

May 04, 2018

Steve Sellwood
TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717

RE: Project: 304595.0000.0000 WIDOT
Pace Project No.: 40168385

Dear Steve Sellwood:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison
JOHN ROELKE, TRC - Madison



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

Green Bay Certification IDs

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: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168385001	FIBRECRETE	Solid	05/01/18 09:30	05/02/18 10:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 304595.0000.0000 WIDOT
Pace Project No.: 40168385

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40168385001	FIBRECRETE	EPA 8270	RJN	70
		EPA 8260	SMT	64
		ASTM D2974-87	DXS	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 304595.0000.0000 WIDOT
Pace Project No.: 40168385

Method: EPA 8270
Description: 8270 MSSV FULL LIST MICROWAVE
Client: TRC - MADISON
Date: May 04, 2018

General Information:

1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 287752

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

- FIBRECRETE (Lab ID: 40168385001)
- Phenol

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 304595.0000.0000 WIDOT
Pace Project No.: 40168385

Method: EPA 8260
Description: 8260 MSV Med Level Normal List
Client: TRC - MADISON
Date: May 04, 2018

General Information:

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 287693

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

- LCS (Lab ID: 1683090)
- 1,2,4-Trichlorobenzene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

Sample: FIBRECRETE **Lab ID: 40168385001** Collected: 05/01/18 09:30 Received: 05/02/18 10:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST MICROWAVE Analytical Method: EPA 8270 Preparation Method: EPA 3546									
1,2,4-Trichlorobenzene	<6340	ug/kg	21100	6340	4	05/03/18 10:32	05/03/18 14:49	120-82-1	
1,2-Dichlorobenzene	<17600	ug/kg	58800	17600	4	05/03/18 10:32	05/03/18 14:49	95-50-1	
1,3-Dichlorobenzene	<7760	ug/kg	25900	7760	4	05/03/18 10:32	05/03/18 14:49	541-73-1	
1,4-Dichlorobenzene	<7810	ug/kg	26000	7810	4	05/03/18 10:32	05/03/18 14:49	106-46-7	
2,2'-Oxybis(1-chloropropane)	<14500	ug/kg	48200	14500	4	05/03/18 10:32	05/03/18 14:49	108-60-1	
2,4,5-Trichlorophenol	<9900	ug/kg	33000	9900	4	05/03/18 10:32	05/03/18 14:49	95-95-4	
2,4,6-Trichlorophenol	<8550	ug/kg	28500	8550	4	05/03/18 10:32	05/03/18 14:49	88-06-2	
2,4-Dichlorophenol	<15000	ug/kg	49900	15000	4	05/03/18 10:32	05/03/18 14:49	120-83-2	
2,4-Dimethylphenol	<11100	ug/kg	37000	11100	4	05/03/18 10:32	05/03/18 14:49	105-67-9	
2,4-Dinitrophenol	<17100	ug/kg	56900	17100	4	05/03/18 10:32	05/03/18 14:49	51-28-5	
2,4-Dinitrotoluene	<8020	ug/kg	26700	8020	4	05/03/18 10:32	05/03/18 14:49	121-14-2	
2,6-Dinitrotoluene	<10600	ug/kg	35500	10600	4	05/03/18 10:32	05/03/18 14:49	606-20-2	
2-Chloronaphthalene	<7200	ug/kg	24000	7200	4	05/03/18 10:32	05/03/18 14:49	91-58-7	
2-Chlorophenol	<14000	ug/kg	46600	14000	4	05/03/18 10:32	05/03/18 14:49	95-57-8	
2-Methylnaphthalene	<14600	ug/kg	48500	14600	4	05/03/18 10:32	05/03/18 14:49	91-57-6	
2-Methylphenol(o-Cresol)	<10200	ug/kg	34000	10200	4	05/03/18 10:32	05/03/18 14:49	95-48-7	
2-Nitroaniline	<16000	ug/kg	53300	16000	4	05/03/18 10:32	05/03/18 14:49	88-74-4	
2-Nitrophenol	<17700	ug/kg	59000	17700	4	05/03/18 10:32	05/03/18 14:49	88-75-5	
3&4-Methylphenol(m&p Cresol)	<10300	ug/kg	34300	10300	4	05/03/18 10:32	05/03/18 14:49		
3,3'-Dichlorobenzidine	<15200	ug/kg	50700	15200	4	05/03/18 10:32	05/03/18 14:49	91-94-1	
3-Nitroaniline	<9540	ug/kg	31800	9540	4	05/03/18 10:32	05/03/18 14:49	99-09-2	
4,6-Dinitro-2-methylphenol	<17300	ug/kg	57600	17300	4	05/03/18 10:32	05/03/18 14:49	534-52-1	
4-Bromophenylphenyl ether	<11700	ug/kg	39100	11700	4	05/03/18 10:32	05/03/18 14:49	101-55-3	
4-Chloro-3-methylphenol	<17400	ug/kg	58200	17400	4	05/03/18 10:32	05/03/18 14:49	59-50-7	
4-Chloroaniline	<9210	ug/kg	30700	9210	4	05/03/18 10:32	05/03/18 14:49	106-47-8	
4-Chlorophenylphenyl ether	<10400	ug/kg	34800	10400	4	05/03/18 10:32	05/03/18 14:49	7005-72-3	
4-Nitroaniline	<23300	ug/kg	77600	23300	4	05/03/18 10:32	05/03/18 14:49	100-01-6	
4-Nitrophenol	<14100	ug/kg	47100	14100	4	05/03/18 10:32	05/03/18 14:49	100-02-7	
Acenaphthene	<19900	ug/kg	66300	19900	4	05/03/18 10:32	05/03/18 14:49	83-32-9	
Acenaphthylene	<20000	ug/kg	66700	20000	4	05/03/18 10:32	05/03/18 14:49	208-96-8	
Anthracene	<8960	ug/kg	29900	8960	4	05/03/18 10:32	05/03/18 14:49	120-12-7	
Benzo(a)anthracene	<8680	ug/kg	28900	8680	4	05/03/18 10:32	05/03/18 14:49	56-55-3	
Benzo(a)pyrene	<8440	ug/kg	28100	8440	4	05/03/18 10:32	05/03/18 14:49	50-32-8	
Benzo(b)fluoranthene	<9630	ug/kg	32100	9630	4	05/03/18 10:32	05/03/18 14:49	205-99-2	
Benzo(g,h,i)perylene	<14700	ug/kg	48900	14700	4	05/03/18 10:32	05/03/18 14:49	191-24-2	
Benzo(k)fluoranthene	<13400	ug/kg	44800	13400	4	05/03/18 10:32	05/03/18 14:49	207-08-9	
Butylbenzylphthalate	<8990	ug/kg	30000	8990	4	05/03/18 10:32	05/03/18 14:49	85-68-7	
Carbazole	<8780	ug/kg	29300	8780	4	05/03/18 10:32	05/03/18 14:49	86-74-8	
Chrysene	<8380	ug/kg	27900	8380	4	05/03/18 10:32	05/03/18 14:49	218-01-9	
Di-n-butylphthalate	<8380	ug/kg	27900	8380	4	05/03/18 10:32	05/03/18 14:49	84-74-2	
Di-n-octylphthalate	<12600	ug/kg	42000	12600	4	05/03/18 10:32	05/03/18 14:49	117-84-0	
Dibenz(a,h)anthracene	<15200	ug/kg	50800	15200	4	05/03/18 10:32	05/03/18 14:49	53-70-3	
Dibenzofuran	<6790	ug/kg	22600	6790	4	05/03/18 10:32	05/03/18 14:49	132-64-9	
Diethylphthalate	<9300	ug/kg	31000	9300	4	05/03/18 10:32	05/03/18 14:49	84-66-2	
Dimethylphthalate	<7290	ug/kg	24300	7290	4	05/03/18 10:32	05/03/18 14:49	131-11-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

Sample: FIBRECRETE **Lab ID: 40168385001** Collected: 05/01/18 09:30 Received: 05/02/18 10:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST MICROWAVE Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Fluoranthene	<7930	ug/kg	26400	7930	4	05/03/18 10:32	05/03/18 14:49	206-44-0	
Fluorene	<6550	ug/kg	21800	6550	4	05/03/18 10:32	05/03/18 14:49	86-73-7	
Hexachloro-1,3-butadiene	<14300	ug/kg	47600	14300	4	05/03/18 10:32	05/03/18 14:49	87-68-3	
Hexachlorobenzene	<9430	ug/kg	31400	9430	4	05/03/18 10:32	05/03/18 14:49	118-74-1	
Hexachlorocyclopentadiene	<13300	ug/kg	44200	13300	4	05/03/18 10:32	05/03/18 14:49	77-47-4	
Hexachloroethane	<8970	ug/kg	29900	8970	4	05/03/18 10:32	05/03/18 14:49	67-72-1	
Indeno(1,2,3-cd)pyrene	<12100	ug/kg	40400	12100	4	05/03/18 10:32	05/03/18 14:49	193-39-5	
Isophorone	<8620	ug/kg	28700	8620	4	05/03/18 10:32	05/03/18 14:49	78-59-1	
N-Nitroso-di-n-propylamine	<8890	ug/kg	29600	8890	4	05/03/18 10:32	05/03/18 14:49	621-64-7	
N-Nitrosodiphenylamine	<76100	ug/kg	254000	76100	4	05/03/18 10:32	05/03/18 14:49	86-30-6	
Naphthalene	<19600	ug/kg	65400	19600	4	05/03/18 10:32	05/03/18 14:49	91-20-3	
Nitrobenzene	<11400	ug/kg	37900	11400	4	05/03/18 10:32	05/03/18 14:49	98-95-3	
Pentachlorophenol	<12300	ug/kg	41200	12300	4	05/03/18 10:32	05/03/18 14:49	87-86-5	
Phenanthrene	<7190	ug/kg	24000	7190	4	05/03/18 10:32	05/03/18 14:49	85-01-8	
Phenol	<13300	ug/kg	44400	13300	4	05/03/18 10:32	05/03/18 14:49	108-95-2	D3
Pyrene	<12400	ug/kg	41400	12400	4	05/03/18 10:32	05/03/18 14:49	129-00-0	
bis(2-Chloroethoxy)methane	<15100	ug/kg	50300	15100	4	05/03/18 10:32	05/03/18 14:49	111-91-1	
bis(2-Chloroethyl) ether	<17500	ug/kg	58300	17500	4	05/03/18 10:32	05/03/18 14:49	111-44-4	
bis(2-Ethylhexyl)phthalate	<9320	ug/kg	31100	9320	4	05/03/18 10:32	05/03/18 14:49	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	49	%	19-103		4	05/03/18 10:32	05/03/18 14:49	4165-60-0	
2-Fluorobiphenyl (S)	80	%	35-101		4	05/03/18 10:32	05/03/18 14:49	321-60-8	
Terphenyl-d14 (S)	113	%	42-118		4	05/03/18 10:32	05/03/18 14:49	1718-51-0	
Phenol-d6 (S)	78	%	13-106		4	05/03/18 10:32	05/03/18 14:49	13127-88-3	
2-Fluorophenol (S)	72	%	11-104		4	05/03/18 10:32	05/03/18 14:49	367-12-4	
2,4,6-Tribromophenol (S)	53	%	10-114		4	05/03/18 10:32	05/03/18 14:49	118-79-6	

8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	05/02/18 11:00	05/03/18 15:14	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	05/02/18 11:00	05/03/18 15:14	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	05/02/18 11:00	05/03/18 15:14	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	05/02/18 11:00	05/03/18 15:14	96-12-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

Sample: FIBRECRETE **Lab ID: 40168385001** Collected: 05/01/18 09:30 Received: 05/02/18 10:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	108-20-3	W
Ethylbenzene	150	ug/kg	67.2	28.0	1	05/02/18 11:00	05/03/18 15:14	100-41-4	
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	05/02/18 11:00	05/03/18 15:14	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	103-65-1	W
Styrene	40.4J	ug/kg	67.2	28.0	1	05/02/18 11:00	05/03/18 15:14	100-42-5	
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	05/02/18 11:00	05/03/18 15:14	120-82-1	L2,W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	05/02/18 11:00	05/03/18 15:14	75-01-4	W
m&p-Xylene	712	ug/kg	134	56.0	1	05/02/18 11:00	05/03/18 15:14	179601-23-1	
o-Xylene	203	ug/kg	67.2	28.0	1	05/02/18 11:00	05/03/18 15:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

Sample: FIBRECRETE **Lab ID: 40168385001** Collected: 05/01/18 09:30 Received: 05/02/18 10:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Surrogates									
Dibromofluoromethane (S)	82	%	68-130		1	05/02/18 11:00	05/03/18 15:14	1868-53-7	
Toluene-d8 (S)	80	%	68-149		1	05/02/18 11:00	05/03/18 15:14	2037-26-5	
4-Bromofluorobenzene (S)	72	%	58-141		1	05/02/18 11:00	05/03/18 15:14	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.7	%	0.10	0.10	1		05/02/18 18:08		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 304595.0000.0000 WIDOT
Pace Project No.: 40168385

QC Batch: 287693	Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B	Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40168385001	

METHOD BLANK: 1683089 Matrix: Solid
Associated Lab Samples: 40168385001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	05/02/18 17:30	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	05/02/18 17:30	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	05/02/18 17:30	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	05/02/18 17:30	
1,1-Dichloroethane	ug/kg	<17.6	50.0	05/02/18 17:30	
1,1-Dichloroethene	ug/kg	<17.6	50.0	05/02/18 17:30	
1,1-Dichloropropene	ug/kg	<14.0	50.0	05/02/18 17:30	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	05/02/18 17:30	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	05/02/18 17:30	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	05/02/18 17:30	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	05/02/18 17:30	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	05/02/18 17:30	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	05/02/18 17:30	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	05/02/18 17:30	
1,2-Dichloroethane	ug/kg	<15.0	50.0	05/02/18 17:30	
1,2-Dichloropropane	ug/kg	<16.8	50.0	05/02/18 17:30	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	05/02/18 17:30	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	05/02/18 17:30	
1,3-Dichloropropane	ug/kg	<12.0	50.0	05/02/18 17:30	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	05/02/18 17:30	
2,2-Dichloropropane	ug/kg	<12.6	50.0	05/02/18 17:30	
2-Chlorotoluene	ug/kg	<15.8	50.0	05/02/18 17:30	
4-Chlorotoluene	ug/kg	<13.0	50.0	05/02/18 17:30	
Benzene	ug/kg	<9.2	20.0	05/02/18 17:30	
Bromobenzene	ug/kg	<20.6	50.0	05/02/18 17:30	
Bromochloromethane	ug/kg	<21.4	50.0	05/02/18 17:30	
Bromodichloromethane	ug/kg	<9.8	50.0	05/02/18 17:30	
Bromoform	ug/kg	<19.8	50.0	05/02/18 17:30	
Bromomethane	ug/kg	<69.9	250	05/02/18 17:30	
Carbon tetrachloride	ug/kg	<12.1	50.0	05/02/18 17:30	
Chlorobenzene	ug/kg	<14.8	50.0	05/02/18 17:30	
Chloroethane	ug/kg	<67.0	250	05/02/18 17:30	
Chloroform	ug/kg	<46.4	250	05/02/18 17:30	
Chloromethane	ug/kg	<20.4	50.0	05/02/18 17:30	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	05/02/18 17:30	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	05/02/18 17:30	
Dibromochloromethane	ug/kg	<17.9	50.0	05/02/18 17:30	
Dibromomethane	ug/kg	<19.3	50.0	05/02/18 17:30	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	05/02/18 17:30	
Diisopropyl ether	ug/kg	<17.7	50.0	05/02/18 17:30	
Ethylbenzene	ug/kg	<12.4	50.0	05/02/18 17:30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 304595.0000.0000 WIDOT
Pace Project No.: 40168385

METHOD BLANK: 1683089 Matrix: Solid
Associated Lab Samples: 40168385001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	05/02/18 17:30	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	05/02/18 17:30	
m&p-Xylene	ug/kg	<34.4	100	05/02/18 17:30	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	05/02/18 17:30	
Methylene Chloride	ug/kg	20.9J	50.0	05/02/18 17:30	
n-Butylbenzene	ug/kg	<10.5	50.0	05/02/18 17:30	
n-Propylbenzene	ug/kg	<11.6	50.0	05/02/18 17:30	
Naphthalene	ug/kg	<40.0	250	05/02/18 17:30	
o-Xylene	ug/kg	<14.0	50.0	05/02/18 17:30	
p-Isopropyltoluene	ug/kg	<12.0	50.0	05/02/18 17:30	
sec-Butylbenzene	ug/kg	<11.9	50.0	05/02/18 17:30	
Styrene	ug/kg	<9.0	50.0	05/02/18 17:30	
tert-Butylbenzene	ug/kg	<9.5	50.0	05/02/18 17:30	
Tetrachloroethene	ug/kg	<12.9	50.0	05/02/18 17:30	
Toluene	ug/kg	<11.2	50.0	05/02/18 17:30	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	05/02/18 17:30	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	05/02/18 17:30	
Trichloroethene	ug/kg	<23.6	50.0	05/02/18 17:30	
Trichlorofluoromethane	ug/kg	<24.7	50.0	05/02/18 17:30	
Vinyl chloride	ug/kg	<21.1	50.0	05/02/18 17:30	
4-Bromofluorobenzene (S)	%	74	58-141	05/02/18 17:30	
Dibromofluoromethane (S)	%	89	68-130	05/02/18 17:30	
Toluene-d8 (S)	%	83	68-149	05/02/18 17:30	

LABORATORY CONTROL SAMPLE: 1683090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2150	86	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2350	94	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2250	90	70-130	
1,1-Dichloroethane	ug/kg	2500	2210	89	63-124	
1,1-Dichloroethene	ug/kg	2500	2130	85	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	1790	72	78-130	L2
1,2-Dibromo-3-chloropropane	ug/kg	2500	2030	81	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2310	92	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2160	86	70-130	
1,2-Dichloroethane	ug/kg	2500	2110	84	56-135	
1,2-Dichloropropane	ug/kg	2500	2250	90	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2120	85	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2070	83	70-130	
Benzene	ug/kg	2500	2090	84	66-130	
Bromodichloromethane	ug/kg	2500	2160	87	62-135	
Bromoform	ug/kg	2500	2150	86	68-130	
Bromomethane	ug/kg	2500	2130	85	29-137	

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QUALITY CONTROL DATA

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

LABORATORY CONTROL SAMPLE: 1683090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2220	89	57-130	
Chlorobenzene	ug/kg	2500	2210	88	70-130	
Chloroethane	ug/kg	2500	2150	86	36-144	
Chloroform	ug/kg	2500	2200	88	69-115	
Chloromethane	ug/kg	2500	1900	76	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	1970	79	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2170	87	70-130	
Dibromochloromethane	ug/kg	2500	2200	88	70-130	
Dichlorodifluoromethane	ug/kg	2500	1360	54	10-99	
Ethylbenzene	ug/kg	2500	2130	85	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2050	82	70-130	
m&p-Xylene	ug/kg	5000	4160	83	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2080	83	63-134	
Methylene Chloride	ug/kg	2500	2130	85	56-123	
o-Xylene	ug/kg	2500	2100	84	70-130	
Styrene	ug/kg	2500	2190	88	70-130	
Tetrachloroethene	ug/kg	2500	2200	88	70-131	
Toluene	ug/kg	2500	2160	87	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2080	83	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2170	87	68-130	
Trichloroethene	ug/kg	2500	2170	87	70-130	
Trichlorofluoromethane	ug/kg	2500	2120	85	37-149	
Vinyl chloride	ug/kg	2500	1960	78	43-128	
4-Bromofluorobenzene (S)	%			76	58-141	
Dibromofluoromethane (S)	%			87	68-130	
Toluene-d8 (S)	%			80	68-149	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 304595.0000.0000 WIDOT
Pace Project No.: 40168385

QC Batch: 287752 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 40168385001

METHOD BLANK: 1683514 Matrix: Solid
Associated Lab Samples: 40168385001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<18.8	62.8	05/03/18 13:03	
1,2-Dichlorobenzene	ug/kg	<52.4	175	05/03/18 13:03	
1,3-Dichlorobenzene	ug/kg	<23.1	76.9	05/03/18 13:03	
1,4-Dichlorobenzene	ug/kg	<23.2	77.4	05/03/18 13:03	
2,2'-Oxybis(1-chloropropane)	ug/kg	<43.0	143	05/03/18 13:03	
2,4,5-Trichlorophenol	ug/kg	<29.4	98.1	05/03/18 13:03	
2,4,6-Trichlorophenol	ug/kg	<25.4	84.7	05/03/18 13:03	
2,4-Dichlorophenol	ug/kg	<44.5	148	05/03/18 13:03	
2,4-Dimethylphenol	ug/kg	<33.0	110	05/03/18 13:03	
2,4-Dinitrophenol	ug/kg	<50.8	169	05/03/18 13:03	
2,4-Dinitrotoluene	ug/kg	<23.8	79.5	05/03/18 13:03	
2,6-Dinitrotoluene	ug/kg	<31.6	105	05/03/18 13:03	
2-Chloronaphthalene	ug/kg	<21.4	71.3	05/03/18 13:03	
2-Chlorophenol	ug/kg	<41.6	139	05/03/18 13:03	
2-Methylnaphthalene	ug/kg	<43.3	144	05/03/18 13:03	
2-Methylphenol(o-Cresol)	ug/kg	<30.3	101	05/03/18 13:03	
2-Nitroaniline	ug/kg	<47.5	158	05/03/18 13:03	
2-Nitrophenol	ug/kg	<52.6	175	05/03/18 13:03	
3&4-Methylphenol(m&p Cresol)	ug/kg	<30.5	102	05/03/18 13:03	
3,3'-Dichlorobenzidine	ug/kg	<45.2	151	05/03/18 13:03	
3-Nitroaniline	ug/kg	<28.3	94.5	05/03/18 13:03	
4,6-Dinitro-2-methylphenol	ug/kg	<51.4	171	05/03/18 13:03	
4-Bromophenylphenyl ether	ug/kg	<34.9	116	05/03/18 13:03	
4-Chloro-3-methylphenol	ug/kg	<51.9	173	05/03/18 13:03	
4-Chloroaniline	ug/kg	<27.4	91.3	05/03/18 13:03	
4-Chlorophenylphenyl ether	ug/kg	<31.0	103	05/03/18 13:03	
4-Nitroaniline	ug/kg	<69.2	231	05/03/18 13:03	
4-Nitrophenol	ug/kg	<42.0	140	05/03/18 13:03	
Acenaphthene	ug/kg	<59.1	197	05/03/18 13:03	
Acenaphthylene	ug/kg	<59.5	198	05/03/18 13:03	
Anthracene	ug/kg	<26.6	88.8	05/03/18 13:03	
Benzo(a)anthracene	ug/kg	<25.8	86.1	05/03/18 13:03	
Benzo(a)pyrene	ug/kg	<25.1	83.6	05/03/18 13:03	
Benzo(b)fluoranthene	ug/kg	<28.6	95.5	05/03/18 13:03	
Benzo(g,h,i)perylene	ug/kg	<43.6	145	05/03/18 13:03	
Benzo(k)fluoranthene	ug/kg	<39.9	133	05/03/18 13:03	
bis(2-Chloroethoxy)methane	ug/kg	<44.9	150	05/03/18 13:03	
bis(2-Chloroethyl) ether	ug/kg	<52.0	173	05/03/18 13:03	
bis(2-Ethylhexyl)phthalate	ug/kg	<27.7	92.4	05/03/18 13:03	
Butylbenzylphthalate	ug/kg	<26.7	89.1	05/03/18 13:03	
Carbazole	ug/kg	<26.1	87.0	05/03/18 13:03	

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QUALITY CONTROL DATA

Project: 304595.0000.0000 WIDOT
Pace Project No.: 40168385

METHOD BLANK: 1683514 Matrix: Solid
Associated Lab Samples: 40168385001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	ug/kg	<24.9	83.1	05/03/18 13:03	
Di-n-butylphthalate	ug/kg	<24.9	83.0	05/03/18 13:03	
Di-n-octylphthalate	ug/kg	<37.5	125	05/03/18 13:03	
Dibenz(a,h)anthracene	ug/kg	<45.3	151	05/03/18 13:03	
Dibenzofuran	ug/kg	<20.2	67.3	05/03/18 13:03	
Diethylphthalate	ug/kg	<27.6	92.1	05/03/18 13:03	
Dimethylphthalate	ug/kg	<21.7	72.3	05/03/18 13:03	
Fluoranthene	ug/kg	<23.6	78.6	05/03/18 13:03	
Fluorene	ug/kg	<19.5	64.9	05/03/18 13:03	
Hexachloro-1,3-butadiene	ug/kg	<42.5	142	05/03/18 13:03	
Hexachlorobenzene	ug/kg	<28.0	93.5	05/03/18 13:03	
Hexachlorocyclopentadiene	ug/kg	<39.4	131	05/03/18 13:03	
Hexachloroethane	ug/kg	<26.7	88.9	05/03/18 13:03	
Indeno(1,2,3-cd)pyrene	ug/kg	<36.1	120	05/03/18 13:03	
Isophorone	ug/kg	<25.6	85.4	05/03/18 13:03	
N-Nitroso-di-n-propylamine	ug/kg	<26.4	88.1	05/03/18 13:03	
N-Nitrosodiphenylamine	ug/kg	<226	754	05/03/18 13:03	
Naphthalene	ug/kg	<58.3	194	05/03/18 13:03	
Nitrobenzene	ug/kg	<33.8	113	05/03/18 13:03	
Pentachlorophenol	ug/kg	<36.7	122	05/03/18 13:03	
Phenanthrene	ug/kg	<21.4	71.3	05/03/18 13:03	
Phenol	ug/kg	<39.6	132	05/03/18 13:03	
Pyrene	ug/kg	<36.9	123	05/03/18 13:03	
2,4,6-Tribromophenol (S)	%	87	10-114	05/03/18 13:03	
2-Fluorobiphenyl (S)	%	81	35-101	05/03/18 13:03	
2-Fluorophenol (S)	%	74	11-104	05/03/18 13:03	
Nitrobenzene-d5 (S)	%	74	19-103	05/03/18 13:03	
Phenol-d6 (S)	%	79	13-106	05/03/18 13:03	
Terphenyl-d14 (S)	%	102	42-118	05/03/18 13:03	

LABORATORY CONTROL SAMPLE: 1683515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1420	85	70-110	
1,2-Dichlorobenzene	ug/kg	1670	1360	82	64-106	
1,3-Dichlorobenzene	ug/kg	1670	1350	81	62-105	
1,4-Dichlorobenzene	ug/kg	1670	1370	82	64-107	
2,2'-Oxybis(1-chloropropane)	ug/kg	1670	1370	82	57-109	
2,4,5-Trichlorophenol	ug/kg	1670	1410	85	66-121	
2,4,6-Trichlorophenol	ug/kg	1670	1460	88	68-115	
2,4-Dichlorophenol	ug/kg	1670	1470	88	68-112	
2,4-Dimethylphenol	ug/kg	1670	1450	87	66-121	
2,4-Dinitrophenol	ug/kg	1670	1040	63	19-106	
2,4-Dinitrotoluene	ug/kg	1670	1510	90	70-128	

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QUALITY CONTROL DATA

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

LABORATORY CONTROL SAMPLE: 1683515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,6-Dinitrotoluene	ug/kg	1670	1520	91	70-128	
2-Chloronaphthalene	ug/kg	1670	1350	81	70-115	
2-Chlorophenol	ug/kg	1670	1450	87	64-107	
2-Methylnaphthalene	ug/kg	1670	1600	96	69-118	
2-Methylphenol(o-Cresol)	ug/kg	1670	1470	88	69-115	
2-Nitroaniline	ug/kg	1670	1400	84	70-119	
2-Nitrophenol	ug/kg	1670	1480	89	66-118	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1380	83	67-115	
3,3'-Dichlorobenzidine	ug/kg	1670	1270	76	42-116	
3-Nitroaniline	ug/kg	1670	1370	82	69-130	
4,6-Dinitro-2-methylphenol	ug/kg	1670	1400	84	56-122	
4-Bromophenylphenyl ether	ug/kg	1670	1670	100	70-117	
4-Chloro-3-methylphenol	ug/kg	1670	1500	90	73-120	
4-Chloroaniline	ug/kg	1670	1440	86	66-122	
4-Chlorophenylphenyl ether	ug/kg	1670	1550	93	70-125	
4-Nitroaniline	ug/kg	1670	1270	76	59-124	
4-Nitrophenol	ug/kg	1670	1300	78	43-126	
Acenaphthene	ug/kg	1670	1440	86	76-119	
Acenaphthylene	ug/kg	1670	1460	87	70-116	
Anthracene	ug/kg	1670	1750	105	70-130	
Benzo(a)anthracene	ug/kg	1670	1540	92	62-112	
Benzo(a)pyrene	ug/kg	1670	1550	93	65-112	
Benzo(b)fluoranthene	ug/kg	1670	1460	88	60-112	
Benzo(g,h,i)perylene	ug/kg	1670	1350	81	63-114	
Benzo(k)fluoranthene	ug/kg	1670	1540	92	65-117	
bis(2-Chloroethoxy)methane	ug/kg	1670	1440	87	68-116	
bis(2-Chloroethyl) ether	ug/kg	1670	1330	80	58-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1760	106	63-127	
Butylbenzylphthalate	ug/kg	1670	1700	102	62-124	
Carbazole	ug/kg	1670	1680	101	70-130	
Chrysene	ug/kg	1670	1530	92	48-118	
Di-n-butylphthalate	ug/kg	1670	1780	107	70-130	
Di-n-octylphthalate	ug/kg	1670	1530	92	52-119	
Dibenz(a,h)anthracene	ug/kg	1670	1430	86	19-131	
Dibenzofuran	ug/kg	1670	1470	88	70-121	
Diethylphthalate	ug/kg	1670	1620	97	70-130	
Dimethylphthalate	ug/kg	1670	1620	97	70-128	
Fluoranthene	ug/kg	1670	1620	97	74-117	
Fluorene	ug/kg	1670	1480	89	70-128	
Hexachloro-1,3-butadiene	ug/kg	1670	1480	89	68-114	
Hexachlorobenzene	ug/kg	1670	1540	92	70-113	
Hexachlorocyclopentadiene	ug/kg	1670	1180	71	28-112	
Hexachloroethane	ug/kg	1670	1350	81	62-109	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1390	83	48-113	
Isophorone	ug/kg	1670	1420	85	70-107	
N-Nitroso-di-n-propylamine	ug/kg	1670	1380	83	69-114	
N-Nitrosodiphenylamine	ug/kg	1670	1660	99	76-120	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

LABORATORY CONTROL SAMPLE: 1683515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1670	1480	89	68-113	
Nitrobenzene	ug/kg	1670	1370	82	67-107	
Pentachlorophenol	ug/kg	1670	1250	75	55-112	
Phenanthrene	ug/kg	1670	1580	95	70-130	
Phenol	ug/kg	1670	1390	83	60-107	
Pyrene	ug/kg	1670	1520	91	64-125	
2,4,6-Tribromophenol (S)	%			100	10-114	
2-Fluorobiphenyl (S)	%			90	35-101	
2-Fluorophenol (S)	%			84	11-104	
Nitrobenzene-d5 (S)	%			90	19-103	
Phenol-d6 (S)	%			86	13-106	
Terphenyl-d14 (S)	%			109	42-118	

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QUALITY CONTROL DATA

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

QC Batch: 287728

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40168385001

SAMPLE DUPLICATE: 1683431

Parameter	Units	40168418001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.6	9.5	1	10	

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QUALIFIERS

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 304595.0000.0000 WIDOT

Pace Project No.: 40168385

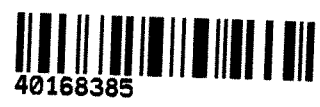
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168385001	FIBRECRETE	EPA 3546	287752	EPA 8270	287782
40168385001	FIBRECRETE	EPA 5035/5030B	287693	EPA 8260	287694
40168385001	FIBRECRETE	ASTM D2974-87	287728		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Client Name: TRC Project #: WO#: 40168385
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 772124090522
 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 - NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: _____ /Corr: PO'

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.

Person examining contents:
 Date: 5/2/18
 Initials: OM

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume:		8.
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		
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>S</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Project Manager Review: RMR for TW Date: 5/2/18