



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

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DHRS No: E44123

06 July 2022

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 I, 2022 Resample Results

To Whom It May Concern:

This submittal is for two wells (4MW3A and 4MW9) which were resampled for the 8260 analytes due to the previous samples running out of hold time. All analytes were reported as non-detectable for both wells.

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

Sincerely,

Candia E. Mulhern
Laboratory Manager

cc: Justin Roessler, Solid Waste Director
James Shannon, Acting Utilities Engineering Director

UTILITIES ENVIRONMENTAL LABORATORY

727-847-8902 | West Pasco Government Center | 8864 Government Dr. | New Port Richey, FL 34654

July 05, 2022

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

RE: Project: Resource Recovery (8260)
Pace Project No.: 35727199

Dear Ms. Mulhern:

Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,



Chelsea Gagne
chelsea.gagne@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: Carissa Dennison, Pasco County Utilities Environmental
Laboratory



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Resource Recovery (8260)

Pace Project No.: 35727199

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

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

Ohio DEP 87780

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

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SAMPLE SUMMARY

Project: Resource Recovery (8260)

Pace Project No.: 35727199

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35727199001	AD 27058 4MW9	Water	06/23/22 11:06	06/24/22 13:00
35727199002	AD 27059 4MW3A	Water	06/23/22 15:15	06/24/22 13:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Resource Recovery (8260)

Pace Project No.: 35727199

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35727199001	AD 27058 4MW9	EPA 8260	AS4	48	PASI-O
35727199002	AD 27059 4MW3A	EPA 8260	AS4	48	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Resource Recovery (8260)

Pace Project No.: 35727199

Sample: AD 27058 4MW9 **Lab ID: 35727199001** Collected: 06/23/22 11:06 Received: 06/24/22 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL									
Pace Analytical Services - Ormond Beach									
Acetone	9.4 U	ug/L	25.0	9.4	1		06/25/22 20:50	67-64-1	
Acrylonitrile	11.0 U	ug/L	20.0	11.0	1		06/25/22 20:50	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		06/25/22 20:50	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		06/25/22 20:50	74-97-5	
Bromodichloromethane	0.44 U	ug/L	1.0	0.44	1		06/25/22 20:50	75-27-4	
Bromoform	2.8 U	ug/L	3.0	2.8	1		06/25/22 20:50	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		06/25/22 20:50	74-83-9	J(v2)
2-Butanone (MEK)	6.0 U	ug/L	50.0	6.0	1		06/25/22 20:50	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		06/25/22 20:50	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		06/25/22 20:50	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		06/25/22 20:50	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		06/25/22 20:50	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		06/25/22 20:50	67-66-3	
Chloromethane	0.92 U	ug/L	1.0	0.92	1		06/25/22 20:50	74-87-3	
Dibromochloromethane	0.97 U	ug/L	2.0	0.97	1		06/25/22 20:50	124-48-1	
Dibromomethane	0.34 U	ug/L	2.0	0.34	1		06/25/22 20:50	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		06/25/22 20:50	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		06/25/22 20:50	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		06/25/22 20:50	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		06/25/22 20:50	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		06/25/22 20:50	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		06/25/22 20:50	75-35-4	
cis-1,2-Dichloroethene	0.83 U	ug/L	1.0	0.83	1		06/25/22 20:50	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		06/25/22 20:50	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		06/25/22 20:50	78-87-5	
cis-1,3-Dichloropropene	0.51 U	ug/L	1.0	0.51	1		06/25/22 20:50	10061-01-5	
trans-1,3-Dichloropropene	0.89 U	ug/L	1.0	0.89	1		06/25/22 20:50	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		06/25/22 20:50	100-41-4	
2-Hexanone	10.0 U	ug/L	25.0	10.0	1		06/25/22 20:50	591-78-6	
Iodomethane	9.3 U	ug/L	10.0	9.3	1		06/25/22 20:50	74-88-4	
Methylene Chloride	4.4 U	ug/L	5.0	4.4	1		06/25/22 20:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		06/25/22 20:50	108-10-1	
Styrene	0.65 U	ug/L	1.0	0.65	1		06/25/22 20:50	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		06/25/22 20:50	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		06/25/22 20:50	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		06/25/22 20:50	127-18-4	
Toluene	0.71 U	ug/L	1.0	0.71	1		06/25/22 20:50	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		06/25/22 20:50	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		06/25/22 20:50	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		06/25/22 20:50	79-01-6	
Trichlorofluoromethane	0.82 U	ug/L	1.0	0.82	1		06/25/22 20:50	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		06/25/22 20:50	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		06/25/22 20:50	108-05-4	
Vinyl chloride	0.88 U	ug/L	1.0	0.88	1		06/25/22 20:50	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Resource Recovery (8260)

Pace Project No.: 35727199

Sample: AD 27058 4MW9 **Lab ID: 35727199001** Collected: 06/23/22 11:06 Received: 06/24/22 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Ormond Beach								
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		06/25/22 20:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/25/22 20:50	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		06/25/22 20:50	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		06/25/22 20:50	2199-69-1	

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ANALYTICAL RESULTS

Project: Resource Recovery (8260)

Pace Project No.: 35727199

Sample: AD 27059 4MW3A **Lab ID: 35727199002** Collected: 06/23/22 15:15 Received: 06/24/22 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL									
Pace Analytical Services - Ormond Beach									
Acetone	9.4 U	ug/L	25.0	9.4	1		06/25/22 11:43	67-64-1	
Acrylonitrile	11.0 U	ug/L	20.0	11.0	1		06/25/22 11:43	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		06/25/22 11:43	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		06/25/22 11:43	74-97-5	
Bromodichloromethane	0.44 U	ug/L	1.0	0.44	1		06/25/22 11:43	75-27-4	
Bromoform	2.8 U	ug/L	3.0	2.8	1		06/25/22 11:43	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		06/25/22 11:43	74-83-9	
2-Butanone (MEK)	6.0 U	ug/L	50.0	6.0	1		06/25/22 11:43	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		06/25/22 11:43	75-15-0	J(L1), J(v1),L3
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		06/25/22 11:43	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		06/25/22 11:43	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		06/25/22 11:43	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		06/25/22 11:43	67-66-3	
Chloromethane	0.92 U	ug/L	1.0	0.92	1		06/25/22 11:43	74-87-3	J(v1)
Dibromochloromethane	0.97 U	ug/L	2.0	0.97	1		06/25/22 11:43	124-48-1	
Dibromomethane	0.34 U	ug/L	2.0	0.34	1		06/25/22 11:43	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		06/25/22 11:43	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		06/25/22 11:43	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		06/25/22 11:43	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		06/25/22 11:43	75-34-3	J(v1)
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		06/25/22 11:43	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		06/25/22 11:43	75-35-4	J(L1)
cis-1,2-Dichloroethene	0.83 U	ug/L	1.0	0.83	1		06/25/22 11:43	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		06/25/22 11:43	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		06/25/22 11:43	78-87-5	
cis-1,3-Dichloropropene	0.51 U	ug/L	1.0	0.51	1		06/25/22 11:43	10061-01-5	
trans-1,3-Dichloropropene	0.89 U	ug/L	1.0	0.89	1		06/25/22 11:43	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		06/25/22 11:43	100-41-4	
2-Hexanone	10.0 U	ug/L	25.0	10.0	1		06/25/22 11:43	591-78-6	
Iodomethane	9.3 U	ug/L	10.0	9.3	1		06/25/22 11:43	74-88-4	
Methylene Chloride	4.4 U	ug/L	5.0	4.4	1		06/25/22 11:43	75-09-2	J(v1)
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		06/25/22 11:43	108-10-1	
Styrene	0.65 U	ug/L	1.0	0.65	1		06/25/22 11:43	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		06/25/22 11:43	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		06/25/22 11:43	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		06/25/22 11:43	127-18-4	
Toluene	0.71 U	ug/L	1.0	0.71	1		06/25/22 11:43	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		06/25/22 11:43	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		06/25/22 11:43	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		06/25/22 11:43	79-01-6	
Trichlorofluoromethane	0.82 U	ug/L	1.0	0.82	1		06/25/22 11:43	75-69-4	J(v1)
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		06/25/22 11:43	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		06/25/22 11:43	108-05-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Resource Recovery (8260)

Pace Project No.: 35727199

Sample: AD 27059 4MW3A **Lab ID: 35727199002** Collected: 06/23/22 15:15 Received: 06/24/22 13:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL									
Pace Analytical Services - Ormond Beach									
Vinyl chloride	0.88 U	ug/L	1.0	0.88	1		06/25/22 11:43	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		06/25/22 11:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		06/25/22 11:43	460-00-4	
Toluene-d8 (S)	106	%	70-130		1		06/25/22 11:43	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		06/25/22 11:43	2199-69-1	

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)
Pace Project No.: 35727199

QC Batch: 834876	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35727199001

METHOD BLANK: 4589634 Matrix: Water
Associated Lab Samples: 35727199001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	06/25/22 10:33	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	06/25/22 10:33	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	06/25/22 10:33	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	06/25/22 10:33	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	06/25/22 10:33	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	06/25/22 10:33	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	06/25/22 10:33	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	06/25/22 10:33	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	06/25/22 10:33	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	06/25/22 10:33	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	06/25/22 10:33	
2-Butanone (MEK)	ug/L	6.0 U	50.0	6.0	06/25/22 10:33	
2-Hexanone	ug/L	10.0 U	25.0	10.0	06/25/22 10:33	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	06/25/22 10:33	
Acetone	ug/L	12.6 I	25.0	9.4	06/25/22 10:33	
Acrylonitrile	ug/L	11.0 U	20.0	11.0	06/25/22 10:33	
Benzene	ug/L	0.30 U	1.0	0.30	06/25/22 10:33	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	06/25/22 10:33	
Bromodichloromethane	ug/L	0.44 U	1.0	0.44	06/25/22 10:33	
Bromoform	ug/L	2.8 U	3.0	2.8	06/25/22 10:33	
Bromomethane	ug/L	3.9 U	10.0	3.9	06/25/22 10:33	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	06/25/22 10:33	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	06/25/22 10:33	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	06/25/22 10:33	
Chloroethane	ug/L	3.7 U	10.0	3.7	06/25/22 10:33	
Chloroform	ug/L	0.56 U	1.0	0.56	06/25/22 10:33	
Chloromethane	ug/L	0.92 U	1.0	0.92	06/25/22 10:33	
cis-1,2-Dichloroethene	ug/L	0.83 U	1.0	0.83	06/25/22 10:33	
cis-1,3-Dichloropropene	ug/L	0.51 U	1.0	0.51	06/25/22 10:33	
Dibromochloromethane	ug/L	0.97 U	2.0	0.97	06/25/22 10:33	
Dibromomethane	ug/L	0.34 U	2.0	0.34	06/25/22 10:33	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	06/25/22 10:33	
Iodomethane	ug/L	9.3 U	10.0	9.3	06/25/22 10:33	
Methylene Chloride	ug/L	4.4 U	5.0	4.4	06/25/22 10:33	
Styrene	ug/L	0.65 U	1.0	0.65	06/25/22 10:33	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	06/25/22 10:33	
Toluene	ug/L	0.71 U	1.0	0.71	06/25/22 10:33	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	06/25/22 10:33	
trans-1,3-Dichloropropene	ug/L	0.89 U	1.0	0.89	06/25/22 10:33	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	06/25/22 10:33	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

METHOD BLANK: 4589634

Matrix: Water

Associated Lab Samples: 35727199001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	06/25/22 10:33	
Trichlorofluoromethane	ug/L	0.82 U	1.0	0.82	06/25/22 10:33	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	06/25/22 10:33	
Vinyl chloride	ug/L	0.88 U	1.0	0.88	06/25/22 10:33	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	06/25/22 10:33	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130		06/25/22 10:33	
4-Bromofluorobenzene (S)	%	100	70-130		06/25/22 10:33	
Toluene-d8 (S)	%	101	70-130		06/25/22 10:33	

LABORATORY CONTROL SAMPLE: 4589635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.5	108	70-130	
1,1,1-Trichloroethane	ug/L	20	22.1	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	108	68-125	
1,1,2-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1-Dichloroethane	ug/L	20	21.5	108	70-130	
1,1-Dichloroethene	ug/L	20	21.3	106	66-133	
1,2,3-Trichloropropane	ug/L	20	22.5	113	62-127	
1,2-Dichlorobenzene	ug/L	20	20.9	104	70-130	
1,2-Dichloroethane	ug/L	20	21.9	110	70-130	
1,2-Dichloropropane	ug/L	20	20.7	104	70-130	
1,4-Dichlorobenzene	ug/L	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	100	97.6	98	47-143	
2-Hexanone	ug/L	100	111	111	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	57-132	
Acetone	ug/L	100	91.5	91	46-148	
Acrylonitrile	ug/L	100	91.3	91	60-143	
Benzene	ug/L	20	21.2	106	70-130	
Bromochloromethane	ug/L	20	21.6	108	70-130	
Bromodichloromethane	ug/L	20	21.5	108	70-130	
Bromoform	ug/L	20	21.0	105	49-126	
Bromomethane	ug/L	20	12.9	64	10-165 J(v3)	
Carbon disulfide	ug/L	20	22.5	112	60-141	
Carbon tetrachloride	ug/L	20	23.2	116	63-126	
Chlorobenzene	ug/L	20	20.7	104	70-130	
Chloroethane	ug/L	20	16.4	82	71-142	
Chloroform	ug/L	20	20.3	102	70-130	
Chloromethane	ug/L	20	23.2	116	40-140	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.5	103	70-130	
Dibromochloromethane	ug/L	20	21.7	108	62-118	
Dibromomethane	ug/L	20	22.3	111	70-130	
Ethylbenzene	ug/L	20	20.6	103	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

LABORATORY CONTROL SAMPLE: 4589635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	17.4	87	10-164	
Methylene Chloride	ug/L	20	20.1	100	65-136	
Styrene	ug/L	20	17.7	89	70-130	
Tetrachloroethene	ug/L	20	22.5	112	64-134	
Toluene	ug/L	20	21.5	108	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.5	113	68-127	
trans-1,3-Dichloropropene	ug/L	20	21.2	106	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	16.8	84	42-129	
Trichloroethene	ug/L	20	21.9	110	70-130	
Trichlorofluoromethane	ug/L	20	18.5	93	65-135	
Vinyl acetate	ug/L	20	20.5	103	60-144	
Vinyl chloride	ug/L	20	17.5	87	68-131	
Xylene (Total)	ug/L	60	62.8	105	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 4589638

Parameter	Units	35727354002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	15.7	79	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	18.1	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	15.0	75	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	15.2	76	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	17.7	88	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	17.8	89	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	15.0	75	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	15.0	75	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	16.4	82	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	15.9	80	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	15.4	77	70-130	
2-Butanone (MEK)	ug/L	6.0 U	100	58.2	58	47-143	
2-Hexanone	ug/L	10.0 U	100	64.6	65	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	63.7	64	57-132	
Acetone	ug/L	9.4 U	100	63.3	63	46-148	
Acrylonitrile	ug/L	11.0 U	100	69.5	70	60-143	
Benzene	ug/L	0.30 U	20	17.2	86	70-130	
Bromochloromethane	ug/L	0.37 U	20	17.1	85	70-130	
Bromodichloromethane	ug/L	0.44 U	20	16.7	83	70-130	
Bromoform	ug/L	2.8 U	20	13.5	67	49-126	
Bromomethane	ug/L	3.9 U	20	6.0 I	30	10-165 J(v3)	
Carbon disulfide	ug/L	1.8 U	20	19.0	95	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	18.3	92	63-126	
Chlorobenzene	ug/L	0.35 U	20	15.8	79	70-130	
Chloroethane	ug/L	3.7 U	20	20.4	102	71-142	

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

MATRIX SPIKE SAMPLE: 4589638		35727354002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	0.56 U	20	15.9	80	70-130	
Chloromethane	ug/L	0.92 U	20	18.0	90	40-140	
cis-1,2-Dichloroethene	ug/L	0.83 U	20	16.5	82	70-130	
cis-1,3-Dichloropropene	ug/L	0.51 U	20	14.8	74	70-130	
Dibromochloromethane	ug/L	0.97 U	20	15.3	76	62-118	
Dibromomethane	ug/L	0.34 U	20	16.5	83	70-130	
Ethylbenzene	ug/L	0.30 U	20	15.8	78	70-130	
Iodomethane	ug/L	9.3 U	20	9.3 U	30	10-164	
Methylene Chloride	ug/L	4.4 U	20	16.8	84	65-136	
Styrene	ug/L	0.65 U	20	13.3	66	70-130	J(M1)
Tetrachloroethene	ug/L	0.38 U	20	17.0	85	64-134	
Toluene	ug/L	0.71 U	20	17.0	83	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	18.1	91	68-127	
trans-1,3-Dichloropropene	ug/L	0.89 U	20	14.3	71	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	7.2 I	36	42-129	J(M1)
Trichloroethene	ug/L	0.36 U	20	17.7	88	70-130	
Trichlorofluoromethane	ug/L	0.82 U	20	18.8	94	65-135	
Vinyl acetate	ug/L	1.8 U	20	14.5	72	60-144	
Vinyl chloride	ug/L	0.88 U	20	16.7	83	68-131	
Xylene (Total)	ug/L	2.1 U	60	50.6	82	70-130	
1,2-Dichlorobenzene-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4589637

Parameter	Units	35727354001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
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	0.59 U	0.59 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	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 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	6.0 U	6.0 U		40	
2-Hexanone	ug/L	10.0 U	10.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	9.4 U	9.4 U		40	
Acrylonitrile	ug/L	11.0 U	11.0 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

SAMPLE DUPLICATE: 4589637

Parameter	Units	35727354001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.44 U	0.44 U		40	
Bromoform	ug/L	2.8 U	2.8 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 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	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.92 U	0.92 U		40	
cis-1,2-Dichloroethene	ug/L	0.83 U	0.83 U		40	
cis-1,3-Dichloropropene	ug/L	0.51 U	0.51 U		40	
Dibromochloromethane	ug/L	0.97 U	0.97 U		40	
Dibromomethane	ug/L	0.34 U	0.34 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	4.4 U	4.4 U		40	
Styrene	ug/L	0.65 U	0.65 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.71 U	0.71 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.89 U	0.89 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	0.82 U	0.82 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.88 U	0.88 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	99	99		40	
4-Bromofluorobenzene (S)	%	100	101		40	
Toluene-d8 (S)	%	100	100		40	

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

QC Batch: 834878

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35727199002

METHOD BLANK: 4589643

Matrix: Water

Associated Lab Samples: 35727199002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	06/25/22 10:35	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	06/25/22 10:35	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	06/25/22 10:35	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	06/25/22 10:35	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	06/25/22 10:35	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	06/25/22 10:35	J(v1)
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	06/25/22 10:35	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	06/25/22 10:35	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	06/25/22 10:35	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	06/25/22 10:35	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	06/25/22 10:35	
2-Butanone (MEK)	ug/L	6.0 U	50.0	6.0	06/25/22 10:35	
2-Hexanone	ug/L	10.0 U	25.0	10.0	06/25/22 10:35	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	06/25/22 10:35	
Acetone	ug/L	9.4 U	25.0	9.4	06/25/22 10:35	
Acrylonitrile	ug/L	11.0 U	20.0	11.0	06/25/22 10:35	
Benzene	ug/L	0.30 U	1.0	0.30	06/25/22 10:35	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	06/25/22 10:35	
Bromodichloromethane	ug/L	0.44 U	1.0	0.44	06/25/22 10:35	
Bromoform	ug/L	2.8 U	3.0	2.8	06/25/22 10:35	
Bromomethane	ug/L	3.9 U	10.0	3.9	06/25/22 10:35	
Carbon disulfide	ug/L	1.8 U	10.0	1.8	06/25/22 10:35	J(v1)
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	06/25/22 10:35	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	06/25/22 10:35	
Chloroethane	ug/L	3.7 U	10.0	3.7	06/25/22 10:35	
Chloroform	ug/L	0.56 U	1.0	0.56	06/25/22 10:35	
Chloromethane	ug/L	0.92 U	1.0	0.92	06/25/22 10:35	J(v1)
cis-1,2-Dichloroethene	ug/L	0.83 U	1.0	0.83	06/25/22 10:35	
cis-1,3-Dichloropropene	ug/L	0.51 U	1.0	0.51	06/25/22 10:35	
Dibromochloromethane	ug/L	0.97 U	2.0	0.97	06/25/22 10:35	
Dibromomethane	ug/L	0.34 U	2.0	0.34	06/25/22 10:35	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	06/25/22 10:35	
Iodomethane	ug/L	9.3 U	10.0	9.3	06/25/22 10:35	
Methylene Chloride	ug/L	4.4 U	5.0	4.4	06/25/22 10:35	J(v1)
Styrene	ug/L	0.65 U	1.0	0.65	06/25/22 10:35	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	06/25/22 10:35	
Toluene	ug/L	0.71 U	1.0	0.71	06/25/22 10:35	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	06/25/22 10:35	
trans-1,3-Dichloropropene	ug/L	0.89 U	1.0	0.89	06/25/22 10:35	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	06/25/22 10:35	

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

METHOD BLANK: 4589643

Matrix: Water

Associated Lab Samples: 35727199002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	06/25/22 10:35	
Trichlorofluoromethane	ug/L	0.82 U	1.0	0.82	06/25/22 10:35	J(v1)
Vinyl acetate	ug/L	1.8 U	10.0	1.8	06/25/22 10:35	
Vinyl chloride	ug/L	0.88 U	1.0	0.88	06/25/22 10:35	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	06/25/22 10:35	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130		06/25/22 10:35	
4-Bromofluorobenzene (S)	%	92	70-130		06/25/22 10:35	
Toluene-d8 (S)	%	107	70-130		06/25/22 10:35	

LABORATORY CONTROL SAMPLE: 4589644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,1-Trichloroethane	ug/L	20	23.3	117	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	68-125	
1,1,2-Trichloroethane	ug/L	20	18.5	93	70-130	
1,1-Dichloroethane	ug/L	20	23.0	115	70-130	
1,1-Dichloroethene	ug/L	20	27.0	135	66-133	J(L1),J(v1)
1,2,3-Trichloropropane	ug/L	20	19.6	98	62-127	
1,2-Dichlorobenzene	ug/L	20	19.7	98	70-130	
1,2-Dichloroethane	ug/L	20	20.9	104	70-130	
1,2-Dichloropropane	ug/L	20	21.9	110	70-130	
1,4-Dichlorobenzene	ug/L	20	20.4	102	70-130	
2-Butanone (MEK)	ug/L	100	107	107	47-143	
2-Hexanone	ug/L	100	102	102	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.1	93	57-132	
Acetone	ug/L	100	115	115	46-148	
Acrylonitrile	ug/L	100	94.4	94	60-143	
Benzene	ug/L	20	22.8	114	70-130	
Bromochloromethane	ug/L	20	21.7	108	70-130	
Bromodichloromethane	ug/L	20	20.5	102	70-130	
Bromoform	ug/L	20	17.3	86	49-126	
Bromomethane	ug/L	20	18.7	94	10-165	
Carbon disulfide	ug/L	20	29.2	146	60-141	J(L1),J(v1)
Carbon tetrachloride	ug/L	20	23.0	115	63-126	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	21.4	107	71-142	
Chloroform	ug/L	20	20.1	100	70-130	
Chloromethane	ug/L	20	27.0	135	40-140	J(v1)
cis-1,2-Dichloroethene	ug/L	20	22.0	110	70-130	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	70-130	
Dibromochloromethane	ug/L	20	19.6	98	62-118	
Dibromomethane	ug/L	20	21.0	105	70-130	
Ethylbenzene	ug/L	20	20.9	104	70-130	

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

LABORATORY CONTROL SAMPLE: 4589644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	23.1	115	10-164	
Methylene Chloride	ug/L	20	25.0	125	65-136	J(v1)
Styrene	ug/L	20	18.7	94	70-130	
Tetrachloroethene	ug/L	20	21.3	106	64-134	
Toluene	ug/L	20	19.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	23.3	116	68-127	
trans-1,3-Dichloropropene	ug/L	20	18.8	94	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	20.8	104	42-129	
Trichloroethene	ug/L	20	23.1	115	70-130	
Trichlorofluoromethane	ug/L	20	24.3	121	65-135	J(v1)
Vinyl acetate	ug/L	20	19.7	98	60-144	
Vinyl chloride	ug/L	20	21.6	108	68-131	
Xylene (Total)	ug/L	60	62.2	104	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			106	70-130	

MATRIX SPIKE SAMPLE: 4589646

Parameter	Units	35727243006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	16.0	80	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	14.9	74	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	14.7	74	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	18.7	94	70-130	J(v1)
1,1-Dichloroethene	ug/L	0.82 I	20	23.3	113	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	13.6	68	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	14.6	73	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	16.1	80	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	17.2	86	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	14.8	74	70-130	
2-Butanone (MEK)	ug/L	75.1	100	186	111	47-143	
2-Hexanone	ug/L	10.0 U	100	87.2	87	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	77.8	78	57-132	
Acetone	ug/L	44.6	100	155	111	46-148	
Acrylonitrile	ug/L	11.0 U	100	80.8	81	60-143	
Benzene	ug/L	0.30 U	20	18.7	93	70-130	
Bromochloromethane	ug/L	0.37 U	20	18.1	91	70-130	
Bromodichloromethane	ug/L	0.44 U	20	16.6	83	70-130	
Bromoform	ug/L	2.8 U	20	13.8	69	49-126	
Bromomethane	ug/L	3.9 U	20	11.3	57	10-165	
Carbon disulfide	ug/L	1.8 U	20	24.4	118	60-141	J(v1)
Carbon tetrachloride	ug/L	0.44 U	20	18.5	93	63-126	
Chlorobenzene	ug/L	0.35 U	20	16.2	81	70-130	
Chloroethane	ug/L	3.7 U	20	18.0	90	71-142	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

MATRIX SPIKE SAMPLE: 4589646

Parameter	Units	35727243006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	0.56 U	20	15.7	78	70-130	
Chloromethane	ug/L	0.92 U	20	18.8	94	40-140	J(v1)
cis-1,2-Dichloroethene	ug/L	654	20	520	-670	70-130	J(M1),L
cis-1,3-Dichloropropene	ug/L	0.51 U	20	15.8	79	70-130	
Dibromochloromethane	ug/L	0.97 U	20	15.0	75	62-118	
Dibromomethane	ug/L	0.34 U	20	16.9	85	70-130	
Ethylbenzene	ug/L	0.30 U	20	16.3	81	70-130	
Iodomethane	ug/L	9.3 U	20	9.6 I	48	10-164	
Methylene Chloride	ug/L	4.4 U	20	19.0	95	65-136	J(v1)
Styrene	ug/L	0.65 U	20	13.4	67	70-130	J(M1)
Tetrachloroethene	ug/L	7.6	20	26.5	94	64-134	
Toluene	ug/L	0.71 U	20	15.5	76	70-130	
trans-1,2-Dichloroethene	ug/L	0.54 I	20	19.7	96	68-127	
trans-1,3-Dichloropropene	ug/L	0.89 U	20	14.2	71	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	11.5	57	42-129	
Trichloroethene	ug/L	1.8	20	20.3	93	70-130	
Trichlorofluoromethane	ug/L	0.82 U	20	21.8	109	65-135	J(v1)
Vinyl acetate	ug/L	1.8 U	20	16.6	83	60-144	
Vinyl chloride	ug/L	0.88 U	20	21.3	103	68-131	
Xylene (Total)	ug/L	2.1 U	60	47.1	79	70-130	
1,2-Dichlorobenzene-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				105	70-130	

SAMPLE DUPLICATE: 4589645

Parameter	Units	35727243005 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	0.59 U	0.59 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	0.59 U	0.59 U		40	J(v1)
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 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	116	110	5	40	
2-Hexanone	ug/L	10.0 U	10.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	206	197	5	40	
Acrylonitrile	ug/L	11.0 U	11.0 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Resource Recovery (8260)

Pace Project No.: 35727199

SAMPLE DUPLICATE: 4589645

Parameter	Units	35727243005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.44 U	0.44 U		40	
Bromoform	ug/L	2.8 U	2.8 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	
Carbon disulfide	ug/L	1.8 U	1.8 U		40	J(v1)
Carbon tetrachloride	ug/L	0.44 U	0.44 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	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.92 U	0.92 U		40	J(v1)
cis-1,2-Dichloroethene	ug/L	71.5	70.5	2	40	
cis-1,3-Dichloropropene	ug/L	0.51 U	0.51 U		40	
Dibromochloromethane	ug/L	0.97 U	0.97 U		40	
Dibromomethane	ug/L	0.34 U	0.34 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	4.4 U	4.4 U		40	J(v1)
Styrene	ug/L	0.65 U	0.65 U		40	
Tetrachloroethene	ug/L	166	158	4	40	
Toluene	ug/L	0.71 U	0.71 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.89 U	0.89 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	13.2	13.7	3	40	
Trichlorofluoromethane	ug/L	0.82 U	0.82 U		40	J(v1)
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.88 U	0.88 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	104	105		40	
4-Bromofluorobenzene (S)	%	90	88		40	
Toluene-d8 (S)	%	105	107		40	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Resource Recovery (8260)

Pace Project No.: 35727199

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

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.

J(v1) The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

J(v2) The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

J(v3) The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Resource Recovery (8260)
Pace Project No.: 35727199

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35727199001	AD 27058 4MW9	EPA 8260	834876		
35727199002	AD 27059 4MW3A	EPA 8260	834878		

REPORT OF LABORATORY ANALYSIS

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WO#: 35727199



Project #
Project Manager:
Client:

PM: CLG
CLIENT: PASCOU

Due Date: 07/11/22

Date and Initials of person:
Examining contents: DS
Label: 6-24-22
Deliver: 6-24-22
pH: _____

Thermometer Used: T202 Date: 6-24-22 Time: 1300 Initials: DS

State of Origin: FL

For WV projects, all containers verified to ≤6 °C

- Cooler #1 Temp.°C 0.7 (Visual) +0.2 (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
- Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

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

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Melted 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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>expidite</u>
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Comments/ Resolution (use back for additional comments):



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

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

West Pasco Class III Landfill

Report Date: 6/28/2022

Hays Road

Shady Hills, Fl

Justin G. Roessler

Sample Number: **AD27059**
 Sample Method: SP
 Date Sampled: 06/23/2022
 Time Sampled: 15:15
 Sampled By: GTORREY

Sample ID: 4MW3A @ CLASS III
 Sample Matrix: AQUEOUS-Groundwater
 Date Received: 06/23/2022
 Time Received: 15:57
 Received By: CS
 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
pH Field	FDEP FT 1100	06/23/2022	15:15	GST	7.18	D	Std Units	0.10
Turbidity Field	FDEP FT 1600	06/23/2022	15:15	GST	0.98	D	NTU	0.00
Dissolved Oxygen Field	FDEP FT 1500	06/23/2022	15:15	GST	1.99	D	mg/L	0.01
Conductivity Field	FDEP FT 1200	06/23/2022	15:15	GST	399	D	umhos/cm	1
Temperature Field	FDEP FT 1400	06/23/2022	15:15	GST	25.51	D	Deg C	0.00
Water Level NGVD	DEP-SOP	06/23/2022	15:15	GST	27.22	D	Ft.	0
Color by Observation	Observation	06/23/2022	15:15	GST	CLEAR	D	ObsColor	0

Analysis Comments

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

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards



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

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Pasco County Res Rec
Hays Road
Shady Hills, Fl

Report Date: 6/28/2022

Justin Roessler

Sample Number:	AD27058	Sample ID:	4MW9 @ CLASS III
Sample Method:	SP	Sample Matrix:	AQUEOUS-Groundwater
Date Sampled:	06/23/2022	Date Received:	06/23/2022
Time Sampled:	11:06	Time Received:	15:57
Sampled By:	GTORREY	Received By:	CS
		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
pH Field	FDEP FT 1100	06/23/2022	11:06	GST	7.11	D	Std Units	0.10
Turbidity Field	FDEP FT 1600	06/23/2022	11:06	GST	0.09	D	NTU	0.00
Dissolved Oxygen Field	FDEP FT 1500	06/23/2022	11:06	GST	2.01	D	mg/L	0.01
Conductivity Field	FDEP FT 1200	06/23/2022	11:06	GST	422	D	umhos/cm	1
Temperature Field	FDEP FT 1400	06/23/2022	11:06	GST	25.76	D	Deg C	0.00
Water Level NGVD	DEP-SOP	06/23/2022	11:06	GST	27.78	D	Ft.	0
Color by Observation	Observation	06/23/2022	11:06	GST	CLEAR	D	ObsColor	0

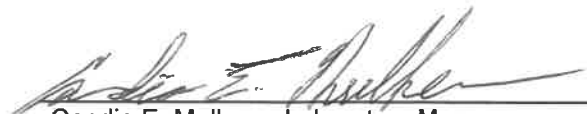
Analysis Comments

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



Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards


DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: RESOURCE RECOVERY (WEST PASCO LF)		SITE LOCATION: HAYS ROAD, SPRING HILL, FL	
WELL NO: 2342	SAMPLE ID: 4MW-9	DATE: 6/23/22	

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): ½"	WELL SCREEN INTERVAL DEPTH: 30.0 feet to 60.0 feet	STATIC DEPTH TO WATER (feet): 25	PURGE PUMP TYPE OR BAILER: BP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (60.00 feet - 25.00 feet) X 0.65 gallons/foot = 22.7 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = 0.26 gallons + (0.010 gallons/foot X feet) + 0 gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29.00	PURGING INITIATED AT: 800	PURGING ENDED AT: 1104	TOTAL VOLUME PURGED (gallons): 92							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) mmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
846	23	23	.5	25.11	7.05	24.73	421	1.64	0.21	Clear	None
932	23	46	.5	25.11	7.07	25.06	423	1.97	0.22	Clear	None
1018	23	69	.5	25.11	7.10	25.39	422	1.99	0.31	Clear	None
1104	23	92	.5	25.11	7.11	25.76	422	2.01	0.09	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											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Greg Torrey / Pasco County Environmental Lab				SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: 1106		SAMPLING ENDED AT: 1106	
PUMP OR TUBING DEPTH IN WELL (feet): 29.00				TUBING MATERIAL CODE: PE/T			FIELD-FILTERED: Y N		FILTER SIZE: NA mm	
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)			DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATION USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	HDPE	1 Liter	Wet Ice	NA		SM2540C - TDS		BP	
	1	HDPE	250 mls	Wet Ice	NA		EPA 300.0		BP	
	2	HDPE	250 mls	H2SO4	PACE	<2	Nitrate/Ammonia		BP	
	1	HDPE	250 mls	HNO3	PACE	<2	Metals; Fe Hg Na		BP	
	3	CG	40 mls	HCl	0.25 mls 1:1 HCl	<2	App I VOCs		BP	
	3	CG	40 mls	Wet Ice	NA		8011 EDB; DBCP		BP	
REMARKS: WELL T.O.P. ELEVATION (N.G.V.D.) = 52.78 ft					WATER LEVEL (N.G.V.D.) = 27.78					
LABORATORY I.D. = ad 27058										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

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

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

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)