

April 21, 2022

Mr. BJ LeRoy
Wisconsin Department of Natural Resources
1027 W. St. Paul Ave
Milwaukee, WI 53233

**RE: 2021 Annual Leachate Sampling Results
Barrett Landfill, License No. 01940
New Berlin, Wisconsin
Waukesha County, FID # 268134130**

Dear Mr. LeRoy:

Kapur Inc. (Kapur) has completed the annual leachate sampling event at the above referenced landfill for the 2021 monitoring year.

Kapur completed leachate sampling from the leachate lift station in accordance with the *Operation and Maintenance Plan - Barrett Landfill, 21001 Coffee Road, New Berlin, Wisconsin* dated August 2019. Sampling was conducted on August 26, 2021. Samples were collected using a disposable bailer.

When compared to ch. NR 140 groundwater standards, enforcement standard (ES) exceedances were observed. Chloride, iron, lead, nitrogen/ammonia and tetrahydrofuran exceeded their applicable ESs.

Field parameters were as followed:

- Temperature – 18.2 °C
- pH – 9.28
- Conductivity – 3,999* uS/cm (* = out of range)
- Color – Brown
- Odor – Some
- Clarity – Cloudy to slightly turbid

Laboratory analytical results are attached. These results have been sent to Mike Solomon for upload to the GEMS database.





If you have any questions or comments, please feel free to call me at (414) 410-5206.

Sincerely,

Kapur Inc.

Ashley A. Wagner
Ashley A. Wagner
Professional Geologist

attachments



September 09, 2021

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 27, 2021. 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 - Green Bay

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

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40232350001	LEACHATE (258)	Water	08/26/21 14:50	08/27/21 07:30
40232350002	TRIP BLANK	Water	08/26/21 00:00	08/27/21 07:30

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SAMPLE ANALYTE COUNT

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40232350001	LEACHATE (258)	EPA 6010D	TXW	6
		EPA 7470	AJT	1
		EPA 8270E	RJN	75
		EPA 8260	MDS	45
			CDH	3
		SM 2540D	JXM	1
		SM 5210B	JXM	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 410.4	TMK	1
		40232350002	TRIP BLANK	EPA 8260

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: LEACHATE (258) **Lab ID: 40232350001** Collected: 08/26/21 14:50 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Cadmium	<2.7	ug/L	10.0	2.7	2	08/30/21 13:32	09/01/21 12:31	7440-43-9	D3
Iron	1900	ug/L	200	113	2	08/30/21 13:32	09/01/21 12:31	7439-89-6	
Lead	<11.8	ug/L	40.0	11.8	2	08/30/21 13:32	09/01/21 12:31	7439-92-1	D3
Manganese	12.1	ug/L	10.0	3.1	2	08/30/21 13:32	09/01/21 12:31	7439-96-5	
Sodium	2320	mg/L	50.0	35.0	100	08/30/21 13:32	09/01/21 12:24	7440-23-5	
Total Hardness by 2340B	180	mg/L	4.0	0.30	2	08/30/21 13:32	09/01/21 12:31		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	08/30/21 09:55	08/31/21 09:24	7439-97-6	
8270E MSSV Semivolatile Org									
Analytical Method: EPA 8270E Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4,5-Tetrachlorobenzene	<385	ug/L	1930	385	40	08/31/21 12:50	09/01/21 12:31	95-94-3	
1,2,4-Trichlorobenzene	<605	ug/L	2020	605	40	08/31/21 12:50	09/01/21 12:31	120-82-1	
1,2-Dichlorobenzene	<557	ug/L	1930	557	40	08/31/21 12:50	09/01/21 12:31	95-50-1	
1,3-Dichlorobenzene	<595	ug/L	1980	595	40	08/31/21 12:50	09/01/21 12:31	541-73-1	
1,4-Dichlorobenzene	<555	ug/L	1930	555	40	08/31/21 12:50	09/01/21 12:31	106-46-7	
1-Methylnaphthalene	<709	ug/L	2370	709	40	08/31/21 12:50	09/01/21 12:31	90-12-0	
2,2'-Oxybis(1-chloropropane)	<475	ug/L	1930	475	40	08/31/21 12:50	09/01/21 12:31	108-60-1	
2,3,4,6-Tetrachlorophenol	<751	ug/L	2500	751	40	08/31/21 12:50	09/01/21 12:31	58-90-2	
2,4,5-Trichlorophenol	<248	ug/L	1930	248	40	08/31/21 12:50	09/01/21 12:31	95-95-4	
2,4,6-Trichlorophenol	<307	ug/L	1930	307	40	08/31/21 12:50	09/01/21 12:31	88-06-2	
2,4-Dichlorophenol	<345	ug/L	1930	345	40	08/31/21 12:50	09/01/21 12:31	120-83-2	
2,4-Dimethylphenol	<447	ug/L	1930	447	40	08/31/21 12:50	09/01/21 12:31	105-67-9	
2,4-Dinitrophenol	<945	ug/L	3850	945	40	08/31/21 12:50	09/01/21 12:31	51-28-5	
2,4-Dinitrotoluene	<408	ug/L	1930	408	40	08/31/21 12:50	09/01/21 12:31	121-14-2	
2,6-Dinitrotoluene	<298	ug/L	1930	298	40	08/31/21 12:50	09/01/21 12:31	606-20-2	
2-Chloronaphthalene	<319	ug/L	1930	319	40	08/31/21 12:50	09/01/21 12:31	91-58-7	
2-Chlorophenol	<319	ug/L	1930	319	40	08/31/21 12:50	09/01/21 12:31	95-57-8	
2-Methylnaphthalene	<449	ug/L	1930	449	40	08/31/21 12:50	09/01/21 12:31	91-57-6	
2-Methylphenol(o-Cresol)	<359	ug/L	1930	359	40	08/31/21 12:50	09/01/21 12:31	95-48-7	
2-Nitroaniline	<365	ug/L	1930	365	40	08/31/21 12:50	09/01/21 12:31	88-74-4	
2-Nitrophenol	<318	ug/L	1930	318	40	08/31/21 12:50	09/01/21 12:31	88-75-5	
3&4-Methylphenol(m&p Cresol)	<236	ug/L	1930	236	40	08/31/21 12:50	09/01/21 12:31		
3,3'-Dichlorobenzidine	<518	ug/L	1930	518	40	08/31/21 12:50	09/01/21 12:31	91-94-1	1q
3-Nitroaniline	<526	ug/L	1930	526	40	08/31/21 12:50	09/01/21 12:31	99-09-2	
4,6-Dinitro-2-methylphenol	<1200	ug/L	4010	1200	40	08/31/21 12:50	09/01/21 12:31	534-52-1	
4-Bromophenylphenyl ether	<368	ug/L	1930	368	40	08/31/21 12:50	09/01/21 12:31	101-55-3	
4-Chloro-3-methylphenol	<263	ug/L	1930	263	40	08/31/21 12:50	09/01/21 12:31	59-50-7	
4-Chlorophenylphenyl ether	<319	ug/L	1930	319	40	08/31/21 12:50	09/01/21 12:31	7005-72-3	
4-Nitroaniline	<1160	ug/L	3850	1160	40	08/31/21 12:50	09/01/21 12:31	100-01-6	
4-Nitrophenol	<1180	ug/L	3930	1180	40	08/31/21 12:50	09/01/21 12:31	100-02-7	
Acenaphthene	<294	ug/L	1930	294	40	08/31/21 12:50	09/01/21 12:31	83-32-9	
Acenaphthylene	<281	ug/L	1930	281	40	08/31/21 12:50	09/01/21 12:31	208-96-8	

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ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

Sample: LEACHATE (258) **Lab ID: 40232350001** Collected: 08/26/21 14:50 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Semivolatile Org									
Analytical Method: EPA 8270E Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acetophenone	<847	ug/L	2820	847	40	08/31/21 12:50	09/01/21 12:31	98-86-2	
Anthracene	<312	ug/L	1930	312	40	08/31/21 12:50	09/01/21 12:31	120-12-7	
Benzo(a)anthracene	<326	ug/L	1930	326	40	08/31/21 12:50	09/01/21 12:31	56-55-3	
Benzo(a)pyrene	<490	ug/L	1930	490	40	08/31/21 12:50	09/01/21 12:31	50-32-8	
Benzo(b)fluoranthene	<399	ug/L	1930	399	40	08/31/21 12:50	09/01/21 12:31	205-99-2	
Benzo(g,h,i)perylene	<531	ug/L	1930	531	40	08/31/21 12:50	09/01/21 12:31	191-24-2	
Benzo(k)fluoranthene	<433	ug/L	1930	433	40	08/31/21 12:50	09/01/21 12:31	207-08-9	
Benzyl alcohol	<250	ug/L	1930	250	40	08/31/21 12:50	09/01/21 12:31	100-51-6	
Butylbenzylphthalate	<500	ug/L	1930	500	40	08/31/21 12:50	09/01/21 12:31	85-68-7	
Chrysene	<489	ug/L	1930	489	40	08/31/21 12:50	09/01/21 12:31	218-01-9	
Di-n-butylphthalate	<474	ug/L	1930	474	40	08/31/21 12:50	09/01/21 12:31	84-74-2	
Di-n-octylphthalate	<1840	ug/L	6130	1840	40	08/31/21 12:50	09/01/21 12:31	117-84-0	
Dibenz(a,h)anthracene	<426	ug/L	1930	426	40	08/31/21 12:50	09/01/21 12:31	53-70-3	
Dibenzofuran	<327	ug/L	1930	327	40	08/31/21 12:50	09/01/21 12:31	132-64-9	
Diethylphthalate	<299	ug/L	1930	299	40	08/31/21 12:50	09/01/21 12:31	84-66-2	
Dimethylphthalate	<278	ug/L	1930	278	40	08/31/21 12:50	09/01/21 12:31	131-11-3	
Fluoranthene	<381	ug/L	1930	381	40	08/31/21 12:50	09/01/21 12:31	206-44-0	
Fluorene	<349	ug/L	1930	349	40	08/31/21 12:50	09/01/21 12:31	86-73-7	
Hexachloro-1,3-butadiene	<442	ug/L	2120	442	40	08/31/21 12:50	09/01/21 12:31	87-68-3	
Hexachlorobenzene	<636	ug/L	1930	636	40	08/31/21 12:50	09/01/21 12:31	118-74-1	
Hexachlorocyclopentadiene	<388	ug/L	1930	388	40	08/31/21 12:50	09/01/21 12:31	77-47-4	
Hexachloroethane	<547	ug/L	1930	547	40	08/31/21 12:50	09/01/21 12:31	67-72-1	
Indeno(1,2,3-cd)pyrene	<469	ug/L	1930	469	40	08/31/21 12:50	09/01/21 12:31	193-39-5	
Isophorone	<298	ug/L	1930	298	40	08/31/21 12:50	09/01/21 12:31	78-59-1	
N-Nitroso-di-n-propylamine	<437	ug/L	1930	437	40	08/31/21 12:50	09/01/21 12:31	621-64-7	
N-Nitrosodimethylamine	<281	ug/L	3850	281	40	08/31/21 12:50	09/01/21 12:31	62-75-9	
N-Nitrosodiphenylamine	<1330	ug/L	4430	1330	40	08/31/21 12:50	09/01/21 12:31	86-30-6	
Naphthalene	<469	ug/L	1930	469	40	08/31/21 12:50	09/01/21 12:31	91-20-3	
Nitrobenzene	<414	ug/L	1930	414	40	08/31/21 12:50	09/01/21 12:31	98-95-3	
Pentachlorophenol	<1760	ug/L	5860	1760	40	08/31/21 12:50	09/01/21 12:31	87-86-5	
Phenanthrene	<367	ug/L	1930	367	40	08/31/21 12:50	09/01/21 12:31	85-01-8	
Phenol	<124	ug/L	1930	124	40	08/31/21 12:50	09/01/21 12:31	108-95-2	D3
Pyrene	<463	ug/L	1930	463	40	08/31/21 12:50	09/01/21 12:31	129-00-0	
Pyridine	<582	ug/L	1940	582	40	08/31/21 12:50	09/01/21 12:31	110-86-1	
bis(2-Chloroethoxy)methane	<504	ug/L	1930	504	40	08/31/21 12:50	09/01/21 12:31	111-91-1	
bis(2-Chloroethyl) ether	<450	ug/L	1930	450	40	08/31/21 12:50	09/01/21 12:31	111-44-4	
bis(2-Ethylhexyl)phthalate	<1110	ug/L	3700	1110	40	08/31/21 12:50	09/01/21 12:31	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	73	%	41-118		40	08/31/21 12:50	09/01/21 12:31	4165-60-0	
2-Fluorobiphenyl (S)	79	%	54-107		40	08/31/21 12:50	09/01/21 12:31	321-60-8	
Terphenyl-d14 (S)	104	%	51-129		40	08/31/21 12:50	09/01/21 12:31	1718-51-0	
Phenol-d6 (S)	28	%	12-120		40	08/31/21 12:50	09/01/21 12:31	13127-88-3	
2-Fluorophenol (S)	41	%	23-69		40	08/31/21 12:50	09/01/21 12:31	367-12-4	
2,4,6-Tribromophenol (S)	95	%	62-172		40	08/31/21 12:50	09/01/21 12:31	118-79-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: LEACHATE (258) **Lab ID: 40232350001** Collected: 08/26/21 14:50 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<3.0	ug/L	10.0	3.0	10		09/01/21 12:19	71-55-6	
1,1,2-Trichloroethane	<3.4	ug/L	50.0	3.4	10		09/01/21 12:19	79-00-5	
1,1-Dichloroethane	<3.0	ug/L	10.0	3.0	10		09/01/21 12:19	75-34-3	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		09/01/21 12:19	75-35-4	
1,2-Dibromo-3-chloropropane	<23.7	ug/L	50.0	23.7	10		09/01/21 12:19	96-12-8	
1,2-Dibromoethane (EDB)	<3.1	ug/L	10.0	3.1	10		09/01/21 12:19	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/L	10.0	3.3	10		09/01/21 12:19	95-50-1	
1,2-Dichloroethane	<2.9	ug/L	10.0	2.9	10		09/01/21 12:19	107-06-2	
1,2-Dichloropropane	<4.5	ug/L	10.0	4.5	10		09/01/21 12:19	78-87-5	
1,3-Dichlorobenzene	<3.5	ug/L	10.0	3.5	10		09/01/21 12:19	541-73-1	
1,4-Dichlorobenzene	<8.9	ug/L	10.0	8.9	10		09/01/21 12:19	106-46-7	
2-Butanone (MEK)	<65.2	ug/L	250	65.2	10		09/01/21 12:19	78-93-3	
Acetone	187J	ug/L	250	86.4	10		09/01/21 12:19	67-64-1	
Benzene	<3.0	ug/L	10.0	3.0	10		09/01/21 12:19	71-43-2	
Bromodichloromethane	<4.2	ug/L	10.0	4.2	10		09/01/21 12:19	75-27-4	
Bromoform	<38.0	ug/L	50.0	38.0	10		09/01/21 12:19	75-25-2	
Bromomethane	<11.9	ug/L	50.0	11.9	10		09/01/21 12:19	74-83-9	
Carbon disulfide	<11.0	ug/L	50.0	11.0	10		09/01/21 12:19	75-15-0	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		09/01/21 12:19	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		09/01/21 12:19	108-90-7	
Chloroethane	<13.8	ug/L	50.0	13.8	10		09/01/21 12:19	75-00-3	
Chloroform	<11.8	ug/L	50.0	11.8	10		09/01/21 12:19	67-66-3	
Chloromethane	<16.4	ug/L	50.0	16.4	10		09/01/21 12:19	74-87-3	
Dibromochloromethane	<26.4	ug/L	50.0	26.4	10		09/01/21 12:19	124-48-1	
Dibromomethane	<9.9	ug/L	50.0	9.9	10		09/01/21 12:19	74-95-3	
Dichlorodifluoromethane	<4.6	ug/L	50.0	4.6	10		09/01/21 12:19	75-71-8	
Ethylbenzene	<3.3	ug/L	10.0	3.3	10		09/01/21 12:19	100-41-4	
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		09/01/21 12:19	1634-04-4	
Methylene Chloride	<3.2	ug/L	50.0	3.2	10		09/01/21 12:19	75-09-2	
Naphthalene	<11.3	ug/L	50.0	11.3	10		09/01/21 12:19	91-20-3	
Styrene	<3.6	ug/L	10.0	3.6	10		09/01/21 12:19	100-42-5	
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		09/01/21 12:19	127-18-4	
Tetrahydrofuran	124J	ug/L	250	24.2	10		09/01/21 12:19	109-99-9	
Toluene	3.7J	ug/L	10.0	2.9	10		09/01/21 12:19	108-88-3	
Trichloroethene	<3.2	ug/L	10.0	3.2	10		09/01/21 12:19	79-01-6	
Trichlorofluoromethane	<4.2	ug/L	10.0	4.2	10		09/01/21 12:19	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		09/01/21 12:19	75-01-4	
Xylene (Total)	<10.5	ug/L	30.0	10.5	10		09/01/21 12:19	1330-20-7	
cis-1,2-Dichloroethene	<4.7	ug/L	10.0	4.7	10		09/01/21 12:19	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	10.0	3.6	10		09/01/21 12:19	10061-01-5	
trans-1,2-Dichloroethene	<5.3	ug/L	10.0	5.3	10		09/01/21 12:19	156-60-5	
trans-1,3-Dichloropropene	<34.6	ug/L	50.0	34.6	10		09/01/21 12:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	125	%	70-130		10		09/01/21 12:19	460-00-4	pH
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		10		09/01/21 12:19	2199-69-1	

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ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: LEACHATE (258) **Lab ID: 40232350001** Collected: 08/26/21 14:50 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	103	%	70-130		10		09/01/21 12:19	2037-26-5	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	9.28	Std. Units			1		08/26/21 14:50		
Field Specific Conductance	3999	umhos/cm			1		08/26/21 14:50		
Temperature, Water (C)	18.2	deg C			1		08/26/21 14:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	17.8	mg/L	2.0	0.95	1		08/30/21 08:32		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - Green Bay								
BOD, 5 day	444	mg/L	200	200	100	08/27/21 10:00	09/01/21 09:12		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	1590	mg/L	200	43.1	100		09/07/21 17:23	16887-00-6	
Sulfate	66.0	mg/L	40.0	8.9	20		09/03/21 19:48	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	5420	mg/L	1240	372	50		09/02/21 09:49		
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	487	mg/L	25.0	7.2	50	09/01/21 15:42	09/01/21 17:27	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	517	mg/L	100	21.2	5	09/02/21 13:23	09/02/21 18:29	7727-37-9	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	2760	mg/L	400	118	1	09/07/21 16:12	09/07/21 19:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

Sample: TRIP BLANK **Lab ID: 40232350002** Collected: 08/26/21 00:00 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		08/31/21 11:26	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		08/31/21 11:26	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		08/31/21 11:26	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		08/31/21 11:26	75-35-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		08/31/21 11:26	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		08/31/21 11:26	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		08/31/21 11:26	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		08/31/21 11:26	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		08/31/21 11:26	78-87-5	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		08/31/21 11:26	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		08/31/21 11:26	106-46-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		08/31/21 11:26	78-93-3	
Acetone	<8.6	ug/L	25.0	8.6	1		08/31/21 11:26	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		08/31/21 11:26	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		08/31/21 11:26	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		08/31/21 11:26	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		08/31/21 11:26	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		08/31/21 11:26	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		08/31/21 11:26	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		08/31/21 11:26	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		08/31/21 11:26	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		08/31/21 11:26	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		08/31/21 11:26	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		08/31/21 11:26	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		08/31/21 11:26	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		08/31/21 11:26	75-71-8	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		08/31/21 11:26	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		08/31/21 11:26	1634-04-4	
Methylene Chloride	1.8J	ug/L	5.0	0.32	1		08/31/21 11:26	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/31/21 11:26	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/31/21 11:26	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/31/21 11:26	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		08/31/21 11:26	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		08/31/21 11:26	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/31/21 11:26	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/31/21 11:26	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/31/21 11:26	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		08/31/21 11:26	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/31/21 11:26	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/31/21 11:26	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/31/21 11:26	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/31/21 11:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		08/31/21 11:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		08/31/21 11:26	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

Sample: TRIP BLANK **Lab ID: 40232350002** Collected: 08/26/21 00:00 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		08/31/21 11:26	2037-26-5	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394357 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2275909 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	08/31/21 09:03	

LABORATORY CONTROL SAMPLE: 2275910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2275911 2275912

Parameter	Units	2275911		2275912		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40232217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	ug/L	<0.066	5	5	4.7	4.7	94	94	85-115	0	20	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394403 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001

METHOD BLANK: 2276109 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<1.3	5.0	08/31/21 14:33	
Iron	ug/L	<56.7	100	08/31/21 14:33	
Lead	ug/L	<5.9	20.0	08/31/21 14:33	
Manganese	ug/L	<1.5	5.0	08/31/21 14:33	
Sodium	mg/L	<0.35	0.50	08/31/21 14:33	
Total Hardness by 2340B	mg/L	<0.15	2.0	08/31/21 14:33	

LABORATORY CONTROL SAMPLE: 2276110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	250	242	97	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lead	ug/L	250	240	96	80-120	
Manganese	ug/L	250	248	99	80-120	
Sodium	mg/L	10	9.8	98	80-120	
Total Hardness by 2340B	mg/L		65.1			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2276111 2276112

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232081001 Result	Spike Conc.	Spike Conc.	MS Result						
Cadmium	ug/L	<1.3	250	250	242	241	97	96	75-125	1	20
Iron	ug/L	149	10000	10000	10300	10300	101	102	75-125	0	20
Lead	ug/L	<5.9	250	250	239	238	95	95	75-125	0	20
Manganese	ug/L	9.3	250	250	254	255	98	98	75-125	0	20
Sodium	mg/L	168000	10	10	176	181	76	126	75-125	3	20 P6
Total Hardness by 2340B	mg/L	157000			219	220				0	20

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394467 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001, 40232350002

METHOD BLANK: 2276305 Matrix: Water

Associated Lab Samples: 40232350001, 40232350002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	08/31/21 09:23	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	08/31/21 09:23	
1,1-Dichloroethane	ug/L	<0.30	1.0	08/31/21 09:23	
1,1-Dichloroethene	ug/L	<0.58	1.0	08/31/21 09:23	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	08/31/21 09:23	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	08/31/21 09:23	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	08/31/21 09:23	
1,2-Dichloroethane	ug/L	<0.29	1.0	08/31/21 09:23	
1,2-Dichloropropane	ug/L	<0.45	1.0	08/31/21 09:23	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	08/31/21 09:23	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	08/31/21 09:23	
2-Butanone (MEK)	ug/L	<6.5	25.0	08/31/21 09:23	
Acetone	ug/L	<8.6	25.0	08/31/21 09:23	
Benzene	ug/L	<0.30	1.0	08/31/21 09:23	
Bromodichloromethane	ug/L	<0.42	1.0	08/31/21 09:23	
Bromoform	ug/L	<3.8	5.0	08/31/21 09:23	
Bromomethane	ug/L	<1.2	5.0	08/31/21 09:23	
Carbon disulfide	ug/L	<1.1	5.0	08/31/21 09:23	
Carbon tetrachloride	ug/L	<0.37	1.0	08/31/21 09:23	
Chlorobenzene	ug/L	<0.86	1.0	08/31/21 09:23	
Chloroethane	ug/L	<1.4	5.0	08/31/21 09:23	
Chloroform	ug/L	<1.2	5.0	08/31/21 09:23	
Chloromethane	ug/L	<1.6	5.0	08/31/21 09:23	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	08/31/21 09:23	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	08/31/21 09:23	
Dibromochloromethane	ug/L	<2.6	5.0	08/31/21 09:23	
Dibromomethane	ug/L	<0.99	5.0	08/31/21 09:23	
Dichlorodifluoromethane	ug/L	<0.46	5.0	08/31/21 09:23	
Ethylbenzene	ug/L	<0.33	1.0	08/31/21 09:23	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	08/31/21 09:23	
Methylene Chloride	ug/L	<0.32	5.0	08/31/21 09:23	
Naphthalene	ug/L	<1.1	5.0	08/31/21 09:23	
Styrene	ug/L	<0.36	1.0	08/31/21 09:23	
Tetrachloroethene	ug/L	<0.41	1.0	08/31/21 09:23	
Tetrahydrofuran	ug/L	<2.4	25.0	08/31/21 09:23	
Toluene	ug/L	<0.29	1.0	08/31/21 09:23	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	08/31/21 09:23	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	08/31/21 09:23	
Trichloroethene	ug/L	<0.32	1.0	08/31/21 09:23	
Trichlorofluoromethane	ug/L	<0.42	1.0	08/31/21 09:23	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

METHOD BLANK: 2276305 Matrix: Water

Associated Lab Samples: 40232350001, 40232350002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	08/31/21 09:23	
Xylene (Total)	ug/L	<1.0	3.0	08/31/21 09:23	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	08/31/21 09:23	
4-Bromofluorobenzene (S)	%	110	70-130	08/31/21 09:23	
Toluene-d8 (S)	%	105	70-130	08/31/21 09:23	

LABORATORY CONTROL SAMPLE: 2276306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	68-132	
1,1-Dichloroethene	ug/L	50	55.1	110	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	48.8	98	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	70-130	
1,2-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane	ug/L	50	51.0	102	70-130	
1,2-Dichloropropane	ug/L	50	53.2	106	78-125	
1,3-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
Benzene	ug/L	50	52.8	106	70-132	
Bromodichloromethane	ug/L	50	52.0	104	70-130	
Bromoform	ug/L	50	45.9	92	65-130	
Bromomethane	ug/L	50	48.5	97	44-128	
Carbon disulfide	ug/L	50	53.7	107	60-140	
Carbon tetrachloride	ug/L	50	51.2	102	70-130	
Chlorobenzene	ug/L	50	49.9	100	70-130	
Chloroethane	ug/L	50	56.0	112	73-137	
Chloroform	ug/L	50	56.0	112	80-122	
Chloromethane	ug/L	50	54.0	108	27-148	
cis-1,2-Dichloroethene	ug/L	50	54.4	109	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.6	105	70-130	
Dibromochloromethane	ug/L	50	47.5	95	70-130	
Dichlorodifluoromethane	ug/L	50	48.4	97	22-151	
Ethylbenzene	ug/L	50	50.8	102	80-123	
Methyl-tert-butyl ether	ug/L	50	49.8	100	66-130	
Methylene Chloride	ug/L	50	40.0	80	70-130	
Styrene	ug/L	50	52.5	105	70-130	
Tetrachloroethene	ug/L	50	47.6	95	70-130	
Toluene	ug/L	50	51.2	102	80-121	
trans-1,2-Dichloroethene	ug/L	50	55.0	110	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	58-125	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	55.8	112	84-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

LABORATORY CONTROL SAMPLE: 2276306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	57.5	115	63-142	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2276466 2276467

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40232425001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50	52.7	52.5	105	105	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50	52.1	53.2	104	106	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	50	55.6	55.5	111	111	68-132	0	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	50	56.4	55.5	113	111	76-132	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	50	49.1	48.1	98	96	51-126	2	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	50	52.0	52.6	104	105	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	50	51.1	51.8	102	104	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	50	54.2	52.6	108	105	70-130	3	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50	52.7	53.4	105	107	77-125	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50	53.9	54.2	108	108	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50	53.3	53.1	107	106	70-130	0	20	
Benzene	ug/L	<0.30	50	50	50	54.0	54.0	108	108	70-132	0	20	
Bromodichloromethane	ug/L	<0.42	50	50	50	52.8	52.5	106	105	70-130	0	20	
Bromoform	ug/L	<3.8	50	50	50	45.8	47.3	92	95	65-130	3	20	
Bromomethane	ug/L	<1.2	50	50	50	53.7	57.7	107	115	44-128	7	21	
Carbon disulfide	ug/L	<1.1	50	50	50	54.8	53.8	110	108	60-140	2	20	
Carbon tetrachloride	ug/L	<0.37	50	50	50	52.8	53.1	106	106	70-132	1	20	
Chlorobenzene	ug/L	<0.86	50	50	50	50.5	50.5	101	101	70-130	0	20	
Chloroethane	ug/L	<1.4	50	50	50	56.3	55.6	113	111	70-137	1	20	
Chloroform	ug/L	<1.2	50	50	50	57.7	56.5	115	113	80-122	2	20	
Chloromethane	ug/L	<1.6	50	50	50	55.0	54.0	110	108	17-149	2	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	50	54.9	54.3	110	109	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	50	54.2	53.9	108	108	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	50	48.4	49.2	97	98	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	50	48.4	46.9	97	94	22-158	3	20	
Ethylbenzene	ug/L	<0.33	50	50	50	51.3	52.4	103	105	80-123	2	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	50	49.9	50.5	100	101	66-130	1	20	
Methylene Chloride	ug/L	<0.32	50	50	50	40.8	44.2	82	88	70-130	8	20	
Styrene	ug/L	<0.36	50	50	50	53.3	53.5	107	107	70-130	0	20	
Tetrachloroethene	ug/L	2.1	50	50	50	49.8	50.5	95	97	70-130	1	20	
Toluene	ug/L	<0.29	50	50	50	51.9	52.5	104	105	80-121	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50	55.5	55.9	111	112	70-134	1	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	50	48.3	50.1	97	100	58-130	4	20	
Trichloroethene	ug/L	<0.32	50	50	50	52.5	52.3	105	105	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

Parameter	Units	2276466		2276467		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40232425001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Trichlorofluoromethane	ug/L	<0.42	50	50	56.9	55.8	114	112	82-151	2	20		
Vinyl chloride	ug/L	<0.17	50	50	57.2	56.8	114	114	61-143	1	20		
Xylene (Total)	ug/L	<1.0	150	150	155	157	104	105	70-130	1	20		
1,2-Dichlorobenzene-d4 (S)	%						99	99	70-130				
4-Bromofluorobenzene (S)	%						107	108	70-130				
Toluene-d8 (S)	%						103	103	70-130				

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394536	Analysis Method: EPA 8270E
QC Batch Method: EPA 3510	Analysis Description: 8270E Water MSSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001

METHOD BLANK: 2276530 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	<1.0	5.0	09/01/21 09:20	
1,2,4-Trichlorobenzene	ug/L	<1.6	5.2	09/01/21 09:20	
1,2-Dichlorobenzene	ug/L	<1.4	5.0	09/01/21 09:20	
1,3-Dichlorobenzene	ug/L	<1.5	5.2	09/01/21 09:20	
1,4-Dichlorobenzene	ug/L	<1.4	5.0	09/01/21 09:20	
1-Methylnaphthalene	ug/L	<1.8	6.1	09/01/21 09:20	
2,2'-Oxybis(1-chloropropane)	ug/L	<1.2	5.0	09/01/21 09:20	
2,3,4,6-Tetrachlorophenol	ug/L	<1.9	6.5	09/01/21 09:20	
2,4,5-Trichlorophenol	ug/L	<0.64	5.0	09/01/21 09:20	
2,4,6-Trichlorophenol	ug/L	<0.80	5.0	09/01/21 09:20	
2,4-Dichlorophenol	ug/L	<0.90	5.0	09/01/21 09:20	
2,4-Dimethylphenol	ug/L	<1.2	5.0	09/01/21 09:20	
2,4-Dinitrophenol	ug/L	<2.5	10.0	09/01/21 09:20	
2,4-Dinitrotoluene	ug/L	<1.1	5.0	09/01/21 09:20	
2,6-Dinitrotoluene	ug/L	<0.77	5.0	09/01/21 09:20	
2-Chloronaphthalene	ug/L	<0.83	5.0	09/01/21 09:20	
2-Chlorophenol	ug/L	<0.83	5.0	09/01/21 09:20	
2-Methylnaphthalene	ug/L	<1.2	5.0	09/01/21 09:20	
2-Methylphenol(o-Cresol)	ug/L	<0.93	5.0	09/01/21 09:20	
2-Nitroaniline	ug/L	<0.95	5.0	09/01/21 09:20	
2-Nitrophenol	ug/L	<0.83	5.0	09/01/21 09:20	
3&4-Methylphenol(m&p Cresol)	ug/L	<0.61	5.0	09/01/21 09:20	
3,3'-Dichlorobenzidine	ug/L	<1.3	5.0	09/01/21 09:20	1q
3-Nitroaniline	ug/L	<1.4	5.0	09/01/21 09:20	
4,6-Dinitro-2-methylphenol	ug/L	<3.1	10.4	09/01/21 09:20	
4-Bromophenylphenyl ether	ug/L	<0.96	5.0	09/01/21 09:20	
4-Chloro-3-methylphenol	ug/L	<0.68	5.0	09/01/21 09:20	
4-Chlorophenylphenyl ether	ug/L	<0.83	5.0	09/01/21 09:20	
4-Nitroaniline	ug/L	<3.0	10	09/01/21 09:20	
4-Nitrophenol	ug/L	<3.1	10.2	09/01/21 09:20	
Acenaphthene	ug/L	<0.76	5.0	09/01/21 09:20	
Acenaphthylene	ug/L	<0.73	5.0	09/01/21 09:20	
Acetophenone	ug/L	<2.2	7.3	09/01/21 09:20	
Anthracene	ug/L	<0.81	5.0	09/01/21 09:20	
Benzo(a)anthracene	ug/L	<0.85	5.0	09/01/21 09:20	
Benzo(a)pyrene	ug/L	<1.3	5.0	09/01/21 09:20	
Benzo(b)fluoranthene	ug/L	<1.0	5.0	09/01/21 09:20	
Benzo(g,h,i)perylene	ug/L	<1.4	5.0	09/01/21 09:20	
Benzo(k)fluoranthene	ug/L	<1.1	5.0	09/01/21 09:20	
Benzyl alcohol	ug/L	<0.65	5.0	09/01/21 09:20	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

METHOD BLANK: 2276530 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	<1.3	5.0	09/01/21 09:20	
bis(2-Chloroethyl) ether	ug/L	<1.2	5.0	09/01/21 09:20	
bis(2-Ethylhexyl)phthalate	ug/L	<2.9	9.6	09/01/21 09:20	
Butylbenzylphthalate	ug/L	<1.3	5.0	09/01/21 09:20	
Chrysene	ug/L	<1.3	5.0	09/01/21 09:20	
Di-n-butylphthalate	ug/L	<1.2	5.0	09/01/21 09:20	
Di-n-octylphthalate	ug/L	<4.8	15.9	09/01/21 09:20	
Dibenz(a,h)anthracene	ug/L	<1.1	5.0	09/01/21 09:20	
Dibenzofuran	ug/L	<0.85	5.0	09/01/21 09:20	
Diethylphthalate	ug/L	<0.78	5.0	09/01/21 09:20	
Dimethylphthalate	ug/L	<0.72	5.0	09/01/21 09:20	
Fluoranthene	ug/L	<0.99	5.0	09/01/21 09:20	
Fluorene	ug/L	<0.91	5.0	09/01/21 09:20	
Hexachloro-1,3-butadiene	ug/L	<1.1	5.5	09/01/21 09:20	
Hexachlorobenzene	ug/L	<1.7	5.0	09/01/21 09:20	
Hexachlorocyclopentadiene	ug/L	<1.0	5.0	09/01/21 09:20	
Hexachloroethane	ug/L	<1.4	5.0	09/01/21 09:20	
Indeno(1,2,3-cd)pyrene	ug/L	<1.2	5.0	09/01/21 09:20	
Isophorone	ug/L	<0.77	5.0	09/01/21 09:20	
N-Nitroso-di-n-propylamine	ug/L	<1.1	5.0	09/01/21 09:20	
N-Nitrosodimethylamine	ug/L	<0.73	10.0	09/01/21 09:20	
N-Nitrosodiphenylamine	ug/L	<3.4	11.5	09/01/21 09:20	
Naphthalene	ug/L	<1.2	5.0	09/01/21 09:20	
Nitrobenzene	ug/L	<1.1	5.0	09/01/21 09:20	
Pentachlorophenol	ug/L	<4.6	15.2	09/01/21 09:20	
Phenanthrene	ug/L	<0.95	5.0	09/01/21 09:20	
Phenol	ug/L	<0.32	5.0	09/01/21 09:20	
Pyrene	ug/L	<1.2	5.0	09/01/21 09:20	
Pyridine	ug/L	<1.5	5.0	09/01/21 09:20	
2,4,6-Tribromophenol (S)	%	85	62-172	09/01/21 09:20	
2-Fluorobiphenyl (S)	%	84	54-107	09/01/21 09:20	
2-Fluorophenol (S)	%	52	23-69	09/01/21 09:20	
Nitrobenzene-d5 (S)	%	86	41-118	09/01/21 09:20	
Phenol-d6 (S)	%	33	12-120	09/01/21 09:20	
Terphenyl-d14 (S)	%	100	51-129	09/01/21 09:20	

LABORATORY CONTROL SAMPLE & LCSD: 2276531

2276554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.1	35.8	74	72	64-130	3	20	
1,2-Dichlorobenzene	ug/L	50	31.5	33.4	63	67	50-130	6	20	
1,3-Dichlorobenzene	ug/L	50	29.0	29.9	58	60	41-130	3	20	
1,4-Dichlorobenzene	ug/L	50	29.9	30.4	60	61	46-89	2	20	
1-Methylnaphthalene	ug/L	50	46.4	45.4	93	91	70-130	2	20	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

LABORATORY CONTROL SAMPLE & LCSD: 2276531

2276554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/L	50	45.6	44.4	91	89	56-116	3	20	
2,4,5-Trichlorophenol	ug/L	50	46.5	47.3	93	95	60-122	2	28	
2,4,6-Trichlorophenol	ug/L	50	48.1	48.7	96	97	59-119	1	29	
2,4-Dichlorophenol	ug/L	50	47.3	48.1	95	96	50-120	2	33	
2,4-Dimethylphenol	ug/L	50	37.4	40.1	75	80	36-103	7	35	
2,4-Dinitrophenol	ug/L	50	35.3	38.7	71	77	34-120	9	35	
2,4-Dinitrotoluene	ug/L	50	50.0	50.4	100	101	70-130	1	20	
2,6-Dinitrotoluene	ug/L	50	51.0	50.1	102	100	70-134	2	20	
2-Chloronaphthalene	ug/L	50	47.4	46.5	95	93	70-126	2	20	
2-Chlorophenol	ug/L	50	41.9	45.6	84	91	50-130	9	31	
2-Methylnaphthalene	ug/L	50	45.8	44.4	92	89	70-130	3	20	
2-Methylphenol(o-Cresol)	ug/L	50	37.3	42.7	75	85	47-130	13	31	
2-Nitroaniline	ug/L	50	47.1	47.1	94	94	70-130	0	20	
2-Nitrophenol	ug/L	50	49.0	46.0	98	92	57-128	6	31	
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.8	38.7	70	77	43-130	11	28	
3,3'-Dichlorobenzidine	ug/L	50	36.2	38.0	72	76	36-132	5	21	1q
3-Nitroaniline	ug/L	50	43.8	45.2	88	90	65-130	3	21	
4,6-Dinitro-2-methylphenol	ug/L	50	47.4	44.3	95	89	47-127	7	26	
4-Bromophenylphenyl ether	ug/L	50	54.8	51.0	110	102	70-130	7	20	
4-Chloro-3-methylphenol	ug/L	50	46.8	48.2	94	96	51-122	3	37	
4-Chlorophenylphenyl ether	ug/L	50	50.6	49.4	101	99	70-130	2	20	
4-Nitroaniline	ug/L	50	44.4	44.5	89	89	70-130	0	21	
4-Nitrophenol	ug/L	50	18.1	18.2	36	36	11-130	0	33	
Acenaphthene	ug/L	50	50.0	48.0	100	96	80-120	4	20	
Acenaphthylene	ug/L	50	48.7	48.3	97	97	70-130	1	20	
Anthracene	ug/L	50	53.4	53.3	107	107	70-130	0	20	
Benzo(a)anthracene	ug/L	50	51.1	50.7	102	101	70-130	1	20	
Benzo(a)pyrene	ug/L	50	46.1	46.7	92	93	73-123	1	20	
Benzo(b)fluoranthene	ug/L	50	47.0	48.4	94	97	70-130	3	20	
Benzo(g,h,i)perylene	ug/L	50	49.2	46.2	98	92	69-130	6	20	
Benzo(k)fluoranthene	ug/L	50	47.3	50.3	95	101	70-130	6	20	
Benzyl alcohol	ug/L	50	42.2	41.9	84	84	59-130	1	24	
bis(2-Chloroethoxy)methane	ug/L	50	51.6	48.7	103	97	70-130	6	20	
bis(2-Chloroethyl) ether	ug/L	50	48.3	47.6	97	95	70-130	1	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	52.7	51.1	105	102	70-136	3	20	
Butylbenzylphthalate	ug/L	50	52.0	51.0	104	102	75-143	2	20	
Chrysene	ug/L	50	50.7	50.4	101	101	70-135	1	20	
Di-n-butylphthalate	ug/L	50	53.7	52.4	107	105	70-130	3	20	
Di-n-octylphthalate	ug/L	50	48.6	49.8	97	100	64-139	3	20	
Dibenz(a,h)anthracene	ug/L	50	46.5	45.1	93	90	48-141	3	20	
Dibenzofuran	ug/L	50	49.6	48.9	99	98	70-130	1	20	
Diethylphthalate	ug/L	50	50.2	51.9	100	104	70-130	3	20	
Dimethylphthalate	ug/L	50	50.6	51.2	101	102	70-130	1	20	
Fluoranthene	ug/L	50	49.7	49.2	99	98	83-134	1	20	
Fluorene	ug/L	50	50.1	49.7	100	99	70-130	1	20	
Hexachloro-1,3-butadiene	ug/L	50	25.5	28.1	51	56	51-103	10	20	
Hexachlorobenzene	ug/L	50	54.9	53.0	110	106	70-130	3	20	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

Parameter	Units	2276531		2276554		% Rec	LCS	LCS	% Rec	Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec								
Hexachlorocyclopentadiene	ug/L	50	19.5	21.2	39	42	21-130	9	24				
Hexachloroethane	ug/L	50	23.2	25.3	46	51	35-102	9	22				
Indeno(1,2,3-cd)pyrene	ug/L	50	43.2	41.8	86	84	63-127	3	20				
Isophorone	ug/L	50	51.5	49.6	103	99	70-130	4	20				
N-Nitroso-di-n-propylamine	ug/L	50	47.2	46.8	94	94	70-130	1	20				
N-Nitrosodimethylamine	ug/L	50	32.8	30.3	66	61	37-130	8	20				
N-Nitrosodiphenylamine	ug/L	50	54.1	53.2	108	106	77-119	2	20				
Naphthalene	ug/L	50	43.7	42.9	87	86	70-130	2	20				
Nitrobenzene	ug/L	50	50.1	45.4	100	91	70-130	10	20				
Pentachlorophenol	ug/L	50	41.9	41.4	84	83	53-101	1	24				
Phenanthrene	ug/L	50	52.1	50.3	104	101	70-130	4	20				
Phenol	ug/L	50	20.5	20.5	41	41	28-120	0	23				
Pyrene	ug/L	50	53.1	51.0	106	102	70-130	4	20				
Pyridine	ug/L	50	33.5	35.0	67	70	10-130	4	50				
2,4,6-Tribromophenol (S)	%				93	94	62-172						
2-Fluorobiphenyl (S)	%				90	87	54-107						
2-Fluorophenol (S)	%				58	62	23-69						
Nitrobenzene-d5 (S)	%				93	87	41-118						
Phenol-d6 (S)	%				36	36	12-120						
Terphenyl-d14 (S)	%				101	97	51-129						

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

QC Batch: 394349

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001

METHOD BLANK: 2275882

Matrix: Water

Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	08/30/21 08:32	

LABORATORY CONTROL SAMPLE: 2275883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	110	110	80-120	

SAMPLE DUPLICATE: 2275884

Parameter	Units	40232350001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	17.8	16.6	7	10	

SAMPLE DUPLICATE: 2275885

Parameter	Units	40232374001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	432	420	3	10	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394248	Analysis Method: SM 5210B
QC Batch Method: SM 5210B	Analysis Description: 5210B BOD, 5 day
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001

METHOD BLANK: 2275059 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	09/01/21 09:10	

Parameter	Units	2275061		2275062		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
BOD, 5 day	mg/L	198	203	173	103	88	84.6-115	16	20

Parameter	Units	2275061		2275066		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
BOD, 5 day	mg/L	198	203	215	103	109	84.6-115	6	20

Parameter	Units	40232350001		Dup Result	RPD	Max RPD	Qualifiers
		Result	Result				
BOD, 5 day	mg/L	444	441		1	20	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394750 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001

METHOD BLANK: 2277421 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.45J	2.0	09/03/21 11:18	
Sulfate	mg/L	<0.44	2.0	09/03/21 11:18	

LABORATORY CONTROL SAMPLE: 2277422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.7	98	90-110	
Sulfate	mg/L	20	19.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277423 2277424

Parameter	Units	40232211002		2277423		2277424		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	104	400	400	537	564	108	115	90-110	5	15 M0
Sulfate	mg/L	77.3	400	400	504	524	107	112	90-110	4	15 M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277425 2277426

Parameter	Units	40232276001		2277425		2277426		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	198	200	200	412	406	107	104	90-110	2	15
Sulfate	mg/L	7.3J	200	200	223	215	108	104	90-110	4	15

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394739	Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2	Analysis Description: 310.2 Alkalinity
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001

METHOD BLANK: 2277353 Matrix: Water

Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	24.8	09/02/21 08:42	

LABORATORY CONTROL SAMPLE: 2277354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277355 2277356

Parameter	Units	2277355		2277356		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40232213001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	1100	500	500	1560	1570	93	94	90-110	0	20	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394721 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001

METHOD BLANK: 2277224 Matrix: Water

Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.14	0.50	09/01/21 16:55	

LABORATORY CONTROL SAMPLE: 2277225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277226 2277227

Parameter	Units	40232230001		MS		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Nitrogen, Ammonia	mg/L	1.7	10	10	10	11.6	11.6	100	99	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277228 2277229

Parameter	Units	40232456001		MS		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Nitrogen, Ammonia	mg/L	<0.14	10	10	10	10.1	10.0	99	99	90-110	0	20	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394801	Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2	Analysis Description: 351.2 TKN
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232350001

METHOD BLANK: 2277752 Matrix: Water

Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	09/02/21 18:26	

LABORATORY CONTROL SAMPLE: 2277753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277754 2277755

Parameter	Units	40232212001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Nitrogen, Kjeldahl, Total	mg/L	53.6	50	50	103	102	99	97	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277756 2277757

Parameter	Units	40232278001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Nitrogen, Kjeldahl, Total	mg/L	74.0	20	20	89.4	93.0	77	95	90-110	4	20	M0	

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 395004 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2279184 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	09/07/21 19:19	

LABORATORY CONTROL SAMPLE: 2279185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	540	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279186 2279187

Parameter	Units	40232427001		2279186		2279187		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chemical Oxygen Demand	mg/L	4200	10000	10000	10000	14700	14500	105	103	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279188 2279189

Parameter	Units	40232366001		2279188		2279189		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chemical Oxygen Demand	mg/L	706	2000	2000	2000	2810	2740	105	102	90-110	2	10

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QUALIFIERS

Project: 21.0122 BARRETT LANDFILL

Pace Project No.: 40232350

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

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.

BATCH QUALIFIERS

Batch: 394623

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

ANALYTE QUALIFIERS

1q The initial calibration verification standard was not within QC limits.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40232350001	LEACHATE (258)	EPA 3010A	394403	EPA 6010D	394566
40232350001	LEACHATE (258)	EPA 7470	394357	EPA 7470	394431
40232350001	LEACHATE (258)	EPA 3510	394536	EPA 8270E	394623
40232350001	LEACHATE (258)	EPA 8260	394467		
40232350002	TRIP BLANK	EPA 8260	394467		
40232350001	LEACHATE (258)				
40232350001	LEACHATE (258)	SM 2540D	394349		
40232350001	LEACHATE (258)	SM 5210B	394248	SM 5210B	394687
40232350001	LEACHATE (258)	EPA 300.0	394750		
40232350001	LEACHATE (258)	EPA 310.2	394739		
40232350001	LEACHATE (258)	EPA 350.1	394721	EPA 350.1	394745
40232350001	LEACHATE (258)	EPA 351.2	394801	EPA 351.2	394831
40232350001	LEACHATE (258)	EPA 410.4	395004	EPA 410.4	395049

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur
 Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____

WO# : 40232350



40232350

Tracking #: 1843.082621
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used SR - 107 Type of Ice: Wet Blue Dry None
 Cooler Temperature Uncorr: 3.5 /Corr: 3.5

Samples on ice, cooling process has begun
 Person examining contents:
 Date: 8/27/21 /Initials: AW
 Labeled By Initials: SRK

Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>8/27/21</u>	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>467</u>		

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____
 If checked, see attached form for additional comments

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir