1 U	20	22.9	114	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	21.8	109	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.5	86	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	18.7	93	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.8	104	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	37.6	94	47-143	
2-Hexanone	ug/L	0.85 U	40	35.5	89	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	39.0	97	57-132	
Acetone	ug/L	5.3 U	40	23.5	54	46-148	
Acrylonitrile	ug/L	3.7 U	200	184	92	60-143	
Benzene	ug/L	0.10 U	20	19.2	96	70-130	
Bromochloromethane	ug/L	0.37 U	20	19.9	99	70-130	
Bromodichloromethane	ug/L	0.19 U	20	18.3	91	70-130	
Bromoform	ug/L	2.6 U	20	18.6	93	49-126	
Bromomethane	ug/L	4.0 U	20	7.9	39	10-165	
Carbon disulfide	ug/L	0.45 U	20	20.1	100	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.4	97	63-126	
Chlorobenzene	ug/L	0.50 U	20	20.2	101	70-130	
Chloroethane	ug/L	3.7 U	20	27.7	138	71-142	
Chloroform	ug/L	0.50 U	20	18.8	94	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

MATRIX SPIKE SAMPLE: 2697996

Parameter	Units	35433214003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.97 U	20	20.1	101	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	17.5	88	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	17.8	89	70-130	
Dibromochloromethane	ug/L	0.45 U	20	19.8	99	62-118	
Dibromomethane	ug/L	0.68 U	20	18.9	95	70-130	
Ethylbenzene	ug/L	0.50 U	20	21.2	106	70-130	
Iodomethane	ug/L	9.3 U	40	9.3 U	10	10-164	
Methylene Chloride	ug/L	2.0 U	20	17.3	87	65-136	
Styrene	ug/L	0.26 U	20	19.1	95	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.3	91	64-134	
Toluene	ug/L	0.50 U	20	20.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.3	86	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	20.6	103	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	18.7	93	42-129	
Trichloroethene	ug/L	0.50 U	20	19.0	95	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	21.5	107	65-135	
Vinyl acetate	ug/L	0.19 U	20	17.1	86	60-144	
Vinyl chloride	ug/L	0.50 U	20	19.4	97	68-131	
Xylene (Total)	ug/L	1.0 U	60	66.3	110	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2697995

Parameter	Units	35433214002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 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	0.23 U	0.23 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	0.85 U	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	
Acetone	ug/L	5.3 U	5.3 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

SAMPLE DUPLICATE: 2697995

Parameter	Units	35433214002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	2.6 U	2.6 U		40	
Bromomethane	ug/L	4.0 U	4.0 U		40	
Carbon disulfide	ug/L	0.45 U	0.45 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	3.7 U	3.7 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.97 U	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
Styrene	ug/L	0.26 U	0.26 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	0.17 U	0.17 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	104	103	1	40	
4-Bromofluorobenzene (S)	%	100	99	1	40	
Toluene-d8 (S)	%	101	99	2	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
Pace Project No.: 35433341

QC Batch: 497405 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2689669 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/01/18 01:24	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/01/18 01:24	

LABORATORY CONTROL SAMPLE: 2689670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.24	94	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.22	90	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2689774 2689775

Parameter	Units	35433693002 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	0.25	0.25	0.33	0.32	134	126	60-140	6	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	0.25	0.25	0.30	0.29	122	115	60-140	6	40	

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

QC Batch: 497246 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2688663 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/29/18 15:33	

LABORATORY CONTROL SAMPLE: 2688664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	90-110	

SAMPLE DUPLICATE: 2688665

Parameter	Units	35432898002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	473	477	1	5	

SAMPLE DUPLICATE: 2688666

Parameter	Units	35433322002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	473	473	0	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

QC Batch: 498962 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2697741 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	12/06/18 11:23	

LABORATORY CONTROL SAMPLE: 2697742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2697841 2697842

Parameter	Units	35433533001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	25.5	50	50	77.6	78.3	104	106	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2697843 2697844

Parameter	Units	35433341001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.5	50	50	65.4	64.5	102	100	90-110	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

QC Batch: 497147 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2688275 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/29/18 11:54	

LABORATORY CONTROL SAMPLE: 2688276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	107	90-110	

MATRIX SPIKE SAMPLE: 2688278

Parameter	Units	35433417006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.083	1	1.1	103	90-110	

SAMPLE DUPLICATE: 2688277

Parameter	Units	35433417006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.083	0.077	8	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433341

QC Batch: 497482 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35433341001, 35433341002

METHOD BLANK: 2690041 | Matrix: Water
Associated Lab Samples: 35433341001, 35433341002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	11/30/18 10:41	

LABORATORY CONTROL SAMPLE: 2690042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 2690044

Parameter	Units	35430977001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	5.5	10	15.4	98	90-110	

MATRIX SPIKE SAMPLE: 2690046

Parameter	Units	35433333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.22	2	2.2	99	90-110	

SAMPLE DUPLICATE: 2690043

Parameter	Units	35430977001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	5.5	5.4	1	20	

SAMPLE DUPLICATE: 2690045

Parameter	Units	35433333001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.22	0.22	2	20	

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery
Pace Project No.: 35433341

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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.
L	Off-scale high. Actual value is known to be greater than value given.

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35433341

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35433341001	**AC74419 (4MW-4)**	EPA 8011	497405	EPA 8011	497540
35433341002	**AC74420 (4MW-9)**	EPA 8011	497405	EPA 8011	497540
35433341001	**AC74419 (4MW-4)**	EPA 3010	499620	EPA 6010	499622
35433341002	**AC74420 (4MW-9)**	EPA 3010	499620	EPA 6010	499622
35433341001	**AC74419 (4MW-4)**	EPA 3010	499621	EPA 6020	499623
35433341002	**AC74420 (4MW-9)**	EPA 3010	499621	EPA 6020	499623
35433341001	**AC74419 (4MW-4)**	EPA 7470	498677	EPA 7470	498809
35433341002	**AC74420 (4MW-9)**	EPA 7470	498677	EPA 7470	498809
35433341001	**AC74419 (4MW-4)**	EPA 8260	499018		
35433341002	**AC74420 (4MW-9)**	EPA 8260	499018		
35433341001	**AC74419 (4MW-4)**	SM 2540C	497246		
35433341002	**AC74420 (4MW-9)**	SM 2540C	497246		
35433341001	**AC74419 (4MW-4)**	EPA 300.0	498962		
35433341002	**AC74420 (4MW-9)**	EPA 300.0	498962		
35433341001	**AC74419 (4MW-4)**	EPA 350.1	497147		
35433341002	**AC74420 (4MW-9)**	EPA 350.1	497147		
35433341001	**AC74419 (4MW-4)**	EPA 353.2	497482		
35433341002	**AC74420 (4MW-9)**	EPA 353.2	497482		

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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: 6.8 °C (or Received on Ice: ROI) Condition of Contents:

FOR LAB USE ONLY
LOG IN NO.

1. Client: (Company or Individual): 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
4. Sampled by: (Print) Greg Torrey
5. Sampled by: (Signature)
6. Shipping Method: Courier

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 S C T
14. Containers: P P P V
15. Analyses Requested: F: HG NA; NO3 ~~Cl~~ ~~NH3~~; Cl TDS; APPENDIX I

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	F: HG NA	NO3 ~~Cl~~ ~~NH3~~	Cl TDS	APPENDIX I	16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74419	4MW-4	11-26-18	10:39		✓	GW					8	✓	✓	✓	✓		
2.	AC74420	4MW-9	11-26-18	13:49		✓	GW					8	✓	✓	✓	✓		
3.																	Sent to	
4.																	PACE	
5.																	11/28/18	
6.																		
7.																		
8.																		
9.																		
10.																		

WO#: 35433341
35433341

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1.	11-26-18	15:05		11-26-18	15:05
2.	11-28-18	1035		11-28-18	1035
3.	11-28-18	1220	Theo 1.1	11-28-18	1220
4.					

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35433341

Project Manager: PM: ADA **Due Date:** 12/12/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: mvl
Label: 11/28/18
Deliver:
pH:

Thermometer Used: T-202 Date: 11/28/18 Time: 1220 Initials: MVL

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 1.1	(Visual) 0.0	(Correction Factor) 1.1	(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:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☒ Yes ☐ No ☐ N/A	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

December 12, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35433858

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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

CERTIFICATIONS

Project:	Resource Recovery
Pace Project No.:	35433858

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35433858

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35433858001	**AC74505**	Water	11/28/18 12:34	11/30/18 07:50

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SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35433858

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35433858001	**AC74505**	EPA 8011	MMB	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433858

Sample: AC74505 **Lab ID: 35433858001** Collected: 11/28/18 12:34 Received: 11/30/18 07:50 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	12/05/18 11:40	12/06/18 04:49	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	12/05/18 11:40	12/06/18 04:49	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/08/18 06:20	12/11/18 15:08	7440-38-2	
Barium	**10.7**	ug/L	10.0	0.84	1	12/08/18 06:20	12/11/18 15:08	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/08/18 06:20	12/11/18 15:08	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/08/18 06:20	12/11/18 15:08	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/08/18 06:20	12/11/18 15:08	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/08/18 06:20	12/11/18 15:08	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/08/18 06:20	12/11/18 15:08	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	12/08/18 06:20	12/11/18 15:08	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/08/18 06:20	12/11/18 15:08	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/08/18 06:20	12/11/18 15:08	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/08/18 06:20	12/11/18 15:08	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/08/18 06:20	12/11/18 15:08	7440-22-4	
Sodium	**25.2**	mg/L	2.0	0.27	1	12/08/18 06:20	12/11/18 15:08	7440-23-5	
Vanadium	**2.7 I**	ug/L	10.0	1.0	1	12/08/18 06:20	12/11/18 15:08	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/08/18 06:20	12/11/18 15:08	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	12/08/18 06:21	12/12/18 13:33	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/08/18 06:21	12/12/18 13:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/05/18 16:14	12/06/18 20:19	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/09/18 18:19	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/09/18 18:19	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		12/09/18 18:19	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/09/18 18:19	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/09/18 18:19	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/09/18 18:19	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/09/18 18:19	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		12/09/18 18:19	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/09/18 18:19	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		12/09/18 18:19	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/09/18 18:19	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/09/18 18:19	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/09/18 18:19	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/09/18 18:19	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433858

Sample: AC74505 **Lab ID: 35433858001** Collected: 11/28/18 12:34 Received: 11/30/18 07:50 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		12/09/18 18:19	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/09/18 18:19	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/09/18 18:19	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/09/18 18:19	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/09/18 18:19	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/09/18 18:19	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/09/18 18:19	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/09/18 18:19	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/09/18 18:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/09/18 18:19	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/09/18 18:19	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/09/18 18:19	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/09/18 18:19	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/09/18 18:19	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/09/18 18:19	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/09/18 18:19	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/09/18 18:19	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/09/18 18:19	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		12/09/18 18:19	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	5.0	1.0	1		12/09/18 18:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/09/18 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/09/18 18:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/09/18 18:19	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**359**	mg/L	5.0	5.0	1		11/30/18 15:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**57.8**	mg/L	5.0	2.5	1		12/09/18 02:47	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		12/04/18 11:22	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.79**	mg/L	0.050	0.025	1		12/01/18 08:17		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 498774 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35433858001

METHOD BLANK: 2696331 | Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/06/18 19:15	

LABORATORY CONTROL SAMPLE: 2696332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2696333 2696334

Parameter	Units	35433553002 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	2.2	2.2	108	110	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 499631 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35433858001

METHOD BLANK: 2701827 | Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1	U	10.0	7.1	12/11/18 13:59	
Barium	ug/L	0.84	U	10.0	0.84	12/11/18 13:59	
Beryllium	ug/L	1.6	U	4.0	1.6	12/11/18 13:59	
Cadmium	ug/L	0.33	U	1.0	0.33	12/11/18 13:59	
Chromium	ug/L	1.7	U	5.0	1.7	12/11/18 13:59	
Cobalt	ug/L	0.96	U	10.0	0.96	12/11/18 13:59	
Copper	ug/L	2.6	U	5.0	2.6	12/11/18 13:59	
Iron	ug/L	9.2	U	40.0	9.2	12/11/18 13:59	
Lead	ug/L	4.6	U	10.0	4.6	12/11/18 13:59	
Nickel	ug/L	2.1	U	5.0	2.1	12/11/18 13:59	
Selenium	ug/L	8.5	U	15.0	8.5	12/11/18 13:59	
Silver	ug/L	1.0	U	5.0	1.0	12/11/18 13:59	
Sodium	mg/L	0.27	U	2.0	0.27	12/11/18 13:59	
Vanadium	ug/L	1.0	U	10.0	1.0	12/11/18 13:59	
Zinc	ug/L	11.0	U	20.0	11.0	12/11/18 13:59	

LABORATORY CONTROL SAMPLE: 2701828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	252	101	80-120	
Barium	ug/L	250	248	99	80-120	
Beryllium	ug/L	25	24.9	99	80-120	
Cadmium	ug/L	25	26.0	104	80-120	
Chromium	ug/L	250	256	102	80-120	
Cobalt	ug/L	250	255	102	80-120	
Copper	ug/L	250	239	95	80-120	
Iron	ug/L	2500	2530	101	80-120	
Lead	ug/L	250	262	105	80-120	
Nickel	ug/L	250	264	106	80-120	
Selenium	ug/L	250	256	102	80-120	
Silver	ug/L	25	25.8	103	80-120	
Sodium	mg/L	12.5	12.9	103	80-120	
Vanadium	ug/L	250	248	99	80-120	
Zinc	ug/L	1250	1310	105	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2701829 2701830

Parameter	Units	35433553001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	245	256	98	102	75-125	5	20	
Barium	ug/L	8.4 I	250	250	249	262	96	101	75-125	5	20	
Beryllium	ug/L	1.6 U	25	25	24.1	25.2	96	101	75-125	5	20	
Cadmium	ug/L	0.33 U	25	25	25.3	26.4	101	105	75-125	4	20	
Chromium	ug/L	1.7 U	250	250	249	260	99	104	75-125	4	20	
Cobalt	ug/L	0.96 U	250	250	248	258	99	103	75-125	4	20	
Copper	ug/L	2.6 U	250	250	231	242	92	97	75-125	5	20	
Iron	ug/L	9.2 U	2500	2500	2460	2570	98	103	75-125	4	20	
Lead	ug/L	4.6 U	250	250	255	267	102	107	75-125	4	20	
Nickel	ug/L	2.1 U	250	250	257	267	102	107	75-125	4	20	
Selenium	ug/L	8.5 U	250	250	246	254	98	101	75-125	3	20	
Silver	ug/L	1.0 U	25	25	25.0	26.4	99	104	75-125	5	20	
Sodium	mg/L	0.27 U	12.5	12.5	12.5	13.1	100	105	75-125	5	20	
Vanadium	ug/L	1.0 U	250	250	241	252	96	101	75-125	5	20	
Zinc	ug/L	11.0 U	1250	1250	1270	1320	101	106	75-125	4	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 499630 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35433858001

METHOD BLANK: 2701822 | Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/10/18 22:03	
Thallium	ug/L	0.50 U	1.0	0.50	12/10/18 22:03	

LABORATORY CONTROL SAMPLE: 2701823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.9	102	80-120	
Thallium	ug/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2701824 2701825

Parameter	Units	35433648001 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	50.6	51.4	101	103	75-125	1	20	
Thallium	ug/L	0.50 U	50	50	50.6	50.5	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 499758 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35433858001

METHOD BLANK: 2702516 | Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	12/09/18 09:19	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/09/18 09:19	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	12/09/18 09:19	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/09/18 09:19	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	12/09/18 09:19	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	12/09/18 09:19	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	12/09/18 09:19	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	12/09/18 09:19	
2-Hexanone	ug/L	0.85 U	10.0	0.85	12/09/18 09:19	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	12/09/18 09:19	
Acetone	ug/L	5.3 U	20.0	5.3	12/09/18 09:19	
Acrylonitrile	ug/L	3.7 U	10.0	3.7	12/09/18 09:19	
Benzene	ug/L	0.10 U	1.0	0.10	12/09/18 09:19	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	12/09/18 09:19	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	12/09/18 09:19	
Bromoform	ug/L	2.6 U	3.0	2.6	12/09/18 09:19	
Bromomethane	ug/L	4.0 U	5.0	4.0	12/09/18 09:19	
Carbon disulfide	ug/L	0.45 U	10.0	0.45	12/09/18 09:19	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	12/09/18 09:19	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
Chloroethane	ug/L	3.7 U	10.0	3.7	12/09/18 09:19	
Chloroform	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
Chloromethane	ug/L	0.97 U	1.0	0.97	12/09/18 09:19	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/09/18 09:19	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	12/09/18 09:19	
Dibromomethane	ug/L	0.68 U	2.0	0.68	12/09/18 09:19	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
Iodomethane	ug/L	9.3 U	10.0	9.3	12/09/18 09:19	
Methylene Chloride	ug/L	2.0 U	5.0	2.0	12/09/18 09:19	
Styrene	ug/L	0.26 U	1.0	0.26	12/09/18 09:19	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
Toluene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/09/18 09:19	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	12/09/18 09:19	
Trichloroethene	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

METHOD BLANK: 2702516 Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	12/09/18 09:19	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	12/09/18 09:19	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	12/09/18 09:19	
Xylene (Total)	ug/L	1.0 U	5.0	1.0	12/09/18 09:19	
1,2-Dichloroethane-d4 (S)	%	104	70-130		12/09/18 09:19	
4-Bromofluorobenzene (S)	%	98	70-130		12/09/18 09:19	
Toluene-d8 (S)	%	99	70-130		12/09/18 09:19	

LABORATORY CONTROL SAMPLE: 2702517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.1	105	70-130	
1,1,1-Trichloroethane	ug/L	20	19.3	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.1	111	68-125	
1,1,2-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1-Dichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	20	19.7	99	66-133	
1,2,3-Trichloropropane	ug/L	20	22.8	114	62-127	
1,2-Dichlorobenzene	ug/L	20	19.9	100	70-130	
1,2-Dichloroethane	ug/L	20	19.2	96	70-130	
1,2-Dichloropropane	ug/L	20	19.7	98	70-130	
1,4-Dichlorobenzene	ug/L	20	19.3	96	70-130	
2-Butanone (MEK)	ug/L	40	47.5	119	47-143	
2-Hexanone	ug/L	40	43.2	108	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	42.8	107	57-132	
Acetone	ug/L	40	50.4	126	46-148	
Acrylonitrile	ug/L	200	181	91	60-143	
Benzene	ug/L	20	20.5	103	70-130	
Bromochloromethane	ug/L	20	21.1	105	70-130	
Bromodichloromethane	ug/L	20	19.3	96	70-130	
Bromoform	ug/L	20	19.6	98	49-126	
Bromomethane	ug/L	20	7.4	37	10-165	
Carbon disulfide	ug/L	20	17.5	88	60-141	
Carbon tetrachloride	ug/L	20	19.8	99	63-126	
Chlorobenzene	ug/L	20	19.5	98	70-130	
Chloroethane	ug/L	20	26.6	133	71-142	
Chloroform	ug/L	20	19.3	97	70-130	
Chloromethane	ug/L	20	17.4	87	40-140	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.8	104	70-130	
Dibromochloromethane	ug/L	20	20.1	101	62-118	
Dibromomethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	20.2	101	70-130	
Iodomethane	ug/L	40	9.3 U	20	10-164	

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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
Pace Project No.: 35433858

LABORATORY CONTROL SAMPLE: 2702517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	23.2	116	65-136	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	18.7	94	64-134	
Toluene	ug/L	20	20.7	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	68-127	
trans-1,3-Dichloropropene	ug/L	20	21.8	109	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	20.5	102	42-129	
Trichloroethene	ug/L	20	19.1	95	70-130	
Trichlorofluoromethane	ug/L	20	18.0	90	65-135	
Vinyl acetate	ug/L	20	19.8	99	60-144	
Vinyl chloride	ug/L	20	17.5	88	68-131	
Xylene (Total)	ug/L	60	63.8	106	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2702518

Parameter	Units	35433553009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	20.5	102	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	22.1	110	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	21.0	105	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	20.2	101	66-133	
1,2,3-Trichloropropane	ug/L	1.1 U	20	22.6	113	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	19.4	97	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.9	94	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	37.7	94	47-143	
2-Hexanone	ug/L	0.85 U	40	37.5	94	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	40.5	101	57-132	
Acetone	ug/L	5.3 U	40	27.7	68	46-148	
Acrylonitrile	ug/L	3.7 U	200	179	89	60-143	
Benzene	ug/L	0.10 U	20	20.4	102	70-130	
Bromochloromethane	ug/L	0.37 U	20	20.8	104	70-130	
Bromodichloromethane	ug/L	0.19 U	20	18.3	91	70-130	
Bromoform	ug/L	2.6 U	20	17.9	89	49-126	
Bromomethane	ug/L	4.0 U	20	4.0 U	13	10-165	
Carbon disulfide	ug/L	0.45 U	20	18.8	94	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	20.3	101	63-126	
Chlorobenzene	ug/L	0.50 U	20	19.6	98	70-130	
Chloroethane	ug/L	3.7 U	20	27.6	138	71-142	
Chloroform	ug/L	0.50 U	20	19.3	96	70-130	

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

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

MATRIX SPIKE SAMPLE: 2702518

Parameter	Units	35433553009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.97 U	20	16.8	84	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.9	94	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	17.8	89	70-130	
Dibromochloromethane	ug/L	0.45 U	20	19.2	96	62-118	
Dibromomethane	ug/L	0.68 U	20	18.8	94	70-130	
Ethylbenzene	ug/L	0.50 U	20	20.4	102	70-130	
Iodomethane	ug/L	9.3 U	40	9.3 U	10	10-164	
Methylene Chloride	ug/L	2.0 U	20	21.8	109	65-136	
Styrene	ug/L	0.26 U	20	18.0	90	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.5	88	64-134	
Toluene	ug/L	0.50 U	20	20.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.9	95	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	20.3	101	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	17.6	88	42-129	
Trichloroethene	ug/L	0.50 U	20	18.8	94	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	19.7	99	65-135	
Vinyl acetate	ug/L	0.19 U	20	17.1	85	60-144	
Vinyl chloride	ug/L	0.50 U	20	17.9	89	68-131	
Xylene (Total)	ug/L	1.0 U	60	62.9	105	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2702519

Parameter	Units	35433553010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 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	0.23 U	0.23 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	0.85 U	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	
Acetone	ug/L	5.3 U	5.3 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

SAMPLE DUPLICATE: 2702519

Parameter	Units	35433553010 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	2.6 U	2.6 U		40	
Bromomethane	ug/L	4.0 U	4.0 U		40	
Carbon disulfide	ug/L	0.45 U	0.45 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	3.7 U	3.7 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.97 U	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
Styrene	ug/L	0.26 U	0.26 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	0.17 U	0.17 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	105	105	0	40	
4-Bromofluorobenzene (S)	%	94	96	2	40	
Toluene-d8 (S)	%	100	100	0	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 498483 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35433858001

METHOD BLANK: 2694828 | Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/05/18 22:32	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/05/18 22:32	

LABORATORY CONTROL SAMPLE: 2694829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.23	93	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.23	93	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2695531 2695532

Parameter	Units	35433214001 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	0.44	0.44	0.48	0.48	111	110	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	0.44	0.44	0.49	0.48	111	111	60-140	1	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 497535 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35433858001

METHOD BLANK: 2690236 | Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/30/18 14:52	

LABORATORY CONTROL SAMPLE: 2690237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	90-110	

SAMPLE DUPLICATE: 2690238

Parameter	Units	35433421001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0 U		5	

SAMPLE DUPLICATE: 2690239

Parameter	Units	35433381004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	350	352	1	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 499709 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35433858001

METHOD BLANK: 2702220 | Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	12/09/18 02:03	

LABORATORY CONTROL SAMPLE: 2702221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2702496 2702497

Parameter	Units	35433858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	57.8	50	50	112	112	109	108	90-110	0	20	L

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 498216
QC Batch Method: EPA 350.1
Associated Lab Samples: 35433858001

Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia

METHOD BLANK: 2693555
Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	12/04/18 11:03	

LABORATORY CONTROL SAMPLE: 2693556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2693558

Parameter	Units	35434269008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.035	1	1.0	101	90-110	

SAMPLE DUPLICATE: 2693557

Parameter	Units	35434269008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.035	0.035 U		20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433858

QC Batch: 497814 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35433858001

METHOD BLANK: 2691831 | Matrix: Water
Associated Lab Samples: 35433858001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	12/01/18 08:11	

LABORATORY CONTROL SAMPLE: 2691832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 2691834

Parameter	Units	35433826015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.3	2	3.3	96	90-110	

MATRIX SPIKE SAMPLE: 2691836

Parameter	Units	35433899038 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.9	2	3.7	89	90-110	J(M1)

SAMPLE DUPLICATE: 2691833

Parameter	Units	35433826015 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.3	1.3	0	20	

SAMPLE DUPLICATE: 2691835

Parameter	Units	35433899038 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.9	1.8	1	20	

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

QUALIFIERS

Project:	Resource Recovery
Pace Project No.:	35433858

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35433858

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35433858001	**AC74505**	EPA 8011	498483	EPA 8011	498721
35433858001	**AC74505**	EPA 3010	499631	EPA 6010	499729
35433858001	**AC74505**	EPA 3010	499630	EPA 6020	499728
35433858001	**AC74505**	EPA 7470	498774	EPA 7470	498983
35433858001	**AC74505**	EPA 8260	499758		
35433858001	**AC74505**	SM 2540C	497535		
35433858001	**AC74505**	EPA 300.0	499709		
35433858001	**AC74505**	EPA 350.1	498216		
35433858001	**AC74505**	EPA 353.2	497814		

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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: 5.4 ° C (or Received on Ice, ROI)
Condition of Contents:

FOR LAB USE ONLY
LOG IN NO. 1

WO# : 35433858
35433858

1. Client: (Company or Individual) ENV LAB
Address:
City:
Phone: ( )
Fax: ( )

2. Report to: (if different from above) CANDIA MULHERN
Address:
City
Phone: ( )
Fax: ( )

3. Client Project Name: RESOURCE RECOVERY

4. Sampled by: (Print) GREG TORREY

5. Sampled by: (Signature)

6. Shipping Method: COURIER

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. 13. Preservatives: N T C S
14. Containers: P V P P
15. Analyses Requested

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	FE HG NA	APPENDIX I	Clic TDS	NO3 NH3					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74505	4MW5	11-28-18	12:34		✓	GW					8	✓	✓	✓	✓						
2.																						
3.																					Sent to	
4.																					PACE	
5.																					~~11-29-18~~ LR 11-29-18	
6.																					11-30-18	
7.																						
8.																						
9.																						
10.																						

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. [signature]	11-28-18	14:45	[signature]	11-28-18	14:45
2. [signature]	~~11-29-18~~ LR	0705	[signature]	11-30-18	0705
3. [signature]	11-30-18 11-30-18	0750	[signature] / PACE	11-30-18	0750
4.					

IR # 1704 77691

T202 2.3

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO# : 35433858

Project Manager: PM: ADA Due Date: 12/14/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: CLG
Label: 11/30/18
Deliver:
pH: CLG

Thermometer Used: T-202 Date: 11-30-18 Time: 0800 Initials: MJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

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

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

December 13, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35433859

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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

CERTIFICATIONS

Project: Resource Recovery
Pace Project No.: 35433859

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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Ormond Beach, FL 32174
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SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35433859

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35433859001	**AC74544**	Water	11/29/18 11:38	11/30/18 07:50
35433859002	**AC74545**	Water	11/29/18 12:52	11/30/18 07:50

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Ormond Beach, FL 32174
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SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35433859

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35433859001	**AC74544**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35433859002	**AC74545**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433859

Sample: AC74544 **Lab ID: 35433859001** Collected: 11/29/18 11:38 Received: 11/30/18 07:50 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	12/05/18 11:40	12/05/18 22:02	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0097	0.0072	1	12/05/18 11:40	12/05/18 22:02	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/08/18 06:15	12/11/18 21:37	7440-38-2	
Barium	**7.1 I**	ug/L	10.0	0.84	1	12/08/18 06:15	12/11/18 21:37	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/08/18 06:15	12/11/18 21:37	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/08/18 06:15	12/11/18 21:37	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/08/18 06:15	12/11/18 21:37	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/08/18 06:15	12/11/18 21:37	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/08/18 06:15	12/11/18 21:37	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	12/08/18 06:15	12/11/18 21:37	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/08/18 06:15	12/11/18 21:37	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/08/18 06:15	12/11/18 21:37	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/08/18 06:15	12/11/18 21:37	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/08/18 06:15	12/11/18 21:37	7440-22-4	
Sodium	**3.0**	mg/L	2.0	0.27	1	12/08/18 06:15	12/11/18 21:37	7440-23-5	
Vanadium	**5.3 I**	ug/L	10.0	1.0	1	12/08/18 06:15	12/11/18 21:37	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/08/18 06:15	12/11/18 21:37	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	12/08/18 06:18	12/12/18 11:06	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/08/18 06:18	12/12/18 11:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/06/18 15:16	12/07/18 17:35	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/11/18 11:34	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/11/18 11:34	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		12/11/18 11:34	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/11/18 11:34	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/11/18 11:34	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/11/18 11:34	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/11/18 11:34	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		12/11/18 11:34	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/11/18 11:34	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		12/11/18 11:34	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/11/18 11:34	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/11/18 11:34	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/11/18 11:34	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/11/18 11:34	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	95-50-1	

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433859

Sample: AC74544 **Lab ID: 35433859001** Collected: 11/29/18 11:38 Received: 11/30/18 07:50 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		12/11/18 11:34	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/11/18 11:34	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/11/18 11:34	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/11/18 11:34	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/11/18 11:34	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/11/18 11:34	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/11/18 11:34	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/11/18 11:34	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/11/18 11:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/11/18 11:34	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/11/18 11:34	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/11/18 11:34	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/11/18 11:34	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/11/18 11:34	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/11/18 11:34	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/11/18 11:34	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/11/18 11:34	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/11/18 11:34	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 11:34	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	5.0	1.0	1		12/11/18 11:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/11/18 11:34	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/11/18 11:34	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/11/18 11:34	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**117**	mg/L	5.0	5.0	1		11/30/18 15:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.5**	mg/L	5.0	2.5	1		12/09/18 03:53	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		12/04/18 11:24	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**1.3**	mg/L	0.050	0.025	1		12/01/18 08:18		

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433859

Sample: AC74545 **Lab ID: 35433859002** Collected: 11/29/18 12:52 Received: 11/30/18 07:50 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	12/05/18 11:40	12/05/18 22:17	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	12/05/18 11:40	12/05/18 22:17	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/08/18 06:15	12/11/18 21:41	7440-38-2	
Barium	**44.8**	ug/L	10.0	0.84	1	12/08/18 06:15	12/11/18 21:41	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/08/18 06:15	12/11/18 21:41	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/08/18 06:15	12/11/18 21:41	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/08/18 06:15	12/11/18 21:41	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/08/18 06:15	12/11/18 21:41	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/08/18 06:15	12/11/18 21:41	7440-50-8	
Iron	**18.1 I**	ug/L	40.0	9.2	1	12/08/18 06:15	12/11/18 21:41	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/08/18 06:15	12/11/18 21:41	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/08/18 06:15	12/11/18 21:41	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/08/18 06:15	12/11/18 21:41	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/08/18 06:15	12/11/18 21:41	7440-22-4	
Sodium	**3.3**	mg/L	2.0	0.27	1	12/08/18 06:15	12/11/18 21:41	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	12/08/18 06:15	12/11/18 21:41	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/08/18 06:15	12/11/18 21:41	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	12/08/18 06:18	12/13/18 13:09	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/08/18 06:18	12/13/18 13:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/06/18 15:16	12/07/18 17:41	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/11/18 12:24	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/11/18 12:24	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		12/11/18 12:24	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/11/18 12:24	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/11/18 12:24	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/11/18 12:24	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/11/18 12:24	74-83-9	J(M1)
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		12/11/18 12:24	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/11/18 12:24	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		12/11/18 12:24	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/11/18 12:24	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/11/18 12:24	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/11/18 12:24	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/11/18 12:24	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35433859

Sample: AC74545 **Lab ID: 35433859002** Collected: 11/29/18 12:52 Received: 11/30/18 07:50 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		12/11/18 12:24	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/11/18 12:24	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/11/18 12:24	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/11/18 12:24	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/11/18 12:24	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/11/18 12:24	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/11/18 12:24	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/11/18 12:24	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/11/18 12:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/11/18 12:24	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/11/18 12:24	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/11/18 12:24	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/11/18 12:24	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/11/18 12:24	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/11/18 12:24	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/11/18 12:24	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/11/18 12:24	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/11/18 12:24	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		12/11/18 12:24	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	5.0	1.0	1		12/11/18 12:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/11/18 12:24	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/11/18 12:24	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/11/18 12:24	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**50.0**	mg/L	5.0	5.0	1		11/30/18 15:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.7**	mg/L	5.0	2.5	1		12/09/18 04:16	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		12/04/18 11:26	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**3.7**	mg/L	0.050	0.025	1		12/01/18 08:20		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 499102 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2698261 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/07/18 17:31	

LABORATORY CONTROL SAMPLE: 2698262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2698263 2698264

Parameter	Units	35433859001 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	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 499637 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2701851 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1	U	10.0	7.1	12/11/18 21:21	
Barium	ug/L	0.84	U	10.0	0.84	12/11/18 21:21	
Beryllium	ug/L	1.6	U	4.0	1.6	12/11/18 21:21	
Cadmium	ug/L	0.33	U	1.0	0.33	12/11/18 21:21	
Chromium	ug/L	1.7	U	5.0	1.7	12/11/18 21:21	
Cobalt	ug/L	0.96	U	10.0	0.96	12/11/18 21:21	
Copper	ug/L	2.6	U	5.0	2.6	12/11/18 21:21	
Iron	ug/L	9.2	U	40.0	9.2	12/11/18 21:21	
Lead	ug/L	4.6	U	10.0	4.6	12/11/18 21:21	
Nickel	ug/L	2.1	U	5.0	2.1	12/11/18 21:21	
Selenium	ug/L	8.5	U	15.0	8.5	12/11/18 21:21	
Silver	ug/L	1.0	U	5.0	1.0	12/11/18 21:21	
Sodium	mg/L	0.27	U	2.0	0.27	12/11/18 21:21	
Vanadium	ug/L	1.0	U	10.0	1.0	12/11/18 21:21	
Zinc	ug/L	11.0	U	20.0	11.0	12/11/18 21:21	

LABORATORY CONTROL SAMPLE: 2701852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	244	98	80-120	
Barium	ug/L	250	247	99	80-120	
Beryllium	ug/L	25	24.8	99	80-120	
Cadmium	ug/L	25	25.1	100	80-120	
Chromium	ug/L	250	262	105	80-120	
Cobalt	ug/L	250	263	105	80-120	
Copper	ug/L	250	246	98	80-120	
Iron	ug/L	2500	2470	99	80-120	
Lead	ug/L	250	261	104	80-120	
Nickel	ug/L	250	261	104	80-120	
Selenium	ug/L	250	252	101	80-120	
Silver	ug/L	25	25.2	101	80-120	
Sodium	mg/L	12.5	13.1	104	80-120	
Vanadium	ug/L	250	249	100	80-120	
Zinc	ug/L	1250	1220	98	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2701853 2701854

Parameter	Units	35434125002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	261	262	103	103	75-125	0	20	
Barium	ug/L	128	250	250	376	386	99	103	75-125	3	20	
Beryllium	ug/L	1.6 U	25	25	25.2	25.5	98	100	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	24.2	24.6	97	99	75-125	2	20	
Chromium	ug/L	7.1	250	250	267	270	104	105	75-125	1	20	
Cobalt	ug/L	0.96 U	250	250	262	268	105	107	75-125	2	20	
Copper	ug/L	2.6 U	250	250	265	269	105	107	75-125	2	20	
Iron	ug/L	10100	2500	2500	12100	12800	83	110	75-125	5	20	
Lead	ug/L	4.6 U	250	250	253	260	100	103	75-125	3	20	
Nickel	ug/L	2.1 U	250	250	256	262	102	104	75-125	2	20	
Selenium	ug/L	8.5 U	250	250	254	261	101	104	75-125	3	20	
Silver	ug/L	1.0 U	25	25	26.4	26.4	105	105	75-125	0	20	
Sodium	mg/L	187	12.5	12.5	194	205	58	141	75-125	5	20	J(M1), L
Vanadium	ug/L	27.4	250	250	280	284	101	103	75-125	1	20	
Zinc	ug/L	35.2	1250	1250	1260	1290	98	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 499636 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2701847 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/13/18 12:59	
Thallium	ug/L	0.50 U	1.0	0.50	12/13/18 12:59	

LABORATORY CONTROL SAMPLE: 2701848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.7	99	80-120	
Thallium	ug/L	50	51.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2701849 2701850

Parameter	Units	35433859002 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	51.0	50.3	102	101	75-125	1	20	
Thallium	ug/L	0.50 U	50	50	52.3	50.4	104	101	75-125	4	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 500177 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2704273 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	12/11/18 10:20	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/11/18 10:20	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	12/11/18 10:20	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/11/18 10:20	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	12/11/18 10:20	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	12/11/18 10:20	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	12/11/18 10:20	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	12/11/18 10:20	
2-Hexanone	ug/L	0.85 U	10.0	0.85	12/11/18 10:20	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	12/11/18 10:20	
Acetone	ug/L	5.3 U	20.0	5.3	12/11/18 10:20	
Acrylonitrile	ug/L	3.7 U	10.0	3.7	12/11/18 10:20	
Benzene	ug/L	0.10 U	1.0	0.10	12/11/18 10:20	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	12/11/18 10:20	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	12/11/18 10:20	
Bromoform	ug/L	2.6 U	3.0	2.6	12/11/18 10:20	
Bromomethane	ug/L	4.0 U	5.0	4.0	12/11/18 10:20	
Carbon disulfide	ug/L	0.45 U	10.0	0.45	12/11/18 10:20	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	12/11/18 10:20	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
Chloroethane	ug/L	3.7 U	10.0	3.7	12/11/18 10:20	
Chloroform	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
Chloromethane	ug/L	0.97 U	1.0	0.97	12/11/18 10:20	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/11/18 10:20	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	12/11/18 10:20	
Dibromomethane	ug/L	0.68 U	2.0	0.68	12/11/18 10:20	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
Iodomethane	ug/L	9.3 U	10.0	9.3	12/11/18 10:20	
Methylene Chloride	ug/L	2.0 U	5.0	2.0	12/11/18 10:20	
Styrene	ug/L	0.26 U	1.0	0.26	12/11/18 10:20	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
Toluene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/11/18 10:20	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	12/11/18 10:20	
Trichloroethene	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

METHOD BLANK: 2704273 Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	12/11/18 10:20	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	12/11/18 10:20	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	12/11/18 10:20	
Xylene (Total)	ug/L	1.0 U	5.0	1.0	12/11/18 10:20	
1,2-Dichloroethane-d4 (S)	%	99	70-130		12/11/18 10:20	
4-Bromofluorobenzene (S)	%	102	70-130		12/11/18 10:20	
Toluene-d8 (S)	%	101	70-130		12/11/18 10:20	

LABORATORY CONTROL SAMPLE: 2704275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	114	70-130	
1,1,1-Trichloroethane	ug/L	20	21.0	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.0	120	68-125	
1,1,2-Trichloroethane	ug/L	20	23.1	115	70-130	
1,1-Dichloroethane	ug/L	20	21.1	105	70-130	
1,1-Dichloroethene	ug/L	20	20.5	102	66-133	
1,2,3-Trichloropropane	ug/L	20	21.7	108	62-127	
1,2-Dichlorobenzene	ug/L	20	22.4	112	70-130	
1,2-Dichloroethane	ug/L	20	20.6	103	70-130	
1,2-Dichloropropane	ug/L	20	21.8	109	70-130	
1,4-Dichlorobenzene	ug/L	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	40	45.8	115	47-143	
2-Hexanone	ug/L	40	43.6	109	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	44.8	112	57-132	
Acetone	ug/L	40	45.7	114	46-148	
Acrylonitrile	ug/L	200	188	94	60-143	
Benzene	ug/L	20	22.5	112	70-130	
Bromochloromethane	ug/L	20	23.4	117	70-130	
Bromodichloromethane	ug/L	20	20.3	101	70-130	
Bromoform	ug/L	20	20.9	104	49-126	
Bromomethane	ug/L	20	10.6	53	10-165	
Carbon disulfide	ug/L	20	15.3	77	60-141	
Carbon tetrachloride	ug/L	20	20.8	104	63-126	
Chlorobenzene	ug/L	20	21.7	108	70-130	
Chloroethane	ug/L	20	22.4	112	71-142	
Chloroform	ug/L	20	20.7	103	70-130	
Chloromethane	ug/L	20	18.1	90	40-140	
cis-1,2-Dichloroethene	ug/L	20	21.3	106	70-130	
cis-1,3-Dichloropropene	ug/L	20	23.0	115	70-130	
Dibromochloromethane	ug/L	20	22.1	110	62-118	
Dibromomethane	ug/L	20	22.4	112	70-130	
Ethylbenzene	ug/L	20	23.0	115	70-130	
Iodomethane	ug/L	40	33.8	84	10-164	

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

LABORATORY CONTROL SAMPLE: 2704275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	22.5	112	65-136	
Styrene	ug/L	20	21.3	107	70-130	
Tetrachloroethene	ug/L	20	21.4	107	64-134	
Toluene	ug/L	20	23.4	117	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.3	111	68-127	
trans-1,3-Dichloropropene	ug/L	20	23.8	119	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	19.0	95	42-129	
Trichloroethene	ug/L	20	20.9	105	70-130	
Trichlorofluoromethane	ug/L	20	17.6	88	65-135	
Vinyl acetate	ug/L	20	17.1	86	60-144	
Vinyl chloride	ug/L	20	17.0	85	68-131	
Xylene (Total)	ug/L	60	73.9	123	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 2704352

Parameter	Units	35433859002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	21.5	107	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	20.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	22.1	110	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	21.2	106	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	21.0	105	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	20.5	102	66-133	
1,2,3-Trichloropropane	ug/L	1.1 U	20	19.4	97	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	21.6	108	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	19.8	98	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	21.1	106	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.7	104	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	36.1	90	47-143	
2-Hexanone	ug/L	0.85 U	40	33.5	84	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	39.2	98	57-132	
Acetone	ug/L	5.3 U	40	24.7	58	46-148	
Acrylonitrile	ug/L	3.7 U	200	152	76	60-143	
Benzene	ug/L	0.10 U	20	21.6	108	70-130	
Bromochloromethane	ug/L	0.37 U	20	22.6	113	70-130	
Bromodichloromethane	ug/L	0.19 U	20	19.4	97	70-130	
Bromoform	ug/L	2.6 U	20	18.5	92	49-126	
Bromomethane	ug/L	4.0 U	20	4.0 U	8	10-165	J(M1)
Carbon disulfide	ug/L	0.45 U	20	17.8	89	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	20.5	103	63-126	
Chlorobenzene	ug/L	0.50 U	20	20.4	102	70-130	
Chloroethane	ug/L	3.7 U	20	27.0	135	71-142	
Chloroform	ug/L	0.50 U	20	20.4	102	70-130	

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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
Pace Project No.: 35433859

MATRIX SPIKE SAMPLE: 2704352

Parameter	Units	35433859002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.97 U	20	18.5	92	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	21.0	105	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	20.7	103	70-130	
Dibromochloromethane	ug/L	0.45 U	20	20.6	103	62-118	
Dibromomethane	ug/L	0.68 U	20	20.3	102	70-130	
Ethylbenzene	ug/L	0.50 U	20	22.0	110	70-130	
Iodomethane	ug/L	9.3 U	40	11.0	28	10-164	
Methylene Chloride	ug/L	2.0 U	20	21.9	110	65-136	
Styrene	ug/L	0.26 U	20	19.9	99	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.2	91	64-134	
Toluene	ug/L	0.50 U	20	22.2	111	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	22.8	114	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	21.7	108	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	16.9	85	42-129	
Trichloroethene	ug/L	0.50 U	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	19.2	96	65-135	
Vinyl acetate	ug/L	0.19 U	20	17.1	85	60-144	
Vinyl chloride	ug/L	0.50 U	20	19.1	96	68-131	
Xylene (Total)	ug/L	1.0 U	60	69.5	116	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2704351

Parameter	Units	35433859001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 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	0.23 U	0.23 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	0.85 U	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	
Acetone	ug/L	5.3 U	5.3 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	

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REPORT OF LABORATORY ANALYSIS

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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

SAMPLE DUPLICATE: 2704351

Parameter	Units	35433859001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	2.6 U	2.6 U		40	
Bromomethane	ug/L	4.0 U	4.0 U		40	
Carbon disulfide	ug/L	0.45 U	0.45 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	3.7 U	3.7 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.97 U	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
Styrene	ug/L	0.26 U	0.26 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	0.17 U	0.17 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	100	102	2	40	
4-Bromofluorobenzene (S)	%	101	101	1	40	
Toluene-d8 (S)	%	101	102	1	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 498482 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2694820 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/05/18 16:06	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/05/18 16:06	

LABORATORY CONTROL SAMPLE: 2694821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.24	97	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.24	95	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2695529 2695530

Parameter	Units	35432944001 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	0.44	0.44	0.43	0.49	99	112	60-140	12	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	0.44	0.44	0.43	0.49	98	112	60-140	13	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 497535 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2690236 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/30/18 14:52	

LABORATORY CONTROL SAMPLE: 2690237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	90-110	

SAMPLE DUPLICATE: 2690238

Parameter	Units	35433421001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0 U		5	

SAMPLE DUPLICATE: 2690239

Parameter	Units	35433381004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	350	352	1	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 499709 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2702220 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	12/09/18 02:03	

LABORATORY CONTROL SAMPLE: 2702221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2702496 2702497

Parameter	Units	35433858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	57.8	50	50	112	112	109	108	90-110	0	20	L

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 498216 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2693555 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	12/04/18 11:03	

LABORATORY CONTROL SAMPLE: 2693556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2693558

Parameter	Units	35434269008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.035	1	1.0	101	90-110	

SAMPLE DUPLICATE: 2693557

Parameter	Units	35434269008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.035	0.035 U		20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35433859

QC Batch: 497814 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35433859001, 35433859002

METHOD BLANK: 2691831 | Matrix: Water
Associated Lab Samples: 35433859001, 35433859002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	12/01/18 08:11	

LABORATORY CONTROL SAMPLE: 2691832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 2691834

Parameter	Units	35433826015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.3	2	3.3	96	90-110	

MATRIX SPIKE SAMPLE: 2691836

Parameter	Units	35433899038 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.9	2	3.7	89	90-110	J(M1)

SAMPLE DUPLICATE: 2691833

Parameter	Units	35433826015 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.3	1.3	0	20	

SAMPLE DUPLICATE: 2691835

Parameter	Units	35433899038 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.9	1.8	1	20	

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

QUALIFIERS

Project:	Resource Recovery
Pace Project No.:	35433859

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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.

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35433859

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35433859001	**AC74544**	EPA 8011	498482	EPA 8011	498719
35433859002	**AC74545**	EPA 8011	498482	EPA 8011	498719
35433859001	**AC74544**	EPA 3010	499637	EPA 6010	499730
35433859002	**AC74545**	EPA 3010	499637	EPA 6010	499730
35433859001	**AC74544**	EPA 3010	499636	EPA 6020	499731
35433859002	**AC74545**	EPA 3010	499636	EPA 6020	499731
35433859001	**AC74544**	EPA 7470	499102	EPA 7470	499216
35433859002	**AC74545**	EPA 7470	499102	EPA 7470	499216
35433859001	**AC74544**	EPA 8260	500177		
35433859002	**AC74545**	EPA 8260	500177		
35433859001	**AC74544**	SM 2540C	497535		
35433859002	**AC74545**	SM 2540C	497535		
35433859001	**AC74544**	EPA 300.0	499709		
35433859002	**AC74545**	EPA 300.0	499709		
35433859001	**AC74544**	EPA 350.1	498216		
35433859002	**AC74545**	EPA 350.1	498216		
35433859001	**AC74544**	EPA 353.2	497814		
35433859002	**AC74545**	EPA 353.2	497814		

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Pas[illegible] 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: 14.1 °C (or Received on Ice, ROI) Condition of Contents:

FOR LAB USE ONLY
LOG IN NO.

WO# : 35433859
35433859

1. Client: (Company or Individual) ENV LAB
Address:
City:
Phone: ( )
Fax: ( )

2. Report to: (if different from above) CANDIA MULHERN
Address:
City
Phone: ( )
Fax: ( )

3. Client Project Name: RESOURCE RECOVERY

4. Sampled by: (Print) GREG TORREY

5. Sampled by: (Signature) [signature]

6. Shipping Method: COURIER

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	T	S	C
14. Containers	P	V	P	P

15. Analyses Requested

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	Sample Time	10. Comp.	Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	No. of Containers	FE HG NA	APPENDIX I	NO3 NH3	TDS Clic				16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74544	4mw2	11-29-18	11:38		✓	GW					8	✓	✓	✓	✓					
2.	AC74545	2mw2	11-29-18	12:52		✓	GW					8	✓	✓	✓	✓					
3.																				Send to	
4.																				PACE	
5.																				11-30-18	
6.																					
7.																					
8.																					
9.																					
10.																					

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

17.	RELINQUISHED BY	DATE	TIME	18.	RECEIVED BY	DATE	TIME
1.	[signature]	11-29-18	15:00		[signature]	11-29-18	1500
2.	[signature]	11-30-18	0705		[signature] T202 3.1	11-30-18	0705
3.	[signature]	11-30-18	0750		[signature] /PACE	11-30-18	0750
4.							

IR GUN 170477691

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO# : 35433859

Project Manager: PM: ADA Due Date: 12/14/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: CLG
Label: 11/30/18
Deliver: ↓
pH: CLG

Thermometer Used: T-202 Date: 11-30-18 Time: 0800 Initials: MJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 3.1 **(Visual)** 0.0 **(Correction Factor)** 3.1 **(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:
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

December 17, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35434831

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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

CERTIFICATIONS

Project: Resource Recovery
Pace Project No.: 35434831

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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

SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35434831

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35434831001	**AC74602**	Water	11/30/18 12:32	12/05/18 15:10
35434831002	**AC74603**	Water	11/30/18 14:00	12/05/18 15:10

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(386)672-5668

SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35434831

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35434831001	**AC74602**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	JDM	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35434831002	**AC74603**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	JDM	1	PASI-O
		EPA 353.2	JWH	1	PASI-O

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35434831

Sample: AC74602 **Lab ID: 35434831001** Collected: 11/30/18 12:32 Received: 12/05/18 15:10 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	12/07/18 15:00	12/08/18 14:44	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	12/07/18 15:00	12/08/18 14:44	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/12/18 02:36	12/14/18 18:50	7440-38-2	
Barium	**18.6**	ug/L	10.0	0.84	1	12/12/18 02:36	12/14/18 18:50	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/12/18 02:36	12/14/18 18:50	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/12/18 02:36	12/14/18 18:50	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/12/18 02:36	12/14/18 18:50	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/12/18 02:36	12/14/18 18:50	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/12/18 02:36	12/14/18 18:50	7440-50-8	
Iron	**128**	ug/L	40.0	9.2	1	12/12/18 02:36	12/14/18 18:50	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/12/18 02:36	12/14/18 18:50	7439-92-1	
Nickel	**2.2 I**	ug/L	5.0	2.1	1	12/12/18 02:36	12/14/18 18:50	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/12/18 02:36	12/14/18 18:50	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/12/18 02:36	12/14/18 18:50	7440-22-4	
Sodium	**32.8**	mg/L	2.0	0.27	1	12/12/18 02:36	12/14/18 18:50	7440-23-5	
Vanadium	**13.6**	ug/L	10.0	1.0	1	12/12/18 02:36	12/14/18 18:50	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/12/18 02:36	12/14/18 18:50	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	12/12/18 02:39	12/13/18 11:37	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/12/18 02:39	12/13/18 11:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/06/18 15:16	12/07/18 17:52	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/13/18 13:29	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/13/18 13:29	107-13-1	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		12/13/18 13:29	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/13/18 13:29	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/13/18 13:29	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/13/18 13:29	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/13/18 13:29	74-83-9	
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		12/13/18 13:29	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/13/18 13:29	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		12/13/18 13:29	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		12/13/18 13:29	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/13/18 13:29	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		12/13/18 13:29	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/13/18 13:29	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/13/18 13:29	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/13/18 13:29	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		12/13/18 13:29	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
Pace Project No.: 35434831

Sample: AC74602 **Lab ID: 35434831001** Collected: 11/30/18 12:32 Received: 12/05/18 15:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		12/13/18 13:29	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/13/18 13:29	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/13/18 13:29	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		12/13/18 13:29	107-06-2	
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/13/18 13:29	75-35-4	
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/13/18 13:29	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		12/13/18 13:29	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/13/18 13:29	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/13/18 13:29	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/13/18 13:29	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		12/13/18 13:29	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/13/18 13:29	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/13/18 13:29	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/13/18 13:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/13/18 13:29	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/13/18 13:29	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/13/18 13:29	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/13/18 13:29	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		12/13/18 13:29	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		12/13/18 13:29	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/13/18 13:29	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/13/18 13:29	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		12/13/18 13:29	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/13/18 13:29	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/13/18 13:29	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/13/18 13:29	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		12/13/18 13:29	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		12/13/18 13:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/13/18 13:29	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/13/18 13:29	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/13/18 13:29	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**337**	mg/L	5.0	5.0	1		12/06/18 15:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**79.5**	mg/L	5.0	2.5	1		12/14/18 01:44	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.23**	mg/L	0.050	0.025	1		12/07/18 11:38		

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35434831

Sample: AC74603 **Lab ID: 35434831002** Collected: 11/30/18 14:00 Received: 12/05/18 15:10 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	**0.0062 U**	ug/L	0.019	0.0062	1	12/07/18 15:00	12/08/18 14:59	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	12/07/18 15:00	12/08/18 14:59	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/12/18 02:36	12/14/18 18:53	7440-38-2	
Barium	**10.4**	ug/L	10.0	0.84	1	12/12/18 02:36	12/14/18 18:53	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/12/18 02:36	12/14/18 18:53	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/12/18 02:36	12/14/18 18:53	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/12/18 02:36	12/14/18 18:53	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/12/18 02:36	12/14/18 18:53	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/12/18 02:36	12/14/18 18:53	7440-50-8	
Iron	**132**	ug/L	40.0	9.2	1	12/12/18 02:36	12/14/18 18:53	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/12/18 02:36	12/14/18 18:53	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/12/18 02:36	12/14/18 18:53	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/12/18 02:36	12/14/18 18:53	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/12/18 02:36	12/14/18 18:53	7440-22-4	
Sodium	**11.0**	mg/L	2.0	0.27	1	12/12/18 02:36	12/14/18 18:53	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	12/12/18 02:36	12/14/18 18:53	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/12/18 02:36	12/14/18 18:53	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	12/12/18 02:39	12/13/18 11:54	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/12/18 02:39	12/13/18 11:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/06/18 15:16	12/07/18 17:54	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/13/18 13:53	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/13/18 13:53	107-13-1	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		12/13/18 13:53	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/13/18 13:53	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/13/18 13:53	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/13/18 13:53	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/13/18 13:53	74-83-9	
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		12/13/18 13:53	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/13/18 13:53	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		12/13/18 13:53	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		12/13/18 13:53	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/13/18 13:53	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		12/13/18 13:53	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/13/18 13:53	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/13/18 13:53	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/13/18 13:53	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		12/13/18 13:53	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35434831

Sample: AC74603 **Lab ID: 35434831002** Collected: 11/30/18 14:00 Received: 12/05/18 15:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		12/13/18 13:53	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/13/18 13:53	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/13/18 13:53	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		12/13/18 13:53	107-06-2	
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/13/18 13:53	75-35-4	
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/13/18 13:53	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		12/13/18 13:53	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/13/18 13:53	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/13/18 13:53	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/13/18 13:53	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		12/13/18 13:53	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/13/18 13:53	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/13/18 13:53	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/13/18 13:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/13/18 13:53	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/13/18 13:53	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/13/18 13:53	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/13/18 13:53	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		12/13/18 13:53	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		12/13/18 13:53	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/13/18 13:53	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/13/18 13:53	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		12/13/18 13:53	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/13/18 13:53	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/13/18 13:53	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/13/18 13:53	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		12/13/18 13:53	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		12/13/18 13:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/13/18 13:53	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/13/18 13:53	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/13/18 13:53	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**216**	mg/L	5.0	5.0	1		12/06/18 15:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.6**	mg/L	5.0	2.5	1		12/14/18 02:06	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		12/07/18 11:39		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

QC Batch: 499102 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35434831001, 35434831002

METHOD BLANK: 2698261 | Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/07/18 17:31	

LABORATORY CONTROL SAMPLE: 2698262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2698263 2698264

Parameter	Units	35433859001 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	105	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

QC Batch: 500477 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35434831001, 35434831002

METHOD BLANK: 2706115 | Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1	U	10.0	7.1	12/14/18 18:33	
Barium	ug/L	0.84	U	10.0	0.84	12/14/18 18:33	
Beryllium	ug/L	1.6	U	4.0	1.6	12/14/18 18:33	
Cadmium	ug/L	0.33	U	1.0	0.33	12/14/18 18:33	
Chromium	ug/L	1.7	U	5.0	1.7	12/14/18 18:33	
Cobalt	ug/L	0.96	U	10.0	0.96	12/14/18 18:33	
Copper	ug/L	2.6	U	5.0	2.6	12/14/18 18:33	
Iron	ug/L	9.2	U	40.0	9.2	12/14/18 18:33	
Lead	ug/L	4.6	U	10.0	4.6	12/14/18 18:33	
Nickel	ug/L	2.1	U	5.0	2.1	12/14/18 18:33	
Selenium	ug/L	8.5	U	15.0	8.5	12/14/18 18:33	
Silver	ug/L	1.0	U	5.0	1.0	12/14/18 18:33	
Sodium	mg/L	0.27	U	2.0	0.27	12/14/18 18:33	
Vanadium	ug/L	1.0	U	10.0	1.0	12/14/18 18:33	
Zinc	ug/L	11.0	U	20.0	11.0	12/14/18 18:33	

LABORATORY CONTROL SAMPLE: 2706116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	224	89	80-120	
Barium	ug/L	250	239	96	80-120	
Beryllium	ug/L	25	22.7	91	80-120	
Cadmium	ug/L	25	24.0	96	80-120	
Chromium	ug/L	250	241	96	80-120	
Cobalt	ug/L	250	241	96	80-120	
Copper	ug/L	250	232	93	80-120	
Iron	ug/L	2500	2420	97	80-120	
Lead	ug/L	250	239	96	80-120	
Nickel	ug/L	250	241	96	80-120	
Selenium	ug/L	250	227	91	80-120	
Silver	ug/L	25	23.5	94	80-120	
Sodium	mg/L	12.5	11.9	95	80-120	
Vanadium	ug/L	250	238	95	80-120	
Zinc	ug/L	1250	1160	93	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2706117 2706118

Parameter	Units	35434827001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	221	228	88	91	75-125	3	20	
Barium	ug/L	4.4 I	250	250	243	247	96	97	75-125	2	20	
Beryllium	ug/L	1.6 U	25	25	22.8	23.3	91	93	75-125	2	20	
Cadmium	ug/L	0.33 U	25	25	23.8	24.2	95	97	75-125	2	20	
Chromium	ug/L	1.7 U	250	250	242	247	96	99	75-125	2	20	
Cobalt	ug/L	0.96 U	250	250	239	244	96	97	75-125	2	20	
Copper	ug/L	2.6 U	250	250	234	240	94	96	75-125	3	20	
Iron	ug/L	9.2 U	2500	2500	2430	2460	97	99	75-125	1	20	
Lead	ug/L	4.6 U	250	250	240	244	95	97	75-125	2	20	
Nickel	ug/L	2.1 U	250	250	240	244	96	98	75-125	2	20	
Selenium	ug/L	8.5 U	250	250	223	229	89	91	75-125	3	20	
Silver	ug/L	1.0 U	25	25	23.8	24.2	94	96	75-125	2	20	
Sodium	mg/L	2.4	12.5	12.5	14.5	14.7	97	99	75-125	1	20	
Vanadium	ug/L	3.8 I	250	250	244	249	96	98	75-125	2	20	
Zinc	ug/L	11.0 U	1250	1250	1150	1170	92	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

QC Batch: 500478 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35434831001, 35434831002

METHOD BLANK: 2706123 | Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/13/18 11:29	
Thallium	ug/L	0.50 U	1.0	0.50	12/13/18 11:29	

LABORATORY CONTROL SAMPLE: 2706124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.5	99	80-120	
Thallium	ug/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2706125 2706126

Parameter	Units	35434831001 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	50.1	51.1	100	102	75-125	2	20	
Thallium	ug/L	0.50 U	50	50	50.5	51.2	101	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

QC Batch: 500923 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35434831001, 35434831002

METHOD BLANK: 2708276 | Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	12/13/18 10:17	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/13/18 10:17	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	12/13/18 10:17	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/13/18 10:17	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	12/13/18 10:17	
1,1-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/13/18 10:17	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	12/13/18 10:17	
1,2-Dichlorobenzene	ug/L	0.29 U	1.0	0.29	12/13/18 10:17	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	12/13/18 10:17	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	12/13/18 10:17	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	12/13/18 10:17	
2-Butanone (MEK)	ug/L	7.5 U	10.0	7.5	12/13/18 10:17	
2-Hexanone	ug/L	0.85 U	10.0	0.85	12/13/18 10:17	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	12/13/18 10:17	
Acetone	ug/L	5.3 U	20.0	5.3	12/13/18 10:17	
Acrylonitrile	ug/L	3.7 U	10.0	3.7	12/13/18 10:17	
Benzene	ug/L	0.30 U	1.0	0.30	12/13/18 10:17	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	12/13/18 10:17	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	12/13/18 10:17	
Bromoform	ug/L	2.6 U	3.0	2.6	12/13/18 10:17	
Bromomethane	ug/L	4.0 U	5.0	4.0	12/13/18 10:17	
Carbon disulfide	ug/L	0.45 U	10.0	0.45	12/13/18 10:17	
Carbon tetrachloride	ug/L	1.1 U	3.0	1.1	12/13/18 10:17	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	12/13/18 10:17	
Chloroethane	ug/L	3.7 U	10.0	3.7	12/13/18 10:17	
Chloroform	ug/L	0.32 U	1.0	0.32	12/13/18 10:17	
Chloromethane	ug/L	0.97 U	1.0	0.97	12/13/18 10:17	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/13/18 10:17	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/13/18 10:17	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	12/13/18 10:17	
Dibromomethane	ug/L	0.68 U	2.0	0.68	12/13/18 10:17	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	12/13/18 10:17	
Iodomethane	ug/L	9.3 U	10.0	9.3	12/13/18 10:17	
Methylene Chloride	ug/L	2.0 U	5.0	2.0	12/13/18 10:17	
Styrene	ug/L	0.26 U	1.0	0.26	12/13/18 10:17	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	12/13/18 10:17	
Toluene	ug/L	0.33 U	1.0	0.33	12/13/18 10:17	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	12/13/18 10:17	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/13/18 10:17	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	12/13/18 10:17	
Trichloroethene	ug/L	0.36 U	1.0	0.36	12/13/18 10:17	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

METHOD BLANK: 2708276 Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	12/13/18 10:17	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	12/13/18 10:17	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	12/13/18 10:17	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	12/13/18 10:17	
1,2-Dichloroethane-d4 (S)	%	105	70-130		12/13/18 10:17	
4-Bromofluorobenzene (S)	%	99	70-130		12/13/18 10:17	
Toluene-d8 (S)	%	103	70-130		12/13/18 10:17	

LABORATORY CONTROL SAMPLE: 2708277

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	19.4	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	68-125	
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	20	19.5	97	70-130	
1,1-Dichloroethene	ug/L	20	19.8	99	66-133	
1,2,3-Trichloropropane	ug/L	20	19.9	99	62-127	
1,2-Dichlorobenzene	ug/L	20	19.4	97	70-130	
1,2-Dichloroethane	ug/L	20	18.9	94	70-130	
1,2-Dichloropropane	ug/L	20	19.1	95	70-130	
1,4-Dichlorobenzene	ug/L	20	19.3	97	70-130	
2-Butanone (MEK)	ug/L	40	31.8	79	47-143	
2-Hexanone	ug/L	40	35.8	89	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	36.5	91	57-132	
Acetone	ug/L	40	37.2	93	46-148	
Acrylonitrile	ug/L	200	189	95	60-143	
Benzene	ug/L	20	19.7	99	70-130	
Bromochloromethane	ug/L	20	19.1	95	70-130	
Bromodichloromethane	ug/L	20	16.3	82	70-130	
Bromoform	ug/L	20	13.6	68	49-126	
Bromomethane	ug/L	20	20.8	104	10-165	
Carbon disulfide	ug/L	20	19.9	100	60-141	
Carbon tetrachloride	ug/L	20	16.9	85	63-126	
Chlorobenzene	ug/L	20	19.8	99	70-130	
Chloroethane	ug/L	20	21.8	109	71-142	
Chloroform	ug/L	20	18.6	93	70-130	
Chloromethane	ug/L	20	20.8	104	40-140	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.9	90	70-130	
Dibromochloromethane	ug/L	20	16.2	81	62-118	
Dibromomethane	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	19.8	99	70-130	
Iodomethane	ug/L	40	22.4	56	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

LABORATORY CONTROL SAMPLE: 2708277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	20.6	103	65-136	
Styrene	ug/L	20	19.2	96	70-130	
Tetrachloroethene	ug/L	20	20.8	104	64-134	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.8	89	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	15.2	76	42-129	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	22.0	110	65-135	
Vinyl acetate	ug/L	20	20.4	102	60-144	
Vinyl chloride	ug/L	20	18.1	90	68-131	
Xylene (Total)	ug/L	60	58.6	98	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 2708279

Parameter	Units	2612641009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.3	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.0	105	68-125	
1,1,2-Trichloroethane	ug/L	ND	20	21.8	109	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.8	114	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.4	117	66-133	
1,2,3-Trichloropropane	ug/L	ND	20	22.2	111	62-127	
1,2-Dichlorobenzene	ug/L	ND	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.0	110	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.2	111	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.4	102	70-130	
2-Butanone (MEK)	ug/L	ND	40	35.3	88	47-143	
2-Hexanone	ug/L	ND	40	37.3	93	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	39.7	99	57-132	
Acetone	ug/L	ND	40	46.8	99	46-148	
Acrylonitrile	ug/L	ND	200	185	93	60-143	
Benzene	ug/L	ND	20	23.2	116	70-130	
Bromochloromethane	ug/L	ND	20	22.0	110	70-130	
Bromodichloromethane	ug/L	ND	20	18.1	90	70-130	
Bromoform	ug/L	ND	20	14.3	72	49-126	
Bromomethane	ug/L	ND	20	28.3	141	10-165	
Carbon disulfide	ug/L	ND	20	26.1	129	60-141	
Carbon tetrachloride	ug/L	ND	20	19.6	98	63-126	
Chlorobenzene	ug/L	ND	20	21.8	109	70-130	
Chloroethane	ug/L	ND	20	31.0	155	71-142	J(M1)
Chloroform	ug/L	ND	20	21.7	109	70-130	

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(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

MATRIX SPIKE SAMPLE: 2708279

Parameter	Units	2612641009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	ND	20	26.7	133	40-140	
cis-1,2-Dichloroethene	ug/L	ND	20	22.3	111	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.2	101	70-130	
Dibromochloromethane	ug/L	ND	20	17.8	89	62-118	
Dibromomethane	ug/L	ND	20	22.1	110	70-130	
Ethylbenzene	ug/L	ND	20	22.0	110	70-130	
Iodomethane	ug/L	ND	40	23.3	58	10-164	
Methylene Chloride	ug/L	ND	20	22.4	112	65-136	
Styrene	ug/L	ND	20	21.3	106	70-130	
Tetrachloroethene	ug/L	ND	20	21.1	106	64-134	
Toluene	ug/L	ND	20	23.1	115	70-130	
trans-1,2-Dichloroethene	ug/L	ND	20	23.2	116	68-127	
trans-1,3-Dichloropropene	ug/L	ND	20	19.8	99	65-121	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	15.1	76	42-129	
Trichloroethene	ug/L	ND	20	22.5	112	70-130	
Trichlorofluoromethane	ug/L	ND	20	31.2	156	65-135	J(M1)
Vinyl acetate	ug/L	ND	20	24.4	122	60-144	
Vinyl chloride	ug/L	ND	20	23.6	118	68-131	
Xylene (Total)	ug/L	ND	60	65.2	109	70-130	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2708278

Parameter	Units	2612641008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.32 U		40	
1,1,1-Trichloroethane	ug/L	ND	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.20 U		40	
1,1,2-Trichloroethane	ug/L	ND	0.30 U		40	
1,1-Dichloroethane	ug/L	ND	0.34 U		40	
1,1-Dichloroethene	ug/L	ND	0.27 U		40	
1,2,3-Trichloropropane	ug/L	ND	1.1 U		40	
1,2-Dichlorobenzene	ug/L	ND	0.29 U		40	
1,2-Dichloroethane	ug/L	ND	0.27 U		40	
1,2-Dichloropropane	ug/L	ND	0.23 U		40	
1,4-Dichlorobenzene	ug/L	ND	0.28 U		40	
2-Butanone (MEK)	ug/L	ND	7.5 U		40	
2-Hexanone	ug/L	ND	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	0.32 U		40	
Acetone	ug/L	ND	5.3 U		40	
Acrylonitrile	ug/L	ND	3.7 U		40	
Benzene	ug/L	ND	0.30 U		40	
Bromochloromethane	ug/L	ND	0.37 U		40	
Bromodichloromethane	ug/L	ND	0.19 U		40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

SAMPLE DUPLICATE: 2708278

Parameter	Units	2612641008 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	ND	2.6 U		40	
Bromomethane	ug/L	ND	4.0 U		40	
Carbon disulfide	ug/L	ND	0.45 U		40	
Carbon tetrachloride	ug/L	ND	1.1 U		40	
Chlorobenzene	ug/L	ND	0.35 U		40	
Chloroethane	ug/L	ND	3.7 U		40	
Chloroform	ug/L	ND	0.32 U		40	
Chloromethane	ug/L	ND	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	ND	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	ND	0.17 U		40	
Dibromochloromethane	ug/L	ND	0.45 U		40	
Dibromomethane	ug/L	ND	0.68 U		40	
Ethylbenzene	ug/L	ND	0.30 U		40	
Iodomethane	ug/L	ND	9.3 U		40	
Methylene Chloride	ug/L	ND	2.0 U		40	
Styrene	ug/L	ND	0.26 U		40	
Tetrachloroethene	ug/L	ND	0.38 U		40	
Toluene	ug/L	ND	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	ND	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	ND	0.17 U		40	
trans-1,4-Dichloro-2-butene	ug/L	ND	2.5 U		40	
Trichloroethene	ug/L	ND	0.36 U		40	
Trichlorofluoromethane	ug/L	ND	0.35 U		40	
Vinyl acetate	ug/L	ND	0.19 U		40	
Vinyl chloride	ug/L	ND	0.39 U		40	
Xylene (Total)	ug/L	ND	2.1 U		40	
1,2-Dichloroethane-d4 (S)	%	104	104	1	40	
4-Bromofluorobenzene (S)	%	98	98	1	40	
Toluene-d8 (S)	%	104	102	2	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

QC Batch: 499248 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35434831001, 35434831002

METHOD BLANK: 2699530 | Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/08/18 11:05	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/08/18 11:05	

LABORATORY CONTROL SAMPLE: 2699531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.25	98	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	99	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2700181 2700182

Parameter	Units	35435009004 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	0.44	0.44	0.46	0.46	105	105	60-140	0	40	
1,2-Dibromoethane (EDB)	ug/L	0.0071 U	0.44	0.44	0.47	0.47	106	107	60-140	1	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

QC Batch: 498990 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35434831001, 35434831002

METHOD BLANK: 2697869 | Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	12/06/18 15:01	

LABORATORY CONTROL SAMPLE: 2697870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	90-110	

SAMPLE DUPLICATE: 2697871

Parameter	Units	35434831001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	337	336	0	5	

SAMPLE DUPLICATE: 2697872

Parameter	Units	35434401001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	23400	24200	4	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

QC Batch: 501013 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35434831001, 35434831002

METHOD BLANK: 2708533 | Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	12/13/18 16:08	

LABORATORY CONTROL SAMPLE: 2708534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2708535 2708536

Parameter	Units	35434746004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	638	500	500	1120	1130	96	98	90-110	1	20	L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2708537 2708538

Parameter	Units	35434827001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5 I	50	50	49.2	49.5	89	90	90-110	1	20	J(M1)

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434831

QC Batch: 499319 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35434831001, 35434831002

METHOD BLANK: 2699924 | Matrix: Water
Associated Lab Samples: 35434831001, 35434831002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	12/07/18 11:26	

LABORATORY CONTROL SAMPLE: 2699925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 2699927

Parameter	Units	35434811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.030 I	2	1.8	89	90-110	J(M1)

MATRIX SPIKE SAMPLE: 2699929

Parameter	Units	35434937003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	2	1.8	91	90-110	

SAMPLE DUPLICATE: 2699926

Parameter	Units	35434811001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.030 I	0.036 I		20	

SAMPLE DUPLICATE: 2699928

Parameter	Units	35434937003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.025 U		20	

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REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Resource Recovery
Pace Project No.: 35434831

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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.

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35434831

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35434831001	**AC74602**	EPA 8011	499248	EPA 8011	499587
35434831002	**AC74603**	EPA 8011	499248	EPA 8011	499587
35434831001	**AC74602**	EPA 3010	500477	EPA 6010	500479
35434831002	**AC74603**	EPA 3010	500477	EPA 6010	500479
35434831001	**AC74602**	EPA 3010	500478	EPA 6020	500480
35434831002	**AC74603**	EPA 3010	500478	EPA 6020	500480
35434831001	**AC74602**	EPA 7470	499102	EPA 7470	499216
35434831002	**AC74603**	EPA 7470	499102	EPA 7470	499216
35434831001	**AC74602**	EPA 8260	500923		
35434831002	**AC74603**	EPA 8260	500923		
35434831001	**AC74602**	SM 2540C	498990		
35434831002	**AC74603**	SM 2540C	498990		
35434831001	**AC74602**	EPA 300.0	501013		
35434831002	**AC74603**	EPA 300.0	501013		
35434831001	**AC74602**	EPA 353.2	499319		
35434831002	**AC74603**	EPA 353.2	499319		

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

CHAIN OF CUSTODY RECORD

Page ___ of ___

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Condition of Contents:

FOR LAB USE ONLY

WO# : 35434831

35434831

1. Client: (Company or Individual) ENV Lab
Address:
City: State Zip Code

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

3. Client Project Name: RESOURCE RECOVERY

4. Sampled by: (Print) GREG TORREY

5. Sampled by: (Signature) [signature]

6. Shipping Method: COURIER

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. 13. Preservatives: N T S C
14. Containers: P V P P
15. Analyses Requested

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	Sample Time	10. Comp.	Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	No. of Containers	FE HG NA	APPENDIX I	NO3 NH3	Clic TDS					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74602	4mw 27	11-30-18	12:32		✓	GW					8	✓	✓	✓	✓						
2.	AC74603	4mw 3A	11-30-18	14:00		✓	GW					8	✓	✓	✓	✓						
3.																					Send to	
4.																					PACE	
5.																					12-5-18	
6.																						
7.																						
8.																						
9.																						
10.																						

Gul #170477691

17.	RELINQUISHED BY	DATE	TIME	18.	RECEIVED BY	DATE	TIME
1.	[signature]	11-30-18	14:46		[signature]	11-30-18	14:46
2.	[signature]	12-5-18	13:40		for pace	12-5-18	1340
3.	for pace	12-5-18	1510		[signature] PACE	12-5-18	1510
4.							

T202 3.6

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form Document No.: F-FL-C-007 rev. 13	Document Revised: May 30, 2018 Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35434831

Project Manager: PM: ADA **Due Date:** 12/19/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Labeled:
Delivered: 12/5/18
pH:

Thermometer Used: T-202 Date: 12-5-18 Time: 1510 Initials: MJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C	3.6 (Visual)	0.0 (Correction Factor)	3.6 (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: ☐ FedEx ☐ 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

December 17, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35434827

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project:	Resource Recovery
Pace Project No.:	35434827

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35434827

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35434827001	**AC74659**	Water	12/03/18 13:42	12/05/18 15:10

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Ormond Beach, FL 32174
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SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35434827

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35434827001	**AC74659**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	JDM	1	PASI-O
		EPA 353.2	JWH	1	PASI-O

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35434827

Sample: AC74659 **Lab ID: 35434827001** Collected: 12/03/18 13:42 Received: 12/05/18 15:10 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	**0.0062 U**	ug/L	0.019	0.0062	1	12/11/18 15:00	12/12/18 07:08	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	12/11/18 15:00	12/12/18 07:08	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/12/18 02:36	12/14/18 18:38	7440-38-2	
Barium	**4.4 I**	ug/L	10.0	0.84	1	12/12/18 02:36	12/14/18 18:38	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/12/18 02:36	12/14/18 18:38	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/12/18 02:36	12/14/18 18:38	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/12/18 02:36	12/14/18 18:38	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/12/18 02:36	12/14/18 18:38	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/12/18 02:36	12/14/18 18:38	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	12/12/18 02:36	12/14/18 18:38	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/12/18 02:36	12/14/18 18:38	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/12/18 02:36	12/14/18 18:38	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/12/18 02:36	12/14/18 18:38	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/12/18 02:36	12/14/18 18:38	7440-22-4	
Sodium	**2.4**	mg/L	2.0	0.27	1	12/12/18 02:36	12/14/18 18:38	7440-23-5	
Vanadium	**3.8 I**	ug/L	10.0	1.0	1	12/12/18 02:36	12/14/18 18:38	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/12/18 02:36	12/14/18 18:38	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	12/12/18 02:39	12/13/18 11:34	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/12/18 02:39	12/13/18 11:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/06/18 15:16	12/07/18 17:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/14/18 17:35	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/14/18 17:35	107-13-1	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		12/14/18 17:35	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/14/18 17:35	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/14/18 17:35	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/14/18 17:35	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/14/18 17:35	74-83-9	
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		12/14/18 17:35	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/14/18 17:35	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		12/14/18 17:35	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		12/14/18 17:35	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/14/18 17:35	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		12/14/18 17:35	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/14/18 17:35	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/14/18 17:35	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/14/18 17:35	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		12/14/18 17:35	95-50-1	

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

ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35434827

Sample: AC74659 **Lab ID: 35434827001** Collected: 12/03/18 13:42 Received: 12/05/18 15:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		12/14/18 17:35	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/14/18 17:35	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/14/18 17:35	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		12/14/18 17:35	107-06-2	
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/14/18 17:35	75-35-4	
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/14/18 17:35	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		12/14/18 17:35	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/14/18 17:35	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/14/18 17:35	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/14/18 17:35	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		12/14/18 17:35	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/14/18 17:35	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/14/18 17:35	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/14/18 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/14/18 17:35	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/14/18 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/14/18 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/14/18 17:35	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		12/14/18 17:35	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		12/14/18 17:35	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/14/18 17:35	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/14/18 17:35	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		12/14/18 17:35	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/14/18 17:35	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/14/18 17:35	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/14/18 17:35	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		12/14/18 17:35	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		12/14/18 17:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/14/18 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/14/18 17:35	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/14/18 17:35	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**63.0**	mg/L	5.0	5.0	1		12/06/18 15:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.5 I**	mg/L	5.0	2.5	1		12/13/18 23:53	16887-00-6	J(M1)
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.51**	mg/L	0.050	0.025	1		12/07/18 11:36		

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
Pace Project No.: 35434827

QC Batch: 499102
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 35434827001

METHOD BLANK: 2698261
Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/07/18 17:31	

LABORATORY CONTROL SAMPLE: 2698262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2698263 2698264

Parameter	Units	35433859001 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	105	75-125	0	20	

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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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

QC Batch: 500477 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35434827001

METHOD BLANK: 2706115 | Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1	U	10.0	7.1	12/14/18 18:33	
Barium	ug/L	0.84	U	10.0	0.84	12/14/18 18:33	
Beryllium	ug/L	1.6	U	4.0	1.6	12/14/18 18:33	
Cadmium	ug/L	0.33	U	1.0	0.33	12/14/18 18:33	
Chromium	ug/L	1.7	U	5.0	1.7	12/14/18 18:33	
Cobalt	ug/L	0.96	U	10.0	0.96	12/14/18 18:33	
Copper	ug/L	2.6	U	5.0	2.6	12/14/18 18:33	
Iron	ug/L	9.2	U	40.0	9.2	12/14/18 18:33	
Lead	ug/L	4.6	U	10.0	4.6	12/14/18 18:33	
Nickel	ug/L	2.1	U	5.0	2.1	12/14/18 18:33	
Selenium	ug/L	8.5	U	15.0	8.5	12/14/18 18:33	
Silver	ug/L	1.0	U	5.0	1.0	12/14/18 18:33	
Sodium	mg/L	0.27	U	2.0	0.27	12/14/18 18:33	
Vanadium	ug/L	1.0	U	10.0	1.0	12/14/18 18:33	
Zinc	ug/L	11.0	U	20.0	11.0	12/14/18 18:33	

LABORATORY CONTROL SAMPLE: 2706116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	224	89	80-120	
Barium	ug/L	250	239	96	80-120	
Beryllium	ug/L	25	22.7	91	80-120	
Cadmium	ug/L	25	24.0	96	80-120	
Chromium	ug/L	250	241	96	80-120	
Cobalt	ug/L	250	241	96	80-120	
Copper	ug/L	250	232	93	80-120	
Iron	ug/L	2500	2420	97	80-120	
Lead	ug/L	250	239	96	80-120	
Nickel	ug/L	250	241	96	80-120	
Selenium	ug/L	250	227	91	80-120	
Silver	ug/L	25	23.5	94	80-120	
Sodium	mg/L	12.5	11.9	95	80-120	
Vanadium	ug/L	250	238	95	80-120	
Zinc	ug/L	1250	1160	93	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2706117 2706118

Parameter	Units	35434827001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	221	228	88	91	75-125	3	20	
Barium	ug/L	4.4 I	250	250	243	247	96	97	75-125	2	20	
Beryllium	ug/L	1.6 U	25	25	22.8	23.3	91	93	75-125	2	20	
Cadmium	ug/L	0.33 U	25	25	23.8	24.2	95	97	75-125	2	20	
Chromium	ug/L	1.7 U	250	250	242	247	96	99	75-125	2	20	
Cobalt	ug/L	0.96 U	250	250	239	244	96	97	75-125	2	20	
Copper	ug/L	2.6 U	250	250	234	240	94	96	75-125	3	20	
Iron	ug/L	9.2 U	2500	2500	2430	2460	97	99	75-125	1	20	
Lead	ug/L	4.6 U	250	250	240	244	95	97	75-125	2	20	
Nickel	ug/L	2.1 U	250	250	240	244	96	98	75-125	2	20	
Selenium	ug/L	8.5 U	250	250	223	229	89	91	75-125	3	20	
Silver	ug/L	1.0 U	25	25	23.8	24.2	94	96	75-125	2	20	
Sodium	mg/L	2.4	12.5	12.5	14.5	14.7	97	99	75-125	1	20	
Vanadium	ug/L	3.8 I	250	250	244	249	96	98	75-125	2	20	
Zinc	ug/L	11.0 U	1250	1250	1150	1170	92	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

QC Batch: 500478 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35434827001

METHOD BLANK: 2706123 | Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/13/18 11:29	
Thallium	ug/L	0.50 U	1.0	0.50	12/13/18 11:29	

LABORATORY CONTROL SAMPLE: 2706124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.5	99	80-120	
Thallium	ug/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2706125 2706126

Parameter	Units	35434831001 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	50.1	51.1	100	102	75-125	2	20	
Thallium	ug/L	0.50 U	50	50	50.5	51.2	101	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

QC Batch: 501264 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35434827001

METHOD BLANK: 2710228 | Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	12/14/18 11:13	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/14/18 11:13	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	12/14/18 11:13	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/14/18 11:13	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	12/14/18 11:13	
1,1-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/14/18 11:13	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	12/14/18 11:13	
1,2-Dichlorobenzene	ug/L	0.29 U	1.0	0.29	12/14/18 11:13	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	12/14/18 11:13	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	12/14/18 11:13	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	12/14/18 11:13	
2-Butanone (MEK)	ug/L	7.5 U	10.0	7.5	12/14/18 11:13	
2-Hexanone	ug/L	0.85 U	10.0	0.85	12/14/18 11:13	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	12/14/18 11:13	
Acetone	ug/L	5.3 U	20.0	5.3	12/14/18 11:13	
Acrylonitrile	ug/L	3.7 U	10.0	3.7	12/14/18 11:13	
Benzene	ug/L	0.30 U	1.0	0.30	12/14/18 11:13	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	12/14/18 11:13	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	12/14/18 11:13	
Bromoform	ug/L	2.6 U	3.0	2.6	12/14/18 11:13	
Bromomethane	ug/L	4.0 U	5.0	4.0	12/14/18 11:13	
Carbon disulfide	ug/L	0.45 U	10.0	0.45	12/14/18 11:13	
Carbon tetrachloride	ug/L	1.1 U	3.0	1.1	12/14/18 11:13	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	12/14/18 11:13	
Chloroethane	ug/L	3.7 U	10.0	3.7	12/14/18 11:13	
Chloroform	ug/L	0.32 U	1.0	0.32	12/14/18 11:13	
Chloromethane	ug/L	0.97 U	1.0	0.97	12/14/18 11:13	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/14/18 11:13	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/14/18 11:13	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	12/14/18 11:13	
Dibromomethane	ug/L	0.68 U	2.0	0.68	12/14/18 11:13	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	12/14/18 11:13	
Iodomethane	ug/L	9.3 U	10.0	9.3	12/14/18 11:13	
Methylene Chloride	ug/L	2.0 U	5.0	2.0	12/14/18 11:13	
Styrene	ug/L	0.26 U	1.0	0.26	12/14/18 11:13	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	12/14/18 11:13	
Toluene	ug/L	0.33 U	1.0	0.33	12/14/18 11:13	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	12/14/18 11:13	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/14/18 11:13	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	12/14/18 11:13	
Trichloroethene	ug/L	0.36 U	1.0	0.36	12/14/18 11:13	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

METHOD BLANK: 2710228 Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	12/14/18 11:13	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	12/14/18 11:13	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	12/14/18 11:13	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	12/14/18 11:13	
1,2-Dichloroethane-d4 (S)	%	105	70-130		12/14/18 11:13	
4-Bromofluorobenzene (S)	%	96	70-130		12/14/18 11:13	
Toluene-d8 (S)	%	102	70-130		12/14/18 11:13	

LABORATORY CONTROL SAMPLE: 2710229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.5	87	70-130	
1,1,1-Trichloroethane	ug/L	20	20.5	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.3	101	68-125	
1,1,2-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	20	21.0	105	70-130	
1,1-Dichloroethene	ug/L	20	22.6	113	66-133	
1,2,3-Trichloropropane	ug/L	20	22.1	110	62-127	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	21.3	106	70-130	
1,2-Dichloropropane	ug/L	20	21.2	106	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	40	27.4	69	47-143	
2-Hexanone	ug/L	40	30.0	75	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	31.1	78	57-132	
Acetone	ug/L	40	33.6	84	46-148	
Acrylonitrile	ug/L	200	187	93	60-143	
Benzene	ug/L	20	21.5	108	70-130	
Bromochloromethane	ug/L	20	20.7	103	70-130	
Bromodichloromethane	ug/L	20	17.5	87	70-130	
Bromoform	ug/L	20	11.6	58	49-126	
Bromomethane	ug/L	20	27.3	137	10-165	
Carbon disulfide	ug/L	20	19.7	99	60-141	
Carbon tetrachloride	ug/L	20	16.8	84	63-126	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	23.6	118	71-142	
Chloroform	ug/L	20	20.3	101	70-130	
Chloromethane	ug/L	20	22.5	112	40-140	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	15.4	77	62-118	
Dibromomethane	ug/L	20	20.5	103	70-130	
Ethylbenzene	ug/L	20	20.3	102	70-130	
Iodomethane	ug/L	40	30.4	76	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

LABORATORY CONTROL SAMPLE: 2710229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	22.5	112	65-136	
Styrene	ug/L	20	19.9	99	70-130	
Tetrachloroethene	ug/L	20	20.7	103	64-134	
Toluene	ug/L	20	21.3	107	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.1	106	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.7	89	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	12.4	62	42-129	
Trichloroethene	ug/L	20	20.6	103	70-130	
Trichlorofluoromethane	ug/L	20	23.9	119	65-135	
Vinyl acetate	ug/L	20	17.6	88	60-144	
Vinyl chloride	ug/L	20	19.3	97	68-131	
Xylene (Total)	ug/L	60	61.3	102	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2710569

Parameter	Units	35434371004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	14.2	71	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	17.4	87	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	17.3	87	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	17.9	89	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	18.7	94	70-130	
1,1-Dichloroethene	ug/L	0.27 U	20	21.1	106	66-133	
1,2,3-Trichloropropane	ug/L	1.1 U	20	19.0	95	62-127	
1,2-Dichlorobenzene	ug/L	0.29 U	20	16.3	82	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	17.9	88	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	18.1	91	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	16.2	81	70-130	
2-Butanone (MEK)	ug/L	7.5 U	40	28.1	70	47-143	
2-Hexanone	ug/L	0.85 U	40	27.3	68	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	29.8	75	57-132	
Acetone	ug/L	5.3 U	40	31.8	75	46-148	
Acrylonitrile	ug/L	3.7 U	200	135	67	60-143	
Benzene	ug/L	0.30 U	20	18.7	94	70-130	
Bromochloromethane	ug/L	0.37 U	20	18.5	92	70-130	
Bromodichloromethane	ug/L	0.19 U	20	13.7	68	70-130	J(M1)
Bromoform	ug/L	2.6 U	20	8.7	44	49-126	J(M1)
Bromomethane	ug/L	4.0 U	20	16.7	84	10-165	
Carbon disulfide	ug/L	0.45 U	20	19.9	100	60-141	
Carbon tetrachloride	ug/L	1.1 U	20	13.4	67	63-126	
Chlorobenzene	ug/L	0.35 U	20	17.8	89	70-130	
Chloroethane	ug/L	3.7 U	20	27.2	136	71-142	
Chloroform	ug/L	0.32 U	20	18.0	90	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

MATRIX SPIKE SAMPLE: 2710569

Parameter	Units	35434371004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.97 U	20	22.7	114	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	18.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	14.5	73	70-130	
Dibromochloromethane	ug/L	0.45 U	20	12.0	60	62-118	J(M1)
Dibromomethane	ug/L	0.68 U	20	17.7	89	70-130	
Ethylbenzene	ug/L	0.30 U	20	17.6	88	70-130	
Iodomethane	ug/L	9.3 U	40	20.1	50	10-164	
Methylene Chloride	ug/L	2.0 U	20	19.6	98	65-136	
Styrene	ug/L	0.26 U	20	16.2	81	70-130	
Tetrachloroethene	ug/L	0.38 U	20	16.1	80	64-134	
Toluene	ug/L	0.33 U	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	17.2	86	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	13.9	70	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	11.6	58	42-129	
Trichloroethene	ug/L	0.36 U	20	17.6	88	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	26.0	130	65-135	
Vinyl acetate	ug/L	0.19 U	20	14.3	71	60-144	
Vinyl chloride	ug/L	0.39 U	20	20.4	102	68-131	
Xylene (Total)	ug/L	2.1 U	60	51.2	85	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2710568

Parameter	Units	35434371003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.27 U	0.27 U		40	
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 U		40	
1,2-Dichlorobenzene	ug/L	0.29 U	0.29 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	7.5 U	7.5 U		40	
2-Hexanone	ug/L	0.85 U	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	
Acetone	ug/L	5.3 U	5.3 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

SAMPLE DUPLICATE: 2710568

Parameter	Units	35434371003 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	2.6 U	2.6 U		40	
Bromomethane	ug/L	4.0 U	4.0 U		40	
Carbon disulfide	ug/L	0.45 U	0.45 U		40	
Carbon tetrachloride	ug/L	1.1 U	1.1 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.32 U	0.32 U		40	
Chloromethane	ug/L	0.97 U	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichloroethane-d4 (S)	%	107	108	0	40	
4-Bromofluorobenzene (S)	%	97	96	0	40	
Toluene-d8 (S)	%	103	103	0	40	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

QC Batch: 500057 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35434827001

METHOD BLANK: 2703863 | Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/12/18 01:24	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/12/18 01:24	

LABORATORY CONTROL SAMPLE: 2703864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.27	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	102	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2704109 2704110

Parameter	Units	35434583001 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	0.44	0.44	0.48	0.48	110	109	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0071 U	0.44	0.44	0.46	0.46	104	106	60-140	1	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
Pace Project No.: 35434827

QC Batch: 498990 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35434827001

METHOD BLANK: 2697869 | Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	12/06/18 15:01	

LABORATORY CONTROL SAMPLE: 2697870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	90-110	

SAMPLE DUPLICATE: 2697871

Parameter	Units	35434831001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	337	336	0	5	

SAMPLE DUPLICATE: 2697872

Parameter	Units	35434401001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	23400	24200	4	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

QC Batch: 501013 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35434827001

METHOD BLANK: 2708533 | Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	12/13/18 16:08	

LABORATORY CONTROL SAMPLE: 2708534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2708535 2708536

Parameter	Units	35434746004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	638	500	500	1120	1130	96	98	90-110	1	20	L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2708537 2708538

Parameter	Units	35434827001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5 I	50	50	49.2	49.5	89	90	90-110	1	20	J(M1)

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35434827

QC Batch: 499319 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35434827001

METHOD BLANK: 2699924 | Matrix: Water
Associated Lab Samples: 35434827001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	12/07/18 11:26	

LABORATORY CONTROL SAMPLE: 2699925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 2699927

Parameter	Units	35434811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.030 I	2	1.8	89	90-110	J(M1)

MATRIX SPIKE SAMPLE: 2699929

Parameter	Units	35434937003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	2	1.8	91	90-110	

SAMPLE DUPLICATE: 2699926

Parameter	Units	35434811001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.030 I	0.036 I		20	

SAMPLE DUPLICATE: 2699928

Parameter	Units	35434937003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.025 U		20	

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QUALIFIERS

Project: Resource Recovery
Pace Project No.: 35434827

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35434827

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35434827001	**AC74659**	EPA 8011	500057	EPA 8011	500383
35434827001	**AC74659**	EPA 3010	500477	EPA 6010	500479
35434827001	**AC74659**	EPA 3010	500478	EPA 6020	500480
35434827001	**AC74659**	EPA 7470	499102	EPA 7470	499216
35434827001	**AC74659**	EPA 8260	501264		
35434827001	**AC74659**	SM 2540C	498990		
35434827001	**AC74659**	EPA 300.0	501013		
35434827001	**AC74659**	EPA 353.2	499319		

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Pas[illegible] 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

WO# : 35434827

35434827

FOR LAB USE ONLY
Temp. of Contents: 19.8 ° C (or Received on Ice, ROI)
Condition of Contents:

1. Client: (Company or Individual) ENV LAB
Address:
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: RESOURCE RECOVERY

4. Sampled by: (Print) GREG TORREY

5. Sampled by: (Signature) [signature]

6. Shipping Method: COURIER

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 T S C
14. Containers: P V P P

15. Analyses Requested

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	FE HG NA	APPENDIX I	NO3 NH3	CLIC TDS					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74659	4MW6	12-3-18	13:42		✓	GW					8	✓	✓	✓	✓						
2.																						
3.																					Send to	
4.																					PACE	
5.																					12-5-18	
6.																						
7.																						
8.																						
9.																						
10.																						

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

17.	RELINQUISHED BY	DATE	TIME	18.	RECEIVED BY	DATE	TIME
1.	[signature]	12-3-18	14:35		[signature]	12-5-18	14:35
2.	[signature]	12-5-18	13:40		for pace [illegible]	12-5-18	1340
3.	for pace	12-5-18	1510		[illegible] / PACE	12-5-18	1510
4.							

IRGun 1704777691

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form Document No.: F-FL-C-007 rev. 13	Document Revised: May 30, 2018 Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

WO# : 35434827

Project #

Project Manager: PM: ADA Due Date: 12-19-18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Labeled:
Delivered:
pH:

Thermometer Used: T-202 Date: 12-5-18 Time: 1510 Initials: MJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

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: ☐ FedEx ☐ 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

December 21, 2018

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

RE: Project: Resource Recovery
Pace Project No.: 35435576

Dear Ms. Mulhern:
Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 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,

Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Allan Biddlecomb, Pasco County Public Infrastructure

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

CERTIFICATIONS

Project:	Resource Recovery
Pace Project No.:	35435576

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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SAMPLE SUMMARY

Project: Resource Recovery
Pace Project No.: 35435576

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35435576001	**AC74834**	Water	12/06/18 14:50	12/07/18 16:47

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Ormond Beach, FL 32174
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SAMPLE ANALYTE COUNT

Project: Resource Recovery
Pace Project No.: 35435576

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35435576001	**AC74834**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	KPP	2	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	ALD	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	AMP	1	PASI-O

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35435576

Sample: AC74834 **Lab ID: 35435576001** Collected: 12/06/18 14:50 Received: 12/07/18 16:47 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	12/11/18 15:00	12/12/18 07:39	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0097	0.0072	1	12/11/18 15:00	12/12/18 07:39	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	12/20/18 08:08	12/20/18 20:24	7440-38-2	
Barium	**10.8**	ug/L	10.0	0.84	1	12/20/18 08:08	12/20/18 20:24	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	12/20/18 08:08	12/20/18 20:24	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	12/20/18 08:08	12/20/18 20:24	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	12/20/18 08:08	12/20/18 20:24	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	12/20/18 08:08	12/20/18 20:24	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	12/20/18 08:08	12/20/18 20:24	7440-50-8	
Iron	**69.2**	ug/L	40.0	9.2	1	12/20/18 08:08	12/20/18 20:24	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	12/20/18 08:08	12/20/18 20:24	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	12/20/18 08:08	12/20/18 20:24	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	12/20/18 08:08	12/20/18 20:24	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	12/20/18 08:08	12/20/18 20:24	7440-22-4	
Sodium	**3.0**	mg/L	2.0	0.27	1	12/20/18 08:08	12/20/18 20:24	7440-23-5	
Vanadium	**1.3 I**	ug/L	10.0	1.0	1	12/20/18 08:08	12/20/18 20:24	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	12/20/18 08:08	12/20/18 20:24	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	12/20/18 08:05	12/21/18 14:54	7440-36-0	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	12/20/18 08:05	12/21/18 14:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/12/18 09:59	12/13/18 16:05	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		12/18/18 13:40	67-64-1	
Acrylonitrile	**3.7 U**	ug/L	10.0	3.7	1		12/18/18 13:40	107-13-1	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		12/18/18 13:40	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		12/18/18 13:40	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		12/18/18 13:40	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		12/18/18 13:40	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		12/18/18 13:40	74-83-9	
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		12/18/18 13:40	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		12/18/18 13:40	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		12/18/18 13:40	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		12/18/18 13:40	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		12/18/18 13:40	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		12/18/18 13:40	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		12/18/18 13:40	74-87-3	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		12/18/18 13:40	124-48-1	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		12/18/18 13:40	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		12/18/18 13:40	95-50-1	

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ANALYTICAL RESULTS

Project: Resource Recovery
Pace Project No.: 35435576

Sample: AC74834 **Lab ID: 35435576001** Collected: 12/06/18 14:50 Received: 12/07/18 16:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		12/18/18 13:40	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		12/18/18 13:40	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		12/18/18 13:40	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		12/18/18 13:40	107-06-2	
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/18/18 13:40	75-35-4	
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		12/18/18 13:40	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		12/18/18 13:40	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		12/18/18 13:40	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/18/18 13:40	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		12/18/18 13:40	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		12/18/18 13:40	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		12/18/18 13:40	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		12/18/18 13:40	74-88-4	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		12/18/18 13:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		12/18/18 13:40	108-10-1	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		12/18/18 13:40	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		12/18/18 13:40	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		12/18/18 13:40	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		12/18/18 13:40	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		12/18/18 13:40	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/18/18 13:40	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		12/18/18 13:40	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		12/18/18 13:40	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		12/18/18 13:40	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		12/18/18 13:40	96-18-4	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		12/18/18 13:40	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		12/18/18 13:40	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		12/18/18 13:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/18/18 13:40	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/18/18 13:40	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/18/18 13:40	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**123**	mg/L	5.0	5.0	1		12/11/18 15:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.9 I**	mg/L	5.0	2.5	1		12/18/18 12:42	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.25**	mg/L	0.050	0.035	1		12/12/18 19:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		12/11/18 16:05		

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 500564 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35435576001

METHOD BLANK: 2706447 | Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/13/18 15:37	

LABORATORY CONTROL SAMPLE: 2706448

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: 2706449 2706450

Parameter	Units	35435496001 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	2.0	98	98	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 502744 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35435576001

METHOD BLANK: 2717791 | Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1	U	10.0	7.1	12/20/18 20:19	
Barium	ug/L	0.84	U	10.0	0.84	12/20/18 20:19	
Beryllium	ug/L	1.6	U	4.0	1.6	12/20/18 20:19	
Cadmium	ug/L	0.33	U	1.0	0.33	12/20/18 20:19	
Chromium	ug/L	1.7	U	5.0	1.7	12/20/18 20:19	
Cobalt	ug/L	0.96	U	10.0	0.96	12/20/18 20:19	
Copper	ug/L	2.6	U	5.0	2.6	12/20/18 20:19	
Iron	ug/L	9.2	U	40.0	9.2	12/20/18 20:19	
Lead	ug/L	4.6	U	10.0	4.6	12/20/18 20:19	
Nickel	ug/L	2.1	U	5.0	2.1	12/20/18 20:19	
Selenium	ug/L	8.5	U	15.0	8.5	12/20/18 20:19	
Silver	ug/L	1.0	U	5.0	1.0	12/20/18 20:19	
Sodium	mg/L	0.27	U	2.0	0.27	12/20/18 20:19	
Vanadium	ug/L	1.0	U	10.0	1.0	12/20/18 20:19	
Zinc	ug/L	11.0	U	20.0	11.0	12/20/18 20:19	

LABORATORY CONTROL SAMPLE: 2717792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	240	96	80-120	
Barium	ug/L	250	252	101	80-120	
Beryllium	ug/L	25	25.2	101	80-120	
Cadmium	ug/L	25	24.9	100	80-120	
Chromium	ug/L	250	252	101	80-120	
Cobalt	ug/L	250	250	100	80-120	
Copper	ug/L	250	245	98	80-120	
Iron	ug/L	2500	2530	101	80-120	
Lead	ug/L	250	250	100	80-120	
Nickel	ug/L	250	253	101	80-120	
Selenium	ug/L	250	251	101	80-120	
Silver	ug/L	25	23.6	94	80-120	
Sodium	mg/L	12.5	12.0	96	80-120	
Vanadium	ug/L	250	248	99	80-120	
Zinc	ug/L	1250	1260	101	80-120	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2717793 2717794

Parameter	Units	35435576001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	7.1 U	250	250	239	243	95	97	75-125	2	20	
Barium	ug/L	10.8	250	250	261	261	100	100	75-125	0	20	
Beryllium	ug/L	1.6 U	25	25	25.4	25.5	101	102	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	24.6	24.7	98	98	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	253	253	101	101	75-125	0	20	
Cobalt	ug/L	0.96 U	250	250	249	250	99	100	75-125	0	20	
Copper	ug/L	2.6 U	250	250	247	248	99	99	75-125	0	20	
Iron	ug/L	69.2	2500	2500	2600	2600	101	101	75-125	0	20	
Lead	ug/L	4.6 U	250	250	250	249	99	99	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	252	252	101	101	75-125	0	20	
Selenium	ug/L	8.5 U	250	250	251	252	100	101	75-125	0	20	
Silver	ug/L	1.0 U	25	25	23.7	23.6	95	95	75-125	0	20	
Sodium	mg/L	3.0	12.5	12.5	15.2	15.1	98	97	75-125	0	20	
Vanadium	ug/L	1.3 I	250	250	250	251	100	100	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1240	1250	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 502743 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35435576001

METHOD BLANK: 2717787 | Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/21/18 14:45	
Thallium	ug/L	0.50 U	1.0	0.50	12/21/18 14:45	

LABORATORY CONTROL SAMPLE: 2717788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.3	101	80-120	
Thallium	ug/L	50	49.3	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2717789 2717790

Parameter	Units	35436049001 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	49.7	50.3	99	100	75-125	1	20	
Thallium	ug/L	0.50 U	50	50	49.5	50.4	99	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 502116 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35435576001

METHOD BLANK: 2714264 | Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	12/18/18 11:16	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/18/18 11:16	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	12/18/18 11:16	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/18/18 11:16	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	12/18/18 11:16	
1,1-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/18/18 11:16	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	12/18/18 11:16	
1,2-Dichlorobenzene	ug/L	0.29 U	1.0	0.29	12/18/18 11:16	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	12/18/18 11:16	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	12/18/18 11:16	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	12/18/18 11:16	
2-Butanone (MEK)	ug/L	7.5 U	10.0	7.5	12/18/18 11:16	
2-Hexanone	ug/L	0.85 U	10.0	0.85	12/18/18 11:16	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	12/18/18 11:16	
Acetone	ug/L	5.3 U	20.0	5.3	12/18/18 11:16	
Acrylonitrile	ug/L	3.7 U	10.0	3.7	12/18/18 11:16	
Benzene	ug/L	0.30 U	1.0	0.30	12/18/18 11:16	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	12/18/18 11:16	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	12/18/18 11:16	
Bromoform	ug/L	2.6 U	3.0	2.6	12/18/18 11:16	
Bromomethane	ug/L	4.0 U	5.0	4.0	12/18/18 11:16	
Carbon disulfide	ug/L	0.45 U	10.0	0.45	12/18/18 11:16	
Carbon tetrachloride	ug/L	1.1 U	3.0	1.1	12/18/18 11:16	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	12/18/18 11:16	
Chloroethane	ug/L	3.7 U	10.0	3.7	12/18/18 11:16	
Chloroform	ug/L	0.32 U	1.0	0.32	12/18/18 11:16	
Chloromethane	ug/L	0.97 U	1.0	0.97	12/18/18 11:16	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/18/18 11:16	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/18/18 11:16	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	12/18/18 11:16	
Dibromomethane	ug/L	0.68 U	2.0	0.68	12/18/18 11:16	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	12/18/18 11:16	
Iodomethane	ug/L	9.3 U	10.0	9.3	12/18/18 11:16	
Methylene Chloride	ug/L	2.0 U	5.0	2.0	12/18/18 11:16	
Styrene	ug/L	0.26 U	1.0	0.26	12/18/18 11:16	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	12/18/18 11:16	
Toluene	ug/L	0.33 U	1.0	0.33	12/18/18 11:16	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	12/18/18 11:16	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	12/18/18 11:16	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	12/18/18 11:16	
Trichloroethene	ug/L	0.36 U	1.0	0.36	12/18/18 11:16	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

METHOD BLANK: 2714264 Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	12/18/18 11:16	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	12/18/18 11:16	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	12/18/18 11:16	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	12/18/18 11:16	
1,2-Dichloroethane-d4 (S)	%	101	70-130		12/18/18 11:16	
4-Bromofluorobenzene (S)	%	99	70-130		12/18/18 11:16	
Toluene-d8 (S)	%	99	70-130		12/18/18 11:16	

LABORATORY CONTROL SAMPLE: 2714265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.8	84	70-130	
1,1,1-Trichloroethane	ug/L	20	17.2	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	68-125	
1,1,2-Trichloroethane	ug/L	20	20.5	103	70-130	
1,1-Dichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethene	ug/L	20	21.3	107	66-133	
1,2,3-Trichloropropane	ug/L	20	21.6	108	62-127	
1,2-Dichlorobenzene	ug/L	20	19.5	98	70-130	
1,2-Dichloroethane	ug/L	20	18.5	93	70-130	
1,2-Dichloropropane	ug/L	20	18.5	93	70-130	
1,4-Dichlorobenzene	ug/L	20	19.7	99	70-130	
2-Butanone (MEK)	ug/L	40	37.9	95	47-143	
2-Hexanone	ug/L	40	38.3	96	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	39.9	100	57-132	
Acetone	ug/L	40	44.8	112	46-148	
Acrylonitrile	ug/L	200	171	85	60-143	
Benzene	ug/L	20	19.0	95	70-130	
Bromochloromethane	ug/L	20	19.2	96	70-130	
Bromodichloromethane	ug/L	20	14.4	72	70-130	
Bromoform	ug/L	20	11.0	55	49-126	
Bromomethane	ug/L	20	10.5	53	10-165	
Carbon disulfide	ug/L	20	23.1	116	60-141	
Carbon tetrachloride	ug/L	20	13.5	67	63-126	
Chlorobenzene	ug/L	20	20.2	101	70-130	
Chloroethane	ug/L	20	23.6	118	71-142	
Chloroform	ug/L	20	18.0	90	70-130	
Chloromethane	ug/L	20	15.3	76	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	15.4	77	70-130	
Dibromochloromethane	ug/L	20	14.5	73	62-118	
Dibromomethane	ug/L	20	19.3	97	70-130	
Ethylbenzene	ug/L	20	19.8	99	70-130	
Iodomethane	ug/L	40	20.5	51	10-164	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

LABORATORY CONTROL SAMPLE: 2714265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.4	97	65-136	
Styrene	ug/L	20	19.7	99	70-130	
Tetrachloroethene	ug/L	20	22.0	110	64-134	
Toluene	ug/L	20	20.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.9	84	68-127	
trans-1,3-Dichloropropene	ug/L	20	15.5	78	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	11.5	57	42-129	
Trichloroethene	ug/L	20	19.1	96	70-130	
Trichlorofluoromethane	ug/L	20	25.8	129	65-135	
Vinyl acetate	ug/L	20	19.7	99	60-144	
Vinyl chloride	ug/L	20	18.7	93	68-131	
Xylene (Total)	ug/L	60	60.1	100	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 2714305

Parameter	Units	35436824005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	13.2	66	70-130	J(M1)
1,1,1-Trichloroethane	ug/L	0.30 U	20	14.9	75	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	17.1	86	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	17.6	88	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	16.3	81	70-130	
1,1-Dichloroethene	ug/L	0.27 U	20	19.8	99	66-133	
1,2,3-Trichloropropane	ug/L	1.1 U	20	18.9	94	62-127	
1,2-Dichlorobenzene	ug/L	0.29 U	20	15.6	78	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	16.5	81	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	16.1	80	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	15.5	78	70-130	
2-Butanone (MEK)	ug/L	7.5 U	40	31.0	78	47-143	
2-Hexanone	ug/L	0.85 U	40	33.0	82	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	37.0	93	57-132	
Acetone	ug/L	5.3 U	40	40.6	92	46-148	
Acrylonitrile	ug/L	3.7 U	200	194	97	60-143	
Benzene	ug/L	0.30 U	20	16.8	84	70-130	
Bromochloromethane	ug/L	0.37 U	20	17.1	85	70-130	
Bromodichloromethane	ug/L	0.19 U	20	11.7	59	70-130	J(M1)
Bromoform	ug/L	2.6 U	20	7.9	39	49-126	J(M1)
Bromomethane	ug/L	4.0 U	20	9.9	49	10-165	
Carbon disulfide	ug/L	0.45 U	20	22.3	111	60-141	
Carbon tetrachloride	ug/L	1.1 U	20	11.3	57	63-126	J(M1)
Chlorobenzene	ug/L	0.35 U	20	16.7	83	70-130	
Chloroethane	ug/L	3.7 U	20	29.9	149	71-142	J(M1)
Chloroform	ug/L	0.32 U	20	15.8	79	70-130	

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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
Pace Project No.: 35435576

MATRIX SPIKE SAMPLE: 2714305

Parameter	Units	35436824005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.97 U	20	16.5	83	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	15.8	79	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	12.0	60	70-130	J(M1)
Dibromochloromethane	ug/L	0.45 U	20	10.9	54	62-118	J(M1)
Dibromomethane	ug/L	0.68 U	20	16.0	80	70-130	
Ethylbenzene	ug/L	0.30 U	20	16.6	83	70-130	
Iodomethane	ug/L	9.3 U	40	10.2	25	10-164	
Methylene Chloride	ug/L	2.0 U	20	17.0	85	65-136	
Styrene	ug/L	0.26 U	20	15.6	78	70-130	
Tetrachloroethene	ug/L	0.38 U	20	15.2	76	64-134	
Toluene	ug/L	0.33 U	20	17.6	88	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	15.7	78	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	12.0	60	65-121	J(M1)
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	9.2 I	46	42-129	
Trichloroethene	ug/L	0.36 U	20	16.0	80	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	30.1	150	65-135	J(M1)
Vinyl acetate	ug/L	0.19 U	20	16.8	84	60-144	
Vinyl chloride	ug/L	0.39 U	20	21.2	106	68-131	
Xylene (Total)	ug/L	2.1 U	60	48.9	81	70-130	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2714304

Parameter	Units	35436824004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.27 U	0.27 U		40	
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 U		40	
1,2-Dichlorobenzene	ug/L	0.29 U	0.29 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	7.5 U	7.5 U		40	
2-Hexanone	ug/L	0.85 U	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	
Acetone	ug/L	5.3 U	6.2 I		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 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
Pace Project No.: 35435576

SAMPLE DUPLICATE: 2714304

Parameter	Units	35436824004 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	2.6 U	2.6 U		40	
Bromomethane	ug/L	4.0 U	4.0 U		40	
Carbon disulfide	ug/L	0.45 U	0.45 U		40	
Carbon tetrachloride	ug/L	1.1 U	1.1 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.32 U	0.32 U		40	
Chloromethane	ug/L	0.97 U	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichloroethane-d4 (S)	%	101	101	0	40	
4-Bromofluorobenzene (S)	%	97	97	1	40	
Toluene-d8 (S)	%	99	98	1	40	

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 500057 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35435576001

METHOD BLANK: 2703863 | Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/12/18 01:24	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/12/18 01:24	

LABORATORY CONTROL SAMPLE: 2703864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.27	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	102	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2704109 2704110

Parameter	Units	35434583001 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	0.44	0.44	0.48	0.48	110	109	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0071 U	0.44	0.44	0.46	0.46	104	106	60-140	1	40	

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 500151
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35435576001

METHOD BLANK: 2704186
Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	12/11/18 15:36	

LABORATORY CONTROL SAMPLE: 2704187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	294	98	90-110	

SAMPLE DUPLICATE: 2704188

Parameter	Units	35435374001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	168	162	4	5	

SAMPLE DUPLICATE: 2704189

Parameter	Units	35435496006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	302	307	2	5	

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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 502051 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35435576001

METHOD BLANK: 2713994 | Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	12/18/18 08:40	

LABORATORY CONTROL SAMPLE: 2713995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2713996 2713997

Parameter	Units	35435354001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2740	2500	2500	5460	5590	109	114	90-110	2	20	L,M6

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 500744
QC Batch Method: EPA 350.1
Associated Lab Samples: 35435576001

Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia

METHOD BLANK: 2707234
Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	12/12/18 18:57	

LABORATORY CONTROL SAMPLE: 2707235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2707237

Parameter	Units	35435497002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.73	1	1.7	98	90-110	

SAMPLE DUPLICATE: 2707236

Parameter	Units	35435497002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.73	0.73	0	20	

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Resource Recovery
Pace Project No.: 35435576

QC Batch: 500308 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35435576001

METHOD BLANK: 2705047 | Matrix: Water
Associated Lab Samples: 35435576001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	12/11/18 15:51	

LABORATORY CONTROL SAMPLE: 2705048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 2705050

Parameter	Units	35435514001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	2	1.7	83	90-110	J(M1)

MATRIX SPIKE SAMPLE: 2705052

Parameter	Units	35435687001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.84	2	2.6	87	90-110	J(M1)

SAMPLE DUPLICATE: 2705049

Parameter	Units	35435514001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2705051

Parameter	Units	35435687001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.84	0.84	0	20	

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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
Pace Project No.: 35435576

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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
PASI-Tp	Pace Analytical Services - Tampa

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.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery
Pace Project No.: 35435576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35435576001	**AC74834**	EPA 8011	500057	EPA 8011	500383
35435576001	**AC74834**	EPA 3010	502744	EPA 6010	502901
35435576001	**AC74834**	EPA 3010	502743	EPA 6020	502899
35435576001	**AC74834**	EPA 7470	500564	EPA 7470	500660
35435576001	**AC74834**	EPA 8260	502116		
35435576001	**AC74834**	SM 2540C	500151		
35435576001	**AC74834**	EPA 300.0	502051		
35435576001	**AC74834**	EPA 350.1	500744		
35435576001	**AC74834**	EPA 353.2	500308		

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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: 12.9 ° C (or Received on Ice, ROI)
Condition of Contents:

FOR LAB USE ONLY
LOG IN NO

WO# : 35435576

35435576

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

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

3. Client Project Name: RESOURCE RECOVERY

4. Sampled by: (Print) GREG TORRY

5. Sampled by: (Signature)

6. Shipping Method: COURIER

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	Sample Time	10. Comp.	Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	12. No. of Containers	13. Preservatives	14. Containers	15. FEHG NA	NO3 NH3	Clic TDS	APPENDIX I					16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.	AC74834	4MW 27D	12-6-18	17:02		✓	GW					8	✓	✓	✓	✓								
2.																								
3.																								
4.																								
5.																								
6.																								
7.																								
8.																								
9.																								
10.																								

17.	RELINQUISHED BY	DATE	TIME	18.	RECEIVED BY	DATE	TIME
1.	[signature]	12-6-18	17:30		[signature]	12-6-18	17:30
2.	[signature]	12-7-18	0810		[signature]	12-7-18	0810
3.	[signature]	12-7-18	1450		UNC ONW / PALE	12-7-18	1450
4.					T202 0.7		

IR# 170477691

PC 4/15/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

SCUR)

WO#: 35435576

Project #

Project Manager: PM: ADA Due Date: 12/21/18

Client: CLIENT: PASCOU

Date and Initials of person:
Examining contents: DS
Label: 12/7/18
Deliver:
pH:

Thermometer Used: T-202 Date: 12-7-18 Time: 1450 Initials: MJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 0.7	(Visual) 0.0	(Correction Factor) 0.7	(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:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	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:

2018 QTR IV FIELD SHEETS.xlsx

Well Data						Field Analysis							Labworks	Lab Analysis						
WELL I.D.	DATE	SAMPLE TIME 24hr.	T.O.P. ELEV. (ft)	STATIC WATER LEVEL (ft)	N.G.V.D (ft)	pH (S.U.)	TEMP (°C)	COND (µS/cm)	D.O. (mg/L)	TURB (NTU)	Color (Observed)	Analyst	LIMS ID	CL⁻(mg/L)	TDS (mg/L)	NH3-N (mg/L)	NO3 (mg/L)	Fe (µg/L)	Hg (µg/L)	Na+ (µg/L)
2MW1	20-Nov	844	49.95	15.7	34.25			well went dry												
2MW2	29-Nov	1252	56.41	20.3	36.11	22.70	23.27	94	4.66	2.5	clear	GT	ac74545							
2MW3	14-Nov	930	50.01	dry	dry															
2MW4	14-Nov	940	54.77	dry	dry															
2MW5	14-Nov	950	49.17	dry	dry															
2MW6	14-Nov	1000	56.11	dry	dry															
2MW7	14-Nov	1010	52.75	dry	dry															
2MW8	14-Nov	1015	51.97	dry	dry															
2MW9	14-Nov	1030	52.29	dry	dry															
2MW10	14-Nov	1040	52.63	dry	dry															
2MW13D	8-Nov	900	54.04	dry	dry															
2MW15AD	6-Nov	941	54.71	20.13	34.58	7.33	25.11	302	2.98	3.5	cloudy	GT	AC73779							
2MW17S	6-Nov	1035	53.42	24.33	29.09	6.13	26.45	346	5.63	4.0	cloudy	GT	AC73780							
2MW18D	6-Nov	1322	52.75	23.83	28.92	7.06	24.42	493	2.01	4.4	cloudy	GT	AC73781							
2MW19D	6-Nov	1423	52.25	23.83	28.42	7.09	24.90	455	3.05	3.8	cloudy	GT	AC73782							
2MW24D	7-Nov	946	50.55	34.97	15.58	7.09	25.99	540	2.35	19.7	cloudy	GT	ac73853							
2MW24S	7-Nov	913	50.37	18.85	31.52	6.51	26.77	445	4.22	207.0	cloudy	GT	ac73852							
2MW25D	7-Nov	1101	47.87	16.28	31.59	7.06	27.35	694	3.42	16.6	clear	GT	ac73854							
2MW25S	7-Nov	1110	47.84	dry	dry	dry														
2MW26D	7-Nov	1345	54.13	22.1	32.03	7.15	26.19	542	2.41	4.6	clear	GT	ac73855							
2MW26S	14-Nov	1230	54.16	dry	dry	dry														
2MW27D	14-Nov	1012	50.32	17.34	32.98	7.18	25.40	748	3.07	8.0	cloudy	GT	ac74095							
2MW27S	14-Nov	1058	50.44	17.44	33.00	6.89	26.42	767	2.20	3.4	cloudy	GT	ac74096							
4MW1	20-Nov	1157	50.34	15.75	34.59	7.01	25.81	972	1.41	2.2	clear	GT	ac74295							
4MW2	29-Nov	1138	56.11	20	36.11	7.70	22.82	213	4.85	2.6	clear	GT	ac74544							
4MW3A	30-Nov	1400	52.92	23.65	23.97	7.19	24.10	459	0.68	2.5	clear	GT	ac74603							
4MW4	26-Nov	1039	50.81	22.35	28.46	7.26	25.59	449	2.76	4.1	clear	GT	ac74419							
4MW5	28-Nov	1234	49.06	19.9	29.16	7.23	22.30	583	2.26	8.7	clear	GT	ac74505							
4MW6	3-Dec	1342	55.93	23	32.95	7.94	24.17	160	4.39	4.4	clear	GT	ac74659							
4MW7	19-Nov	1002	52.62	21.38	31.24	7.18	24.53	346	1.49	2.4	cloudy	GT	AC74259							

Well Data						Field Analysis							Labworks	Lab Analysis						
WELL I.D.	DATE	SAMPLE TIME 24hr.	T.O.P. ELEV. (ft)	STATIC WATER LEVEL (ft)	N.G.V.D (ft)	pH (S.U.)	TEMP (°C)	COND (µS/cm)	D.O. (mg/L)	TURB (NTU)	Color (Observed)	Analyst	LIMS ID	CL⁻(mg/L)	TDS (mg/L)	NH3-N (mg/L)	NO3 (mg/L)	Fe (µg/L)	Hg (µg/L)	Na+ (µg/L)
4MW8	#####	1426	51.87	20.2	31.67	7.19	23.60	393	2.11	1.6	clear	GT	ac74296							
4MW9	26-Nov	1349	52.78	22.75	30.03	7.28	24.55	484	1.74	2.00	clear	GT	ac74420							
4MW11D	8-Nov	953	65.00	32.44	32.56	7.25	25.16	337	2.20	2.60	clear	GT	ac73882							
4MW12D	8-Nov	1014	55.03	23.5	31.53	7.22	25.56	389	2.16	2.0	clear	GT	ac73883							
4MW13D	8-Nov	1144	52.39	23	31.04	7.11	27.55	445	1.13	2.7	clear	GT	ac73884							
4MW14D	8-Nov	1320	52.00	20.13	31.87	7.26	27.77	393	1.37	3.60	clear	GT	ac73885							
4MW21	19-Nov	1331	51.46	20.40	31.06	5.34	25.10	130	5.16	11.9	cloudy	GT	AC74258							
4MW22	19-Nov	1104	53.44	23.52	29.92	7.08	24.78	441	4.50	5.90	cloudy	GT	AC74257							
4MW27	6-Dec	1702	49.60	17.10	32.18	7.47	23.47	277	2.43	4.8	clear	GT	ac74834							
4MW27D	30-Nov	1232	49.28	16.94	32.66	7.33	24.79	625	3.47	2.5	clear	GT	ac74095							

BILLING DATE: **SAMPLE TIME:** **MILEAGE:**

AMBIENT FIELD CONDITIONS

METER: **CALIBRATION DATE:**

PRESERVATIVES	
TYPE	LOT #

PURGING EQUIPMENT: **Bladder pump and Micro Purge MP-50 QED compressor**

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:	Hays Rd.		
WELL NO.	2381	SAMPLE ID:	2MW-1	SAMPLE DATE:	November 20, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2"			49.95	Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	20.00	STATIC WATER:	0016	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0.68

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):

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)
0844				15.70	7.46	22.23	165	6.05	275.0	cloudy	none
0849	1.00	1.00	0.25		7.07	23.89	179	6.05	416.0	cloudy	none
0853	1.00	2.00	0.25								
				well	went		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):	Greg Torrey		**START:**		**ENDED:**
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	NA	NA	NA	Cl,			BP
1	PE	250	NA	NA	NA	NA	TDS			BP
NGVD:	**34.25**									

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-2	SAMPLE DATE:	November 29, 2018

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:	20.30	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):
		0012	1250	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)
1223				20.30	7.39	22.79	109	4.41	8.4	clear	none
1232	3.00	3.00	0.33	22.65	6.05	23.11	96	4.58	3.2	clear	none
1241	3.00	6.00	0.33	22.70	5.46	23.33	95	5.57	3.2	clear	none
1250	3.00	9.00	0.33	22.70	5.06	23.27	94	4.66	2.5	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):	Greg Torrey		**START:** 1252	**ENDED:**	1255
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, NH3			BP
1	PE	250		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**36.11**									

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-3A	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			50.01	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	13.00	STATIC WATER:	DRY	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):
				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):	GTORREY			**START:**		**ENDED:**	
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, NH3			BP
1	PE	250		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**DRY**									

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-4	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			54.77	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=	

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):

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):	GTORREY			**START:**		**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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	na	WET ICE	na	na	Cl,			BP
1	PE	250	na	WET ICE	na	na	TDS			BP
NGVD:	**DRY**									

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:	Hays Rd.		
WELL NO.		SAMPLE ID:	2MW-5	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2"			49.17	Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	11.50	STATIC WATER:	DRY	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):

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):	GTORREY		**START:**	**ENDED:**	
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, NH3			
1	PE	125				<2	Fe,Hg,Na,			
1	PE	125	NA	WET ICE	NA	NA	Cl,			
1	PE	250	NA	WET ICE	NA	NA	TDS			
NGVD:	**DRY**									

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-6	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			56.11	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	ACTUAL 25	STATIC WATER:	DRY	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):

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):	GTORREY			**START;**		**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, NH3			
1	PE	125		HNO3		<2	Fe,Hg,Na,			
1	PE	125	NA	WET ICE	NA	NA	Cl,			
1	PE	250	NA	WET ICE	NA	NA	TDS			
NGVD:	**DRY**									

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-7	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			52.75	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	15.00	STATIC WATER:	DRY	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):
				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):	GTORREY			**START:**		**ENDED:**	
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**DRY**									

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-8	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			51.97	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	18.00	STATIC WATER:	DRY	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):

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):	GTORREY			**START:**		**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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**DRY**									

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-9	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			52.29	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	11.80	STATIC WATER:	DRY	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):

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):	GTORREY			**START:**		**ENDED:**	
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**DRY**									

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:	Hays Rd.		
WELL NO.		SAMPLE ID:	2MW-10	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			52.63	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	15.00	STATIC WATER:	DRY	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):
				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

SAMPLING DATA

			VERIFIED:		
SAMPLED BY (PRINT):	GTORREY		**START:**	**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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**DRY**									

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-13D	SAMPLE DATE:	November 8, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2"			52.39	Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	18.00	STATIC WATER:	DRY	GALLONS / FOOT:	0.16	1 WELL VOLUME=	dry

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):

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):	GTORREY			**START:**	**ENDED:**
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**DRY**									

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-15DA	SAMPLE DATE:	November 6, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			54.71	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	44.50	STATIC WATER:	20.13	GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.89

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):
		0851	0941	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)
0851				20.13	7.35	20.34	352	3.83	11.9	cloudy	none
0907	4.00	4.00	0.25	20.15	7.36	21.02	331	1.95	14.0	cloudy	none
0923	4.00	8.00	0.25	20.13	7.35	22.67	320	3.16	6.9	cloudy	none
0939	4.00	12.00	0.25	20.30	7.35	25.11	302	2.98	3.5	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

				VERIFIED:	
SAMPLED BY (PRINT):	GTORREY			**START:**	**ENDED:**
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**34.58**									

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:	2MW17S	SAMPLE DATE:	November 6, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			53.42	Submersible pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	38.00	STATIC WATER:	24.33	GALLONS / FOOT:	0.16	1 WELL VOLUME=	2.18

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):

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)
1002				24.33	7.35	27.43	299	5.94	4.0	cloudy	none
1012	2.00	2.00	0.25	20.45	6.58	26.58	344	3.89	8.1	cloudy	none
1022	2.00	4.00	0.25	20.50	6.21	26.59	349	5.65	5.6	cloudy	none
1032	2.00	6.00	0.25	20.50	6.13	26.45	346	5.63	4.0	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

			VERIFIED:		
SAMPLED BY (PRINT):	GTORREY		**START:**	**ENDED:**	1032
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**29.09**									

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:	2MW18D	SAMPLE DATE:	November 6, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			52.75	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	40.00	STATIC WATER:	23.83	GALLONS / FOOT:	0.16	1 WELL VOLUME=	2.58

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):
		1250	1322	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)
1250			23.83	23.83	6.41	25.26	508	2.91	3.6	cloudy	none
1300	3.00	3.00	23.85	23.85	6.97	23.57	505	1.46	6.6	cloudy	none
1310	3.00	6.00	23.91	23.91	7.06	25.22	484	1.70	4.7	cloudy	none
1320	3.00	9.00	23.90	23.90	7.06	24.42	493	2.01	4.4	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	1322	**ENDED:**	1325
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**28.92**									

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-19D	SAMPLE DATE:	November 6, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			52.25	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	55.00	STATIC WATER:	23.83	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.90

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):
		1336	1421	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)
1336				23.83	6.86	26.77	387	6.29	4.1	cloudy	none
1351	5.00	5.00	0.33	23.92	6.61	24.92	458	3.02	10.1	cloudy	none
1406	5.00	10.00	0.33	23.92	7.06	24.87	456	3.72	4.9	cloudy	none
1421	5.00	15.00	0.33	23.92	7.09	24.90	455	3.05	3.8	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	1423	**ENDED:**	1426
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**28.42**									

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-24S	SAMPLE DATE:	November 7, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			50.37	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	26.00	STATIC WATER:	18.85	GALLONS / FOOT:	0.16	1 WELL VOLUME=	1.14

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):
		0859	0911	3.00

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)
0859				18.85	5.43	25.86	399	6.12	7.1	cloudy	none
0903	1.00	1.00		19.46	6.14	26.18	334	4.32	268.0	cloudy	none
0907	1.00	2.00		19.57	6.39	26.15	409	4.07	454.0	cloudy	none
0911	1.00	3.00		19.88	6.51	26.77	445	4.22	207.0	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	913	**ENDED:**	916
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**31.52**									

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-24D	SAMPLE DATE:	November 7, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			50.55	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	44.00	STATIC WATER:		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):
		0932	0944	3.00

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)
0932				34.97	6.82	25.42	1	7.75	86.5	cloudy	none
0936	1.00	1.00	0.25	34.97	6.88	27.34	494	4.11	68.9	cloudy	none
0940	1.00	2.00	0.25	24.95	7.00	26.30	539	2.05	34.2	cloudy	none
0944	1.00	3.00	,25	35.02	7.09	25.99	540	2.35	19.7	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

				VERIFIED:			
SAMPLED BY (PRINT):	Greg Torrey			**START:**		**ENDED:**	
WELL (feet):		RATE (ML/MIN.):		TUBING MATERIAL CODE:			
DECONTAMINATION:		FIELD FILTERED:	NO	FILTER SIZE (UM):		DUPLICATE	

1							INTENDED ANAYSIS and/or METHOD	BOTTLE		EQUIP. CODE:
# Containers	Cont. Type	Cont. Vol. mls	Lot # Pres.	Preservative	mls Added	1		DATE	SERIES	
1	PE	250		H2SO4	0.5	1	NO3, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			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:	November 7, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			47.87	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	32.00	STATIC WATER:	16.28	GALLONS / FOOT:	0.16	1 WELL VOLUME=	2.51

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):
		1023	1059	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)
1023				16.28	7.14	24.26	607	6.36	12.1	cloudy	none
1035	3.00	3.00	0.25	16.39	7.07	23.28	773	4.06	265.0	cloudy	none
1047	3.00	6.00	0.25	16.39	7.04	27.80	694	3.22	34.5	cloudy	none
1059	3.00	9.00	0.25	16.39	7.06	27.35	694	3.42	16.6	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

			VERIFIED:		
SAMPLED BY (PRINT):	GTORREY		**START:**	1101	**ENDED:** 1104
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**31.59**									

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:	Hays Rd.		
WELL NO.		SAMPLE ID:	2MW-25S	SAMPLE DATE:	November 7, 2018

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			47.84	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	17.50	STATIC WATER:	DRY	GALLONS / FOOT:	0.16	1 WELL VOLUME=	DRY

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):

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):	GTORREY		**START:**		**ENDED:**
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**DRY**									

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-26D	SAMPLE DATE:	November 7, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			54.13	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	55.00	STATIC WATER:	22.1	GALLONS / FOOT:	0.16	1 WELL VOLUME=	5.2

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):
		1258	1343	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)
1258				22.10	7.24	27.22	518	2.27	4.0	cloudy	none
1313	5.00	5.00	0.33	22.15	7.22	26.51	537	2.03	5.5	cloudy	none
1328	5.00	10.00	0.33	22.15	7.14	26.41	542	2.12	4.30	cloudy	none
1343	5.00	15.00	0.33	22.15	7.15	26.19	542	2.41	4.6	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**		**ENDED:**	1343
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**32.03**									

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-26S	SAMPLE DATE:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			54.16	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	23"	STATIC WATER:	DRY	GALLONS / FOOT:	0.16	1 WELL VOLUME=	DRY

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):

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):	GTORREY			**START:**		**ENDED:**	
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**DRY**									

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-27S	SAMPLE DATE:	November 14, 2018

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:	17.44	GALLONS / FOOT:	0.16	1 WELL VOLUME=	0.56

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):
		1026	1056	3.00

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)
1026				17.44	7.27	25.89	748	3.66	9.8	cloudy	none
1036	1.00	1.00	na		7.00	25.87	753	3.27	13.2	cloudy	none
1046	1.00	2.00	na		6.91	26.29	754	3.54	4.0	cloudy	none
1056	1.00	3.00	na		6.89	26.42	767	2.20	3.4	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	1058	**ENDED:**	1101
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**33.00**									

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:	November 14, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			50.32	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	45.30	STATIC WATER:	17.34	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.4

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):
		0009	1010	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)
0910				17.34	6.48	24.95	729	3.2	5.5	cloudy	none
0930	4.00	4.00	0.25	17.44	7.09	25.00	751	2.43	36.2	cloudy	none
0950	4.00	8.00	0.25	17.44	7.15	25.24	750	2.16	11.0	cloudy	none
1010	4.00	12.00	0.25	17.50	7.18	25.40	748	3.07	8.0	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	1012	**ENDED:**	1015
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**32.98**									

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:	4MW-1	SAMPLE DATE:	November 20, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4"			50.34	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	60.00	STATIC WATER:	16	GALLONS / FOOT:	0.65	1 WELL VOLUME=	29

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):
		0900	1154	87.00

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)
0900				15.75	6.87	25.54	821	4.11	3.4	cloudy	none
0958	29.00	29.00	0.50	15.75	7.03	25.70	972	1.02	2.2	cloudy	none
1056	29.00	58.00	0.50	15.84	6.99	25.45	964	0.88	2.3	clear	none
1154	29.00	87.00	0.50	15.90	7.01	25.81	972	1.41	2.2	clear	none

* 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):	GTORREY			**START:**	11.57	**ENDED:**	1200
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**34.59**									

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:	4MW-2	SAMPLE DATE:	November 29, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4"			56.11	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	69.00	STATIC WATER:	20	GALLONS / FOOT:	0.65	1 WELL VOLUME=	31.80

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):
		0830	1136	96.00

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)
0830				20.00	7.61	22.57	219	2.99	3.2	clear	none
0932	32.00	32.00	0.50	20.60	7.59	22.34	216	1.96	4.7	clear	none
1034	32.00	64.00	0.50	20.60	7.69	22.65	217	1.98	3.1	clear	none
1136	32.00	96.00	0.50	20.60	7.70	22.82	213	2.88	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

				VERIFIED:			
SAMPLED BY (PRINT):				**START:**	1138	**ENDED:**	1141
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**36.11**									

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:	4MW-3A	SAMPLE DATE:	November 30, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			52.92	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	51.00	STATIC WATER:	23.65	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.21

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):
		1320	1358	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)
1320				23.65	7.33	23.61	456	1.93	2.5	clear	none
1332	4.00	4.00	0.33	23.75	7.24	23.83	453	1.14	3.0	clear	none
1346	4.00	8.00	0.33	23.75	7.23	23.95	452	1.73	1.9	clear	none
1358	4.00	12.00	0.33	23.75	7.19	24.10	459	0.68	2.5	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):	GT			**START:**	1400	**ENDED:**	1403
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**23.97**									

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:	4MW-4	SAMPLE DATE:	November 26, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			50.81	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	50.00	STATIC WATER:	22.35	GALLONS / FOOT:	0.65	1 WELL VOLUME=	17.9

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):
		0840	**1039**	54.00

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)
0840				22.35	7.22	24.94	489	1.88	3.4	clear	none
0916	18.00	18.00	0.50	22.35	7.20	25.39	453	2.38	3.2	clear	none
1002	18.00	36.00	0.50	22.35	7.21	25.77	455	2.46	3.0	clear	none
1038	18.00	54.00	0.50	22.35	7.26	25.59	449	2.76	4.1	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):	Greg Torrey			**START:**	**1039**	**ENDED:**	1042
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**28.46**									

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:	4MW-5	SAMPLE DATE:	11.28.18

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			49.06	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	77.00	STATIC WATER:	19.9	GALLONS / FOOT:	0.65	1 WELL VOLUME=	37.1

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):
		0900	1232	111.00

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)
0900				19.90	7.49	22.02	590	2.87	8.5	cloudy	none
1014	37.00	37.00	0.50	19.95	7.44	21.44	579	2.36	10.2	clear	none
1128	37.00	74.00	0.50	20.00	7.26	21.65	575	2.09	9.1	clear	none
1232	37.00	111.00	0.50	20.00	7.23	22.30	583	2.26	8.7	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):	GT			**START:**	1234	**ENDED:**	1237
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**29.16**									

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:	4MW-6	SAMPLE DATE:	December 3, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			55.95	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	100.00	STATIC WATER:	23.00	GALLONS / FOOT:	0.65	1 WELL VOLUME=	50

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):
		0830	1340	150.00

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)
0830				23.00	7.89	25.59	151	4.28	2.4	clear	none
1010	50.00	50.00	0.50	23.00	8.06	25.29	155	3.74	2.1	clear	none
1150	50.00	100.00	0.50	23.00	7.96	25.10	155	3.99	2.0	clear	none
1340	50.00	150.00	0.50	23.52	7.94	24.17	160	4.39	4.4	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

				VERIFIED:			
SAMPLED BY (PRINT):	GT			**START:**	1342	**ENDED:**	1345
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**32.95**									

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:	4MW-7	SAMPLE DATE:	November 19, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			52.62	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	50.00	STATIC WATER:	21.38	GALLONS / FOOT:	0.65	1 WELL VOLUME=	4.57

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):
		0900	1000	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)
0900				21.38	6.88	24	367	2.9	4.9	cloudy	none
0920	5.00	5.00	0.25	21.47	7.12	24.37	349	1.5	4.1	cloudy	none
0940	5.00	10.00	0.25	21.53	7.19	24.59	349	2.86	3.4	cloudy	none
1000	5.00	15.00	0.25	21.59	7.18	24.53	346	1.49	2.4	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	1002	ENDED:	1005
WELL (feet):		RATE (ML/MIN.):					
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**31.24**									

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:	4MW-8	SAMPLE DATE:	November 20, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			51.87	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	41.00	STATIC WATER:	20.2	GALLONS / FOOT:	0.65	1 WELL VOLUME=	13.5

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):
		1300	1424	42.00

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)
1300				20.20	7.35	25.22	336	2.92	2.1	clear	none
1328	14.00	14.00	0.50	20.43	7.3	23.82	388	1.67	2.4	clear	none
1356	14.00	28.00	0.50	20.50	7.21	21.04	416	1.79	2.4	clear	none
1424	14.00	42.00	0.50	20.50	7.19	23.60	393	2.11	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):	GTORREY		**START:**	1426	**ENDED:** 1429
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**31.67**									

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:	4MW-9	SAMPLE DATE:	November 26, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			52.78	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	51.00	STATIC WATER:	22.75	GALLONS / FOOT:	0.65	1 WELL VOLUME=	18.00

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):
		1200	1348	54.00

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)
1200				22.75	7.18	25.03	481	2.71	2.0	clear	none
1236	18.00	18.00	0.50	22.91	7.10	24.90	491	0.93	2.6	clear	none
1312	18.00	36.00	0.50	22.91	7.10	24.66	491	0.99	2.1	clear	none
1348	18.00	54.00	0.50	22.91	7.28	24.55	484	1.74	2.0	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):	GTORREY			**START:**	1349	**ENDED:**	1352
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**30.03**									

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:	4MW-11D	SAMPLE DATE:	November 8, 2018

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:	32.44	GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.12

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):
		0815	0951	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)
0815				32.44	5.53	24.99	362	4.16	2.6	cloudy	none
0827	3.00	3.00	0.33	32.48	6.90	25.40	340	3.79	3.7	cloudy	none
0839	3.00	6.00	0.33	32.53	7.13	24.99	342	2.16	2.60	cloudy	none
0951	3.00	9.00	0.33	32.53	7.25	25.16	337	2.20	2.60	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

			VERIFIED:		
SAMPLED BY (PRINT):	GTORREY		**START:** 953	**ENDED:**	956
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**32.56**									

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:	Hays Rd.		
WELL NO.		SAMPLE ID:	4MW-12D	SAMPLE DATE:	November 8, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			55.03	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	55.00	STATIC WATER:	23.5	GALLONS / FOOT:	0.16	1 WELL VOLUME=	5

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):
		0942	1012	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)
0942				23.50	7.22	26.3	400	1.85	3.9	clear	none
0952	5.00	5.00	5.00	23.55	7.20	25.73	389	1.37	2.3	clear	none
1002	5.00	10.00	5.00	23.70	7.22	25.52	389	2.03	2.0	clear	none
1012	5.00	15.00	5.00	23.70	7.22	25.56	389	2.16	2.0	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):	GTORREY		**START:** 1014	**ENDED:**	1017
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**31.53**									

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:	November 8, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			54.04	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

	36.00	STATIC WATER:	23	GALLONS / FOOT:	0.16	1 WELL VOLUME=	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):
		1118	1142	6.00

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)
1118				23.00	7.15	28.42	567	1.43	8.0	cloudy	none
1126	2.00	2.00	0.25	23.17	7.15	27.67	445	1.45	4.0	cloudy	none
1134	2.00	4.00	0.25	23.17	7.14	27.55	443	1.32	2.9	cloudy	none
1142	2.00	6.00	0.25	23.17	7.11	7.55	445	1.13	2.7	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	1144	**ENDED:**	1147
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**31.04**									

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:	4MW-14D	SAMPLE DATE:	11/8/18

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			52.00	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	50.00	STATIC WATER:	20.13	GALLONS / FOOT:	0.16	1 WELL VOLUME=	4.7

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):
		1217	1317	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)
1217				20.13	7.26	28.18	397	2.62	2.7	clear	none
1237	5.00	5.00	0.25	20.43	7.27	27.76	394	2.28	3.2	clear	none
1257	5.00	10.00	0.25	20.95	7.26	27.76	397	2.85	3.30	clear	none
1317	5.00	15.00	0.25	20.94	7.26	27.77	393	1.37	3.6	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):	GTORREY			**START:**	1320	**ENDED:**	1323
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**31.87**									

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:	4MW-21	SAMPLE DATE:	November 19, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			51.46	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	43.00	STATIC WATER:	20.40	GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.6

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):
		1253	1329	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)
1253				20.40	7.27	29.1	436	5.96	4.1	cloudy	none
1305	4.00	4.00	0.33	20.64	6.51	25.80	135	5.93	86.7	cloudy	none
1317	4.00	8.00	0.33	20.65	5.51	25.18	131	5.26	30.8	cloudy	none
1329	4.00	12.00	0.33	20.65	5.34	25.10	130	5.16	11.9	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	1331	**ENDED:**	1334
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**31.06**									

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:	4MW-22	SAMPLE DATE:	11.19/18

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
2			53.44	Submersible Pump

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	48.00	STATIC WATER:	23.52	GALLONS / FOOT:	0.16	1 WELL VOLUME=	3.9

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):
		1026	1102	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)
1026				24	7.09	21.03	477	3.24	63.9	cloudy	no0ne
1038	4.00	4.00	0.33	24	7.06	24.70	441	4.08	20.7	cloudy	none
1050	4.00	8.00	0.33	24	7.07	24.65	441	4.39	7.8	cloudy	none
1102	4.00	12.00	0.33	24.00	7.08	24.78	441	4.50	5.9	cloudy	noine

*****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):	GTORREY			**START:**	1104	**ENDED:**	1107
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**29.92**									

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:	4MW-27D	SAMPLE DATE:	December 6, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			49.28	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	156.00	STATIC WATER:	17.1	GALLONS / FOOT:	0.65	1 WELL VOLUME=	90.20

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):
		0800	1700	270.00

TIME (24 hr)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (GPM)	DEPTH TO WATER (FEET)	P.H.	TEMP. (C°)	COND. (umhos/cm)	D.O. (mg/L)	TURB. (NTUs)	COLOR (describe)	ODOR (describe)
0800				17.10	7.51	22.63	283	3.8	6.1	clear	none
0110	90.00	90.00	0.50	17.63	7.50	22.50	277	4.38	18.5	clear	none
1400	90.00	180.00	0.50	17.70	7.46	23.64	276	3.34	6.60	clear	none
1700	90.00	270.00	0.50	17.75	7.47	23.47	277	2.43	4.8	clear	none

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

				START:			
SAMPLED BY (PRINT):	GTORREY			**START:**	1702	**ENDED:**	1705
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**32.18**									

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:	4MW-27	SAMPLE DATE:	November 30, 2018

PURGING DATA

DIAMETER(INCHES)	TUBING DIAM (INCHES)	WELL SCREEN INTERVAL DEPTH: ft to ft	TOP Elevation (NGVD)	PUMP TYPE OR BAILER:
4			49.60	BP

WELL VOLUME PURGE: 1 WELL VOL.= (TWD-STATIC DEPTH TO WATER) X WELL CAPACITY

TWD:	78.00	STATIC WATER:	16.94	GALLONS / FOOT:	0.65	1 WELL VOLUME=	39.68

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):
		0830	1230	120.00

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)
0830				16.94	5.93	23.87	529	5.96	14.0	cloudy	none
0950	40.00	40.00	0.50	17.00	7.32	23.50	667	3.75	5.5	cloudy	none
1110	40.00	80.00	0.50	17.00	7.33	24.15	622	3.77	3.2	cloudy	none
1230	40.00	120.00	0.50	17.00	7.33	24.79	625	3.47	2.5	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

				VERIFIED:			
SAMPLED BY (PRINT):	GTORREY			**START:**	12.32	**ENDED:**	1235
WELL (feet):		RATE (ML/MIN.):				12.32	
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, NH3			BP
1	PE	125		HNO3		<2	Fe,Hg,Na,			BP
1	PE	125	NA	WET ICE	NA	NA	Cl,			BP
1	PE	250	NA	WET ICE	NA	NA	TDS			BP
NGVD:	**32.66**									

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)

10/19/2016

2MW-2
Z

10/26/2016
4MW13D
HAS DEDICATED PUMP AND DISPENSER TUBING
ITS 2" DIA WELL HAS 4 " CASING
PUMP GIVES GOOD PURGE RATE 2T SETTINGS CPM4 , 107 (9:00/6:00 SEC)
4MW-12D
DEDICATED PUMP . NO DISPENSING TUBING
ITS 2" DIA WELL HAS 4 " CASING
PUMP GIVES GOOD PURGE RATE 2T SETTINGS CPM4 , 107 (9:00/6:00 SEC)
4MW-11D
DEDICATED PUMP . NO DISPENSING TUBING
PUMP GIVES GOOD PURGE RATE 2T SETTINGS CPM4 , 107 (8:00/:00 SEC)
TUBING EXITING PUMP @ WELL CAP IS BRITTLE . OUTER PLASTIC COVERIBG
OF TUBING IS BROKEN OFF AND MISSING

START:

11/2/2016

2MW17S

NO3

2MW19D
labeled 24MW19D
Did not plug compressor to cap.
No tubing attached.
pulled about 40 ft of tubing to dispense water attached to cap; smaller tubing visible about 2 fe
Submersible pump inserted ok for sampling.
did not replce cap and tubing since it did not do back down all the way. 10 foot remaining. Bro
2MW18D
HAS A PUMP. WORKET AT A PURGUING RATE OF 0.5 GPM
IT IS LABELED 2MW18 S
2MW7
18 FT. DEOTH. VERIFIED WITH WATER SENSOR.
STATIC LEVEL 17.5"
4MW8
HAS PUMP.
GREAT RATE 0.80 GPM

et down in the well but unreachable.

ught back to Lab