Neste, David E - DNR

From: Brian Wayner <Brian.Wayner@westwoodps.com>
Sent: Thursday, April 1, 2021 4:06 PM
To: Chronert, Roxanne N - DNR
Cc: Dan O'Connell
Subject: Meade Street Email
Attachments: FW: Appleton utility work near the former Appleton Wire; 40222281_frc.pdf; 40222277 _frc.pdf; 40222574_frc.pdf; Detailed Site Map 210323.pdf

Hi Roxanne,

This email is in regards to the Appleton project I was discussing with you in our email conversation yesterday. I'm not sure who at the DNR Jeremy discussed the project with (attached email), but if you can determine who, they might be able to assist.

Attached is the email exchange with Jeremy regarding the Meade Street work, adjacent to the Former Appleton Wire Site (BRRTS No. 02-45-000015). We collected preliminary soil samples to determine if the BRRTS site has impacted soils offsite and into Meade Street. They City modified their design so the utilities are in the east half of the road, away from the Former Appleton Wire Site. The Meade Street portion of the project is scheduled for utility and roadway upgrades beginning on July 12th. The overall project started on March 22nd. Based on discussions with Jeremy, if impacts to the soil were not observed, then the soil could be placed back in the trenches, assuming the soils met the City's requirement for backfill.

On February 18, 2021 we collected two soil samples from eight soil borings for the analysis of VOCs, Chrome, Hexavalent Chrome, and PFAS, per request by WDNR. Our soil results indicated no exceedances of any WDNR NR 720 soil standards. The PFAS results were all non-detect except for PFOS at B-2 8-10 feet below ground surface. In addition to the soil, we installed one temporary well nearest the BRRTS site's property boundary and collected a groundwater sample for the same compounds. Today, we just receive the groundwater results. The groundwater had Chrome, Hexavalent Chrome, and PFAS detections. The temporary monitoring well is close to the Former Appleton Wire property, but still in the City right-of-way. I checked BRRTS this afternoon. It looks like additional sampling took place for the Former Appleton Wire Site, but the documents have not be uploaded to BRRTS yet. From the data that is available, the PFAS detections in our temporary monitoring well were similar to the detection on the Former Appleton Wire Site.

With this understanding, we would like the WDNR's concurrence that the City's contractor can replace the excavated soils back into the trenches during construction. If dewatering is required, we will work with the City to have the water sent to the City's Wastewater Treatment Plant.

Please let me know if you have any questions.

Thank you,

Brian Wayner, P.E.
Environmental Manager
brian.wayner@westwoodps.com
Licensed in WI

direct (920) 830-6141
main (920)-735-6900
cell (920) 851-0366

Westwood
1 Systems Drive
Appleton, WI 54914

Investigation Extents
Parcels (2020)
Estimated Invert Depth (feet below surface at centerline)
Soil Borings

Watermain (existing)
Storm Sewer (existing)
Sanitary Sewer (existing)

Watermain (proposed)
Storm Sewer (proposed)
Sanitary Sewer (proposed)

EnviroForensics Wells

Monitoring well designated for plume distribution evaluation
Monitoring well designated for remediation performance monitoring
Monitoring well designated to be sampled once pre-closure

Existing and proposed utility locations and depths based on drawings provided by City of Appleton (1/20/2021).

Location of EnviroForensics wells obtained from Figure 1 "Post-Remedial Groundwater Monitoring Well Network" (11/21/2019)

MW-18A
MW-18
714 E HANCOCK STREET
900 N LAWE STREET
MW-22
MW-22A
1001 N MEADE STREET
MW-1
MW-1B
MW-5
MW-5A
MW-30R
MW-31
MW-31A
B-2/TW-1
MW-32
MW-32A
7.9'
11.2'
6.9'
10" SAN
B-6
B-4
12" STO
B-1
N MEADE ST
10.9'
8.5'
6.7'
7.5'
12" WM
10" SAN
B-5
B-7
7.4'
6.6'
12" IL
144' - 12" STO
7.9'
MW-24A
MW-24
MW-10B
MW-10R
22' - 8" WM
MW-23A
MW-23
E HANCOCK ST
E WINNEBAGO ST
802 E HANCOCK STREET
806 N MEADE STREET
814 N MEADE STREET
820 N MEADE STREET
802 E WINNEBAGO STREET
810 E WINNEBAGO STREET

0 25 50 Feet

N
W
E
S

Project Manager:
Project Engineer: JCW
Drawn By:
Checked By:
Date: 3/23/2021

MEADE ST SEWER AND WATER REHAB

DETAILED SITE MAP

CITY OF APPLETON PUBLIC WORKS
CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

Westwood
1 Systems Drive
Appleton, WI 54914
(920) 735-6900
www.westwoodps.com

SCALE: 1 " = 25 '
PROJECT NO. R3001170.00-03
FIGURE NO. A-2

N:\3001170.00\003 W-21 Sewer and Water Rehab\GIS\Detailed Site Map.mxd
Printed: JMDeshaney 3/23/2021 9:51:30 AM

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 18, 2021

Daniel O'Connell
Westwood
ONE SYSTEMS DRIVE
Appleton, WI 54914

RE: Project: B3001170.00-003 MEAD ST.
Pace Project No.: 40222277

Dear Daniel O'Connell:

Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 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:

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

Sincerely,

Tod Noltemeyer

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

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: B3001170.00-003 MEAD ST.
Pace Project No.: 40222277

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40222277001	**B-1 4-5**	Solid	02/18/21 10:43	02/18/21 15:21
40222277002	**B-1 8-10**	Solid	02/18/21 10:47	02/18/21 15:21
40222277003	**B-2 4-5**	Solid	02/18/21 10:05	02/18/21 15:21
40222277004	**B-2 8-10**	Solid	02/18/21 10:10	02/18/21 15:21
40222277005	**B-4 4-5**	Solid	02/18/21 11:35	02/18/21 15:21
40222277006	**B-4 8-10**	Solid	02/18/21 11:39	02/18/21 15:21
40222277007	**B-5 4-5**	Solid	02/18/21 11:08	02/18/21 15:21
40222277008	**B-5 8-10**	Solid	02/18/21 11:14	02/18/21 15:21
40222277009	**EB-1**	Water	02/18/21 12:51	02/18/21 15:21
40222277010	**EB-2**	Water	02/18/21 12:55	02/18/21 15:21
40222277011	**FB-1**	Water	02/18/21 12:57	02/18/21 15:21
40222277012	**EB-3**	Water	02/18/21 13:20	02/18/21 15:21

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40222877

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

(Please Print Clearly)

Company Name:	Westwood
Branch/Location:	Appleton WI
Project Contact:	Dan O'connell
Phone:	920 735-6900
Project Number:	R3001170.00-003
Project Name:	Meade St
Project State:	WI
Sampled By (Print):	Quin Lenz
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Dan O'connell
Mail To Company:	Westwood
Mail To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Contact:	SAME
Invoice To Company:	↓
Invoice To Address:	
Invoice To Phone:	920 735-6900

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO): Y/N — N
PRESERVATION (CODE)*: Pick Letter — A

Analyses Requested: PFAS

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PFAS	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	B-1 4-5	2/18/21	10:43	S	X			
002	B-1 8-10	↓	10:47	↓	X			
003	B-2 4-5	↓	10:05	↓	X			
004	B-2 8-10	↓	10:10	↓	X			
005	B-4 4-5	↓	11:35	↓	X			
006	B-4 8-10	↓	11:39	↓	X			
007	B-5 4-5	↓	11:08	↓	X			
008	B-5 8-10	↓	11:14	↓	X			
009	B-6 4-5	↓	12:01	↓	X			
010	B-6 8-10	↓	12:04	↓	X			
011	B-7 4-5	↓	12:25	↓	X			
012	B-7 8-10	↓	12:35	↓	X			
013 (009 2/18/21)	EB-1	2/18/21	12:51	W	X	Lab distilled H2O used		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/18/21 15:21	[signature] Pace	2-18-21 1521

PACE Project No. 40222877

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present (circled)
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Westwood
Branch/Location:	Appleton WI
Project Contact:	Dan O'Connell
Phone:	920 735-6900
Project Number:	R3001170.00-003
Project Name:	Meade St
Project State:	WI
Sampled By (Print):	Quin Lenz
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	4D222277
Mail To Contact:	Dan O'Connell
Mail To Company:	Westwood
Mail To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Contact:	Dan O'Connell
Invoice To Company:	Westwood
Invoice To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Phone:	920 735-6900

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PFAS	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
010					N	A		Lab Distilled H2O used		
014	EB-2	2/18/21	12:55	W			X			
015	FB-1	"	12:57	"			X			
016	EB-3	"	13:20	"			X			
011										
012										

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/18/21 15:21	[signature]	2-18-21 1521
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 4D222277

Receipt Temp = 8.1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

C019a(27Jun2006)

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Westwood Project # 40222277

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A

Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001										1																						2.5 / 5 / 10
002										1																						2.5 / 5 / 10
003										1																						2.5 / 5 / 10
004										1																						2.5 / 5 / 10
005										1																						2.5 / 5 / 10
006										1																						2.5 / 5 / 10
007										1																						2.5 / 5 / 10
008										1																						2.5 / 5 / 10
009										2																						2.5 / 5 / 10
010										2																						2.5 / 5 / 10
011										2																						2.5 / 5 / 10
012										2																						2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	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)

Project #: WO# : 40222277

40222277

Client Name: Westwood

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☒ Client ☐ Pace Other: _____

Tracking #: —

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: Rec /Corr: _____

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 2/18/24 /Initials: L

Labeled By Initials: NA

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:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: 2/18/24 L		8. lab did not receive (B-6 4-5) (B-6 8-10) (B-7 4-5) (B-7 8-10)
For Analysis: ☐Yes ☒No MS/MSD:	☐Yes ☐No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9. 2/18/24 L
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WS		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒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: _____

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

Report of Analysis

Pace Analytical Services, LLC
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Attention: Todd Noltemeyer

Project Name: B3001170.00-003 Mead St.

Project Number: 40222277

Lot Number:**WB25014**

Date Completed:03/16/2021

03/16/2021 10:37 PM
Approved and released by:
Project Manager II: **Karen L. Coonan**

Case Narrative
Pace Analytical Services, LLC
Lot Number: WB25014

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" qualifier

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Due to insufficient sample received, the initial sample amount used for the following samples deviated from the standard procedure:WB25014-009, WB25014-010, WB25014-011, WB25014-012. The LOQ has been adjusted accordingly.

The method blank for analytical batch 84704 contained analyte 6:2-FTS greater than the acceptance criteria. The associated samples WB25014-001, WB25014-002, WB25014-003, WB25014-004, WB25014-005, WB25014-006, WB25014-007, WB25014-008, WB25014-009, WB25014-010, WB25014-011, WB25014-012 did not contain detections for the target analyte; therefore, re-extraction and re-analysis of samples were not performed. The data has been reported.

Sample Summary
Pace Analytical Services, LLC
Lot Number: WB25014
Project Name: B3001170.00-003 Mead St.
Project Number: 40222277

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	B-1 4-5	Solid	02/18/2021 1043	02/24/2021
002	B-1 8-10	Solid	02/18/2021 1047	02/24/2021
003	B-2 4-5	Solid	02/18/2021 1005	02/24/2021
004	B-2 8-10	Solid	02/18/2021 1010	02/24/2021
005	B-4 4-5	Solid	02/18/2021 1135	02/24/2021
006	B-4 8-10	Solid	02/18/2021 1139	02/24/2021
007	B-5 4-5	Solid	02/18/2021 1108	02/24/2021
008	B-5 8-10	Solid	02/18/2021 1114	02/24/2021
009	EB-1	Aqueous	02/18/2021 1251	02/24/2021
010	EB-2	Aqueous	02/18/2021 1255	02/24/2021
011	FB-1	Aqueous	02/18/2021 1257	02/24/2021
012	EB-3	Aqueous	02/18/2021 1320	02/24/2021

(12 samples)

Detection Summary

Pace Analytical Services, LLC

Lot Number: WB25014

Project Name: B3001170.00-003 Mead St.

Project Number: 40222277

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	B-2 8-10	Solid	PFOS	PFAS by ID	0.33	BJ	ug/kg	11

(1 detection)

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-001**

Description: **B-1 4-5** Matrix: **Solid**

Date Sampled: **02/18/2021 1043** Project Name: **B3001170.00-003 Mead St.** % Solids: **89.3** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1326	JJG	03/03/2021 1217	84505

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.5	1.1	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		99	25-150
13C2_6:2FTS		89	25-150
13C2_8:2FTS		91	25-150
13C2_PFDoA		101	25-150
13C2_PFHxDA		95	25-150
13C2_PFTeDA		101	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-001**

Description: **B-1 4-5** Matrix: **Solid**

Date Sampled: **02/18/2021 1043** Project Name: **B3001170.00-003 Mead St.** % Solids: **89.3** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		95	25-150
13C3_PFHxS		96	25-150
13C3-HFPO-DA		92	25-150
13C4_PFBA		98	25-150
13C4_PFHpA		96	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		96	25-150
13C6_PFDA		98	25-150
13C7_PFUdA		103	25-150
13C8_PFOA		91	25-150
13C8_PFOS		88	25-150
13C8_PFOSA		99	10-150
13C9_PFNA		96	25-150
d-EtFOSA		107	10-150
d5-EtFOSAA		91	25-150
d9-EtFOSE		97	10-150
d-MeFOSA		100	10-150
d3-MeFOSAA		92	25-150
d7-MeFOSE		94	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-002**

Description: **B-1 8-10** Matrix: **Solid**

Date Sampled: **02/18/2021 1047** Project Name: **B3001170.00-003 Mead St.** % Solids: **85.9** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1358	JJG	03/03/2021 1217	84505

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.3	1.1	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.1	0.53	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		101	25-150
13C2_6:2FTS		101	25-150
13C2_8:2FTS		86	25-150
13C2_PFDoA		110	25-150
13C2_PFHxDA		104	25-150
13C2_PFTeDA		106	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC**		Laboratory ID: **WB25014-002**	
Description: **B-1 8-10**		Matrix: **Solid**	
Date Sampled: **02/18/2021 1047**	Project Name: **B3001170.00-003 Mead St.**	% Solids: **85.9**	**03/02/2021 2356**
Date Received: **02/24/2021**	Project Number: **40222277**		

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		100	25-150
13C3_PFHxS		105	25-150
13C3-HFPO-DA		95	25-150
13C4_PFBA		103	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		100	25-150
13C5_PFPeA		106	25-150
13C6_PFDA		110	25-150
13C7_PFUdA		108	25-150
13C8_PFOA		101	25-150
13C8_PFOS		101	25-150
13C8_PFOSA		107	10-150
13C9_PFNA		104	25-150
d-EtFOSA		113	10-150
d5-EtFOSAA		94	25-150
d9-EtFOSE		113	10-150
d-MeFOSA		102	10-150
d3-MeFOSAA		95	25-150
d7-MeFOSE		102	10-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL
H = Out of holding time	W = Reported on wet weight basis		

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-003**

Description: **B-2 4-5** Matrix: **Solid**

Date Sampled: **02/18/2021 1005** Project Name: **B3001170.00-003 Mead St.** % Solids: **86.9** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1408	JJG	03/03/2021 1217	84505

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		3.9	0.98	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.0	0.49	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		0.98	0.20	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		99	25-150
13C2_6:2FTS		96	25-150
13C2_8:2FTS		102	25-150
13C2_PFDoA		102	25-150
13C2_PFHxDA		102	25-150
13C2_PFTeDA		107	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-003**

Description: **B-2 4-5** Matrix: **Solid**

Date Sampled: **02/18/2021 1005** Project Name: **B3001170.00-003 Mead St.** % Solids: **86.9** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		98	25-150
13C3_PFHxS		110	25-150
13C3-HFPO-DA		94	25-150
13C4_PFBA		102	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		103	25-150
13C6_PFDA		101	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		98	25-150
13C8_PFOS		95	25-150
13C8_PFOSA		111	10-150
13C9_PFNA		103	25-150
d-EtFOSA		104	10-150
d5-EtFOSAA		99	25-150
d9-EtFOSE		103	10-150
d-MeFOSA		106	10-150
d3-MeFOSAA		101	25-150
d7-MeFOSE		108	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-004**

Description: **B-2 8-10** Matrix: **Solid**

Date Sampled: **02/18/2021 1010** Project Name: **B3001170.00-003 Mead St.** % Solids: **83.9** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1419	JJG	03/03/2021 1217	84505

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.6	1.1	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	**1763-23-1**	**PFAS by ID SOP**	**0.33**	**BJ**	**1.1**	**0.23**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		106	25-150
13C2_6:2FTS		101	25-150
13C2_8:2FTS		101	25-150
13C2_PFDoA		111	25-150
13C2_PFHxDA		108	25-150
13C2_PFTeDA		115	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-004**

Description: **B-2 8-10** Matrix: **Solid**

Date Sampled: **02/18/2021 1010** Project Name: **B3001170.00-003 Mead St.** % Solids: **83.9** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		101	25-150
13C3_PFHxS		112	25-150
13C3-HFPO-DA		99	25-150
13C4_PFBA		106	25-150
13C4_PFHpA		108	25-150
13C5_PFHxA		109	25-150
13C5_PFPeA		109	25-150
13C6_PFDA		113	25-150
13C7_PFUdA		109	25-150
13C8_PFOA		108	25-150
13C8_PFOS		101	25-150
13C8_PFOSA		112	10-150
13C9_PFNA		108	25-150
d-EtFOSA		101	10-150
d5-EtFOSAA		97	25-150
d9-EtFOSE		123	10-150
d-MeFOSA		102	10-150
d3-MeFOSAA		104	25-150
d7-MeFOSE		110	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-005**

Description: **B-4 4-5** Matrix: **Solid**

Date Sampled: **02/18/2021 1135** Project Name: **B3001170.00-003 Mead St.** % Solids: **86.7** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1430	JJG	03/03/2021 1217	84505

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		3.8	0.95	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		1.9	0.48	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		0.95	0.19	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		118	25-150
13C2_6:2FTS		103	25-150
13C2_8:2FTS		108	25-150
13C2_PFDoA		117	25-150
13C2_PFHxDA		114	25-150
13C2_PFTeDA		119	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-005**

Description: **B-4 4-5** Matrix: **Solid**

Date Sampled: **02/18/2021 1135** Project Name: **B3001170.00-003 Mead St.** % Solids: **86.7** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		108	25-150
13C3_PFHxS		115	25-150
13C3-HFPO-DA		107	25-150
13C4_PFBA		113	25-150
13C4_PFHpA		115	25-150
13C5_PFHxA		113	25-150
13C5_PFPeA		114	25-150
13C6_PFDA		111	25-150
13C7_PFUdA		115	25-150
13C8_PFOA		109	25-150
13C8_PFOS		109	25-150
13C8_PFOSA		123	10-150
13C9_PFNA		111	25-150
d-EtFOSA		131	10-150
d5-EtFOSAA		94	25-150
d9-EtFOSE		124	10-150
d-MeFOSA		111	10-150
d3-MeFOSAA		105	25-150
d7-MeFOSE		111	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-006**

Description: **B-4 8-10** Matrix: **Solid**

Date Sampled: **02/18/2021 1139** Project Name: **B3001170.00-003 Mead St.** % Solids: **85.2** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1440	JJG	03/03/2021 1217	84505

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.6	1.1	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.3	0.57	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		110	25-150
13C2_6:2FTS		109	25-150
13C2_8:2FTS		107	25-150
13C2_PFDoA		117	25-150
13C2_PFHxDA		114	25-150
13C2_PFTeDA		121	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Pace Analytical Services, LLC**		Laboratory ID: **WB25014-006**	
Description: **B-4 8-10**		Matrix: **Solid**	
Date Sampled: **02/18/2021 1139**	Project Name: **B3001170.00-003 Mead St.**	% Solids: **85.2**	**03/02/2021 2356**
Date Received: **02/24/2021**	Project Number: **40222277**		

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		115	25-150
13C3_PFHxS		119	25-150
13C3-HFPO-DA		108	25-150
13C4_PFBA		112	25-150
13C4_PFHpA		116	25-150
13C5_PFHxA		111	25-150
13C5_PFPeA		114	25-150
13C6_PFDA		116	25-150
13C7_PFUdA		118	25-150
13C8_PFOA		111	25-150
13C8_PFOS		107	25-150
13C8_PFOSA		119	10-150
13C9_PFNA		114	25-150
d-EtFOSA		112	10-150
d5-EtFOSAA		98	25-150
d9-EtFOSE		115	10-150
d-MeFOSA		98	10-150
d3-MeFOSAA		102	25-150
d7-MeFOSE		108	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-007**

Description: **B-5 4-5** Matrix: **Solid**

Date Sampled: **02/18/2021 1108** Project Name: **B3001170.00-003 Mead St.** % Solids: **87.6** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1451	JJG	03/03/2021 1217	84505

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.0	1.0	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.0	0.50	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		88	25-150
13C2_6:2FTS		89	25-150
13C2_8:2FTS		85	25-150
13C2_PFDoA		98	25-150
13C2_PFHxDA		92	25-150
13C2_PFTeDA		100	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-007**

Description: **B-5 4-5** Matrix: **Solid**

Date Sampled: **02/18/2021 1108** Project Name: **B3001170.00-003 Mead St.** % Solids: **87.6** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		96	25-150
13C3_PFHxS		97	25-150
13C3-HFPO-DA		88	25-150
13C4_PFBA		93	25-150
13C4_PFHpA		93	25-150
13C5_PFHxA		98	25-150
13C5_PFPeA		93	25-150
13C6_PFDA		92	25-150
13C7_PFUdA		99	25-150
13C8_PFOA		93	25-150
13C8_PFOS		88	25-150
13C8_PFOSA		101	10-150
13C9_PFNA		92	25-150
d-EtFOSA		110	10-150
d5-EtFOSAA		83	25-150
d9-EtFOSE		103	10-150
d-MeFOSA		89	10-150
d3-MeFOSAA		86	25-150
d7-MeFOSE		88	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-008**

Description: **B-5 8-10** Matrix: **Solid**

Date Sampled: **02/18/2021 1114** Project Name: **B3001170.00-003 Mead St.** % Solids: **86.6** **03/02/2021 2356**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1502	JJG	03/03/2021 1217	84505

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.3	1.1	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.2	0.54	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		103	25-150
13C2_6:2FTS		99	25-150
13C2_8:2FTS		95	25-150
13C2_PFDoA		102	25-150
13C2_PFHxDA		97	25-150
13C2_PFTeDA		102	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC**		Laboratory ID: **WB25014-008**	
Description: **B-5 8-10**		Matrix: **Solid**	
Date Sampled: **02/18/2021 1114**	Project Name: **B3001170.00-003 Mead St.**	% Solids: **86.6**	**03/02/2021 2356**
Date Received: **02/24/2021**	Project Number: **40222277**		

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		94	25-150
13C3_PFHxS		97	25-150
13C3-HFPO-DA		94	25-150
13C4_PFBA		99	25-150
13C4_PFHpA		94	25-150
13C5_PFHxA		98	25-150
13C5_PFPeA		98	25-150
13C6_PFDA		99	25-150
13C7_PFUdA		105	25-150
13C8_PFOA		94	25-150
13C8_PFOS		97	25-150
13C8_PFOSA		105	10-150
13C9_PFNA		96	25-150
d-EtFOSA		120	10-150
d5-EtFOSAA		85	25-150
d9-EtFOSE		107	10-150
d-MeFOSA		95	10-150
d3-MeFOSAA		96	25-150
d7-MeFOSE		105	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-009**

Description: **EB-1** Matrix: **Aqueous**

Date Sampled: **02/18/2021 1251** Project Name: **B3001170.00-003 Mead St.**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1129	JJG	03/03/2021 1112	84503
2	SOP SPE	PFAS by ID SOP	1	03/08/2021 1507	JJG	03/07/2021 1800	84886

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		16	3.9	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		16	3.9	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		16	3.9	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		16	4.1	ng/L	2
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		16	3.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		16	3.9	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		16	3.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		16	3.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		16	3.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		16	3.9	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		16	3.9	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		31	7.9	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		16	3.9	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		16	3.9	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		16	3.9	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		16	3.9	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		16	3.9	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		7.9	2.0	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		7.9	2.0	ng/L	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_4:2FTS		103	25-150		84	25-150
13C2_6:2FTS		95	25-150		99	25-150
13C2_8:2FTS		99	25-150		103	25-150
13C2_PFDoA		92	25-150		94	25-150
13C2_PFHxDA		90	25-150		91	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-009**

Description: **EB-1** Matrix: **Aqueous**

Date Sampled: **02/18/2021 1251** Project Name: **B3001170.00-003 Mead St.**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_PFTeDA		94	25-150		95	25-150
13C3_PFBS		100	25-150		95	25-150
13C3_PFHxS		102	25-150		95	25-150
13C3-HFPO-DA		93	25-150		102	25-150
13C4_PFBA		100	25-150		101	25-150
13C4_PFHpA		103	25-150		103	25-150
13C5_PFHxA		103	25-150		102	25-150
13C5_PFPeA		102	25-150		105	25-150
13C6_PFDA		94	25-150		95	25-150
13C7_PFUdA		95	25-150		97	25-150
13C8_PFOA		101	25-150		101	25-150
13C8_PFOS		93	25-150		96	25-150
13C8_PFOSA		95	10-150		88	10-150
13C9_PFNA		99	25-150		101	25-150
d-EtFOSA		82	10-150		68	10-150
d5-EtFOSAA		84	25-150		108	25-150
d9-EtFOSE		88	10-150		88	10-150
d-MeFOSA		68	10-150		74	10-150
d3-MeFOSAA		88	25-150		93	25-150
d7-MeFOSE		88	10-150		100	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-010**

Description: **EB-2** Matrix: **Aqueous**

Date Sampled: **02/18/2021 1255** Project Name: **B3001170.00-003 Mead St.**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1140	JJG	03/03/2021 1112	84503
2	SOP SPE	PFAS by ID SOP	1	03/13/2021 0551	SES	03/09/2021 0000	85074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		17	4.2	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		17	4.2	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		19	4.8	ng/L	2
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		17	4.2	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		17	4.2	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		17	4.2	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		17	4.2	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		17	4.2	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		17	4.2	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		17	4.2	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		17	4.2	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		33	8.3	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		17	4.2	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		17	4.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		17	4.2	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		17	4.2	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		17	4.2	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		8.3	2.1	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		9.5	2.4	ng/L	2

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_4:2FTS		147	25-150		93	25-150
13C2_6:2FTS		124	25-150		107	25-150
13C2_8:2FTS	N	177	25-150		120	25-150
13C2_PFDoA		92	25-150		81	25-150
13C2_PFHxDA		107	25-150		82	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-010**

Description: **EB-2** Matrix: **Aqueous**

Date Sampled: **02/18/2021 1255** Project Name: **B3001170.00-003 Mead St.**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_PFTeDA		96	25-150		82	25-150
13C3_PFBS		119	25-150		95	25-150
13C3_PFHxS		124	25-150		91	25-150
13C3-HFPO-DA		112	25-150		92	25-150
13C4_PFBA		128	25-150		101	25-150
13C4_PFHpA		119	25-150		85	25-150
13C5_PFHxA		125	25-150		99	25-150
13C5_PFPeA		125	25-150		88	25-150
13C6_PFDA		129	25-150		86	25-150
13C7_PFUdA		143	25-150		93	25-150
13C8_PFOA		116	25-150		90	25-150
13C8_PFOS		110	25-150		107	25-150
13C8_PFOSA		120	10-150		97	10-150
13C9_PFNA		141	25-150		95	25-150
d-EtFOSA		47	10-150		30	10-150
d5-EtFOSAA		134	25-150		98	25-150
d9-EtFOSE		55	10-150		54	10-150
d-MeFOSA		69	10-150		53	10-150
d3-MeFOSAA		100	25-150		94	25-150
d7-MeFOSE		90	10-150		86	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-011**

Description: **FB-1** Matrix: **Aqueous**

Date Sampled: **02/18/2021 1257** Project Name: **B3001170.00-003 Mead St.**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1151	JJG	03/03/2021 1112	84503

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		16	4.0	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		16	4.0	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		16	4.0	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		16	4.0	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		16	4.0	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		16	4.0	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		16	4.0	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		16	4.0	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		16	4.0	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		16	4.0	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		16	4.0	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		32	8.0	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		16	4.0	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		16	4.0	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		16	4.0	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		16	4.0	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		16	4.0	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		8.0	2.0	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		111	25-150
13C2_6:2FTS		124	25-150
13C2_8:2FTS		105	25-150
13C2_PFDoA		112	25-150
13C2_PFHxDA		109	25-150
13C2_PFTeDA		103	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-011**

Description: **FB-1** Matrix: **Aqueous**

Date Sampled: **02/18/2021 1257** Project Name: **B3001170.00-003 Mead St.**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		112	25-150
13C3_PFHxS		120	25-150
13C3-HFPO-DA		108	25-150
13C4_PFBA		119	25-150
13C4_PFHpA		113	25-150
13C5_PFHxA		123	25-150
13C5_PFPeA		124	25-150
13C6_PFDA		113	25-150
13C7_PFUdA		118	25-150
13C8_PFOA		117	25-150
13C8_PFOS		102	25-150
13C8_PFOSA		112	10-150
13C9_PFNA		115	25-150
d-EtFOSA		96	10-150
d5-EtFOSAA		100	25-150
d9-EtFOSE		111	10-150
d-MeFOSA		83	10-150
d3-MeFOSAA		101	25-150
d7-MeFOSE		101	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-012**

Description: **EB-3** Matrix: **Aqueous**

Date Sampled: **02/18/2021 1320** Project Name: **B3001170.00-003 Mead St.**

Date Received: **02/24/2021** Project Number: **40222277**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/04/2021 1201	JJG	03/03/2021 1112	84503

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		19	4.7	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		19	4.7	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		19	4.7	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		19	4.7	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		19	4.7	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		19	4.7	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		19	4.7	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		19	4.7	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		19	4.7	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		19	4.7	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		19	4.7	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		38	9.4	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		19	4.7	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		19	4.7	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		19	4.7	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		19	4.7	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		19	4.7	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		9.4	2.4	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		9.4	2.4	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		119	25-150
13C2_6:2FTS		116	25-150
13C2_8:2FTS		114	25-150
13C2_PFDoA		118	25-150
13C2_PFHxDA		115	25-150
13C2_PFTeDA		115	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WB25014-012**

Description: **EB-3** Matrix: **Aqueous**

Date Sampled: **02/18/2021 1320** Project Name: **B3001170.00-003 Mead St.**

Date Received: **02/24/2021** Project Number: **40222277**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		118	25-150
13C3_PFHxS		122	25-150
13C3-HFPO-DA		112	25-150
13C4_PFBA		121	25-150
13C4_PFHpA		122	25-150
13C5_PFHxA		123	25-150
13C5_PFPeA		126	25-150
13C6_PFDA		121	25-150
13C7_PFUdA		116	25-150
13C8_PFOA		123	25-150
13C8_PFOS		110	25-150
13C8_PFOSA		115	10-150
13C9_PFNA		115	25-150
d-EtFOSA		79	10-150
d5-EtFOSAA		102	25-150
d9-EtFOSE		101	10-150
d-MeFOSA		69	10-150
d3-MeFOSAA		108	25-150
d7-MeFOSE		100	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

QC Summary

PFAS by LC/MS/MS - MB

Sample ID: WQ84503-001
Batch: 84503
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/03/2021 1112

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
9Cl-PF3ONS	ND		1	8.0	2.0	ng/L	03/04/2021 1108
11Cl-PF3OUdS	ND		1	8.0	2.0	ng/L	03/04/2021 1108
8:2 FTS	ND		1	8.0	2.0	ng/L	03/04/2021 1108
6:2 FTS	**16**		**1**	**8.0**	**2.0**	**ng/L**	**03/04/2021 1108**
10:2 FTS	ND		1	8.0	2.0	ng/L	03/04/2021 1108
4:2 FTS	ND		1	8.0	2.0	ng/L	03/04/2021 1108
GenX	ND		1	8.0	2.0	ng/L	03/04/2021 1108
ADONA	ND		1	8.0	2.0	ng/L	03/04/2021 1108
EtFOSA	ND		1	8.0	2.0	ng/L	03/04/2021 1108
EtFOSAA	ND		1	8.0	2.0	ng/L	03/04/2021 1108
EtFOSE	ND		1	8.0	2.0	ng/L	03/04/2021 1108
MeFOSA	ND		1	16	4.0	ng/L	03/04/2021 1108
MeFOSAA	ND		1	8.0	2.0	ng/L	03/04/2021 1108
MeFOSE	ND		1	8.0	2.0	ng/L	03/04/2021 1108
PFBS	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFDS	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFHpS	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFNS	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFOSA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFPeS	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFDOS	ND		1	8.0	2.0	ng/L	03/04/2021 1108
PFHxS	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFBA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFDA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFDoA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFHpA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFHxDA	ND		1	8.0	2.0	ng/L	03/04/2021 1108
PFHxA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFNA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFODA	ND		1	8.0	2.0	ng/L	03/04/2021 1108
PFOA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFPeA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFTeDA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFTrDA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFUdA	ND		1	4.0	1.0	ng/L	03/04/2021 1108
PFOS	ND		1	4.0	1.0	ng/L	03/04/2021 1108

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		100	25-150
13C2_6:2FTS		103	25-150
13C2_8:2FTS		96	25-150
13C2_PFDoA		94	25-150
13C2_PFHxDA		91	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: WQ84503-001
Batch: 84503
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/03/2021 1112

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		95	25-150
13C3_PFBS		95	25-150
13C3_PFHxS		106	25-150
13C3-HFPO-DA		96	25-150
13C4_PFBA		103	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		101	25-150
13C5_PFPeA		104	25-150
13C6_PFDA		100	25-150
13C7_PFUdA		100	25-150
13C8_PFOA		101	25-150
13C8_PFOS		84	25-150
13C8_PFOSA		97	10-150
13C9_PFNA		97	25-150
d-EtFOSA		78	10-150
d5-EtFOSAA		89	25-150
d9-EtFOSE		94	10-150
d-MeFOSA		86	10-150
d3-MeFOSAA		90	25-150
d7-MeFOSE		92	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ84503-002
Batch: 84503
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/03/2021 1112

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
9Cl-PF3ONS	15	15		1	99	50-150	03/04/2021 1119
11Cl-PF3OUdS	15	14		1	93	50-150	03/04/2021 1119
8:2 FTS	15	17		1	114	50-150	03/04/2021 1119
6:2 FTS	15	19		1	128	50-150	03/04/2021 1119
10:2 FTS	15	16		1	105	50-150	03/04/2021 1119
4:2 FTS	15	17		1	117	50-150	03/04/2021 1119
GenX	32	36		1	112	50-150	03/04/2021 1119
ADONA	15	17		1	110	50-150	03/04/2021 1119
EtFOSA	16	16		1	102	50-150	03/04/2021 1119
EtFOSAA	16	15		1	94	50-150	03/04/2021 1119
EtFOSE	16	17		1	109	50-150	03/04/2021 1119
MeFOSA	16	16		1	100	50-150	03/04/2021 1119
MeFOSAA	16	16		1	98	50-150	03/04/2021 1119
MeFOSE	16	17		1	106	50-150	03/04/2021 1119
PFBS	14	15		1	105	50-150	03/04/2021 1119
PFDS	15	14		1	89	50-150	03/04/2021 1119
PFHpS	15	15		1	101	50-150	03/04/2021 1119
PFNS	15	15		1	96	50-150	03/04/2021 1119
PFOSA	16	18		1	109	50-150	03/04/2021 1119
PFPeS	15	16		1	106	50-150	03/04/2021 1119
PFDOS	15	14		1	91	50-150	03/04/2021 1119
PFHxS	15	15		1	103	50-150	03/04/2021 1119
PFBA	16	16		1	102	50-150	03/04/2021 1119
PFDA	16	16		1	98	50-150	03/04/2021 1119
PFDoA	16	17		1	106	50-150	03/04/2021 1119
PFHpA	16	16		1	98	50-150	03/04/2021 1119
PFHxDA	16	18		1	109	50-150	03/04/2021 1119
PFHxA	16	16		1	102	50-150	03/04/2021 1119
PFNA	16	17		1	106	50-150	03/04/2021 1119
PFODA	16	18		1	113	50-150	03/04/2021 1119
PFOA	16	17		1	109	50-150	03/04/2021 1119
PFPeA	16	16		1	99	50-150	03/04/2021 1119
PFTeDA	16	16		1	103	50-150	03/04/2021 1119
PFTrDA	16	16		1	100	50-150	03/04/2021 1119
PFUdA	16	15		1	94	50-150	03/04/2021 1119
PFOS	15	15		1	102	50-150	03/04/2021 1119

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		98	25-150
13C2_6:2FTS		100	25-150
13C2_8:2FTS		82	25-150
13C2_PFDoA		89	25-150
13C2_PFHxDA		86	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ84503-002
Batch: 84503
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/03/2021 1112

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		91	25-150
13C3_PFBS		94	25-150
13C3_PFHxS		95	25-150
13C3-HFPO-DA		92	25-150
13C4_PFBA		100	25-150
13C4_PFHpA		98	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		104	25-150
13C6_PFDA		96	25-150
13C7_PFUdA		94	25-150
13C8_PFOA		95	25-150
13C8_PFOS		86	25-150
13C8_PFOSA		97	10-150
13C9_PFNA		95	25-150
d-EtFOSA		88	10-150
d5-EtFOSAA		85	25-150
d9-EtFOSE		95	10-150
d-MeFOSA		76	10-150
d3-MeFOSAA		85	25-150
d7-MeFOSE		89	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: WQ84505-001
Batch: 84505
Analytical Method: PFAS by ID SOP
Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/03/2021 1217

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
9Cl-PF3ONS	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
11Cl-PF3OUdS	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
8:2 FTS	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
6:2 FTS	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
10:2 FTS	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
4:2 FTS	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
GenX	ND		1	4.0	1.0	ug/kg	03/04/2021 1305
ADONA	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
EtFOSA	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
EtFOSAA	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
EtFOSE	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
MeFOSA	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
MeFOSAA	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
MeFOSE	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
PFBS	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFDS	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFHpS	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFNS	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFOSA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFPeS	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFDOS	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFHxS	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFBA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFDA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFDoA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFHpA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFHxDA	ND		1	2.0	0.50	ug/kg	03/04/2021 1305
PFHxA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFNA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFODA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFOA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFPeA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFTeDA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFTrDA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFUdA	ND		1	1.0	0.20	ug/kg	03/04/2021 1305
PFOS	**0.28**	**J**	**1**	**1.0**	**0.20**	**ug/kg**	**03/04/2021 1305**

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		97	25-150
13C2_6:2FTS		93	25-150
13C2_8:2FTS		89	25-150
13C2_PFDoA		99	25-150
13C2_PFHxDA		91	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: WQ84505-001
Batch: 84505
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/03/2021 1217

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		100	25-150
13C3_PFBS		89	25-150
13C3_PFHxS		100	25-150
13C3-HFPO-DA		87	25-150
13C4_PFBA		95	25-150
13C4_PFHpA		98	25-150
13C5_PFHxA		97	25-150
13C5_PFPeA		94	25-150
13C6_PFDA		96	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		93	25-150
13C8_PFOS		89	25-150
13C8_PFOSA		98	10-150
13C9_PFNA		99	25-150
d-EtFOSA		91	10-150
d5-EtFOSAA		87	25-150
d9-EtFOSE		97	10-150
d-MeFOSA		90	10-150
d3-MeFOSAA		90	25-150
d7-MeFOSE		87	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ84505-002
Batch: 84505
Analytical Method: PFAS by ID SOP
Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/03/2021 1217

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
9Cl-PF3ONS	1.9	1.6		1	88	50-150	03/04/2021 1315
11Cl-PF3OUdS	1.9	1.9		1	101	50-150	03/04/2021 1315
8:2 FTS	1.9	2.4		1	126	50-150	03/04/2021 1315
6:2 FTS	1.9	2.0		1	105	50-150	03/04/2021 1315
10:2 FTS	1.9	1.9		1	97	50-150	03/04/2021 1315
4:2 FTS	1.9	1.7		1	92	50-150	03/04/2021 1315
GenX	4.0	3.8		1	95	50-150	03/04/2021 1315
ADONA	1.9	1.7		1	90	50-150	03/04/2021 1315
EtFOSA	2.0	1.4		1	70	50-150	03/04/2021 1315
EtFOSAA	2.0	1.6		1	78	50-150	03/04/2021 1315
EtFOSE	2.0	1.9		1	96	50-150	03/04/2021 1315
MeFOSA	2.0	1.6		1	80	50-150	03/04/2021 1315
MeFOSAA	2.0	2.0		1	102	50-150	03/04/2021 1315
MeFOSE	2.0	1.8		1	91	50-150	03/04/2021 1315
PFBS	1.8	1.7		1	99	50-150	03/04/2021 1315
PFDS	1.9	1.6		1	81	50-150	03/04/2021 1315
PFHpS	1.9	1.6		1	84	50-150	03/04/2021 1315
PFNS	1.9	1.4		1	73	50-150	03/04/2021 1315
PFOSA	2.0	1.6		1	78	50-150	03/04/2021 1315
PFPeS	1.9	1.5		1	80	50-150	03/04/2021 1315
PFDOS	1.9	1.6		1	85	50-150	03/04/2021 1315
PFHxS	1.8	1.4		1	79	50-150	03/04/2021 1315
PFBA	2.0	1.8		1	88	50-150	03/04/2021 1315
PFDA	2.0	1.7		1	83	50-150	03/04/2021 1315
PFDoA	2.0	1.9		1	96	50-150	03/04/2021 1315
PFHpA	2.0	1.8		1	90	50-150	03/04/2021 1315
PFHxDA	2.0	1.9		1	94	50-150	03/04/2021 1315
PFHxA	2.0	1.7		1	85	50-150	03/04/2021 1315
PFNA	2.0	1.7		1	87	50-150	03/04/2021 1315
PFODA	2.0	1.9		1	96	50-150	03/04/2021 1315
PFOA	2.0	1.9		1	93	50-150	03/04/2021 1315
PFPeA	2.0	1.7		1	87	50-150	03/04/2021 1315
PFTeDA	2.0	1.8		1	89	50-150	03/04/2021 1315
PFTrDA	2.0	1.8		1	88	50-150	03/04/2021 1315
PFUdA	2.0	1.8		1	89	50-150	03/04/2021 1315
PFOS	1.9	1.6		1	89	50-150	03/04/2021 1315

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		97	25-150
13C2_6:2FTS		96	25-150
13C2_8:2FTS		97	25-150
13C2_PFDoA		102	25-150
13C2_PFHxDA		101	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ84505-002
Batch: 84505
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/03/2021 1217

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		104	25-150
13C3_PFBS		96	25-150
13C3_PFHxS		102	25-150
13C3-HFPO-DA		93	25-150
13C4_PFBA		99	25-150
13C4_PFHpA		107	25-150
13C5_PFHxA		102	25-150
13C5_PFPeA		104	25-150
13C6_PFDA		106	25-150
13C7_PFUdA		107	25-150
13C8_PFOA		99	25-150
13C8_PFOS		93	25-150
13C8_PFOSA		103	10-150
13C9_PFNA		102	25-150
d-EtFOSA		108	10-150
d5-EtFOSAA		100	25-150
d9-EtFOSE		108	10-150
d-MeFOSA		99	10-150
d3-MeFOSAA		98	25-150
d7-MeFOSE		100	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: WB25014-001MS
Batch: 84505
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/03/2021 1217

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
9Cl-PF3ONS	ND	2.0	1.9		1	96	50-150	03/04/2021 1337
11Cl-PF3OUdS	ND	2.0	2.2		1	108	50-150	03/04/2021 1337
8:2 FTS	ND	2.0	2.3		1	111	50-150	03/04/2021 1337
6:2 FTS	ND	2.0	2.1		1	107	50-150	03/04/2021 1337
10:2 FTS	ND	2.0	2.0		1	98	50-150	03/04/2021 1337
4:2 FTS	ND	2.0	2.0		1	100	50-150	03/04/2021 1337
GenX	ND	4.3	4.1		1	97	50-150	03/04/2021 1337
ADONA	ND	2.0	2.0		1	101	50-150	03/04/2021 1337
EtFOSA	ND	2.1	2.4		1	111	50-150	03/04/2021 1337
EtFOSAA	ND	2.1	1.7		1	82	50-150	03/04/2021 1337
EtFOSE	ND	2.1	2.0		1	95	50-150	03/04/2021 1337
MeFOSA	ND	2.1	2.2		1	105	50-150	03/04/2021 1337
MeFOSAA	ND	2.1	1.9		1	88	50-150	03/04/2021 1337
MeFOSE	ND	2.1	2.1		1	101	50-150	03/04/2021 1337
PFBS	ND	1.9	2.0		1	105	50-150	03/04/2021 1337
PFDS	ND	2.0	1.9		1	93	50-150	03/04/2021 1337
PFHpS	ND	2.0	2.1		1	104	50-150	03/04/2021 1337
PFNS	ND	2.0	2.1		1	101	50-150	03/04/2021 1337
PFOSA	ND	2.1	2.0		1	93	50-150	03/04/2021 1337
PFPeS	ND	2.0	1.8		1	92	50-150	03/04/2021 1337
PFDOS	ND	2.1	1.8		1	89	50-150	03/04/2021 1337
PFHxS	ND	1.9	1.8		1	91	50-150	03/04/2021 1337
PFBA	ND	2.1	2.1		1	99	50-150	03/04/2021 1337
PFDA	ND	2.1	2.0		1	92	50-150	03/04/2021 1337
PFDoA	ND	2.1	1.9		1	91	50-150	03/04/2021 1337
PFHpA	ND	2.1	2.0		1	95	50-150	03/04/2021 1337
PFHxDA	ND	2.1	2.2		1	103	50-150	03/04/2021 1337
PFHxA	ND	2.1	1.9		1	91	50-150	03/04/2021 1337
PFNA	ND	2.1	2.0		1	96	50-150	03/04/2021 1337
PFODA	ND	2.1	2.1		1	101	50-150	03/04/2021 1337
PFOA	ND	2.1	2.0		1	94	50-150	03/04/2021 1337
PFPeA	ND	2.1	2.1		1	100	50-150	03/04/2021 1337
PFTeDA	ND	2.1	2.0		1	96	50-150	03/04/2021 1337
PFTrDA	ND	2.1	1.8		1	83	50-150	03/04/2021 1337
PFUdA	ND	2.1	2.0		1	94	50-150	03/04/2021 1337
PFOS	ND	2.0	2.0		1	100	50-150	03/04/2021 1337

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		115	25-150
13C2_6:2FTS		113	25-150
13C2_8:2FTS		107	25-150
13C2_PFDoA		127	25-150
13C2_PFHxDA		111	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: WB25014-001MS
Batch: 84505
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/03/2021 1217

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		117	25-150
13C3_PFBS		115	25-150
13C3_PFHxS		116	25-150
13C3-HFPO-DA		109	25-150
13C4_PFBA		115	25-150
13C4_PFHpA		117	25-150
13C5_PFHxA		115	25-150
13C5_PFPeA		117	25-150
13C6_PFDA		118	25-150
13C7_PFUdA		119	25-150
13C8_PFOA		115	25-150
13C8_PFOS		108	25-150
13C8_PFOSA		119	10-150
13C9_PFNA		110	25-150
d-EtFOSA		123	10-150
d5-EtFOSAA		104	25-150
d9-EtFOSE		119	10-150
d-MeFOSA		102	10-150
d3-MeFOSAA		106	25-150
d7-MeFOSE		108	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: WB25014-001MD
Batch: 84505
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/03/2021 1217

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
9Cl-PF3ONS	ND	1.8	1.5		1	81	25	50-150	30	03/04/2021 1347
11Cl-PF3OUdS	ND	1.8	1.8		1	96	19	50-150	30	03/04/2021 1347
8:2 FTS	ND	1.9	2.0		1	107	12	50-150	30	03/04/2021 1347
6:2 FTS	ND	1.9	1.9		1	102	12	50-150	30	03/04/2021 1347
10:2 FTS	ND	1.9	1.3	+	1	68	43	50-150	30	03/04/2021 1347
4:2 FTS	ND	1.8	1.6		1	90	19	50-150	30	03/04/2021 1347
GenX	ND	3.9	3.4		1	87	18	50-150	30	03/04/2021 1347
ADONA	ND	1.8	1.7		1	93	16	50-150	30	03/04/2021 1347
EtFOSA	ND	2.0	2.1		1	107	12	50-150	30	03/04/2021 1347
EtFOSAA	ND	2.0	1.6		1	82	7.3	50-150	30	03/04/2021 1347
EtFOSE	ND	2.0	1.8		1	94	9.9	50-150	30	03/04/2021 1347
MeFOSA	ND	2.0	2.2		1	113	0.69	50-150	30	03/04/2021 1347
MeFOSAA	ND	2.0	1.7		1	88	8.4	50-150	30	03/04/2021 1347
MeFOSE	ND	2.0	1.5	+	1	76	36	50-150	30	03/04/2021 1347
PFBS	ND	1.7	1.6		1	94	19	50-150	30	03/04/2021 1347
PFDS	ND	1.9	1.6		1	85	18	50-150	30	03/04/2021 1347
PFHpS	ND	1.9	1.6		1	85	28	50-150	30	03/04/2021 1347
PFNS	ND	1.9	1.6		1	85	25	50-150	30	03/04/2021 1347
PFOSA	ND	2.0	1.7		1	87	15	50-150	30	03/04/2021 1347
PFPeS	ND	1.8	1.6		1	85	15	50-150	30	03/04/2021 1347
PFDOS	ND	1.9	1.6		1	85	14	50-150	30	03/04/2021 1347
PFHxS	ND	1.8	1.5		1	83	18	50-150	30	03/04/2021 1347
PFBA	ND	2.0	1.7		1	88	20	50-150	30	03/04/2021 1347
PFDA	ND	2.0	1.6		1	84	18	50-150	30	03/04/2021 1347
PFDoA	ND	2.0	1.8		1	90	10	50-150	30	03/04/2021 1347
PFHpA	ND	2.0	1.6		1	83	22	50-150	30	03/04/2021 1347
PFHxDA	ND	2.0	1.9		1	95	16	50-150	30	03/04/2021 1347
PFHxA	ND	2.0	1.7		1	86	14	50-150	30	03/04/2021 1347
PFNA	ND	2.0	1.6		1	82	23	50-150	30	03/04/2021 1347
PFODA	ND	2.0	1.8		1	93	16	50-150	30	03/04/2021 1347
PFOA	ND	2.0	1.7		1	85	18	50-150	30	03/04/2021 1347
PFPeA	ND	2.0	1.7		1	87	22	50-150	30	03/04/2021 1347
PFTeDA	ND	2.0	1.7		1	87	18	50-150	30	03/04/2021 1347
PFTrDA	ND	2.0	1.5		1	75	18	50-150	30	03/04/2021 1347
PFUdA	ND	2.0	1.5		1	76	30	50-150	30	03/04/2021 1347
PFOS	ND	1.8	1.6		1	86	23	50-150	30	03/04/2021 1347

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		93	25-150
13C2_6:2FTS		89	25-150
13C2_8:2FTS		83	25-150
13C2_PFDoA		95	25-150
13C2_PFHxDA		92	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: WB25014-001MD
Batch: 84505
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/03/2021 1217

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		97	25-150
13C3_PFBS		94	25-150
13C3_PFHxS		94	25-150
13C3-HFPO-DA		87	25-150
13C4_PFBA		94	25-150
13C4_PFHpA		92	25-150
13C5_PFHxA		95	25-150
13C5_PFPeA		96	25-150
13C6_PFDA		90	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		88	25-150
13C8_PFOS		89	25-150
13C8_PFOSA		94	10-150
13C9_PFNA		93	25-150
d-EtFOSA		96	10-150
d5-EtFOSAA		86	25-150
d9-EtFOSE		94	10-150
d-MeFOSA		92	10-150
d3-MeFOSAA		89	25-150
d7-MeFOSE		91	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: WQ84886-001
Batch: 84886
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/07/2021 1800

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
6:2 FTS	ND		1	8.0	2.0	ng/L	03/08/2021 1446

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		96	25-150
13C2_6:2FTS		109	25-150
13C2_8:2FTS		112	25-150
13C2_PFDoA		109	25-150
13C2_PFHxDA		100	25-150
13C2_PFTeDA		108	25-150
13C3_PFBS		105	25-150
13C3_PFHxS		106	25-150
13C3-HFPO-DA		115	25-150
13C4_PFBA		113	25-150
13C4_PFHpA		112	25-150
13C5_PFHxA		115	25-150
13C5_PFPeA		112	25-150
13C6_PFDA		104	25-150
13C7_PFUdA		107	25-150
13C8_PFOA		116	25-150
13C8_PFOS		99	25-150
13C8_PFOSA		100	10-150
13C9_PFNA		112	25-150
d-EtFOSA		77	10-150
d5-EtFOSAA		108	25-150
d9-EtFOSE		100	10-150
d-MeFOSA		87	10-150
d3-MeFOSAA		102	25-150
d7-MeFOSE		115	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ84886-002
Batch: 84886
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/07/2021 1800

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
6:2 FTS	15	15		1	101	50-150	03/08/2021 1457

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		92	25-150
13C2_6:2FTS		108	25-150
13C2_8:2FTS		102	25-150
13C2_PFDoA		104	25-150
13C2_PFHxDA		102	25-150
13C2_PFTeDA		107	25-150
13C3_PFBS		107	25-150
13C3_PFHxS		101	25-150
13C3-HFPO-DA		116	25-150
13C4_PFBA		110	25-150
13C4_PFHpA		108	25-150
13C5_PFHxA		110	25-150
13C5_PFPeA		111	25-150
13C6_PFDA		105	25-150
13C7_PFUdA		105	25-150
13C8_PFOA		112	25-150
13C8_PFOS		103	25-150
13C8_PFOSA		99	10-150
13C9_PFNA		109	25-150
d-EtFOSA		81	10-150
d5-EtFOSAA		112	25-150
d9-EtFOSE		92	10-150
d-MeFOSA		83	10-150
d3-MeFOSAA		107	25-150
d7-MeFOSE		103	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: WQ85074-001
Batch: 85074
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/09/2021 0000

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
8:2 FTS	ND		1	8.0	2.0	ng/L	03/13/2021 0530
PFOS	ND		1	4.0	1.0	ng/L	03/13/2021 0530

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		99	25-150
13C2_6:2FTS		116	25-150
13C2_8:2FTS		117	25-150
13C2_PFDoA		104	25-150
13C2_PFHxDA		77	25-150
13C2_PFTeDA		92	25-150
13C3_PFBS		102	25-150
13C3_PFHxS		108	25-150
13C3-HFPO-DA		98	25-150
13C4_PFBA		108	25-150
13C4_PFHpA		100	25-150
13C5_PFHxA		107	25-150
13C5_PFPeA		103	25-150
13C6_PFDA		106	25-150
13C7_PFUdA		93	25-150
13C8_PFOA		108	25-150
13C8_PFOS		105	25-150
13C8_PFOSA		110	10-150
13C9_PFNA		103	25-150
d-EtFOSA		43	10-150
d5-EtFOSAA		89	25-150
d9-EtFOSE		79	10-150
d-MeFOSA		55	10-150
d3-MeFOSAA		85	25-150
d7-MeFOSE		90	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ85074-002
Batch: 85074
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/09/2021 0000

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
8:2 FTS	15	16		1	106	50-150	03/13/2021 0540
PFOS	15	14		1	94	50-150	03/13/2021 0540

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		90	25-150
13C2_6:2FTS		92	25-150
13C2_8:2FTS		94	25-150
13C2_PFDoA		87	25-150
13C2_PFHxDA		82	25-150
13C2_PFTeDA		85	25-150
13C3_PFBS		96	25-150
13C3_PFHxS		94	25-150
13C3-HFPO-DA		98	25-150
13C4_PFBA		101	25-150
13C4_PFHpA		89	25-150
13C5_PFHxA		102	25-150
13C5_PFPeA		95	25-150
13C6_PFDA		83	25-150
13C7_PFUdA		84	25-150
13C8_PFOA		99	25-150
13C8_PFOS		85	25-150
13C8_PFOSA		97	10-150
13C9_PFNA		88	25-150
d-EtFOSA		45	10-150
d5-EtFOSAA		83	25-150
d9-EtFOSE		76	10-150
d-MeFOSA		62	10-150
d3-MeFOSAA		75	25-150
d7-MeFOSE		78	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

Internal Transfer Chain of Custody

Pace Analytical
www.pacelabs.com

[x] Samples Pre-Logged Into eCOC.

State Of Origin: WI
Cert. Needed: [ ] Yes [x] No
Owner Received Date: 2/18/2021
Results Requested By: 3/4/2021

Workorder: 40222277 **Workorder Name:** B3001170.00-003 MEAD ST.

Report To:
Tod Noltemeyer
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Phone (920)469-2436

Subcontract To:
Pace Analytical West Columbia
106 Vantage Point Drive
West Columbia, SC 29172
Phone (803)791-9700

WB25014
KLG2

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: PFAS - Wisconsin 36 Compound List+	Requested Analysis: PFAS - Wisconsin 36 Compound List	LAB USE ONLY
1	B-1 4-5	PS	2/18/2021 10:43	40222277001	Solid	1	X	X	
2	B-1 8-10	PS	2/18/2021 10:47	40222277002	Solid	1	X	X	
3	B-2 4-5	PS	2/18/2021 10:05	40222277003	Solid	1	X	X	
4	B-2 8-10	PS	2/18/2021 10:10	40222277004	Solid	1	X	X	
5	B-4 4-5	PS	2/18/2021 11:35	40222277005	Solid	1	X	X	
6	B-4 8-10	PS	2/18/2021 11:39	40222277006	Solid	1	X	X	
7	B-5 4-5	PS	2/18/2021 11:08	40222277007	Solid	1	X	X	
8	B-5 8-10	PS	2/18/2021 11:14	40222277008	Solid	1	X	X	
9	EB-1	PS	2/18/2021 12:51	40222277009	Water	2		X	
10	FB-2	PS	2/18/2021 12:55	40222277010	Water	2		X	
11	FB-1	PS	2/18/2021 12:57	40222277011	Water	2		X	
12	EB-3	PS	2/18/2021 13:20	40222277012	Water	2		X	

Comments:

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	2/19/21 1600		
2				
3	1125	2/19/21 15:12	[illegible]	2/19/21 15:12

Cooler Temperature on Receipt 5.2 °C **Custody Seal** (Y) or N **Received on Ice** (Y) or N **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

40222877

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Westwood
Branch/Location:	Appleton WI
Project Contact:	Dan O'connell
Phone:	920 735-6900
Project Number:	B300170.00-003
Project Name:	Meade St
Project State:	WI
Sampled By (Print):	Quin Lenz
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Dan O'connell
Mail To Company:	Westwood
Mail To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Contact:	SAME
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	920 735-6900

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO)
PRESERVATION (CODE)*

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: PFAS	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N			
					A			
001	B-1 4-5	2/18/21	10:43	S	X			
002	B-1 8-10		10:47		X			
003	B-2 4-5		10:05		X			
004	B-2 8-10		10:10		X			
005	B-4 4-5		11:35		X			
006	B-4 8-10		11:39		X			
007	B-5 4-5		11:08		X			
008	B-5 8-10		11:14		X			
009	B-6 4-5		12:01		X			
010	B-6 8-16		12:04		X			
011	B-7 4-5		12:25		X			
012	B-7 8-10		12:35		X			
013	EB-1	2/18/21	12:51	W	X	Lab distilled RGW used		

009 2/18/21

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	2/18/21 15:21		2/18/21 1521
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.: 40222877

Receipt Temp = ROI °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 08/14/06

ORIGINAL

C019e(27Jun2006)

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

40222277

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Westwood
Branch/Location:	Appleton WI
Project Contact:	Dan O'Connell
Phone:	920 735-6900
Project Number:	R3001170.00-003
Project Name:	Meade St
Project State:	WI
Sampled By (Print):	Quin Lentz
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Dan O'Connell
Mail To Company:	Westwood
Mail To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Contact:	Dan O'Connell
Invoice To Company:	Westwood
Invoice To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Phone:	920 735-6900

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: 537.1	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
014	EB-2	2/18/21	12:55	W	N	A	X	Lab Distilled H2O used		
015	FB-1	"	12:57	"	"	"	X	"		
016	EB-3	"	13:20	"	"	"	X	"		

010
011
012

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	2/18/21 15:21		2/18/21 1521
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
40222277

Receipt Temp = 8.1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 08/14/08

C019a(27Jun2006)

ORIGINAL

PACE ANALYTICAL SERVICES, LLC

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Westwood

Project # 40222277

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *						
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																2.5 / 5 / 10
002										1																						2.5 / 5 / 10
003																																2.5 / 5 / 10
004										1																						2.5 / 5 / 10
005																																2.5 / 5 / 10
006										1																						2.5 / 5 / 10
007										1																						2.5 / 5 / 10
008										1																						2.5 / 5 / 10
009										2																						2.5 / 5 / 10
010										2																						2.5 / 5 / 10
011										2																						2.5 / 5 / 10
012										2																						2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☒N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	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)

Project #: **WO# : 40222277**

40222277

Client Name: Westwood

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☒ Client ☐ Pace Other: ____

Tracking #: —

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: ROI /Corr:

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.

Person examining contents: Date: 2/18/21 /Initials: [initials]

Labeled By Initials: MA

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
- VOA Samples frozen upon receipt	☐ Yes ☐ No	Date/Time:
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume: For Analysis: ☒ Yes (☒ No) MS/MSD:	☐ Yes ☒ No ☐ N/A	8. lab did not receive. (B-6 4-5) (B-6 8-10) (B-7 4-5) (B-7 8-10) 2/18/21
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☒ No ☐ N/A	
-Pace IR Containers Used:	☐ Yes ☐ No ☒ N/A	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W | S	☒ Yes ☐ No ☐ N/A	12.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ 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: ____

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

Page 2 of 2

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Pace Cooler Inspected by/date: KSC / 02/25/2021 Lot #: WB25014

Means of receipt: ☐ Pace ☐ Client ☑ UPS ☐ FedEx ☐ Other: _____

☑ Yes	☐ No		1. Were custody seals present on the cooler?
☑ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 20-875

5.2 / 5.2 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # _____

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JRG2 Date: 02/25/2021

Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 04, 2021

Daniel O'Connell
Westwood
ONE SYSTEMS DRIVE
Appleton, WI 54914

RE: Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Dear Daniel O'Connell:

Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Green Bay
- Pace Analytical Services - Greensburg

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

Sincerely,

Tod Noltemeyer

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

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Pace Analytical Services National

Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40222281001	**B-1 4-5**	Solid	02/18/21 10:43	02/18/21 15:21
40222281002	**B-1 8-10**	Solid	02/18/21 10:47	02/18/21 15:21
40222281003	**B-2 4-5**	Solid	02/18/21 10:05	02/18/21 15:21
40222281004	**B-2 8-10**	Solid	02/18/21 10:10	02/18/21 15:21
40222281005	**B-4 4-5**	Solid	02/18/21 10:35	02/18/21 15:21
40222281006	**B-4 8-10**	Solid	02/18/21 10:39	02/18/21 15:21
40222281007	**B-5 4-5**	Solid	02/18/21 11:08	02/18/21 15:21
40222281008	**B-5 8-10**	Solid	02/18/21 11:14	02/18/21 15:21
40222281009	**B-6 4-5**	Solid	02/18/21 12:01	02/18/21 15:21
40222281010	**B-6 8-10**	Solid	02/18/21 12:04	02/18/21 15:21
40222281011	**B-7 4-5**	Solid	02/18/21 12:25	02/18/21 15:21
40222281012	**B-7 8-10**	Solid	02/18/21 12:35	02/18/21 15:21
40222281013	**PROTOCOL B**	Solid	02/18/21 13:00	02/18/21 15:21

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SAMPLE ANALYTE COUNT

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40222281001	**B-1 4-5**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281002	**B-1 8-10**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281003	**B-2 4-5**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281004	**B-2 8-10**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281005	**B-4 4-5**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281006	**B-4 8-10**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281007	**B-5 4-5**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281008	**B-5 8-10**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G

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SAMPLE ANALYTE COUNT

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281009	**B-6 4-5**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281010	**B-6 8-10**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281011	**B-7 4-5**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	BJD	1	PAN
40222281012	**B-7 8-10**	EPA 6010	TXW	1	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		SM 2540G	KDW	1	PAN
		EPA 7196A	KPS	1	PAN
40222281013	**PROTOCOL B**	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	10	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270E	JJB	17	PASI-G
		EPA 8260	LAP	13	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
		EPA 1010	HNT	1	PASI-G
		EPA 9045	ALY	1	PASI-G
		EPA 9076	NAF	1	PASI-A
		EPA 9095	EXM	1	PASI-G
		SM 2710F	HNT	1	PASI-G
		EPA 9014	PAS	1	PASI-PA
		SM 4500S2F-2011	PAS	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-G = Pace Analytical Services - Green Bay
PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-1 4-5 **Lab ID: 40222281001** Collected: 02/18/21 10:43 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**17.1**	mg/kg	1.1	0.31	1	02/23/21 05:23	02/24/21 15:12	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<15.2**	ug/kg	63.4	15.2	1	02/23/21 08:00	02/23/21 15:01	630-20-6	
1,1,1-Trichloroethane	**<16.2**	ug/kg	63.4	16.2	1	02/23/21 08:00	02/23/21 15:01	71-55-6	
1,1,2,2-Tetrachloroethane	**<23.0**	ug/kg	63.4	23.0	1	02/23/21 08:00	02/23/21 15:01	79-34-5	
1,1,2-Trichloroethane	**<23.1**	ug/kg	63.4	23.1	1	02/23/21 08:00	02/23/21 15:01	79-00-5	
1,1-Dichloroethane	**<16.2**	ug/kg	63.4	16.2	1	02/23/21 08:00	02/23/21 15:01	75-34-3	
1,1-Dichloroethene	**<21.1**	ug/kg	63.4	21.1	1	02/23/21 08:00	02/23/21 15:01	75-35-4	
1,1-Dichloropropene	**<20.6**	ug/kg	63.4	20.6	1	02/23/21 08:00	02/23/21 15:01	563-58-6	
1,2,3-Trichlorobenzene	**<70.7**	ug/kg	317	70.7	1	02/23/21 08:00	02/23/21 15:01	87-61-6	
1,2,3-Trichloropropane	**<30.8**	ug/kg	63.4	30.8	1	02/23/21 08:00	02/23/21 15:01	96-18-4	
1,2,4-Trichlorobenzene	**<52.3**	ug/kg	317	52.3	1	02/23/21 08:00	02/24/21 13:55	120-82-1	
1,2,4-Trimethylbenzene	**<18.9**	ug/kg	63.4	18.9	1	02/23/21 08:00	02/23/21 15:01	95-63-6	
1,2-Dibromo-3-chloropropane	**<49.2**	ug/kg	317	49.2	1	02/23/21 08:00	02/23/21 15:01	96-12-8	
1,2-Dibromoethane (EDB)	**<17.4**	ug/kg	63.4	17.4	1	02/23/21 08:00	02/23/21 15:01	106-93-4	
1,2-Dichlorobenzene	**<19.7**	ug/kg	63.4	19.7	1	02/23/21 08:00	02/23/21 15:01	95-50-1	
1,2-Dichloroethane	**<14.6**	ug/kg	63.4	14.6	1	02/23/21 08:00	02/23/21 15:01	107-06-2	
1,2-Dichloropropane	**<15.1**	ug/kg	63.4	15.1	1	02/23/21 08:00	02/23/21 15:01	78-87-5	
1,3,5-Trimethylbenzene	**<20.4**	ug/kg	63.4	20.4	1	02/23/21 08:00	02/23/21 15:01	108-67-8	
1,3-Dichlorobenzene	**<17.4**	ug/kg	63.4	17.4	1	02/23/21 08:00	02/23/21 15:01	541-73-1	
1,3-Dichloropropane	**<13.8**	ug/kg	63.4	13.8	1	02/23/21 08:00	02/23/21 15:01	142-28-9	
1,4-Dichlorobenzene	**<17.4**	ug/kg	63.4	17.4	1	02/23/21 08:00	02/23/21 15:01	106-46-7	
2,2-Dichloropropane	**<17.1**	ug/kg	63.4	17.1	1	02/23/21 08:00	02/23/21 15:01	594-20-7	
2-Chlorotoluene	**<20.6**	ug/kg	63.4	20.6	1	02/23/21 08:00	02/23/21 15:01	95-49-8	
4-Chlorotoluene	**<24.1**	ug/kg	63.4	24.1	1	02/23/21 08:00	02/23/21 15:01	106-43-4	
Benzene	**<15.1**	ug/kg	25.4	15.1	1	02/23/21 08:00	02/23/21 15:01	71-43-2	
Bromobenzene	**<24.7**	ug/kg	63.4	24.7	1	02/23/21 08:00	02/23/21 15:01	108-86-1	
Bromochloromethane	**<17.4**	ug/kg	63.4	17.4	1	02/23/21 08:00	02/23/21 15:01	74-97-5	
Bromodichloromethane	**<15.1**	ug/kg	63.4	15.1	1	02/23/21 08:00	02/23/21 15:01	75-27-4	
Bromoform	**<279**	ug/kg	317	279	1	02/23/21 08:00	02/23/21 15:01	75-25-2	
Bromomethane	**<88.9**	ug/kg	317	88.9	1	02/23/21 08:00	02/23/21 15:01	74-83-9	
Carbon tetrachloride	**<14.0**	ug/kg	63.4	14.0	1	02/23/21 08:00	02/23/21 15:01	56-23-5	
Chlorobenzene	**<7.6**	ug/kg	63.4	7.6	1	02/23/21 08:00	02/23/21 15:01	108-90-7	
Chloroethane	**<26.8**	ug/kg	317	26.8	1	02/23/21 08:00	02/23/21 15:01	75-00-3	
Chloroform	**<45.4**	ug/kg	317	45.4	1	02/23/21 08:00	02/23/21 15:01	67-66-3	
Chloromethane	**<24.1**	ug/kg	63.4	24.1	1	02/23/21 08:00	02/23/21 15:01	74-87-3	
Dibromochloromethane	**<217**	ug/kg	317	217	1	02/23/21 08:00	02/23/21 15:01	124-48-1	
Dibromomethane	**<18.8**	ug/kg	63.4	18.8	1	02/23/21 08:00	02/23/21 15:01	74-95-3	
Dichlorodifluoromethane	**<27.3**	ug/kg	63.4	27.3	1	02/23/21 08:00	02/23/21 15:01	75-71-8	
Diisopropyl ether	**<15.7**	ug/kg	63.4	15.7	1	02/23/21 08:00	02/23/21 15:01	108-20-3	
Ethylbenzene	**<15.1**	ug/kg	63.4	15.1	1	02/23/21 08:00	02/23/21 15:01	100-41-4	
Hexachloro-1,3-butadiene	**<126**	ug/kg	317	126	1	02/23/21 08:00	02/23/21 15:01	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-1 4-5 **Lab ID: 40222281001** Collected: 02/18/21 10:43 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<17.1**	ug/kg	63.4	17.1	1	02/23/21 08:00	02/23/21 15:01	98-82-8	
Methyl-tert-butyl ether	**<18.6**	ug/kg	63.4	18.6	1	02/23/21 08:00	02/23/21 15:01	1634-04-4	
Methylene Chloride	**<17.6**	ug/kg	63.4	17.6	1	02/23/21 08:00	02/23/21 15:01	75-09-2	
Naphthalene	**<19.8**	ug/kg	317	19.8	1	02/23/21 08:00	02/23/21 15:01	91-20-3	
Styrene	**<16.2**	ug/kg	63.4	16.2	1	02/23/21 08:00	02/23/21 15:01	100-42-5	
Tetrachloroethene	**<24.6**	ug/kg	63.4	24.6	1	02/23/21 08:00	02/23/21 15:01	127-18-4	
Toluene	**<16.0**	ug/kg	63.4	16.0	1	02/23/21 08:00	02/23/21 15:01	108-88-3	
Trichloroethene	**<23.7**	ug/kg	63.4	23.7	1	02/23/21 08:00	02/23/21 15:01	79-01-6	
Trichlorofluoromethane	**<18.4**	ug/kg	63.4	18.4	1	02/23/21 08:00	02/23/21 15:01	75-69-4	
Vinyl chloride	**<12.8**	ug/kg	63.4	12.8	1	02/23/21 08:00	02/23/21 15:01	75-01-4	
cis-1,2-Dichloroethene	**<13.6**	ug/kg	63.4	13.6	1	02/23/21 08:00	02/23/21 15:01	156-59-2	
cis-1,3-Dichloropropene	**<41.9**	ug/kg	317	41.9	1	02/23/21 08:00	02/23/21 15:01	10061-01-5	
m&p-Xylene	**<26.8**	ug/kg	127	26.8	1	02/23/21 08:00	02/23/21 15:01	179601-23-1	
n-Butylbenzene	**<29.1**	ug/kg	63.4	29.1	1	02/23/21 08:00	02/23/21 15:01	104-51-8	
n-Propylbenzene	**<15.2**	ug/kg	63.4	15.2	1	02/23/21 08:00	02/23/21 15:01	103-65-1	
o-Xylene	**<19.0**	ug/kg	63.4	19.0	1	02/23/21 08:00	02/23/21 15:01	95-47-6	
p-Isopropyltoluene	**<19.3**	ug/kg	63.4	19.3	1	02/23/21 08:00	02/23/21 15:01	99-87-6	
sec-Butylbenzene	**<15.5**	ug/kg	63.4	15.5	1	02/23/21 08:00	02/23/21 15:01	135-98-8	
tert-Butylbenzene	**<19.9**	ug/kg	63.4	19.9	1	02/23/21 08:00	02/23/21 15:01	98-06-6	
trans-1,2-Dichloroethene	**<13.7**	ug/kg	63.4	13.7	1	02/23/21 08:00	02/23/21 15:01	156-60-5	
trans-1,3-Dichloropropene	**<181**	ug/kg	317	181	1	02/23/21 08:00	02/23/21 15:01	10061-02-6	
Surrogates									
Toluene-d8 (S)	108	%	56-140		1	02/23/21 08:00	02/23/21 15:01	2037-26-5	
4-Bromofluorobenzene (S)	109	%	52-137		1	02/23/21 08:00	02/23/21 15:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	121	%	50-150		1	02/23/21 08:00	02/23/21 15:01	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**11.8**	%	0.10	0.10	1		02/19/21 12:19		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**90.2**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.709**	mg/kg	2.36	0.709	1	02/25/21 11:08	02/25/21 22:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-1 8-10 **Lab ID: 40222281002** Collected: 02/18/21 10:47 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**24.1**	mg/kg	1.1	0.30	1	02/23/21 05:23	02/24/21 15:15	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<16.1**	ug/kg	67.0	16.1	1	02/19/21 08:45	02/19/21 18:46	630-20-6	
1,1,1-Trichloroethane	**<17.1**	ug/kg	67.0	17.1	1	02/19/21 08:45	02/19/21 18:46	71-55-6	
1,1,2,2-Tetrachloroethane	**<24.2**	ug/kg	67.0	24.2	1	02/19/21 08:45	02/19/21 18:46	79-34-5	
1,1,2-Trichloroethane	**<24.4**	ug/kg	67.0	24.4	1	02/19/21 08:45	02/19/21 18:46	79-00-5	
1,1-Dichloroethane	**<17.1**	ug/kg	67.0	17.1	1	02/19/21 08:45	02/19/21 18:46	75-34-3	
1,1-Dichloroethene	**<22.2**	ug/kg	67.0	22.2	1	02/19/21 08:45	02/19/21 18:46	75-35-4	
1,1-Dichloropropene	**<21.7**	ug/kg	67.0	21.7	1	02/19/21 08:45	02/19/21 18:46	563-58-6	
1,2,3-Trichlorobenzene	**<74.6**	ug/kg	335	74.6	1	02/19/21 08:45	02/19/21 18:46	87-61-6	
1,2,3-Trichloropropane	**<32.5**	ug/kg	67.0	32.5	1	02/19/21 08:45	02/19/21 18:46	96-18-4	
1,2,4-Trichlorobenzene	**<55.2**	ug/kg	335	55.2	1	02/19/21 08:45	02/19/21 18:46	120-82-1	
1,2,4-Trimethylbenzene	**<20.0**	ug/kg	67.0	20.0	1	02/19/21 08:45	02/19/21 18:46	95-63-6	
1,2-Dibromo-3-chloropropane	**<52.0**	ug/kg	335	52.0	1	02/19/21 08:45	02/19/21 18:46	96-12-8	
1,2-Dibromoethane (EDB)	**<18.3**	ug/kg	67.0	18.3	1	02/19/21 08:45	02/19/21 18:46	106-93-4	
1,2-Dichlorobenzene	**<20.8**	ug/kg	67.0	20.8	1	02/19/21 08:45	02/19/21 18:46	95-50-1	
1,2-Dichloroethane	**<15.4**	ug/kg	67.0	15.4	1	02/19/21 08:45	02/19/21 18:46	107-06-2	
1,2-Dichloropropane	**<15.9**	ug/kg	67.0	15.9	1	02/19/21 08:45	02/19/21 18:46	78-87-5	
1,3,5-Trimethylbenzene	**<21.6**	ug/kg	67.0	21.6	1	02/19/21 08:45	02/19/21 18:46	108-67-8	
1,3-Dichlorobenzene	**<18.3**	ug/kg	67.0	18.3	1	02/19/21 08:45	02/19/21 18:46	541-73-1	
1,3-Dichloropropane	**<14.6**	ug/kg	67.0	14.6	1	02/19/21 08:45	02/19/21 18:46	142-28-9	
1,4-Dichlorobenzene	**<18.3**	ug/kg	67.0	18.3	1	02/19/21 08:45	02/19/21 18:46	106-46-7	
2,2-Dichloropropane	**<18.1**	ug/kg	67.0	18.1	1	02/19/21 08:45	02/19/21 18:46	594-20-7	
2-Chlorotoluene	**<21.7**	ug/kg	67.0	21.7	1	02/19/21 08:45	02/19/21 18:46	95-49-8	
4-Chlorotoluene	**<25.4**	ug/kg	67.0	25.4	1	02/19/21 08:45	02/19/21 18:46	106-43-4	
Benzene	**<15.9**	ug/kg	26.8	15.9	1	02/19/21 08:45	02/19/21 18:46	71-43-2	
Bromobenzene	**<26.1**	ug/kg	67.0	26.1	1	02/19/21 08:45	02/19/21 18:46	108-86-1	
Bromochloromethane	**<18.3**	ug/kg	67.0	18.3	1	02/19/21 08:45	02/19/21 18:46	74-97-5	
Bromodichloromethane	**<15.9**	ug/kg	67.0	15.9	1	02/19/21 08:45	02/19/21 18:46	75-27-4	
Bromoform	**<295**	ug/kg	335	295	1	02/19/21 08:45	02/19/21 18:46	75-25-2	
Bromomethane	**<93.9**	ug/kg	335	93.9	1	02/19/21 08:45	02/19/21 18:46	74-83-9	
Carbon tetrachloride	**<14.7**	ug/kg	67.0	14.7	1	02/19/21 08:45	02/19/21 18:46	56-23-5	
Chlorobenzene	**<8.0**	ug/kg	67.0	8.0	1	02/19/21 08:45	02/19/21 18:46	108-90-7	
Chloroethane	**<28.3**	ug/kg	335	28.3	1	02/19/21 08:45	02/19/21 18:46	75-00-3	
Chloroform	**<47.9**	ug/kg	335	47.9	1	02/19/21 08:45	02/19/21 18:46	67-66-3	
Chloromethane	**<25.4**	ug/kg	67.0	25.4	1	02/19/21 08:45	02/19/21 18:46	74-87-3	
Dibromochloromethane	**<229**	ug/kg	335	229	1	02/19/21 08:45	02/19/21 18:46	124-48-1	
Dibromomethane	**<19.8**	ug/kg	67.0	19.8	1	02/19/21 08:45	02/19/21 18:46	74-95-3	
Dichlorodifluoromethane	**<28.8**	ug/kg	67.0	28.8	1	02/19/21 08:45	02/19/21 18:46	75-71-8	
Diisopropyl ether	**<16.6**	ug/kg	67.0	16.6	1	02/19/21 08:45	02/19/21 18:46	108-20-3	
Ethylbenzene	**<15.9**	ug/kg	67.0	15.9	1	02/19/21 08:45	02/19/21 18:46	100-41-4	
Hexachloro-1,3-butadiene	**<133**	ug/kg	335	133	1	02/19/21 08:45	02/19/21 18:46	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-1 8-10 **Lab ID: 40222281002** Collected: 02/18/21 10:47 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<18.1**	ug/kg	67.0	18.1	1	02/19/21 08:45	02/19/21 18:46	98-82-8	
Methyl-tert-butyl ether	**<19.7**	ug/kg	67.0	19.7	1	02/19/21 08:45	02/19/21 18:46	1634-04-4	
Methylene Chloride	**<18.6**	ug/kg	67.0	18.6	1	02/19/21 08:45	02/19/21 18:46	75-09-2	
Naphthalene	**<20.9**	ug/kg	335	20.9	1	02/19/21 08:45	02/19/21 18:46	91-20-3	
Styrene	**<17.1**	ug/kg	67.0	17.1	1	02/19/21 08:45	02/19/21 18:46	100-42-5	
Tetrachloroethene	**<26.0**	ug/kg	67.0	26.0	1	02/19/21 08:45	02/19/21 18:46	127-18-4	
Toluene	**<16.9**	ug/kg	67.0	16.9	1	02/19/21 08:45	02/19/21 18:46	108-88-3	
Trichloroethene	**<25.0**	ug/kg	67.0	25.0	1	02/19/21 08:45	02/19/21 18:46	79-01-6	
Trichlorofluoromethane	**<19.4**	ug/kg	67.0	19.4	1	02/19/21 08:45	02/19/21 18:46	75-69-4	
Vinyl chloride	**<13.5**	ug/kg	67.0	13.5	1	02/19/21 08:45	02/19/21 18:46	75-01-4	
cis-1,2-Dichloroethene	**<14.3**	ug/kg	67.0	14.3	1	02/19/21 08:45	02/19/21 18:46	156-59-2	
cis-1,3-Dichloropropene	**<44.2**	ug/kg	335	44.2	1	02/19/21 08:45	02/19/21 18:46	10061-01-5	
m&p-Xylene	**<28.3**	ug/kg	134	28.3	1	02/19/21 08:45	02/19/21 18:46	179601-23-1	
n-Butylbenzene	**<30.7**	ug/kg	67.0	30.7	1	02/19/21 08:45	02/19/21 18:46	104-51-8	
n-Propylbenzene	**<16.1**	ug/kg	67.0	16.1	1	02/19/21 08:45	02/19/21 18:46	103-65-1	
o-Xylene	**<20.1**	ug/kg	67.0	20.1	1	02/19/21 08:45	02/19/21 18:46	95-47-6	
p-Isopropyltoluene	**<20.4**	ug/kg	67.0	20.4	1	02/19/21 08:45	02/19/21 18:46	99-87-6	
sec-Butylbenzene	**<16.3**	ug/kg	67.0	16.3	1	02/19/21 08:45	02/19/21 18:46	135-98-8	
tert-Butylbenzene	**<21.0**	ug/kg	67.0	21.0	1	02/19/21 08:45	02/19/21 18:46	98-06-6	
trans-1,2-Dichloroethene	**<14.5**	ug/kg	67.0	14.5	1	02/19/21 08:45	02/19/21 18:46	156-60-5	
trans-1,3-Dichloropropene	**<191**	ug/kg	335	191	1	02/19/21 08:45	02/19/21 18:46	10061-02-6	
Surrogates									
Toluene-d8 (S)	121	%	56-140		1	02/19/21 08:45	02/19/21 18:46	2037-26-5	
4-Bromofluorobenzene (S)	113	%	52-137		1	02/19/21 08:45	02/19/21 18:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	122	%	50-150		1	02/19/21 08:45	02/19/21 18:46	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**14.5**	%	0.10	0.10	1		02/19/21 12:19		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**86.0**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.745**	mg/kg	2.48	0.745	1	02/25/21 11:08	02/25/21 22:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-2 4-5 **Lab ID: 40222281003** Collected: 02/18/21 10:05 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**23.5**	mg/kg	1.1	0.30	1	02/23/21 05:23	02/24/21 15:17	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<15.7**	ug/kg	65.2	15.7	1	02/19/21 08:45	02/19/21 19:05	630-20-6	
1,1,1-Trichloroethane	**<16.7**	ug/kg	65.2	16.7	1	02/19/21 08:45	02/19/21 19:05	71-55-6	
1,1,2,2-Tetrachloroethane	**<23.6**	ug/kg	65.2	23.6	1	02/19/21 08:45	02/19/21 19:05	79-34-5	
1,1,2-Trichloroethane	**<23.7**	ug/kg	65.2	23.7	1	02/19/21 08:45	02/19/21 19:05	79-00-5	
1,1-Dichloroethane	**<16.7**	ug/kg	65.2	16.7	1	02/19/21 08:45	02/19/21 19:05	75-34-3	
1,1-Dichloroethene	**<21.7**	ug/kg	65.2	21.7	1	02/19/21 08:45	02/19/21 19:05	75-35-4	
1,1-Dichloropropene	**<21.1**	ug/kg	65.2	21.1	1	02/19/21 08:45	02/19/21 19:05	563-58-6	
1,2,3-Trichlorobenzene	**<72.7**	ug/kg	326	72.7	1	02/19/21 08:45	02/19/21 19:05	87-61-6	
1,2,3-Trichloropropane	**<31.7**	ug/kg	65.2	31.7	1	02/19/21 08:45	02/19/21 19:05	96-18-4	
1,2,4-Trichlorobenzene	**<53.7**	ug/kg	326	53.7	1	02/19/21 08:45	02/19/21 19:05	120-82-1	
1,2,4-Trimethylbenzene	**<19.4**	ug/kg	65.2	19.4	1	02/19/21 08:45	02/19/21 19:05	95-63-6	
1,2-Dibromo-3-chloropropane	**<50.6**	ug/kg	326	50.6	1	02/19/21 08:45	02/19/21 19:05	96-12-8	
1,2-Dibromoethane (EDB)	**<17.9**	ug/kg	65.2	17.9	1	02/19/21 08:45	02/19/21 19:05	106-93-4	
1,2-Dichlorobenzene	**<20.2**	ug/kg	65.2	20.2	1	02/19/21 08:45	02/19/21 19:05	95-50-1	
1,2-Dichloroethane	**<15.0**	ug/kg	65.2	15.0	1	02/19/21 08:45	02/19/21 19:05	107-06-2	
1,2-Dichloropropane	**<15.5**	ug/kg	65.2	15.5	1	02/19/21 08:45	02/19/21 19:05	78-87-5	
1,3,5-Trimethylbenzene	**<21.0**	ug/kg	65.2	21.0	1	02/19/21 08:45	02/19/21 19:05	108-67-8	
1,3-Dichlorobenzene	**<17.9**	ug/kg	65.2	17.9	1	02/19/21 08:45	02/19/21 19:05	541-73-1	
1,3-Dichloropropane	**<14.2**	ug/kg	65.2	14.2	1	02/19/21 08:45	02/19/21 19:05	142-28-9	
1,4-Dichlorobenzene	**<17.9**	ug/kg	65.2	17.9	1	02/19/21 08:45	02/19/21 19:05	106-46-7	
2,2-Dichloropropane	**<17.6**	ug/kg	65.2	17.6	1	02/19/21 08:45	02/19/21 19:05	594-20-7	
2-Chlorotoluene	**<21.1**	ug/kg	65.2	21.1	1	02/19/21 08:45	02/19/21 19:05	95-49-8	
4-Chlorotoluene	**<24.8**	ug/kg	65.2	24.8	1	02/19/21 08:45	02/19/21 19:05	106-43-4	
Benzene	**<15.5**	ug/kg	26.1	15.5	1	02/19/21 08:45	02/19/21 19:05	71-43-2	
Bromobenzene	**<25.4**	ug/kg	65.2	25.4	1	02/19/21 08:45	02/19/21 19:05	108-86-1	
Bromochloromethane	**<17.9**	ug/kg	65.2	17.9	1	02/19/21 08:45	02/19/21 19:05	74-97-5	
Bromodichloromethane	**<15.5**	ug/kg	65.2	15.5	1	02/19/21 08:45	02/19/21 19:05	75-27-4	
Bromoform	**<287**	ug/kg	326	287	1	02/19/21 08:45	02/19/21 19:05	75-25-2	
Bromomethane	**<91.5**	ug/kg	326	91.5	1	02/19/21 08:45	02/19/21 19:05	74-83-9	
Carbon tetrachloride	**<14.4**	ug/kg	65.2	14.4	1	02/19/21 08:45	02/19/21 19:05	56-23-5	
Chlorobenzene	**<7.8**	ug/kg	65.2	7.8	1	02/19/21 08:45	02/19/21 19:05	108-90-7	
Chloroethane	**<27.5**	ug/kg	326	27.5	1	02/19/21 08:45	02/19/21 19:05	75-00-3	
Chloroform	**<46.7**	ug/kg	326	46.7	1	02/19/21 08:45	02/19/21 19:05	67-66-3	
Chloromethane	**<24.8**	ug/kg	65.2	24.8	1	02/19/21 08:45	02/19/21 19:05	74-87-3	
Dibromochloromethane	**<223**	ug/kg	326	223	1	02/19/21 08:45	02/19/21 19:05	124-48-1	
Dibromomethane	**<19.3**	ug/kg	65.2	19.3	1	02/19/21 08:45	02/19/21 19:05	74-95-3	
Dichlorodifluoromethane	**<28.0**	ug/kg	65.2	28.0	1	02/19/21 08:45	02/19/21 19:05	75-71-8	
Diisopropyl ether	**<16.2**	ug/kg	65.2	16.2	1	02/19/21 08:45	02/19/21 19:05	108-20-3	
Ethylbenzene	**<15.5**	ug/kg	65.2	15.5	1	02/19/21 08:45	02/19/21 19:05	100-41-4	
Hexachloro-1,3-butadiene	**<130**	ug/kg	326	130	1	02/19/21 08:45	02/19/21 19:05	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-2 4-5 **Lab ID: 40222281003** Collected: 02/18/21 10:05 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<17.6**	ug/kg	65.2	17.6	1	02/19/21 08:45	02/19/21 19:05	98-82-8	
Methyl-tert-butyl ether	**<19.2**	ug/kg	65.2	19.2	1	02/19/21 08:45	02/19/21 19:05	1634-04-4	
Methylene Chloride	**<18.1**	ug/kg	65.2	18.1	1	02/19/21 08:45	02/19/21 19:05	75-09-2	
Naphthalene	**<20.4**	ug/kg	326	20.4	1	02/19/21 08:45	02/19/21 19:05	91-20-3	
Styrene	**<16.7**	ug/kg	65.2	16.7	1	02/19/21 08:45	02/19/21 19:05	100-42-5	
Tetrachloroethene	**<25.3**	ug/kg	65.2	25.3	1	02/19/21 08:45	02/19/21 19:05	127-18-4	
Toluene	**<16.4**	ug/kg	65.2	16.4	1	02/19/21 08:45	02/19/21 19:05	108-88-3	
Trichloroethene	**<24.4**	ug/kg	65.2	24.4	1	02/19/21 08:45	02/19/21 19:05	79-01-6	
Trichlorofluoromethane	**<18.9**	ug/kg	65.2	18.9	1	02/19/21 08:45	02/19/21 19:05	75-69-4	
Vinyl chloride	**<13.2**	ug/kg	65.2	13.2	1	02/19/21 08:45	02/19/21 19:05	75-01-4	
cis-1,2-Dichloroethene	**<14.0**	ug/kg	65.2	14.0	1	02/19/21 08:45	02/19/21 19:05	156-59-2	
cis-1,3-Dichloropropene	**<43.1**	ug/kg	326	43.1	1	02/19/21 08:45	02/19/21 19:05	10061-01-5	
m&p-Xylene	**<27.5**	ug/kg	130	27.5	1	02/19/21 08:45	02/19/21 19:05	179601-23-1	
n-Butylbenzene	**<29.9**	ug/kg	65.2	29.9	1	02/19/21 08:45	02/19/21 19:05	104-51-8	
n-Propylbenzene	**<15.7**	ug/kg	65.2	15.7	1	02/19/21 08:45	02/19/21 19:05	103-65-1	
o-Xylene	**<19.6**	ug/kg	65.2	19.6	1	02/19/21 08:45	02/19/21 19:05	95-47-6	
p-Isopropyltoluene	**<19.8**	ug/kg	65.2	19.8	1	02/19/21 08:45	02/19/21 19:05	99-87-6	
sec-Butylbenzene	**<15.9**	ug/kg	65.2	15.9	1	02/19/21 08:45	02/19/21 19:05	135-98-8	
tert-Butylbenzene	**<20.5**	ug/kg	65.2	20.5	1	02/19/21 08:45	02/19/21 19:05	98-06-6	
trans-1,2-Dichloroethene	**<14.1**	ug/kg	65.2	14.1	1	02/19/21 08:45	02/19/21 19:05	156-60-5	
trans-1,3-Dichloropropene	**<187**	ug/kg	326	187	1	02/19/21 08:45	02/19/21 19:05	10061-02-6	
Surrogates									
Toluene-d8 (S)	122	%	56-140		1	02/19/21 08:45	02/19/21 19:05	2037-26-5	
4-Bromofluorobenzene (S)	115	%	52-137		1	02/19/21 08:45	02/19/21 19:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	122	%	50-150		1	02/19/21 08:45	02/19/21 19:05	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.2**	%	0.10	0.10	1		02/19/21 12:19		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**86.1**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.743**	mg/kg	2.47	0.743	1	02/25/21 11:08	02/25/21 22:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-2 8-10 **Lab ID: 40222281004** Collected: 02/18/21 10:10 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**26.6**	mg/kg	1.1	0.30	1	02/23/21 05:23	02/24/21 15:20	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<15.8**	ug/kg	66.0	15.8	1	02/23/21 08:00	02/23/21 15:21	630-20-6	
1,1,1-Trichloroethane	**<16.9**	ug/kg	66.0	16.9	1	02/23/21 08:00	02/23/21 15:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<23.9**	ug/kg	66.0	23.9	1	02/23/21 08:00	02/23/21 15:21	79-34-5	
1,1,2-Trichloroethane	**<24.0**	ug/kg	66.0	24.0	1	02/23/21 08:00	02/23/21 15:21	79-00-5	
1,1-Dichloroethane	**<16.9**	ug/kg	66.0	16.9	1	02/23/21 08:00	02/23/21 15:21	75-34-3	
1,1-Dichloroethene	**<21.9**	ug/kg	66.0	21.9	1	02/23/21 08:00	02/23/21 15:21	75-35-4	R1
1,1-Dichloropropene	**<21.4**	ug/kg	66.0	21.4	1	02/23/21 08:00	02/23/21 15:21	563-58-6	
1,2,3-Trichlorobenzene	**<73.5**	ug/kg	330	73.5	1	02/23/21 08:00	02/23/21 15:21	87-61-6	
1,2,3-Trichloropropane	**<32.1**	ug/kg	66.0	32.1	1	02/23/21 08:00	02/23/21 15:21	96-18-4	
1,2,4-Trichlorobenzene	**<54.4**	ug/kg	330	54.4	1	02/23/21 08:00	02/23/21 15:21	120-82-1	
1,2,4-Trimethylbenzene	**<19.7**	ug/kg	66.0	19.7	1	02/23/21 08:00	02/23/21 15:21	95-63-6	
1,2-Dibromo-3-chloropropane	**<51.2**	ug/kg	330	51.2	1	02/23/21 08:00	02/23/21 15:21	96-12-8	
1,2-Dibromoethane (EDB)	**<18.1**	ug/kg	66.0	18.1	1	02/23/21 08:00	02/23/21 15:21	106-93-4	
1,2-Dichlorobenzene	**<20.4**	ug/kg	66.0	20.4	1	02/23/21 08:00	02/23/21 15:21	95-50-1	
1,2-Dichloroethane	**<15.2**	ug/kg	66.0	15.2	1	02/23/21 08:00	02/23/21 15:21	107-06-2	
1,2-Dichloropropane	**<15.7**	ug/kg	66.0	15.7	1	02/23/21 08:00	02/23/21 15:21	78-87-5	
1,3,5-Trimethylbenzene	**<21.2**	ug/kg	66.0	21.2	1	02/23/21 08:00	02/23/21 15:21	108-67-8	
1,3-Dichlorobenzene	**<18.1**	ug/kg	66.0	18.1	1	02/23/21 08:00	02/23/21 15:21	541-73-1	
1,3-Dichloropropane	**<14.4**	ug/kg	66.0	14.4	1	02/23/21 08:00	02/23/21 15:21	142-28-9	
1,4-Dichlorobenzene	**<18.1**	ug/kg	66.0	18.1	1	02/23/21 08:00	02/23/21 15:21	106-46-7	
2,2-Dichloropropane	**<17.8**	ug/kg	66.0	17.8	1	02/23/21 08:00	02/23/21 15:21	594-20-7	
2-Chlorotoluene	**<21.4**	ug/kg	66.0	21.4	1	02/23/21 08:00	02/23/21 15:21	95-49-8	
4-Chlorotoluene	**<25.1**	ug/kg	66.0	25.1	1	02/23/21 08:00	02/23/21 15:21	106-43-4	
Benzene	**<15.7**	ug/kg	26.4	15.7	1	02/23/21 08:00	02/23/21 15:21	71-43-2	
Bromobenzene	**<25.7**	ug/kg	66.0	25.7	1	02/23/21 08:00	02/23/21 15:21	108-86-1	
Bromochloromethane	**<18.1**	ug/kg	66.0	18.1	1	02/23/21 08:00	02/23/21 15:21	74-97-5	
Bromodichloromethane	**<15.7**	ug/kg	66.0	15.7	1	02/23/21 08:00	02/23/21 15:21	75-27-4	
Bromoform	**<290**	ug/kg	330	290	1	02/23/21 08:00	02/23/21 15:21	75-25-2	
Bromomethane	**<92.5**	ug/kg	330	92.5	1	02/23/21 08:00	02/23/21 15:21	74-83-9	
Carbon tetrachloride	**<14.5**	ug/kg	66.0	14.5	1	02/23/21 08:00	02/23/21 15:21	56-23-5	
Chlorobenzene	**<7.9**	ug/kg	66.0	7.9	1	02/23/21 08:00	02/23/21 15:21	108-90-7	
Chloroethane	**<27.8**	ug/kg	330	27.8	1	02/23/21 08:00	02/23/21 15:21	75-00-3	
Chloroform	**<47.2**	ug/kg	330	47.2	1	02/23/21 08:00	02/23/21 15:21	67-66-3	
Chloromethane	**<25.1**	ug/kg	66.0	25.1	1	02/23/21 08:00	02/23/21 15:21	74-87-3	
Dibromochloromethane	**<225**	ug/kg	330	225	1	02/23/21 08:00	02/23/21 15:21	124-48-1	
Dibromomethane	**<19.5**	ug/kg	66.0	19.5	1	02/23/21 08:00	02/23/21 15:21	74-95-3	
Dichlorodifluoromethane	**<28.4**	ug/kg	66.0	28.4	1	02/23/21 08:00	02/23/21 15:21	75-71-8	M1,R1
Diisopropyl ether	**<16.4**	ug/kg	66.0	16.4	1	02/23/21 08:00	02/23/21 15:21	108-20-3	
Ethylbenzene	**<15.7**	ug/kg	66.0	15.7	1	02/23/21 08:00	02/23/21 15:21	100-41-4	
Hexachloro-1,3-butadiene	**<131**	ug/kg	330	131	1	02/23/21 08:00	02/23/21 15:21	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-2 8-10 **Lab ID: 40222281004** Collected: 02/18/21 10:10 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<17.8**	ug/kg	66.0	17.8	1	02/23/21 08:00	02/23/21 15:21	98-82-8	
Methyl-tert-butyl ether	**<19.4**	ug/kg	66.0	19.4	1	02/23/21 08:00	02/23/21 15:21	1634-04-4	
Methylene Chloride	**<18.3**	ug/kg	66.0	18.3	1	02/23/21 08:00	02/23/21 15:21	75-09-2	
Naphthalene	**<20.6**	ug/kg	330	20.6	1	02/23/21 08:00	02/23/21 15:21	91-20-3	
Styrene	**<16.9**	ug/kg	66.0	16.9	1	02/23/21 08:00	02/23/21 15:21	100-42-5	
Tetrachloroethene	**<25.6**	ug/kg	66.0	25.6	1	02/23/21 08:00	02/23/21 15:21	127-18-4	
Toluene	**<16.6**	ug/kg	66.0	16.6	1	02/23/21 08:00	02/23/21 15:21	108-88-3	
Trichloroethene	**<24.7**	ug/kg	66.0	24.7	1	02/23/21 08:00	02/23/21 15:21	79-01-6	
Trichlorofluoromethane	**<19.1**	ug/kg	66.0	19.1	1	02/23/21 08:00	02/23/21 15:21	75-69-4	R1
Vinyl chloride	**<13.3**	ug/kg	66.0	13.3	1	02/23/21 08:00	02/23/21 15:21	75-01-4	
cis-1,2-Dichloroethene	**<14.1**	ug/kg	66.0	14.1	1	02/23/21 08:00	02/23/21 15:21	156-59-2	
cis-1,3-Dichloropropene	**<43.5**	ug/kg	330	43.5	1	02/23/21 08:00	02/23/21 15:21	10061-01-5	
m&p-Xylene	**<27.8**	ug/kg	132	27.8	1	02/23/21 08:00	02/23/21 15:21	179601-23-1	
n-Butylbenzene	**<30.2**	ug/kg	66.0	30.2	1	02/23/21 08:00	02/23/21 15:21	104-51-8	
n-Propylbenzene	**<15.8**	ug/kg	66.0	15.8	1	02/23/21 08:00	02/23/21 15:21	103-65-1	
o-Xylene	**<19.8**	ug/kg	66.0	19.8	1	02/23/21 08:00	02/23/21 15:21	95-47-6	
p-Isopropyltoluene	**<20.1**	ug/kg	66.0	20.1	1	02/23/21 08:00	02/23/21 15:21	99-87-6	
sec-Butylbenzene	**<16.1**	ug/kg	66.0	16.1	1	02/23/21 08:00	02/23/21 15:21	135-98-8	
tert-Butylbenzene	**<20.7**	ug/kg	66.0	20.7	1	02/23/21 08:00	02/23/21 15:21	98-06-6	
trans-1,2-Dichloroethene	**<14.2**	ug/kg	66.0	14.2	1	02/23/21 08:00	02/23/21 15:21	156-60-5	
trans-1,3-Dichloropropene	**<189**	ug/kg	330	189	1	02/23/21 08:00	02/23/21 15:21	10061-02-6	
Surrogates									
Toluene-d8 (S)	101	%	56-140		1	02/23/21 08:00	02/23/21 15:21	2037-26-5	
4-Bromofluorobenzene (S)	101	%	52-137		1	02/23/21 08:00	02/23/21 15:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	117	%	50-150		1	02/23/21 08:00	02/23/21 15:21	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.8**	%	0.10	0.10	1		02/19/21 12:19		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**86.0**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.744**	mg/kg	2.48	0.744	1	02/25/21 11:08	02/25/21 22:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-4 4-5 **Lab ID: 40222281005** Collected: 02/18/21 10:35 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**25.8**	mg/kg	1.2	0.32	1	02/23/21 05:23	02/24/21 15:22	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<17.2**	ug/kg	71.6	17.2	1	02/23/21 08:00	02/23/21 15:41	630-20-6	
1,1,1-Trichloroethane	**<18.3**	ug/kg	71.6	18.3	1	02/23/21 08:00	02/23/21 15:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<25.9**	ug/kg	71.6	25.9	1	02/23/21 08:00	02/23/21 15:41	79-34-5	
1,1,2-Trichloroethane	**<26.1**	ug/kg	71.6	26.1	1	02/23/21 08:00	02/23/21 15:41	79-00-5	
1,1-Dichloroethane	**<18.3**	ug/kg	71.6	18.3	1	02/23/21 08:00	02/23/21 15:41	75-34-3	
1,1-Dichloroethene	**<23.8**	ug/kg	71.6	23.8	1	02/23/21 08:00	02/23/21 15:41	75-35-4	
1,1-Dichloropropene	**<23.2**	ug/kg	71.6	23.2	1	02/23/21 08:00	02/23/21 15:41	563-58-6	
1,2,3-Trichlorobenzene	**<79.8**	ug/kg	358	79.8	1	02/23/21 08:00	02/23/21 15:41	87-61-6	
1,2,3-Trichloropropane	**<34.8**	ug/kg	71.6	34.8	1	02/23/21 08:00	02/23/21 15:41	96-18-4	
1,2,4-Trichlorobenzene	**<59.0**	ug/kg	358	59.0	1	02/23/21 08:00	02/23/21 15:41	120-82-1	
1,2,4-Trimethylbenzene	**<21.3**	ug/kg	71.6	21.3	1	02/23/21 08:00	02/23/21 15:41	95-63-6	
1,2-Dibromo-3-chloropropane	**<55.6**	ug/kg	358	55.6	1	02/23/21 08:00	02/23/21 15:41	96-12-8	
1,2-Dibromoethane (EDB)	**<19.6**	ug/kg	71.6	19.6	1	02/23/21 08:00	02/23/21 15:41	106-93-4	
1,2-Dichlorobenzene	**<22.2**	ug/kg	71.6	22.2	1	02/23/21 08:00	02/23/21 15:41	95-50-1	
1,2-Dichloroethane	**<16.5**	ug/kg	71.6	16.5	1	02/23/21 08:00	02/23/21 15:41	107-06-2	
1,2-Dichloropropane	**<17.0**	ug/kg	71.6	17.0	1	02/23/21 08:00	02/23/21 15:41	78-87-5	
1,3,5-Trimethylbenzene	**<23.1**	ug/kg	71.6	23.1	1	02/23/21 08:00	02/23/21 15:41	108-67-8	
1,3-Dichlorobenzene	**<19.6**	ug/kg	71.6	19.6	1	02/23/21 08:00	02/23/21 15:41	541-73-1	
1,3-Dichloropropane	**<15.6**	ug/kg	71.6	15.6	1	02/23/21 08:00	02/23/21 15:41	142-28-9	
1,4-Dichlorobenzene	**<19.6**	ug/kg	71.6	19.6	1	02/23/21 08:00	02/23/21 15:41	106-46-7	
2,2-Dichloropropane	**<19.3**	ug/kg	71.6	19.3	1	02/23/21 08:00	02/23/21 15:41	594-20-7	
2-Chlorotoluene	**<23.2**	ug/kg	71.6	23.2	1	02/23/21 08:00	02/23/21 15:41	95-49-8	
4-Chlorotoluene	**<27.2**	ug/kg	71.6	27.2	1	02/23/21 08:00	02/23/21 15:41	106-43-4	
Benzene	**<17.0**	ug/kg	28.6	17.0	1	02/23/21 08:00	02/23/21 15:41	71-43-2	
Bromobenzene	**<27.9**	ug/kg	71.6	27.9	1	02/23/21 08:00	02/23/21 15:41	108-86-1	
Bromochloromethane	**<19.6**	ug/kg	71.6	19.6	1	02/23/21 08:00	02/23/21 15:41	74-97-5	
Bromodichloromethane	**<17.0**	ug/kg	71.6	17.0	1	02/23/21 08:00	02/23/21 15:41	75-27-4	
Bromoform	**<315**	ug/kg	358	315	1	02/23/21 08:00	02/23/21 15:41	75-25-2	
Bromomethane	**<100**	ug/kg	358	100	1	02/23/21 08:00	02/23/21 15:41	74-83-9	
Carbon tetrachloride	**<15.8**	ug/kg	71.6	15.8	1	02/23/21 08:00	02/23/21 15:41	56-23-5	
Chlorobenzene	**<8.6**	ug/kg	71.6	8.6	1	02/23/21 08:00	02/23/21 15:41	108-90-7	
Chloroethane	**<30.2**	ug/kg	358	30.2	1	02/23/21 08:00	02/23/21 15:41	75-00-3	
Chloroform	**<51.3**	ug/kg	358	51.3	1	02/23/21 08:00	02/23/21 15:41	67-66-3	
Chloromethane	**<27.2**	ug/kg	71.6	27.2	1	02/23/21 08:00	02/23/21 15:41	74-87-3	
Dibromochloromethane	**<245**	ug/kg	358	245	1	02/23/21 08:00	02/23/21 15:41	124-48-1	
Dibromomethane	**<21.2**	ug/kg	71.6	21.2	1	02/23/21 08:00	02/23/21 15:41	74-95-3	
Dichlorodifluoromethane	**<30.8**	ug/kg	71.6	30.8	1	02/23/21 08:00	02/23/21 15:41	75-71-8	
Diisopropyl ether	**<17.8**	ug/kg	71.6	17.8	1	02/23/21 08:00	02/23/21 15:41	108-20-3	
Ethylbenzene	**<17.0**	ug/kg	71.6	17.0	1	02/23/21 08:00	02/23/21 15:41	100-41-4	
Hexachloro-1,3-butadiene	**<142**	ug/kg	358	142	1	02/23/21 08:00	02/23/21 15:41	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-4 4-5 **Lab ID: 40222281005** Collected: 02/18/21 10:35 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<19.3**	ug/kg	71.6	19.3	1	02/23/21 08:00	02/23/21 15:41	98-82-8	
Methyl-tert-butyl ether	**<21.1**	ug/kg	71.6	21.1	1	02/23/21 08:00	02/23/21 15:41	1634-04-4	
Methylene Chloride	**<19.9**	ug/kg	71.6	19.9	1	02/23/21 08:00	02/23/21 15:41	75-09-2	
Naphthalene	**<22.3**	ug/kg	358	22.3	1	02/23/21 08:00	02/23/21 15:41	91-20-3	
Styrene	**<18.3**	ug/kg	71.6	18.3	1	02/23/21 08:00	02/23/21 15:41	100-42-5	
Tetrachloroethene	**<27.8**	ug/kg	71.6	27.8	1	02/23/21 08:00	02/23/21 15:41	127-18-4	
Toluene	**<18.0**	ug/kg	71.6	18.0	1	02/23/21 08:00	02/23/21 15:41	108-88-3	
Trichloroethene	**<26.8**	ug/kg	71.6	26.8	1	02/23/21 08:00	02/23/21 15:41	79-01-6	
Trichlorofluoromethane	**<20.8**	ug/kg	71.6	20.8	1	02/23/21 08:00	02/23/21 15:41	75-69-4	
Vinyl chloride	**<14.5**	ug/kg	71.6	14.5	1	02/23/21 08:00	02/23/21 15:41	75-01-4	
cis-1,2-Dichloroethene	**<15.3**	ug/kg	71.6	15.3	1	02/23/21 08:00	02/23/21 15:41	156-59-2	
cis-1,3-Dichloropropene	**<47.3**	ug/kg	358	47.3	1	02/23/21 08:00	02/23/21 15:41	10061-01-5	
m&p-Xylene	**<30.2**	ug/kg	143	30.2	1	02/23/21 08:00	02/23/21 15:41	179601-23-1	
n-Butylbenzene	**<32.8**	ug/kg	71.6	32.8	1	02/23/21 08:00	02/23/21 15:41	104-51-8	
n-Propylbenzene	**<17.2**	ug/kg	71.6	17.2	1	02/23/21 08:00	02/23/21 15:41	103-65-1	
o-Xylene	**<21.5**	ug/kg	71.6	21.5	1	02/23/21 08:00	02/23/21 15:41	95-47-6	
p-Isopropyltoluene	**<21.8**	ug/kg	71.6	21.8	1	02/23/21 08:00	02/23/21 15:41	99-87-6	
sec-Butylbenzene	**<17.5**	ug/kg	71.6	17.5	1	02/23/21 08:00	02/23/21 15:41	135-98-8	
tert-Butylbenzene	**<22.5**	ug/kg	71.6	22.5	1	02/23/21 08:00	02/23/21 15:41	98-06-6	
trans-1,2-Dichloroethene	**<15.5**	ug/kg	71.6	15.5	1	02/23/21 08:00	02/23/21 15:41	156-60-5	
trans-1,3-Dichloropropene	**<205**	ug/kg	358	205	1	02/23/21 08:00	02/23/21 15:41	10061-02-6	
Surrogates									
Toluene-d8 (S)	125	%	56-140		1	02/23/21 08:00	02/23/21 15:41	2037-26-5	
4-Bromofluorobenzene (S)	124	%	52-137		1	02/23/21 08:00	02/23/21 15:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	143	%	50-150		1	02/23/21 08:00	02/23/21 15:41	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**17.8**	%	0.10	0.10	1		02/19/21 12:19		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**83.8**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.764**	mg/kg	2.54	0.764	1	02/25/21 11:08	02/25/21 22:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-4 8-10 **Lab ID: 40222281006** Collected: 02/18/21 10:39 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**23.8**	mg/kg	1.1	0.30	1	02/23/21 05:23	02/24/21 15:25	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<15.8**	ug/kg	66.0	15.8	1	02/23/21 08:00	02/23/21 16:02	630-20-6	
1,1,1-Trichloroethane	**<16.9**	ug/kg	66.0	16.9	1	02/23/21 08:00	02/23/21 16:02	71-55-6	
1,1,2,2-Tetrachloroethane	**<23.9**	ug/kg	66.0	23.9	1	02/23/21 08:00	02/23/21 16:02	79-34-5	
1,1,2-Trichloroethane	**<24.0**	ug/kg	66.0	24.0	1	02/23/21 08:00	02/23/21 16:02	79-00-5	
1,1-Dichloroethane	**<16.9**	ug/kg	66.0	16.9	1	02/23/21 08:00	02/23/21 16:02	75-34-3	
1,1-Dichloroethene	**<21.9**	ug/kg	66.0	21.9	1	02/23/21 08:00	02/23/21 16:02	75-35-4	
1,1-Dichloropropene	**<21.4**	ug/kg	66.0	21.4	1	02/23/21 08:00	02/23/21 16:02	563-58-6	
1,2,3-Trichlorobenzene	**<73.5**	ug/kg	330	73.5	1	02/23/21 08:00	02/23/21 16:02	87-61-6	
1,2,3-Trichloropropane	**<32.1**	ug/kg	66.0	32.1	1	02/23/21 08:00	02/23/21 16:02	96-18-4	
1,2,4-Trichlorobenzene	**<54.4**	ug/kg	330	54.4	1	02/23/21 08:00	02/23/21 16:02	120-82-1	
1,2,4-Trimethylbenzene	**<19.7**	ug/kg	66.0	19.7	1	02/23/21 08:00	02/23/21 16:02	95-63-6	
1,2-Dibromo-3-chloropropane	**<51.2**	ug/kg	330	51.2	1	02/23/21 08:00	02/23/21 16:02	96-12-8	
1,2-Dibromoethane (EDB)	**<18.1**	ug/kg	66.0	18.1	1	02/23/21 08:00	02/23/21 16:02	106-93-4	
1,2-Dichlorobenzene	**<20.5**	ug/kg	66.0	20.5	1	02/23/21 08:00	02/23/21 16:02	95-50-1	
1,2-Dichloroethane	**<15.2**	ug/kg	66.0	15.2	1	02/23/21 08:00	02/23/21 16:02	107-06-2	
1,2-Dichloropropane	**<15.7**	ug/kg	66.0	15.7	1	02/23/21 08:00	02/23/21 16:02	78-87-5	
1,3,5-Trimethylbenzene	**<21.3**	ug/kg	66.0	21.3	1	02/23/21 08:00	02/23/21 16:02	108-67-8	
1,3-Dichlorobenzene	**<18.1**	ug/kg	66.0	18.1	1	02/23/21 08:00	02/23/21 16:02	541-73-1	
1,3-Dichloropropane	**<14.4**	ug/kg	66.0	14.4	1	02/23/21 08:00	02/23/21 16:02	142-28-9	
1,4-Dichlorobenzene	**<18.1**	ug/kg	66.0	18.1	1	02/23/21 08:00	02/23/21 16:02	106-46-7	
2,2-Dichloropropane	**<17.8**	ug/kg	66.0	17.8	1	02/23/21 08:00	02/23/21 16:02	594-20-7	
2-Chlorotoluene	**<21.4**	ug/kg	66.0	21.4	1	02/23/21 08:00	02/23/21 16:02	95-49-8	
4-Chlorotoluene	**<25.1**	ug/kg	66.0	25.1	1	02/23/21 08:00	02/23/21 16:02	106-43-4	
Benzene	**<15.7**	ug/kg	26.4	15.7	1	02/23/21 08:00	02/23/21 16:02	71-43-2	
Bromobenzene	**<25.7**	ug/kg	66.0	25.7	1	02/23/21 08:00	02/23/21 16:02	108-86-1	
Bromochloromethane	**<18.1**	ug/kg	66.0	18.1	1	02/23/21 08:00	02/23/21 16:02	74-97-5	
Bromodichloromethane	**<15.7**	ug/kg	66.0	15.7	1	02/23/21 08:00	02/23/21 16:02	75-27-4	
Bromoform	**<290**	ug/kg	330	290	1	02/23/21 08:00	02/23/21 16:02	75-25-2	
Bromomethane	**<92.5**	ug/kg	330	92.5	1	02/23/21 08:00	02/23/21 16:02	74-83-9	
Carbon tetrachloride	**<14.5**	ug/kg	66.0	14.5	1	02/23/21 08:00	02/23/21 16:02	56-23-5	
Chlorobenzene	**<7.9**	ug/kg	66.0	7.9	1	02/23/21 08:00	02/23/21 16:02	108-90-7	
Chloroethane	**<27.9**	ug/kg	330	27.9	1	02/23/21 08:00	02/23/21 16:02	75-00-3	
Chloroform	**<47.3**	ug/kg	330	47.3	1	02/23/21 08:00	02/23/21 16:02	67-66-3	
Chloromethane	**<25.1**	ug/kg	66.0	25.1	1	02/23/21 08:00	02/23/21 16:02	74-87-3	
Dibromochloromethane	**<226**	ug/kg	330	226	1	02/23/21 08:00	02/23/21 16:02	124-48-1	
Dibromomethane	**<19.5**	ug/kg	66.0	19.5	1	02/23/21 08:00	02/23/21 16:02	74-95-3	
Dichlorodifluoromethane	**<28.4**	ug/kg	66.0	28.4	1	02/23/21 08:00	02/23/21 16:02	75-71-8	
Diisopropyl ether	**<16.4**	ug/kg	66.0	16.4	1	02/23/21 08:00	02/23/21 16:02	108-20-3	
Ethylbenzene	**<15.7**	ug/kg	66.0	15.7	1	02/23/21 08:00	02/23/21 16:02	100-41-4	
Hexachloro-1,3-butadiene	**<131**	ug/kg	330	131	1	02/23/21 08:00	02/23/21 16:02	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-4 8-10 **Lab ID: 40222281006** Collected: 02/18/21 10:39 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<17.8**	ug/kg	66.0	17.8	1	02/23/21 08:00	02/23/21 16:02	98-82-8	
Methyl-tert-butyl ether	**<19.4**	ug/kg	66.0	19.4	1	02/23/21 08:00	02/23/21 16:02	1634-04-4	
Methylene Chloride	**<18.4**	ug/kg	66.0	18.4	1	02/23/21 08:00	02/23/21 16:02	75-09-2	
Naphthalene	**<20.6**	ug/kg	330	20.6	1	02/23/21 08:00	02/23/21 16:02	91-20-3	
Styrene	**<16.9**	ug/kg	66.0	16.9	1	02/23/21 08:00	02/23/21 16:02	100-42-5	
Tetrachloroethene	**<25.6**	ug/kg	66.0	25.6	1	02/23/21 08:00	02/23/21 16:02	127-18-4	
Toluene	**<16.6**	ug/kg	66.0	16.6	1	02/23/21 08:00	02/23/21 16:02	108-88-3	
Trichloroethene	**<24.7**	ug/kg	66.0	24.7	1	02/23/21 08:00	02/23/21 16:02	79-01-6	
Trichlorofluoromethane	**<19.1**	ug/kg	66.0	19.1	1	02/23/21 08:00	02/23/21 16:02	75-69-4	
Vinyl chloride	**<13.3**	ug/kg	66.0	13.3	1	02/23/21 08:00	02/23/21 16:02	75-01-4	
cis-1,2-Dichloroethene	**<14.1**	ug/kg	66.0	14.1	1	02/23/21 08:00	02/23/21 16:02	156-59-2	
cis-1,3-Dichloropropene	**<43.6**	ug/kg	330	43.6	1	02/23/21 08:00	02/23/21 16:02	10061-01-5	
m&p-Xylene	**<27.9**	ug/kg	132	27.9	1	02/23/21 08:00	02/23/21 16:02	179601-23-1	
n-Butylbenzene	**<30.2**	ug/kg	66.0	30.2	1	02/23/21 08:00	02/23/21 16:02	104-51-8	
n-Propylbenzene	**<15.8**	ug/kg	66.0	15.8	1	02/23/21 08:00	02/23/21 16:02	103-65-1	
o-Xylene	**<19.8**	ug/kg	66.0	19.8	1	02/23/21 08:00	02/23/21 16:02	95-47-6	
p-Isopropyltoluene	**<20.1**	ug/kg	66.0	20.1	1	02/23/21 08:00	02/23/21 16:02	99-87-6	
sec-Butylbenzene	**<16.1**	ug/kg	66.0	16.1	1	02/23/21 08:00	02/23/21 16:02	135-98-8	
tert-Butylbenzene	**<20.7**	ug/kg	66.0	20.7	1	02/23/21 08:00	02/23/21 16:02	98-06-6	
trans-1,2-Dichloroethene	**<14.3**	ug/kg	66.0	14.3	1	02/23/21 08:00	02/23/21 16:02	156-60-5	
trans-1,3-Dichloropropene	**<189**	ug/kg	330	189	1	02/23/21 08:00	02/23/21 16:02	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	56-140		1	02/23/21 08:00	02/23/21 16:02	2037-26-5	
4-Bromofluorobenzene (S)	102	%	52-137		1	02/23/21 08:00	02/23/21 16:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	118	%	50-150		1	02/23/21 08:00	02/23/21 16:02	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.8**	%	0.10	0.10	1		02/19/21 12:19		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**86.2**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.743**	mg/kg	2.47	0.743	1	02/25/21 11:08	02/25/21 22:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-5 4-5 **Lab ID: 40222281007** Collected: 02/18/21 11:08 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**24.3**	mg/kg	1.1	0.30	1	02/23/21 05:23	02/24/21 15:27	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<15.5**	ug/kg	64.4	15.5	1	02/23/21 08:00	02/23/21 16:22	630-20-6	
1,1,1-Trichloroethane	**<16.5**	ug/kg	64.4	16.5	1	02/23/21 08:00	02/23/21 16:22	71-55-6	
1,1,2,2-Tetrachloroethane	**<23.3**	ug/kg	64.4	23.3	1	02/23/21 08:00	02/23/21 16:22	79-34-5	
1,1,2-Trichloroethane	**<23.5**	ug/kg	64.4	23.5	1	02/23/21 08:00	02/23/21 16:22	79-00-5	
1,1-Dichloroethane	**<16.5**	ug/kg	64.4	16.5	1	02/23/21 08:00	02/23/21 16:22	75-34-3	
1,1-Dichloroethene	**<21.4**	ug/kg	64.4	21.4	1	02/23/21 08:00	02/23/21 16:22	75-35-4	
1,1-Dichloropropene	**<20.9**	ug/kg	64.4	20.9	1	02/23/21 08:00	02/23/21 16:22	563-58-6	
1,2,3-Trichlorobenzene	**<71.8**	ug/kg	322	71.8	1	02/23/21 08:00	02/23/21 16:22	87-61-6	
1,2,3-Trichloropropane	**<31.3**	ug/kg	64.4	31.3	1	02/23/21 08:00	02/23/21 16:22	96-18-4	
1,2,4-Trichlorobenzene	**<53.1**	ug/kg	322	53.1	1	02/23/21 08:00	02/23/21 16:22	120-82-1	
1,2,4-Trimethylbenzene	**<19.2**	ug/kg	64.4	19.2	1	02/23/21 08:00	02/23/21 16:22	95-63-6	
1,2-Dibromo-3-chloropropane	**<50.0**	ug/kg	322	50.0	1	02/23/21 08:00	02/23/21 16:22	96-12-8	
1,2-Dibromoethane (EDB)	**<17.7**	ug/kg	64.4	17.7	1	02/23/21 08:00	02/23/21 16:22	106-93-4	
1,2-Dichlorobenzene	**<20.0**	ug/kg	64.4	20.0	1	02/23/21 08:00	02/23/21 16:22	95-50-1	
1,2-Dichloroethane	**<14.8**	ug/kg	64.4	14.8	1	02/23/21 08:00	02/23/21 16:22	107-06-2	
1,2-Dichloropropane	**<15.3**	ug/kg	64.4	15.3	1	02/23/21 08:00	02/23/21 16:22	78-87-5	
1,3,5-Trimethylbenzene	**<20.7**	ug/kg	64.4	20.7	1	02/23/21 08:00	02/23/21 16:22	108-67-8	
1,3-Dichlorobenzene	**<17.7**	ug/kg	64.4	17.7	1	02/23/21 08:00	02/23/21 16:22	541-73-1	
1,3-Dichloropropane	**<14.0**	ug/kg	64.4	14.0	1	02/23/21 08:00	02/23/21 16:22	142-28-9	
1,4-Dichlorobenzene	**<17.7**	ug/kg	64.4	17.7	1	02/23/21 08:00	02/23/21 16:22	106-46-7	
2,2-Dichloropropane	**<17.4**	ug/kg	64.4	17.4	1	02/23/21 08:00	02/23/21 16:22	594-20-7	
2-Chlorotoluene	**<20.9**	ug/kg	64.4	20.9	1	02/23/21 08:00	02/23/21 16:22	95-49-8	
4-Chlorotoluene	**<24.5**	ug/kg	64.4	24.5	1	02/23/21 08:00	02/23/21 16:22	106-43-4	
Benzene	**<15.3**	ug/kg	25.8	15.3	1	02/23/21 08:00	02/23/21 16:22	71-43-2	
Bromobenzene	**<25.1**	ug/kg	64.4	25.1	1	02/23/21 08:00	02/23/21 16:22	108-86-1	
Bromochloromethane	**<17.7**	ug/kg	64.4	17.7	1	02/23/21 08:00	02/23/21 16:22	74-97-5	
Bromodichloromethane	**<15.3**	ug/kg	64.4	15.3	1	02/23/21 08:00	02/23/21 16:22	75-27-4	
Bromoform	**<284**	ug/kg	322	284	1	02/23/21 08:00	02/23/21 16:22	75-25-2	
Bromomethane	**<90.3**	ug/kg	322	90.3	1	02/23/21 08:00	02/23/21 16:22	74-83-9	
Carbon tetrachloride	**<14.2**	ug/kg	64.4	14.2	1	02/23/21 08:00	02/23/21 16:22	56-23-5	
Chlorobenzene	**<7.7**	ug/kg	64.4	7.7	1	02/23/21 08:00	02/23/21 16:22	108-90-7	
Chloroethane	**<27.2**	ug/kg	322	27.2	1	02/23/21 08:00	02/23/21 16:22	75-00-3	
Chloroform	**<46.1**	ug/kg	322	46.1	1	02/23/21 08:00	02/23/21 16:22	67-66-3	
Chloromethane	**<24.5**	ug/kg	64.4	24.5	1	02/23/21 08:00	02/23/21 16:22	74-87-3	
Dibromochloromethane	**<220**	ug/kg	322	220	1	02/23/21 08:00	02/23/21 16:22	124-48-1	
Dibromomethane	**<19.1**	ug/kg	64.4	19.1	1	02/23/21 08:00	02/23/21 16:22	74-95-3	
Dichlorodifluoromethane	**<27.7**	ug/kg	64.4	27.7	1	02/23/21 08:00	02/23/21 16:22	75-71-8	
Diisopropyl ether	**<16.0**	ug/kg	64.4	16.0	1	02/23/21 08:00	02/23/21 16:22	108-20-3	
Ethylbenzene	**<15.3**	ug/kg	64.4	15.3	1	02/23/21 08:00	02/23/21 16:22	100-41-4	
Hexachloro-1,3-butadiene	**<128**	ug/kg	322	128	1	02/23/21 08:00	02/23/21 16:22	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-5 4-5 **Lab ID: 40222281007** Collected: 02/18/21 11:08 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<17.4**	ug/kg	64.4	17.4	1	02/23/21 08:00	02/23/21 16:22	98-82-8	
Methyl-tert-butyl ether	**<18.9**	ug/kg	64.4	18.9	1	02/23/21 08:00	02/23/21 16:22	1634-04-4	
Methylene Chloride	**<17.9**	ug/kg	64.4	17.9	1	02/23/21 08:00	02/23/21 16:22	75-09-2	
Naphthalene	**<20.1**	ug/kg	322	20.1	1	02/23/21 08:00	02/23/21 16:22	91-20-3	
Styrene	**<16.5**	ug/kg	64.4	16.5	1	02/23/21 08:00	02/23/21 16:22	100-42-5	
Tetrachloroethene	**<25.0**	ug/kg	64.4	25.0	1	02/23/21 08:00	02/23/21 16:22	127-18-4	
Toluene	**<16.2**	ug/kg	64.4	16.2	1	02/23/21 08:00	02/23/21 16:22	108-88-3	
Trichloroethene	**<24.1**	ug/kg	64.4	24.1	1	02/23/21 08:00	02/23/21 16:22	79-01-6	
Trichlorofluoromethane	**<18.7**	ug/kg	64.4	18.7	1	02/23/21 08:00	02/23/21 16:22	75-69-4	
Vinyl chloride	**<13.0**	ug/kg	64.4	13.0	1	02/23/21 08:00	02/23/21 16:22	75-01-4	
cis-1,2-Dichloroethene	**<13.8**	ug/kg	64.4	13.8	1	02/23/21 08:00	02/23/21 16:22	156-59-2	
cis-1,3-Dichloropropene	**<42.5**	ug/kg	322	42.5	1	02/23/21 08:00	02/23/21 16:22	10061-01-5	
m&p-Xylene	**<27.2**	ug/kg	129	27.2	1	02/23/21 08:00	02/23/21 16:22	179601-23-1	
n-Butylbenzene	**<29.5**	ug/kg	64.4	29.5	1	02/23/21 08:00	02/23/21 16:22	104-51-8	
n-Propylbenzene	**<15.5**	ug/kg	64.4	15.5	1	02/23/21 08:00	02/23/21 16:22	103-65-1	
o-Xylene	**<19.3**	ug/kg	64.4	19.3	1	02/23/21 08:00	02/23/21 16:22	95-47-6	
p-Isopropyltoluene	**<19.6**	ug/kg	64.4	19.6	1	02/23/21 08:00	02/23/21 16:22	99-87-6	
sec-Butylbenzene	**<15.7**	ug/kg	64.4	15.7	1	02/23/21 08:00	02/23/21 16:22	135-98-8	
tert-Butylbenzene	**<20.2**	ug/kg	64.4	20.2	1	02/23/21 08:00	02/23/21 16:22	98-06-6	
trans-1,2-Dichloroethene	**<13.9**	ug/kg	64.4	13.9	1	02/23/21 08:00	02/23/21 16:22	156-60-5	
trans-1,3-Dichloropropene	**<184**	ug/kg	322	184	1	02/23/21 08:00	02/23/21 16:22	10061-02-6	
Surrogates									
Toluene-d8 (S)	111	%	56-140		1	02/23/21 08:00	02/23/21 16:22	2037-26-5	
4-Bromofluorobenzene (S)	113	%	52-137		1	02/23/21 08:00	02/23/21 16:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	132	%	50-150		1	02/23/21 08:00	02/23/21 16:22	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**12.6**	%	0.10	0.10	1		02/19/21 12:19		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**87.5**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.731**	mg/kg	2.43	0.731	1	02/25/21 11:08	02/25/21 22:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-5 8-10 **Lab ID: 40222281008** Collected: 02/18/21 11:14 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**24.6**	mg/kg	1.1	0.30	1	02/23/21 05:23	02/24/21 15:30	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<15.7**	ug/kg	65.2	15.7	1	02/23/21 08:00	02/23/21 16:42	630-20-6	
1,1,1-Trichloroethane	**<16.7**	ug/kg	65.2	16.7	1	02/23/21 08:00	02/23/21 16:42	71-55-6	
1,1,2,2-Tetrachloroethane	**<23.6**	ug/kg	65.2	23.6	1	02/23/21 08:00	02/23/21 16:42	79-34-5	
1,1,2-Trichloroethane	**<23.7**	ug/kg	65.2	23.7	1	02/23/21 08:00	02/23/21 16:42	79-00-5	
1,1-Dichloroethane	**<16.7**	ug/kg	65.2	16.7	1	02/23/21 08:00	02/23/21 16:42	75-34-3	
1,1-Dichloroethene	**<21.7**	ug/kg	65.2	21.7	1	02/23/21 08:00	02/23/21 16:42	75-35-4	
1,1-Dichloropropene	**<21.1**	ug/kg	65.2	21.1	1	02/23/21 08:00	02/23/21 16:42	563-58-6	
1,2,3-Trichlorobenzene	**<72.7**	ug/kg	326	72.7	1	02/23/21 08:00	02/23/21 16:42	87-61-6	
1,2,3-Trichloropropane	**<31.7**	ug/kg	65.2	31.7	1	02/23/21 08:00	02/23/21 16:42	96-18-4	
1,2,4-Trichlorobenzene	**<53.8**	ug/kg	326	53.8	1	02/23/21 08:00	02/23/21 16:42	120-82-1	
1,2,4-Trimethylbenzene	**<19.4**	ug/kg	65.2	19.4	1	02/23/21 08:00	02/23/21 16:42	95-63-6	
1,2-Dibromo-3-chloropropane	**<50.6**	ug/kg	326	50.6	1	02/23/21 08:00	02/23/21 16:42	96-12-8	
1,2-Dibromoethane (EDB)	**<17.9**	ug/kg	65.2	17.9	1	02/23/21 08:00	02/23/21 16:42	106-93-4	
1,2-Dichlorobenzene	**<20.2**	ug/kg	65.2	20.2	1	02/23/21 08:00	02/23/21 16:42	95-50-1	
1,2-Dichloroethane	**<15.0**	ug/kg	65.2	15.0	1	02/23/21 08:00	02/23/21 16:42	107-06-2	
1,2-Dichloropropane	**<15.5**	ug/kg	65.2	15.5	1	02/23/21 08:00	02/23/21 16:42	78-87-5	
1,3,5-Trimethylbenzene	**<21.0**	ug/kg	65.2	21.0	1	02/23/21 08:00	02/23/21 16:42	108-67-8	
1,3-Dichlorobenzene	**<17.9**	ug/kg	65.2	17.9	1	02/23/21 08:00	02/23/21 16:42	541-73-1	
1,3-Dichloropropane	**<14.2**	ug/kg	65.2	14.2	1	02/23/21 08:00	02/23/21 16:42	142-28-9	
1,4-Dichlorobenzene	**<17.9**	ug/kg	65.2	17.9	1	02/23/21 08:00	02/23/21 16:42	106-46-7	
2,2-Dichloropropane	**<17.6**	ug/kg	65.2	17.6	1	02/23/21 08:00	02/23/21 16:42	594-20-7	
2-Chlorotoluene	**<21.1**	ug/kg	65.2	21.1	1	02/23/21 08:00	02/23/21 16:42	95-49-8	
4-Chlorotoluene	**<24.8**	ug/kg	65.2	24.8	1	02/23/21 08:00	02/23/21 16:42	106-43-4	
Benzene	**<15.5**	ug/kg	26.1	15.5	1	02/23/21 08:00	02/23/21 16:42	71-43-2	
Bromobenzene	**<25.4**	ug/kg	65.2	25.4	1	02/23/21 08:00	02/23/21 16:42	108-86-1	
Bromochloromethane	**<17.9**	ug/kg	65.2	17.9	1	02/23/21 08:00	02/23/21 16:42	74-97-5	
Bromodichloromethane	**<15.5**	ug/kg	65.2	15.5	1	02/23/21 08:00	02/23/21 16:42	75-27-4	
Bromoform	**<287**	ug/kg	326	287	1	02/23/21 08:00	02/23/21 16:42	75-25-2	
Bromomethane	**<91.5**	ug/kg	326	91.5	1	02/23/21 08:00	02/23/21 16:42	74-83-9	
Carbon tetrachloride	**<14.4**	ug/kg	65.2	14.4	1	02/23/21 08:00	02/23/21 16:42	56-23-5	
Chlorobenzene	**<7.8**	ug/kg	65.2	7.8	1	02/23/21 08:00	02/23/21 16:42	108-90-7	
Chloroethane	**<27.5**	ug/kg	326	27.5	1	02/23/21 08:00	02/23/21 16:42	75-00-3	
Chloroform	**<46.7**	ug/kg	326	46.7	1	02/23/21 08:00	02/23/21 16:42	67-66-3	
Chloromethane	**<24.8**	ug/kg	65.2	24.8	1	02/23/21 08:00	02/23/21 16:42	74-87-3	
Dibromochloromethane	**<223**	ug/kg	326	223	1	02/23/21 08:00	02/23/21 16:42	124-48-1	
Dibromomethane	**<19.3**	ug/kg	65.2	19.3	1	02/23/21 08:00	02/23/21 16:42	74-95-3	
Dichlorodifluoromethane	**<28.0**	ug/kg	65.2	28.0	1	02/23/21 08:00	02/23/21 16:42	75-71-8	
Diisopropyl ether	**<16.2**	ug/kg	65.2	16.2	1	02/23/21 08:00	02/23/21 16:42	108-20-3	
Ethylbenzene	**<15.5**	ug/kg	65.2	15.5	1	02/23/21 08:00	02/23/21 16:42	100-41-4	
Hexachloro-1,3-butadiene	**<130**	ug/kg	326	130	1	02/23/21 08:00	02/23/21 16:42	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-5 8-10 **Lab ID: 40222281008** Collected: 02/18/21 11:14 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<17.6**	ug/kg	65.2	17.6	1	02/23/21 08:00	02/23/21 16:42	98-82-8	
Methyl-tert-butyl ether	**<19.2**	ug/kg	65.2	19.2	1	02/23/21 08:00	02/23/21 16:42	1634-04-4	
Methylene Chloride	**<18.1**	ug/kg	65.2	18.1	1	02/23/21 08:00	02/23/21 16:42	75-09-2	
Naphthalene	**<20.4**	ug/kg	326	20.4	1	02/23/21 08:00	02/23/21 16:42	91-20-3	
Styrene	**<16.7**	ug/kg	65.2	16.7	1	02/23/21 08:00	02/23/21 16:42	100-42-5	
Tetrachloroethene	**<25.3**	ug/kg	65.2	25.3	1	02/23/21 08:00	02/23/21 16:42	127-18-4	
Toluene	**<16.4**	ug/kg	65.2	16.4	1	02/23/21 08:00	02/23/21 16:42	108-88-3	
Trichloroethene	**<24.4**	ug/kg	65.2	24.4	1	02/23/21 08:00	02/23/21 16:42	79-01-6	
Trichlorofluoromethane	**<18.9**	ug/kg	65.2	18.9	1	02/23/21 08:00	02/23/21 16:42	75-69-4	
Vinyl chloride	**<13.2**	ug/kg	65.2	13.2	1	02/23/21 08:00	02/23/21 16:42	75-01-4	
cis-1,2-Dichloroethene	**<14.0**	ug/kg	65.2	14.0	1	02/23/21 08:00	02/23/21 16:42	156-59-2	
cis-1,3-Dichloropropene	**<43.1**	ug/kg	326	43.1	1	02/23/21 08:00	02/23/21 16:42	10061-01-5	
m&p-Xylene	**<27.5**	ug/kg	130	27.5	1	02/23/21 08:00	02/23/21 16:42	179601-23-1	
n-Butylbenzene	**<29.9**	ug/kg	65.2	29.9	1	02/23/21 08:00	02/23/21 16:42	104-51-8	
n-Propylbenzene	**<15.7**	ug/kg	65.2	15.7	1	02/23/21 08:00	02/23/21 16:42	103-65-1	
o-Xylene	**<19.6**	ug/kg	65.2	19.6	1	02/23/21 08:00	02/23/21 16:42	95-47-6	
p-Isopropyltoluene	**<19.8**	ug/kg	65.2	19.8	1	02/23/21 08:00	02/23/21 16:42	99-87-6	
sec-Butylbenzene	**<15.9**	ug/kg	65.2	15.9	1	02/23/21 08:00	02/23/21 16:42	135-98-8	
tert-Butylbenzene	**<20.5**	ug/kg	65.2	20.5	1	02/23/21 08:00	02/23/21 16:42	98-06-6	
trans-1,2-Dichloroethene	**<14.1**	ug/kg	65.2	14.1	1	02/23/21 08:00	02/23/21 16:42	156-60-5	
trans-1,3-Dichloropropene	**<187**	ug/kg	326	187	1	02/23/21 08:00	02/23/21 16:42	10061-02-6	
Surrogates									
Toluene-d8 (S)	102	%	56-140		1	02/23/21 08:00	02/23/21 16:42	2037-26-5	
4-Bromofluorobenzene (S)	105	%	52-137		1	02/23/21 08:00	02/23/21 16:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	115	%	50-150		1	02/23/21 08:00	02/23/21 16:42	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.2**	%	0.10	0.10	1		02/19/21 12:19		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**87.2**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.734**	mg/kg	2.44	0.734	1	02/25/21 11:08	02/25/21 22:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-6 4-5 **Lab ID: 40222281009** Collected: 02/18/21 12:01 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**28.5**	mg/kg	1.2	0.33	1	02/23/21 05:23	02/24/21 15:37	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<17.4**	ug/kg	72.6	17.4	1	02/23/21 08:00	02/23/21 17:02	630-20-6	
1,1,1-Trichloroethane	**<18.6**	ug/kg	72.6	18.6	1	02/23/21 08:00	02/23/21 17:02	71-55-6	
1,1,2,2-Tetrachloroethane	**<26.3**	ug/kg	72.6	26.3	1	02/23/21 08:00	02/23/21 17:02	79-34-5	
1,1,2-Trichloroethane	**<26.4**	ug/kg	72.6	26.4	1	02/23/21 08:00	02/23/21 17:02	79-00-5	
1,1-Dichloroethane	**<18.6**	ug/kg	72.6	18.6	1	02/23/21 08:00	02/23/21 17:02	75-34-3	
1,1-Dichloroethene	**<24.1**	ug/kg	72.6	24.1	1	02/23/21 08:00	02/23/21 17:02	75-35-4	
1,1-Dichloropropene	**<23.5**	ug/kg	72.6	23.5	1	02/23/21 08:00	02/23/21 17:02	563-58-6	
1,2,3-Trichlorobenzene	**<80.9**	ug/kg	363	80.9	1	02/23/21 08:00	02/23/21 17:02	87-61-6	
1,2,3-Trichloropropane	**<35.3**	ug/kg	72.6	35.3	1	02/23/21 08:00	02/23/21 17:02	96-18-4	
1,2,4-Trichlorobenzene	**<59.8**	ug/kg	363	59.8	1	02/23/21 08:00	02/23/21 17:02	120-82-1	
1,2,4-Trimethylbenzene	**<21.6**	ug/kg	72.6	21.6	1	02/23/21 08:00	02/23/21 17:02	95-63-6	
1,2-Dibromo-3-chloropropane	**<56.3**	ug/kg	363	56.3	1	02/23/21 08:00	02/23/21 17:02	96-12-8	
1,2-Dibromoethane (EDB)	**<19.9**	ug/kg	72.6	19.9	1	02/23/21 08:00	02/23/21 17:02	106-93-4	
1,2-Dichlorobenzene	**<22.5**	ug/kg	72.6	22.5	1	02/23/21 08:00	02/23/21 17:02	95-50-1	
1,2-Dichloroethane	**<16.7**	ug/kg	72.6	16.7	1	02/23/21 08:00	02/23/21 17:02	107-06-2	
1,2-Dichloropropane	**<17.3**	ug/kg	72.6	17.3	1	02/23/21 08:00	02/23/21 17:02	78-87-5	
1,3,5-Trimethylbenzene	**<23.4**	ug/kg	72.6	23.4	1	02/23/21 08:00	02/23/21 17:02	108-67-8	
1,3-Dichlorobenzene	**<19.9**	ug/kg	72.6	19.9	1	02/23/21 08:00	02/23/21 17:02	541-73-1	
1,3-Dichloropropane	**<15.8**	ug/kg	72.6	15.8	1	02/23/21 08:00	02/23/21 17:02	142-28-9	
1,4-Dichlorobenzene	**<19.9**	ug/kg	72.6	19.9	1	02/23/21 08:00	02/23/21 17:02	106-46-7	
2,2-Dichloropropane	**<19.6**	ug/kg	72.6	19.6	1	02/23/21 08:00	02/23/21 17:02	594-20-7	
2-Chlorotoluene	**<23.5**	ug/kg	72.6	23.5	1	02/23/21 08:00	02/23/21 17:02	95-49-8	
4-Chlorotoluene	**<27.6**	ug/kg	72.6	27.6	1	02/23/21 08:00	02/23/21 17:02	106-43-4	
Benzene	**<17.3**	ug/kg	29.0	17.3	1	02/23/21 08:00	02/23/21 17:02	71-43-2	
Bromobenzene	**<28.3**	ug/kg	72.6	28.3	1	02/23/21 08:00	02/23/21 17:02	108-86-1	
Bromochloromethane	**<19.9**	ug/kg	72.6	19.9	1	02/23/21 08:00	02/23/21 17:02	74-97-5	
Bromodichloromethane	**<17.3**	ug/kg	72.6	17.3	1	02/23/21 08:00	02/23/21 17:02	75-27-4	
Bromoform	**<319**	ug/kg	363	319	1	02/23/21 08:00	02/23/21 17:02	75-25-2	
Bromomethane	**<102**	ug/kg	363	102	1	02/23/21 08:00	02/23/21 17:02	74-83-9	
Carbon tetrachloride	**<16.0**	ug/kg	72.6	16.0	1	02/23/21 08:00	02/23/21 17:02	56-23-5	
Chlorobenzene	**<8.7**	ug/kg	72.6	8.7	1	02/23/21 08:00	02/23/21 17:02	108-90-7	
Chloroethane	**<30.6**	ug/kg	363	30.6	1	02/23/21 08:00	02/23/21 17:02	75-00-3	
Chloroform	**<52.0**	ug/kg	363	52.0	1	02/23/21 08:00	02/23/21 17:02	67-66-3	
Chloromethane	**<27.6**	ug/kg	72.6	27.6	1	02/23/21 08:00	02/23/21 17:02	74-87-3	
Dibromochloromethane	**<248**	ug/kg	363	248	1	02/23/21 08:00	02/23/21 17:02	124-48-1	
Dibromomethane	**<21.5**	ug/kg	72.6	21.5	1	02/23/21 08:00	02/23/21 17:02	74-95-3	
Dichlorodifluoromethane	**<31.2**	ug/kg	72.6	31.2	1	02/23/21 08:00	02/23/21 17:02	75-71-8	
Diisopropyl ether	**<18.0**	ug/kg	72.6	18.0	1	02/23/21 08:00	02/23/21 17:02	108-20-3	
Ethylbenzene	**<17.3**	ug/kg	72.6	17.3	1	02/23/21 08:00	02/23/21 17:02	100-41-4	
Hexachloro-1,3-butadiene	**<144**	ug/kg	363	144	1	02/23/21 08:00	02/23/21 17:02	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-6 4-5 **Lab ID: 40222281009** Collected: 02/18/21 12:01 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<19.6**	ug/kg	72.6	19.6	1	02/23/21 08:00	02/23/21 17:02	98-82-8	
Methyl-tert-butyl ether	**<21.3**	ug/kg	72.6	21.3	1	02/23/21 08:00	02/23/21 17:02	1634-04-4	
Methylene Chloride	**<20.2**	ug/kg	72.6	20.2	1	02/23/21 08:00	02/23/21 17:02	75-09-2	
Naphthalene	**<22.6**	ug/kg	363	22.6	1	02/23/21 08:00	02/23/21 17:02	91-20-3	
Styrene	**<18.6**	ug/kg	72.6	18.6	1	02/23/21 08:00	02/23/21 17:02	100-42-5	
Tetrachloroethene	**<28.2**	ug/kg	72.6	28.2	1	02/23/21 08:00	02/23/21 17:02	127-18-4	
Toluene	**<18.3**	ug/kg	72.6	18.3	1	02/23/21 08:00	02/23/21 17:02	108-88-3	
Trichloroethene	**<27.1**	ug/kg	72.6	27.1	1	02/23/21 08:00	02/23/21 17:02	79-01-6	
Trichlorofluoromethane	**<21.1**	ug/kg	72.6	21.1	1	02/23/21 08:00	02/23/21 17:02	75-69-4	
Vinyl chloride	**<14.7**	ug/kg	72.6	14.7	1	02/23/21 08:00	02/23/21 17:02	75-01-4	
cis-1,2-Dichloroethene	**<15.5**	ug/kg	72.6	15.5	1	02/23/21 08:00	02/23/21 17:02	156-59-2	
cis-1,3-Dichloropropene	**<47.9**	ug/kg	363	47.9	1	02/23/21 08:00	02/23/21 17:02	10061-01-5	
m&p-Xylene	**<30.6**	ug/kg	145	30.6	1	02/23/21 08:00	02/23/21 17:02	179601-23-1	
n-Butylbenzene	**<33.2**	ug/kg	72.6	33.2	1	02/23/21 08:00	02/23/21 17:02	104-51-8	
n-Propylbenzene	**<17.4**	ug/kg	72.6	17.4	1	02/23/21 08:00	02/23/21 17:02	103-65-1	
o-Xylene	**<21.8**	ug/kg	72.6	21.8	1	02/23/21 08:00	02/23/21 17:02	95-47-6	
p-Isopropyltoluene	**<22.1**	ug/kg	72.6	22.1	1	02/23/21 08:00	02/23/21 17:02	99-87-6	
sec-Butylbenzene	**<17.7**	ug/kg	72.6	17.7	1	02/23/21 08:00	02/23/21 17:02	135-98-8	
tert-Butylbenzene	**<22.8**	ug/kg	72.6	22.8	1	02/23/21 08:00	02/23/21 17:02	98-06-6	
trans-1,2-Dichloroethene	**<15.7**	ug/kg	72.6	15.7	1	02/23/21 08:00	02/23/21 17:02	156-60-5	
trans-1,3-Dichloropropene	**<208**	ug/kg	363	208	1	02/23/21 08:00	02/23/21 17:02	10061-02-6	
Surrogates									
Toluene-d8 (S)	124	%	56-140		1	02/23/21 08:00	02/23/21 17:02	2037-26-5	
4-Bromofluorobenzene (S)	124	%	52-137		1	02/23/21 08:00	02/23/21 17:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	138	%	50-150		1	02/23/21 08:00	02/23/21 17:02	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**18.4**	%	0.10	0.10	1		02/19/21 14:54		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**86.4**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.740**	mg/kg	2.46	0.740	1	02/25/21 11:08	02/25/21 22:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-6 8-10 **Lab ID: 40222281010** Collected: 02/18/21 12:04 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**21.9**	mg/kg	1.1	0.32	1	02/23/21 05:23	02/24/21 15:40	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<16.1**	ug/kg	67.0	16.1	1	02/23/21 08:00	02/23/21 17:22	630-20-6	
1,1,1-Trichloroethane	**<17.2**	ug/kg	67.0	17.2	1	02/23/21 08:00	02/23/21 17:22	71-55-6	
1,1,2,2-Tetrachloroethane	**<24.3**	ug/kg	67.0	24.3	1	02/23/21 08:00	02/23/21 17:22	79-34-5	
1,1,2-Trichloroethane	**<24.4**	ug/kg	67.0	24.4	1	02/23/21 08:00	02/23/21 17:22	79-00-5	
1,1-Dichloroethane	**<17.2**	ug/kg	67.0	17.2	1	02/23/21 08:00	02/23/21 17:22	75-34-3	
1,1-Dichloroethene	**<22.3**	ug/kg	67.0	22.3	1	02/23/21 08:00	02/23/21 17:22	75-35-4	
1,1-Dichloropropene	**<21.7**	ug/kg	67.0	21.7	1	02/23/21 08:00	02/23/21 17:22	563-58-6	
1,2,3-Trichlorobenzene	**<74.7**	ug/kg	335	74.7	1	02/23/21 08:00	02/23/21 17:22	87-61-6	
1,2,3-Trichloropropane	**<32.6**	ug/kg	67.0	32.6	1	02/23/21 08:00	02/23/21 17:22	96-18-4	
1,2,4-Trichlorobenzene	**<55.2**	ug/kg	335	55.2	1	02/23/21 08:00	02/23/21 17:22	120-82-1	
1,2,4-Trimethylbenzene	**<20.0**	ug/kg	67.0	20.0	1	02/23/21 08:00	02/23/21 17:22	95-63-6	
1,2-Dibromo-3-chloropropane	**<52.0**	ug/kg	335	52.0	1	02/23/21 08:00	02/23/21 17:22	96-12-8	
1,2-Dibromoethane (EDB)	**<18.4**	ug/kg	67.0	18.4	1	02/23/21 08:00	02/23/21 17:22	106-93-4	
1,2-Dichlorobenzene	**<20.8**	ug/kg	67.0	20.8	1	02/23/21 08:00	02/23/21 17:22	95-50-1	
1,2-Dichloroethane	**<15.4**	ug/kg	67.0	15.4	1	02/23/21 08:00	02/23/21 17:22	107-06-2	
1,2-Dichloropropane	**<16.0**	ug/kg	67.0	16.0	1	02/23/21 08:00	02/23/21 17:22	78-87-5	
1,3,5-Trimethylbenzene	**<21.6**	ug/kg	67.0	21.6	1	02/23/21 08:00	02/23/21 17:22	108-67-8	
1,3-Dichlorobenzene	**<18.4**	ug/kg	67.0	18.4	1	02/23/21 08:00	02/23/21 17:22	541-73-1	
1,3-Dichloropropane	**<14.6**	ug/kg	67.0	14.6	1	02/23/21 08:00	02/23/21 17:22	142-28-9	
1,4-Dichlorobenzene	**<18.4**	ug/kg	67.0	18.4	1	02/23/21 08:00	02/23/21 17:22	106-46-7	
2,2-Dichloropropane	**<18.1**	ug/kg	67.0	18.1	1	02/23/21 08:00	02/23/21 17:22	594-20-7	
2-Chlorotoluene	**<21.7**	ug/kg	67.0	21.7	1	02/23/21 08:00	02/23/21 17:22	95-49-8	
4-Chlorotoluene	**<25.5**	ug/kg	67.0	25.5	1	02/23/21 08:00	02/23/21 17:22	106-43-4	
Benzene	**<16.0**	ug/kg	26.8	16.0	1	02/23/21 08:00	02/23/21 17:22	71-43-2	
Bromobenzene	**<26.1**	ug/kg	67.0	26.1	1	02/23/21 08:00	02/23/21 17:22	108-86-1	
Bromochloromethane	**<18.4**	ug/kg	67.0	18.4	1	02/23/21 08:00	02/23/21 17:22	74-97-5	
Bromodichloromethane	**<16.0**	ug/kg	67.0	16.0	1	02/23/21 08:00	02/23/21 17:22	75-27-4	
Bromoform	**<295**	ug/kg	335	295	1	02/23/21 08:00	02/23/21 17:22	75-25-2	
Bromomethane	**<94.0**	ug/kg	335	94.0	1	02/23/21 08:00	02/23/21 17:22	74-83-9	
Carbon tetrachloride	**<14.7**	ug/kg	67.0	14.7	1	02/23/21 08:00	02/23/21 17:22	56-23-5	
Chlorobenzene	**<8.0**	ug/kg	67.0	8.0	1	02/23/21 08:00	02/23/21 17:22	108-90-7	
Chloroethane	**<28.3**	ug/kg	335	28.3	1	02/23/21 08:00	02/23/21 17:22	75-00-3	
Chloroform	**<48.0**	ug/kg	335	48.0	1	02/23/21 08:00	02/23/21 17:22	67-66-3	
Chloromethane	**<25.5**	ug/kg	67.0	25.5	1	02/23/21 08:00	02/23/21 17:22	74-87-3	
Dibromochloromethane	**<229**	ug/kg	335	229	1	02/23/21 08:00	02/23/21 17:22	124-48-1	
Dibromomethane	**<19.8**	ug/kg	67.0	19.8	1	02/23/21 08:00	02/23/21 17:22	74-95-3	
Dichlorodifluoromethane	**<28.8**	ug/kg	67.0	28.8	1	02/23/21 08:00	02/23/21 17:22	75-71-8	
Diisopropyl ether	**<16.6**	ug/kg	67.0	16.6	1	02/23/21 08:00	02/23/21 17:22	108-20-3	
Ethylbenzene	**<16.0**	ug/kg	67.0	16.0	1	02/23/21 08:00	02/23/21 17:22	100-41-4	
Hexachloro-1,3-butadiene	**<133**	ug/kg	335	133	1	02/23/21 08:00	02/23/21 17:22	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-6 8-10 **Lab ID: 40222281010** Collected: 02/18/21 12:04 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<18.1**	ug/kg	67.0	18.1	1	02/23/21 08:00	02/23/21 17:22	98-82-8	
Methyl-tert-butyl ether	**<19.7**	ug/kg	67.0	19.7	1	02/23/21 08:00	02/23/21 17:22	1634-04-4	
Methylene Chloride	**<18.6**	ug/kg	67.0	18.6	1	02/23/21 08:00	02/23/21 17:22	75-09-2	
Naphthalene	**<20.9**	ug/kg	335	20.9	1	02/23/21 08:00	02/23/21 17:22	91-20-3	
Styrene	**<17.2**	ug/kg	67.0	17.2	1	02/23/21 08:00	02/23/21 17:22	100-42-5	
Tetrachloroethene	**<26.0**	ug/kg	67.0	26.0	1	02/23/21 08:00	02/23/21 17:22	127-18-4	
Toluene	**<16.9**	ug/kg	67.0	16.9	1	02/23/21 08:00	02/23/21 17:22	108-88-3	
Trichloroethene	**<25.1**	ug/kg	67.0	25.1	1	02/23/21 08:00	02/23/21 17:22	79-01-6	
Trichlorofluoromethane	**<19.4**	ug/kg	67.0	19.4	1	02/23/21 08:00	02/23/21 17:22	75-69-4	
Vinyl chloride	**<13.5**	ug/kg	67.0	13.5	1	02/23/21 08:00	02/23/21 17:22	75-01-4	
cis-1,2-Dichloroethene	**<14.3**	ug/kg	67.0	14.3	1	02/23/21 08:00	02/23/21 17:22	156-59-2	
cis-1,3-Dichloropropene	**<44.2**	ug/kg	335	44.2	1	02/23/21 08:00	02/23/21 17:22	10061-01-5	
m&p-Xylene	**<28.3**	ug/kg	134	28.3	1	02/23/21 08:00	02/23/21 17:22	179601-23-1	
n-Butylbenzene	**<30.7**	ug/kg	67.0	30.7	1	02/23/21 08:00	02/23/21 17:22	104-51-8	
n-Propylbenzene	**<16.1**	ug/kg	67.0	16.1	1	02/23/21 08:00	02/23/21 17:22	103-65-1	
o-Xylene	**<20.1**	ug/kg	67.0	20.1	1	02/23/21 08:00	02/23/21 17:22	95-47-6	
p-Isopropyltoluene	**<20.4**	ug/kg	67.0	20.4	1	02/23/21 08:00	02/23/21 17:22	99-87-6	
sec-Butylbenzene	**<16.4**	ug/kg	67.0	16.4	1	02/23/21 08:00	02/23/21 17:22	135-98-8	
tert-Butylbenzene	**<21.0**	ug/kg	67.0	21.0	1	02/23/21 08:00	02/23/21 17:22	98-06-6	
trans-1,2-Dichloroethene	**<14.5**	ug/kg	67.0	14.5	1	02/23/21 08:00	02/23/21 17:22	156-60-5	
trans-1,3-Dichloropropene	**<192**	ug/kg	335	192	1	02/23/21 08:00	02/23/21 17:22	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	56-140		1	02/23/21 08:00	02/23/21 17:22	2037-26-5	
4-Bromofluorobenzene (S)	99	%	52-137		1	02/23/21 08:00	02/23/21 17:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	117	%	50-150		1	02/23/21 08:00	02/23/21 17:22	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**14.6**	%	0.10	0.10	1		02/19/21 14:54		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**85.5**	%			1	02/28/21 14:37	02/28/21 14:53		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.749**	mg/kg	2.49	0.749	1	02/25/21 11:08	02/25/21 22:31		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-7 4-5 **Lab ID: 40222281011** Collected: 02/18/21 12:25 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**22.7**	mg/kg	1.1	0.30	1	02/23/21 05:23	02/24/21 15:42	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<15.6**	ug/kg	64.9	15.6	1	02/23/21 08:00	02/23/21 17:43	630-20-6	
1,1,1-Trichloroethane	**<16.6**	ug/kg	64.9	16.6	1	02/23/21 08:00	02/23/21 17:43	71-55-6	
1,1,2,2-Tetrachloroethane	**<23.5**	ug/kg	64.9	23.5	1	02/23/21 08:00	02/23/21 17:43	79-34-5	
1,1,2-Trichloroethane	**<23.6**	ug/kg	64.9	23.6	1	02/23/21 08:00	02/23/21 17:43	79-00-5	
1,1-Dichloroethane	**<16.6**	ug/kg	64.9	16.6	1	02/23/21 08:00	02/23/21 17:43	75-34-3	
1,1-Dichloroethene	**<21.6**	ug/kg	64.9	21.6	1	02/23/21 08:00	02/23/21 17:43	75-35-4	
1,1-Dichloropropene	**<21.0**	ug/kg	64.9	21.0	1	02/23/21 08:00	02/23/21 17:43	563-58-6	
1,2,3-Trichlorobenzene	**<72.3**	ug/kg	325	72.3	1	02/23/21 08:00	02/23/21 17:43	87-61-6	
1,2,3-Trichloropropane	**<31.6**	ug/kg	64.9	31.6	1	02/23/21 08:00	02/23/21 17:43	96-18-4	
1,2,4-Trichlorobenzene	**<53.5**	ug/kg	325	53.5	1	02/23/21 08:00	02/23/21 17:43	120-82-1	
1,2,4-Trimethylbenzene	**<19.3**	ug/kg	64.9	19.3	1	02/23/21 08:00	02/23/21 17:43	95-63-6	
1,2-Dibromo-3-chloropropane	**<50.4**	ug/kg	325	50.4	1	02/23/21 08:00	02/23/21 17:43	96-12-8	
1,2-Dibromoethane (EDB)	**<17.8**	ug/kg	64.9	17.8	1	02/23/21 08:00	02/23/21 17:43	106-93-4	
1,2-Dichlorobenzene	**<20.1**	ug/kg	64.9	20.1	1	02/23/21 08:00	02/23/21 17:43	95-50-1	
1,2-Dichloroethane	**<14.9**	ug/kg	64.9	14.9	1	02/23/21 08:00	02/23/21 17:43	107-06-2	
1,2-Dichloropropane	**<15.5**	ug/kg	64.9	15.5	1	02/23/21 08:00	02/23/21 17:43	78-87-5	
1,3,5-Trimethylbenzene	**<20.9**	ug/kg	64.9	20.9	1	02/23/21 08:00	02/23/21 17:43	108-67-8	
1,3-Dichlorobenzene	**<17.8**	ug/kg	64.9	17.8	1	02/23/21 08:00	02/23/21 17:43	541-73-1	
1,3-Dichloropropane	**<14.2**	ug/kg	64.9	14.2	1	02/23/21 08:00	02/23/21 17:43	142-28-9	
1,4-Dichlorobenzene	**<17.8**	ug/kg	64.9	17.8	1	02/23/21 08:00	02/23/21 17:43	106-46-7	
2,2-Dichloropropane	**<17.5**	ug/kg	64.9	17.5	1	02/23/21 08:00	02/23/21 17:43	594-20-7	
2-Chlorotoluene	**<21.0**	ug/kg	64.9	21.0	1	02/23/21 08:00	02/23/21 17:43	95-49-8	
4-Chlorotoluene	**<24.7**	ug/kg	64.9	24.7	1	02/23/21 08:00	02/23/21 17:43	106-43-4	
Benzene	**<15.5**	ug/kg	26.0	15.5	1	02/23/21 08:00	02/23/21 17:43	71-43-2	
Bromobenzene	**<25.3**	ug/kg	64.9	25.3	1	02/23/21 08:00	02/23/21 17:43	108-86-1	
Bromochloromethane	**<17.8**	ug/kg	64.9	17.8	1	02/23/21 08:00	02/23/21 17:43	74-97-5	
Bromodichloromethane	**<15.5**	ug/kg	64.9	15.5	1	02/23/21 08:00	02/23/21 17:43	75-27-4	
Bromoform	**<286**	ug/kg	325	286	1	02/23/21 08:00	02/23/21 17:43	75-25-2	
Bromomethane	**<91.0**	ug/kg	325	91.0	1	02/23/21 08:00	02/23/21 17:43	74-83-9	
Carbon tetrachloride	**<14.3**	ug/kg	64.9	14.3	1	02/23/21 08:00	02/23/21 17:43	56-23-5	
Chlorobenzene	**<7.8**	ug/kg	64.9	7.8	1	02/23/21 08:00	02/23/21 17:43	108-90-7	
Chloroethane	**<27.4**	ug/kg	325	27.4	1	02/23/21 08:00	02/23/21 17:43	75-00-3	
Chloroform	**<46.5**	ug/kg	325	46.5	1	02/23/21 08:00	02/23/21 17:43	67-66-3	
Chloromethane	**<24.7**	ug/kg	64.9	24.7	1	02/23/21 08:00	02/23/21 17:43	74-87-3	
Dibromochloromethane	**<222**	ug/kg	325	222	1	02/23/21 08:00	02/23/21 17:43	124-48-1	
Dibromomethane	**<19.2**	ug/kg	64.9	19.2	1	02/23/21 08:00	02/23/21 17:43	74-95-3	
Dichlorodifluoromethane	**<27.9**	ug/kg	64.9	27.9	1	02/23/21 08:00	02/23/21 17:43	75-71-8	
Diisopropyl ether	**<16.1**	ug/kg	64.9	16.1	1	02/23/21 08:00	02/23/21 17:43	108-20-3	
Ethylbenzene	**<15.5**	ug/kg	64.9	15.5	1	02/23/21 08:00	02/23/21 17:43	100-41-4	
Hexachloro-1,3-butadiene	**<129**	ug/kg	325	129	1	02/23/21 08:00	02/23/21 17:43	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-7 4-5 **Lab ID: 40222281011** Collected: 02/18/21 12:25 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<17.5**	ug/kg	64.9	17.5	1	02/23/21 08:00	02/23/21 17:43	98-82-8	
Methyl-tert-butyl ether	**<19.1**	ug/kg	64.9	19.1	1	02/23/21 08:00	02/23/21 17:43	1634-04-4	
Methylene Chloride	**<18.0**	ug/kg	64.9	18.0	1	02/23/21 08:00	02/23/21 17:43	75-09-2	
Naphthalene	**<20.3**	ug/kg	325	20.3	1	02/23/21 08:00	02/23/21 17:43	91-20-3	
Styrene	**<16.6**	ug/kg	64.9	16.6	1	02/23/21 08:00	02/23/21 17:43	100-42-5	
Tetrachloroethene	**<25.2**	ug/kg	64.9	25.2	1	02/23/21 08:00	02/23/21 17:43	127-18-4	
Toluene	**<16.4**	ug/kg	64.9	16.4	1	02/23/21 08:00	02/23/21 17:43	108-88-3	
Trichloroethene	**<24.3**	ug/kg	64.9	24.3	1	02/23/21 08:00	02/23/21 17:43	79-01-6	
Trichlorofluoromethane	**<18.8**	ug/kg	64.9	18.8	1	02/23/21 08:00	02/23/21 17:43	75-69-4	
Vinyl chloride	**<13.1**	ug/kg	64.9	13.1	1	02/23/21 08:00	02/23/21 17:43	75-01-4	
cis-1,2-Dichloroethene	**<13.9**	ug/kg	64.9	13.9	1	02/23/21 08:00	02/23/21 17:43	156-59-2	
cis-1,3-Dichloropropene	**<42.9**	ug/kg	325	42.9	1	02/23/21 08:00	02/23/21 17:43	10061-01-5	
m&p-Xylene	**<27.4**	ug/kg	130	27.4	1	02/23/21 08:00	02/23/21 17:43	179601-23-1	
n-Butylbenzene	**<29.7**	ug/kg	64.9	29.7	1	02/23/21 08:00	02/23/21 17:43	104-51-8	
n-Propylbenzene	**<15.6**	ug/kg	64.9	15.6	1	02/23/21 08:00	02/23/21 17:43	103-65-1	
o-Xylene	**<19.5**	ug/kg	64.9	19.5	1	02/23/21 08:00	02/23/21 17:43	95-47-6	
p-Isopropyltoluene	**<19.7**	ug/kg	64.9	19.7	1	02/23/21 08:00	02/23/21 17:43	99-87-6	
sec-Butylbenzene	**<15.8**	ug/kg	64.9	15.8	1	02/23/21 08:00	02/23/21 17:43	135-98-8	
tert-Butylbenzene	**<20.4**	ug/kg	64.9	20.4	1	02/23/21 08:00	02/23/21 17:43	98-06-6	
trans-1,2-Dichloroethene	**<14.0**	ug/kg	64.9	14.0	1	02/23/21 08:00	02/23/21 17:43	156-60-5	
trans-1,3-Dichloropropene	**<186**	ug/kg	325	186	1	02/23/21 08:00	02/23/21 17:43	10061-02-6	
Surrogates									
Toluene-d8 (S)	106	%	56-140		1	02/23/21 08:00	02/23/21 17:43	2037-26-5	
4-Bromofluorobenzene (S)	104	%	52-137		1	02/23/21 08:00	02/23/21 17:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	123	%	50-150		1	02/23/21 08:00	02/23/21 17:43	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.0**	%	0.10	0.10	1		02/19/21 14:54		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**88.2**	%			1	02/26/21 11:41	02/26/21 11:49		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.726**	mg/kg	2.42	0.726	1	02/25/21 11:08	02/25/21 22:31		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-7 8-10 **Lab ID: 40222281012** Collected: 02/18/21 12:35 Received: 02/18/21 15:21 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Chromium	**27.1**	mg/kg	1.2	0.32	1	02/23/21 05:23	02/24/21 15:45	7440-47-3	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<16.1**	ug/kg	67.0	16.1	1	02/23/21 08:00	02/23/21 18:03	630-20-6	
1,1,1-Trichloroethane	**<17.2**	ug/kg	67.0	17.2	1	02/23/21 08:00	02/23/21 18:03	71-55-6	
1,1,2,2-Tetrachloroethane	**<24.3**	ug/kg	67.0	24.3	1	02/23/21 08:00	02/23/21 18:03	79-34-5	
1,1,2-Trichloroethane	**<24.4**	ug/kg	67.0	24.4	1	02/23/21 08:00	02/23/21 18:03	79-00-5	
1,1-Dichloroethane	**<17.2**	ug/kg	67.0	17.2	1	02/23/21 08:00	02/23/21 18:03	75-34-3	
1,1-Dichloroethene	**<22.2**	ug/kg	67.0	22.2	1	02/23/21 08:00	02/23/21 18:03	75-35-4	
1,1-Dichloropropene	**<21.7**	ug/kg	67.0	21.7	1	02/23/21 08:00	02/23/21 18:03	563-58-6	
1,2,3-Trichlorobenzene	**<74.6**	ug/kg	335	74.6	1	02/23/21 08:00	02/23/21 18:03	87-61-6	
1,2,3-Trichloropropane	**<32.6**	ug/kg	67.0	32.6	1	02/23/21 08:00	02/23/21 18:03	96-18-4	
1,2,4-Trichlorobenzene	**<55.2**	ug/kg	335	55.2	1	02/23/21 08:00	02/23/21 18:03	120-82-1	
1,2,4-Trimethylbenzene	**<20.0**	ug/kg	67.0	20.0	1	02/23/21 08:00	02/23/21 18:03	95-63-6	
1,2-Dibromo-3-chloropropane	**<52.0**	ug/kg	335	52.0	1	02/23/21 08:00	02/23/21 18:03	96-12-8	
1,2-Dibromoethane (EDB)	**<18.4**	ug/kg	67.0	18.4	1	02/23/21 08:00	02/23/21 18:03	106-93-4	
1,2-Dichlorobenzene	**<20.8**	ug/kg	67.0	20.8	1	02/23/21 08:00	02/23/21 18:03	95-50-1	
1,2-Dichloroethane	**<15.4**	ug/kg	67.0	15.4	1	02/23/21 08:00	02/23/21 18:03	107-06-2	
1,2-Dichloropropane	**<15.9**	ug/kg	67.0	15.9	1	02/23/21 08:00	02/23/21 18:03	78-87-5	
1,3,5-Trimethylbenzene	**<21.6**	ug/kg	67.0	21.6	1	02/23/21 08:00	02/23/21 18:03	108-67-8	
1,3-Dichlorobenzene	**<18.4**	ug/kg	67.0	18.4	1	02/23/21 08:00	02/23/21 18:03	541-73-1	
1,3-Dichloropropane	**<14.6**	ug/kg	67.0	14.6	1	02/23/21 08:00	02/23/21 18:03	142-28-9	
1,4-Dichlorobenzene	**<18.4**	ug/kg	67.0	18.4	1	02/23/21 08:00	02/23/21 18:03	106-46-7	
2,2-Dichloropropane	**<18.1**	ug/kg	67.0	18.1	1	02/23/21 08:00	02/23/21 18:03	594-20-7	
2-Chlorotoluene	**<21.7**	ug/kg	67.0	21.7	1	02/23/21 08:00	02/23/21 18:03	95-49-8	
4-Chlorotoluene	**<25.5**	ug/kg	67.0	25.5	1	02/23/21 08:00	02/23/21 18:03	106-43-4	
Benzene	**<15.9**	ug/kg	26.8	15.9	1	02/23/21 08:00	02/23/21 18:03	71-43-2	
Bromobenzene	**<26.1**	ug/kg	67.0	26.1	1	02/23/21 08:00	02/23/21 18:03	108-86-1	
Bromochloromethane	**<18.4**	ug/kg	67.0	18.4	1	02/23/21 08:00	02/23/21 18:03	74-97-5	
Bromodichloromethane	**<15.9**	ug/kg	67.0	15.9	1	02/23/21 08:00	02/23/21 18:03	75-27-4	
Bromoform	**<295**	ug/kg	335	295	1	02/23/21 08:00	02/23/21 18:03	75-25-2	
Bromomethane	**<93.9**	ug/kg	335	93.9	1	02/23/21 08:00	02/23/21 18:03	74-83-9	
Carbon tetrachloride	**<14.7**	ug/kg	67.0	14.7	1	02/23/21 08:00	02/23/21 18:03	56-23-5	
Chlorobenzene	**<8.0**	ug/kg	67.0	8.0	1	02/23/21 08:00	02/23/21 18:03	108-90-7	
Chloroethane	**<28.3**	ug/kg	335	28.3	1	02/23/21 08:00	02/23/21 18:03	75-00-3	
Chloroform	**<48.0**	ug/kg	335	48.0	1	02/23/21 08:00	02/23/21 18:03	67-66-3	
Chloromethane	**<25.5**	ug/kg	67.0	25.5	1	02/23/21 08:00	02/23/21 18:03	74-87-3	
Dibromochloromethane	**<229**	ug/kg	335	229	1	02/23/21 08:00	02/23/21 18:03	124-48-1	
Dibromomethane	**<19.8**	ug/kg	67.0	19.8	1	02/23/21 08:00	02/23/21 18:03	74-95-3	
Dichlorodifluoromethane	**<28.8**	ug/kg	67.0	28.8	1	02/23/21 08:00	02/23/21 18:03	75-71-8	
Diisopropyl ether	**<16.6**	ug/kg	67.0	16.6	1	02/23/21 08:00	02/23/21 18:03	108-20-3	
Ethylbenzene	**<15.9**	ug/kg	67.0	15.9	1	02/23/21 08:00	02/23/21 18:03	100-41-4	
Hexachloro-1,3-butadiene	**<133**	ug/kg	335	133	1	02/23/21 08:00	02/23/21 18:03	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: B-7 8-10 **Lab ID: 40222281012** Collected: 02/18/21 12:35 Received: 02/18/21 15:21 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 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<18.1**	ug/kg	67.0	18.1	1	02/23/21 08:00	02/23/21 18:03	98-82-8	
Methyl-tert-butyl ether	**<19.7**	ug/kg	67.0	19.7	1	02/23/21 08:00	02/23/21 18:03	1634-04-4	
Methylene Chloride	**<18.6**	ug/kg	67.0	18.6	1	02/23/21 08:00	02/23/21 18:03	75-09-2	
Naphthalene	**<20.9**	ug/kg	335	20.9	1	02/23/21 08:00	02/23/21 18:03	91-20-3	
Styrene	**<17.2**	ug/kg	67.0	17.2	1	02/23/21 08:00	02/23/21 18:03	100-42-5	
Tetrachloroethene	**<26.0**	ug/kg	67.0	26.0	1	02/23/21 08:00	02/23/21 18:03	127-18-4	
Toluene	**<16.9**	ug/kg	67.0	16.9	1	02/23/21 08:00	02/23/21 18:03	108-88-3	
Trichloroethene	**<25.1**	ug/kg	67.0	25.1	1	02/23/21 08:00	02/23/21 18:03	79-01-6	
Trichlorofluoromethane	**<19.4**	ug/kg	67.0	19.4	1	02/23/21 08:00	02/23/21 18:03	75-69-4	
Vinyl chloride	**<13.5**	ug/kg	67.0	13.5	1	02/23/21 08:00	02/23/21 18:03	75-01-4	
cis-1,2-Dichloroethene	**<14.3**	ug/kg	67.0	14.3	1	02/23/21 08:00	02/23/21 18:03	156-59-2	
cis-1,3-Dichloropropene	**<44.2**	ug/kg	335	44.2	1	02/23/21 08:00	02/23/21 18:03	10061-01-5	
m&p-Xylene	**<28.3**	ug/kg	134	28.3	1	02/23/21 08:00	02/23/21 18:03	179601-23-1	
n-Butylbenzene	**<30.7**	ug/kg	67.0	30.7	1	02/23/21 08:00	02/23/21 18:03	104-51-8	
n-Propylbenzene	**<16.1**	ug/kg	67.0	16.1	1	02/23/21 08:00	02/23/21 18:03	103-65-1	
o-Xylene	**<20.1**	ug/kg	67.0	20.1	1	02/23/21 08:00	02/23/21 18:03	95-47-6	
p-Isopropyltoluene	**<20.4**	ug/kg	67.0	20.4	1	02/23/21 08:00	02/23/21 18:03	99-87-6	
sec-Butylbenzene	**<16.3**	ug/kg	67.0	16.3	1	02/23/21 08:00	02/23/21 18:03	135-98-8	
tert-Butylbenzene	**<21.0**	ug/kg	67.0	21.0	1	02/23/21 08:00	02/23/21 18:03	98-06-6	
trans-1,2-Dichloroethene	**<14.5**	ug/kg	67.0	14.5	1	02/23/21 08:00	02/23/21 18:03	156-60-5	
trans-1,3-Dichloropropene	**<192**	ug/kg	335	192	1	02/23/21 08:00	02/23/21 18:03	10061-02-6	
Surrogates									
Toluene-d8 (S)	101	%	56-140		1	02/23/21 08:00	02/23/21 18:03	2037-26-5	
4-Bromofluorobenzene (S)	100	%	52-137		1	02/23/21 08:00	02/23/21 18:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	114	%	50-150		1	02/23/21 08:00	02/23/21 18:03	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**14.5**	%	0.10	0.10	1		02/19/21 14:55		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**85.8**	%			1	02/26/21 11:41	02/26/21 11:49		
Wet Chemistry 3060A/7196A	Analytical Method: EPA 7196A Preparation Method: 3060A Pace National - Mt. Juliet								
Chromium, Hexavalent	**<0.746**	mg/kg	2.48	0.746	1	02/25/21 11:01	02/25/21 17:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: PROTOCOL B **Lab ID: 40222281013** Collected: 02/18/21 13:00 Received: 02/18/21 15:21 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
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<17.5**	ug/kg	57.6	17.5	1	02/23/21 06:30	02/26/21 06:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.5**	ug/kg	57.6	17.5	1	02/23/21 06:30	02/26/21 06:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.5**	ug/kg	57.6	17.5	1	02/23/21 06:30	02/26/21 06:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.5**	ug/kg	57.6	17.5	1	02/23/21 06:30	02/26/21 06:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.5**	ug/kg	57.6	17.5	1	02/23/21 06:30	02/26/21 06:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**<17.5**	ug/kg	57.6	17.5	1	02/23/21 06:30	02/26/21 06:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<17.5**	ug/kg	57.6	17.5	1	02/23/21 06:30	02/26/21 06:18	11096-82-5	
PCB, Total	**<17.5**	ug/kg	57.6	17.5	1	02/23/21 06:30	02/26/21 06:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	67-102		1	02/23/21 06:30	02/26/21 06:18	877-09-8	
Decachlorobiphenyl (S)	87	%	47-114		1	02/23/21 06:30	02/26/21 06:18	2051-24-3	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 02/23/21 13:54 Pace Analytical Services - Green Bay								
Arsenic	**<0.0084**	mg/L	0.025	0.0084	1	02/25/21 06:42	02/25/21 16:04	7440-38-2	
Barium	**0.37**	mg/L	0.0050	0.0015	1	02/25/21 06:42	02/25/21 16:04	7440-39-3	
Cadmium	**<0.0013**	mg/L	0.0050	0.0013	1	02/25/21 06:42	02/25/21 16:04	7440-43-9	
Chromium	**<0.0025**	mg/L	0.010	0.0025	1	02/25/21 06:42	02/25/21 16:04	7440-47-3	
Copper	**<0.0034**	mg/L	0.010	0.0034	1	02/25/21 06:42	02/25/21 16:04	7440-50-8	
Lead	**<0.0059**	mg/L	0.020	0.0059	1	02/25/21 06:42	02/25/21 16:04	7439-92-1	
Nickel	**<0.0026**	mg/L	0.010	0.0026	1	02/25/21 06:42	02/25/21 16:04	7440-02-0	
Selenium	**<0.012**	mg/L	0.040	0.012	1	02/25/21 06:42	02/25/21 16:04	7782-49-2	
Silver	**<0.0032**	mg/L	0.010	0.0032	1	02/25/21 06:42	02/25/21 16:04	7440-22-4	
Zinc	**<0.012**	mg/L	0.040	0.012	1	02/25/21 06:42	02/25/21 16:04	7440-66-6	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 02/23/21 13:54 Pace Analytical Services - Green Bay								
Mercury	**0.00017J**	mg/L	0.00020	0.000066	1	02/26/21 07:40	03/01/21 08:39	7439-97-6	M0
8270E MSSV TCLP Sep Funnel	Analytical Method: EPA 8270E Preparation Method: EPA 3510 Leachate Method/Date: EPA 1311; 02/23/21 13:54 Pace Analytical Services - Green Bay								
1,4-Dichlorobenzene	**<0.014**	mg/L	0.050	0.014	1	02/24/21 11:43	02/25/21 10:21	106-46-7	
2,4,5-Trichlorophenol	**<0.0064**	mg/L	0.050	0.0064	1	02/24/21 11:43	02/25/21 10:21	95-95-4	
2,4,6-Trichlorophenol	**<0.0080**	mg/L	0.050	0.0080	1	02/24/21 11:43	02/25/21 10:21	88-06-2	
2,4-Dinitrotoluene	**<0.011**	mg/L	0.050	0.011	1	02/24/21 11:43	02/25/21 10:21	121-14-2	
2-Methylphenol(o-Cresol)	**<0.0093**	mg/L	0.050	0.0093	1	02/24/21 11:43	02/25/21 10:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<0.0061**	mg/L	0.050	0.0061	1	02/24/21 11:43	02/25/21 10:21		
Hexachloro-1,3-butadiene	**<0.017**	mg/L	0.050	0.017	1	02/24/21 11:43	02/25/21 10:21	87-68-3	
Hexachlorobenzene	**<0.011**	mg/L	0.055	0.011	1	02/24/21 11:43	02/25/21 10:21	118-74-1	
Hexachloroethane	**<0.014**	mg/L	0.050	0.014	1	02/24/21 11:43	02/25/21 10:21	67-72-1	
Nitrobenzene	**<0.011**	mg/L	0.050	0.011	1	02/24/21 11:43	02/25/21 10:21	98-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: PROTOCOL B **Lab ID: 40222281013** Collected: 02/18/21 13:00 Received: 02/18/21 15:21 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
8270E MSSV TCLP Sep Funnel	Analytical Method: EPA 8270E Preparation Method: EPA 3510 Leachate Method/Date: EPA 1311; 02/23/21 13:54 Pace Analytical Services - Green Bay								
Pentachlorophenol	**<0.046**	mg/L	0.15	0.046	1	02/24/21 11:43	02/25/21 10:21	87-86-5	
Phenol	**<3.2**	ug/L	50.0	3.2	1	02/24/21 11:43	02/25/21 10:21	108-95-2	
Pyridine	**<0.015**	mg/L	0.050	0.015	1	02/24/21 11:43	02/25/21 10:21	110-86-1	
Surrogates									
Nitrobenzene-d5 (S)	87	%	41-118		1	02/24/21 11:43	02/25/21 10:21	4165-60-0	
2-Fluorobiphenyl (S)	81	%	54-107		1	02/24/21 11:43	02/25/21 10:21	321-60-8	
2,4,6-Tribromophenol (S)	94	%	62-172		1	02/24/21 11:43	02/25/21 10:21	118-79-6	
Phenol-d6 (S)	37	%	12-120		1	02/24/21 11:43	02/25/21 10:21	13127-88-3	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 02/23/21 13:54 Pace Analytical Services - Green Bay								
Benzene	**<0.0025**	mg/L	0.010	0.0025	10		02/24/21 15:28	71-43-2	
2-Butanone (MEK)	**<0.029**	mg/L	0.20	0.029	10		02/24/21 15:28	78-93-3	
Carbon tetrachloride	**<0.016**	mg/L	0.055	0.016	10		02/24/21 15:28	56-23-5	
Chlorobenzene	**<0.0071**	mg/L	0.024	0.0071	10		02/24/21 15:28	108-90-7	
Chloroform	**<0.013**	mg/L	0.050	0.013	10		02/24/21 15:28	67-66-3	
1,2-Dichloroethane	**<0.0028**	mg/L	0.010	0.0028	10		02/24/21 15:28	107-06-2	
1,1-Dichloroethene	**<0.0024**	mg/L	0.010	0.0024	10		02/24/21 15:28	75-35-4	
Tetrachloroethene	**<0.0033**	mg/L	0.011	0.0033	10		02/24/21 15:28	127-18-4	
Trichloroethene	**<0.0026**	mg/L	0.010	0.0026	10		02/24/21 15:28	79-01-6	
Vinyl chloride	**<0.0017**	mg/L	0.010	0.0017	10		02/24/21 15:28	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	70-130		10		02/24/21 15:28	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		10		02/24/21 15:28	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		10		02/24/21 15:28	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.4**	%	0.10	0.10	1		02/19/21 14:55		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010 Pace Analytical Services - Green Bay								
Flashpoint	**>200**	deg F			1		02/22/21 13:53		1q
9045 pH Soil	Analytical Method: EPA 9045 Pace Analytical Services - Green Bay								
pH at 25 Degrees C	**7.95**	Std. Units	0.100	0.0100	1		02/22/21 09:22		H6
9076 Total Chlorine	Analytical Method: EPA 9076 Pace Analytical Services - Asheville								
Chlorine, Total	**0.031**	%	0.010	0.010	1		02/27/21 03:21	7782-50-5	N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Sample: PROTOCOL B **Lab ID: 40222281013** Collected: 02/18/21 13:00 Received: 02/18/21 15:21 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
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095 Pace Analytical Services - Green Bay								
Free Liquids	**Pass**	no units			1		02/23/21 10:23		
Specific Gravity	Analytical Method: SM 2710F Pace Analytical Services - Green Bay								
Specific Gravity	**2.1**	no units			1		02/19/21 15:32		
733C S Reactive Cyanide	Analytical Method: EPA 9014 Preparation Method: SW-846 7.3.3.2 Pace Analytical Services - Greensburg								
Cyanide, Reactive	**<0.46**	mg/kg	1.2	0.46	1	02/24/21 19:56	02/25/21 20:15		
734S Reactive Sulfide	Analytical Method: SM 4500S2F-2011 Preparation Method: SW-846 7.3.4.2 Pace Analytical Services - Greensburg								
Sulfide, Reactive	**<11.5**	mg/kg	11.5	11.5	1	02/24/21 19:56	02/24/21 19:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378498
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281013

METHOD BLANK: 2183506 Matrix: Water
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.000066	0.00020	03/01/21 08:34	

METHOD BLANK: 2182006 Matrix: Water
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.000066	0.00020	03/01/21 09:14	

METHOD BLANK: 2182007 Matrix: Water
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.000066	0.00020	03/01/21 09:07	

LABORATORY CONTROL SAMPLE: 2183507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0048	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2183508 2183509

Parameter	Units	40222281013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00017J	0.005	0.005	0.0060	0.0061	116	118	85-115	2	20	M0

MATRIX SPIKE SAMPLE: 2183510

Parameter	Units	40222248006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.22 ug/L	0.005	0.0065	125	85-115	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

MATRIX SPIKE SAMPLE: 2183511

Parameter	Units	40222332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.000066	0.005	0.0059	119	85-115	M0

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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378133 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281001, 40222281002, 40222281003, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010, 40222281011, 40222281012

METHOD BLANK: 2181777 — Matrix: Solid
Associated Lab Samples: 40222281001, 40222281002, 40222281003, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010, 40222281011, 40222281012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	<0.28	1.0	02/24/21 14:39	

LABORATORY CONTROL SAMPLE: 2181778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	50	51.5	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2181779 2181780

Parameter	Units	40222309001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/kg	31.0	63.6	63.6	92.7	99.7	97	108	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378393
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281013

METHOD BLANK: 2182940 Matrix: Water
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	02/25/21 15:55	
Barium	mg/L	<0.0015	0.0050	02/25/21 15:55	
Cadmium	mg/L	<0.0013	0.0050	02/25/21 15:55	
Chromium	mg/L	<0.0025	0.010	02/25/21 15:55	
Copper	mg/L	<0.0034	0.010	02/25/21 15:55	
Lead	mg/L	<0.0059	0.020	02/25/21 15:55	
Nickel	mg/L	<0.0026	0.010	02/25/21 15:55	
Selenium	mg/L	<0.012	0.040	02/25/21 15:55	
Silver	mg/L	<0.0032	0.010	02/25/21 15:55	
Zinc	mg/L	<0.012	0.040	02/25/21 15:55	

METHOD BLANK: 2182000 Matrix: Solid
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	02/25/21 16:51	
Barium	mg/L	<0.0015	0.0050	02/25/21 16:51	
Cadmium	mg/L	<0.0013	0.0050	02/25/21 16:51	
Chromium	mg/L	<0.0025	0.010	02/25/21 16:51	
Copper	mg/L	<0.0034	0.010	02/25/21 16:51	
Lead	mg/L	0.0072J	0.020	02/25/21 16:51	
Nickel	mg/L	<0.0026	0.010	02/25/21 16:51	
Selenium	mg/L	<0.012	0.040	02/25/21 16:51	
Silver	mg/L	<0.0032	0.010	02/25/21 16:51	
Zinc	mg/L	<0.012	0.040	02/25/21 16:51	

METHOD BLANK: 2182001 Matrix: Solid
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	0.013J	0.025	02/25/21 16:43	
Barium	mg/L	0.0042J	0.0050	02/25/21 16:43	
Cadmium	mg/L	<0.0013	0.0050	02/25/21 16:43	
Chromium	mg/L	0.0027J	0.010	02/25/21 16:43	
Copper	mg/L	<0.0034	0.010	02/25/21 16:43	
Lead	mg/L	<0.0059	0.020	02/25/21 16:43	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

METHOD BLANK: 2182001 Matrix: Solid
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nickel	mg/L	<0.0026	0.010	02/25/21 16:43	
Selenium	mg/L	<0.012	0.040	02/25/21 16:43	
Silver	mg/L	<0.0032	0.010	02/25/21 16:43	
Zinc	mg/L	<0.012	0.040	02/25/21 16:43	

LABORATORY CONTROL SAMPLE: 2182941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.53	107	80-120	
Barium	mg/L	0.5	0.52	104	80-120	
Cadmium	mg/L	0.5	0.52	105	80-120	
Chromium	mg/L	0.5	0.53	106	80-120	
Copper	mg/L	0.5	0.53	107	80-120	
Lead	mg/L	0.5	0.53	107	80-120	
Nickel	mg/L	0.5	0.54	108	80-120	
Selenium	mg/L	0.5	0.54	108	80-120	
Silver	mg/L	0.25	0.26	105	80-120	
Zinc	mg/L	0.5	0.54	109	80-120	

MATRIX SPIKE SAMPLE: 2182942

Parameter	Units	40222248006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0084	0.5	0.59	118	75-125	
Barium	mg/L	0.11	0.5	0.64	106	75-125	
Cadmium	mg/L	<0.0013	0.5	0.56	112	75-125	
Chromium	mg/L	<0.0025	0.5	0.53	105	75-125	
Copper	mg/L	0.0039J	0.5	0.59	117	75-125	
Lead	mg/L	0.078	0.5	0.58	100	75-125	
Nickel	mg/L	<0.0026	0.5	0.51	103	75-125	
Selenium	mg/L	<0.012	0.5	0.60	120	75-125	
Silver	mg/L	<0.0032	0.25	0.30	119	75-125	
Zinc	mg/L	3.0	0.5	3.5	105	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2182943 2182944

Parameter	Units	40222281013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.0084	0.5	0.5	0.57	0.55	112	108	75-125	4	20	
Barium	mg/L	0.37	0.5	0.5	0.90	0.89	106	104	75-125	1	20	
Cadmium	mg/L	<0.0013	0.5	0.5	0.55	0.53	110	107	75-125	4	20	
Chromium	mg/L	<0.0025	0.5	0.5	0.53	0.51	105	101	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2182943 2182944

Parameter	Units	40222281013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	<0.0034	0.5	0.5	0.57	0.54	113	108	75-125	4	20	
Lead	mg/L	<0.0059	0.5	0.5	0.51	0.49	101	97	75-125	4	20	
Nickel	mg/L	<0.0026	0.5	0.5	0.52	0.50	103	100	75-125	4	20	
Selenium	mg/L	<0.012	0.5	0.5	0.57	0.53	113	107	75-125	6	20	
Silver	mg/L	<0.0032	0.25	0.25	0.29	0.28	117	113	75-125	3	20	
Zinc	mg/L	<0.012	0.5	0.5	0.52	0.50	104	100	75-125	4	20	

MATRIX SPIKE SAMPLE: 2182945

Parameter	Units	40222332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0084	0.5	0.54	106	75-125	
Barium	mg/L	2.1	0.5	2.7	104	75-125	
Cadmium	mg/L	<0.0013	0.5	0.52	104	75-125	
Chromium	mg/L	0.079	0.5	0.60	103	75-125	
Copper	mg/L	0.12	0.5	0.67	109	75-125	
Lead	mg/L	0.094	0.5	0.58	98	75-125	
Nickel	mg/L	0.11	0.5	0.61	101	75-125	
Selenium	mg/L	<0.012	0.5	0.54	108	75-125	
Silver	mg/L	<0.0032	0.25	0.28	111	75-125	
Zinc	mg/L	0.65	0.5	1.2	102	75-125	

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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378096
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281002, 40222281003

METHOD BLANK: 2181556 Matrix: Solid
Associated Lab Samples: 40222281002, 40222281003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	02/19/21 13:52	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	02/19/21 13:52	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	02/19/21 13:52	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	02/19/21 13:52	
1,1-Dichloroethane	ug/kg	<12.8	50.0	02/19/21 13:52	
1,1-Dichloroethene	ug/kg	<16.6	50.0	02/19/21 13:52	
1,1-Dichloropropene	ug/kg	<16.2	50.0	02/19/21 13:52	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	02/19/21 13:52	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	02/19/21 13:52	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	02/19/21 13:52	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	02/19/21 13:52	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	02/19/21 13:52	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	02/19/21 13:52	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	02/19/21 13:52	
1,2-Dichloroethane	ug/kg	<11.5	50.0	02/19/21 13:52	
1,2-Dichloropropane	ug/kg	<11.9	50.0	02/19/21 13:52	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	02/19/21 13:52	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	02/19/21 13:52	
1,3-Dichloropropane	ug/kg	<10.9	50.0	02/19/21 13:52	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	02/19/21 13:52	
2,2-Dichloropropane	ug/kg	<13.5	50.0	02/19/21 13:52	
2-Chlorotoluene	ug/kg	<16.2	50.0	02/19/21 13:52	
4-Chlorotoluene	ug/kg	<19.0	50.0	02/19/21 13:52	
Benzene	ug/kg	<11.9	20.0	02/19/21 13:52	
Bromobenzene	ug/kg	<19.5	50.0	02/19/21 13:52	
Bromochloromethane	ug/kg	<13.7	50.0	02/19/21 13:52	
Bromodichloromethane	ug/kg	<11.9	50.0	02/19/21 13:52	
Bromoform	ug/kg	<220	250	02/19/21 13:52	
Bromomethane	ug/kg	<70.1	250	02/19/21 13:52	
Carbon tetrachloride	ug/kg	<11.0	50.0	02/19/21 13:52	
Chlorobenzene	ug/kg	<6.0	50.0	02/19/21 13:52	
Chloroethane	ug/kg	<21.1	250	02/19/21 13:52	
Chloroform	ug/kg	<35.8	250	02/19/21 13:52	
Chloromethane	ug/kg	<19.0	50.0	02/19/21 13:52	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	02/19/21 13:52	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	02/19/21 13:52	
Dibromochloromethane	ug/kg	<171	250	02/19/21 13:52	
Dibromomethane	ug/kg	<14.8	50.0	02/19/21 13:52	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	02/19/21 13:52	
Diisopropyl ether	ug/kg	<12.4	50.0	02/19/21 13:52	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

METHOD BLANK: 2181556 Matrix: Solid
Associated Lab Samples: 40222281002, 40222281003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<11.9	50.0	02/19/21 13:52	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	02/19/21 13:52	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	02/19/21 13:52	
m&p-Xylene	ug/kg	<21.1	100	02/19/21 13:52	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	02/19/21 13:52	
Methylene Chloride	ug/kg	<13.9	50.0	02/19/21 13:52	
n-Butylbenzene	ug/kg	<22.9	50.0	02/19/21 13:52	
n-Propylbenzene	ug/kg	<12.0	50.0	02/19/21 13:52	
Naphthalene	ug/kg	<15.6	250	02/19/21 13:52	
o-Xylene	ug/kg	<15.0	50.0	02/19/21 13:52	
p-Isopropyltoluene	ug/kg	<15.2	50.0	02/19/21 13:52	
sec-Butylbenzene	ug/kg	<12.2	50.0	02/19/21 13:52	
Styrene	ug/kg	<12.8	50.0	02/19/21 13:52	
tert-Butylbenzene	ug/kg	<15.7	50.0	02/19/21 13:52	
Tetrachloroethene	ug/kg	<19.4	50.0	02/19/21 13:52	
Toluene	ug/kg	<12.6	50.0	02/19/21 13:52	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	02/19/21 13:52	
trans-1,3-Dichloropropene	ug/kg	<143	250	02/19/21 13:52	
Trichloroethene	ug/kg	<18.7	50.0	02/19/21 13:52	
Trichlorofluoromethane	ug/kg	<14.5	50.0	02/19/21 13:52	
Vinyl chloride	ug/kg	<10.1	50.0	02/19/21 13:52	
1,2-Dichlorobenzene-d4 (S)	%	104	50-150	02/19/21 13:52	
4-Bromofluorobenzene (S)	%	102	52-137	02/19/21 13:52	
Toluene-d8 (S)	%	102	56-140	02/19/21 13:52	

LABORATORY CONTROL SAMPLE: 2181557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2570	103	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2410	96	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2340	93	70-130	
1,1-Dichloroethane	ug/kg	2500	2840	114	69-143	
1,1-Dichloroethene	ug/kg	2500	2750	110	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2330	93	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2360	95	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2440	97	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2440	98	70-130	
1,2-Dichloroethane	ug/kg	2500	2500	100	70-130	
1,2-Dichloropropane	ug/kg	2500	2330	93	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2400	96	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2490	99	70-130	
Benzene	ug/kg	2500	2450	98	70-130	
Bromodichloromethane	ug/kg	2500	2530	101	70-130	
Bromoform	ug/kg	2500	2590	104	67-130	

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(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

LABORATORY CONTROL SAMPLE: 2181557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2230	89	45-134	
Carbon tetrachloride	ug/kg	2500	2650	106	70-130	
Chlorobenzene	ug/kg	2500	2430	97	70-130	
Chloroethane	ug/kg	2500	2400	96	58-143	
Chloroform	ug/kg	2500	2440	98	76-122	
Chloromethane	ug/kg	2500	2040	82	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2490	100	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2510	100	70-130	
Dibromochloromethane	ug/kg	2500	2480	99	70-130	
Dichlorodifluoromethane	ug/kg	2500	1970	79	26-99	
Ethylbenzene	ug/kg	2500	2460	99	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2530	101	70-130	
m&p-Xylene	ug/kg	5000	4880	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2350	94	70-130	
Methylene Chloride	ug/kg	2500	2360	95	70-130	
o-Xylene	ug/kg	2500	2380	95	70-130	
Styrene	ug/kg	2500	2550	102	70-130	
Tetrachloroethene	ug/kg	2500	2470	99	70-130	
Toluene	ug/kg	2500	2350	94	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2470	99	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2470	99	70-130	
Trichloroethene	ug/kg	2500	2500	100	70-130	
Trichlorofluoromethane	ug/kg	2500	2510	101	70-128	
Vinyl chloride	ug/kg	2500	2230	89	53-110	
1,2-Dichlorobenzene-d4 (S)	%			103	50-150	
4-Bromofluorobenzene (S)	%			104	52-137	
Toluene-d8 (S)	%			103	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2181558 2181559

Parameter	Units	40222280006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<16.1	1250	1250	1160	1210	93	96	66-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	<22.8	1250	1250	1190	1260	95	100	70-133	5	20	
1,1,2-Trichloroethane	ug/kg	<22.9	1250	1250	1180	1270	94	101	70-130	8	20	
1,1-Dichloroethane	ug/kg	<16.1	1250	1250	1420	1390	113	111	69-143	2	20	
1,1-Dichloroethene	ug/kg	<20.9	1250	1250	1130	1190	90	95	58-120	6	20	
1,2,4-Trichlorobenzene	ug/kg	<51.8	1250	1250	1400	1400	111	111	60-130	0	20	
1,2-Dibromo-3-chloropropane	ug/kg	<48.8	1250	1250	1180	1370	94	109	59-136	15	20	
1,2-Dibromoethane (EDB)	ug/kg	<17.2	1250	1250	1290	1310	103	104	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	<19.5	1250	1250	1360	1360	108	108	70-130	0	20	
1,2-Dichloroethane	ug/kg	<14.5	1250	1250	1290	1290	103	103	70-136	0	20	
1,2-Dichloropropane	ug/kg	<15.0	1250	1250	1230	1190	98	95	78-128	3	20	
1,3-Dichlorobenzene	ug/kg	<17.2	1250	1250	1320	1340	105	107	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2181558 2181559

Parameter	Units	40222280006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/kg	<17.2	1250	1250	1330	1410	106	112	70-130	6	20	
Benzene	ug/kg	<15.0	1250	1250	1240	1280	98	102	70-130	3	20	
Bromodichloromethane	ug/kg	<15.0	1250	1250	1250	1260	99	100	70-130	1	20	
Bromoform	ug/kg	<277	1250	1250	1270	1320	101	105	63-130	3	20	
Bromomethane	ug/kg	<88.1	1250	1250	1040	1010	83	81	33-146	2	20	
Carbon tetrachloride	ug/kg	<13.8	1250	1250	1160	1220	92	97	65-130	5	20	
Chlorobenzene	ug/kg	<7.5	1250	1250	1300	1290	103	103	70-130	1	20	
Chloroethane	ug/kg	<26.5	1250	1250	1270	1370	101	109	46-156	7	20	
Chloroform	ug/kg	<45.0	1250	1250	1340	1300	106	104	75-130	3	20	
Chloromethane	ug/kg	<23.9	1250	1250	796	793	63	63	20-139	0	20	
cis-1,2-Dichloroethene	ug/kg	<13.5	1250	1250	1190	1140	95	91	69-130	4	20	
cis-1,3-Dichloropropene	ug/kg	<41.5	1250	1250	1270	1240	101	99	70-130	2	20	
Dibromochloromethane	ug/kg	<215	1250	1250	1270	1280	101	102	70-130	1	20	
Dichlorodifluoromethane	ug/kg	<27.0	1250	1250	478	531	38	42	10-99	10	22	
Ethylbenzene	ug/kg	<15.0	1250	1250	1220	1230	97	98	80-120	2	20	
Isopropylbenzene (Cumene)	ug/kg	<17.0	1250	1250	1240	1280	98	101	70-130	3	20	
m&p-Xylene	ug/kg	<26.5	2520	2520	2480	2470	99	98	70-130	0	20	
Methyl-tert-butyl ether	ug/kg	<18.5	1250	1250	1180	1180	94	94	70-130	0	20	
Methylene Chloride	ug/kg	<17.5	1250	1250	1210	1170	97	93	70-136	4	20	
o-Xylene	ug/kg	<18.9	1250	1250	1270	1240	101	99	70-130	3	20	
Styrene	ug/kg	<16.1	1250	1250	1270	1280	101	102	70-130	1	20	
Tetrachloroethene	ug/kg	<24.4	1250	1250	1210	1180	96	94	68-130	2	20	
Toluene	ug/kg	<15.8	1250	1250	1200	1230	96	98	80-120	2	20	
trans-1,2-Dichloroethene	ug/kg	<13.6	1250	1250	1280	1190	101	95	70-130	7	20	
trans-1,3-Dichloropropene	ug/kg	<180	1250	1250	1260	1230	100	98	70-130	2	20	
Trichloroethene	ug/kg	<23.5	1250	1250	1270	1250	101	100	70-130	1	20	
Trichlorofluoromethane	ug/kg	<18.2	1250	1250	1040	1130	83	90	53-128	8	20	
Vinyl chloride	ug/kg	<12.7	1250	1250	888	950	71	76	32-118	7	20	
1,2-Dichlorobenzene-d4 (S)	%						122	119	50-150			
4-Bromofluorobenzene (S)	%						120	116	52-137			
Toluene-d8 (S)	%						123	117	56-140			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378212
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281001, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010, 40222281011, 40222281012

METHOD BLANK: 2181989
Matrix: Solid
Associated Lab Samples: 40222281001, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010, 40222281011, 40222281012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	02/23/21 13:00	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	02/23/21 13:00	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	02/23/21 13:00	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	02/23/21 13:00	
1,1-Dichloroethane	ug/kg	<12.8	50.0	02/23/21 13:00	
1,1-Dichloroethene	ug/kg	<16.6	50.0	02/23/21 13:00	
1,1-Dichloropropene	ug/kg	<16.2	50.0	02/23/21 13:00	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	02/23/21 13:00	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	02/23/21 13:00	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	02/23/21 13:00	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	02/23/21 13:00	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	02/23/21 13:00	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	02/23/21 13:00	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	02/23/21 13:00	
1,2-Dichloroethane	ug/kg	<11.5	50.0	02/23/21 13:00	
1,2-Dichloropropane	ug/kg	<11.9	50.0	02/23/21 13:00	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	02/23/21 13:00	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	02/23/21 13:00	
1,3-Dichloropropane	ug/kg	<10.9	50.0	02/23/21 13:00	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	02/23/21 13:00	
2,2-Dichloropropane	ug/kg	<13.5	50.0	02/23/21 13:00	
2-Chlorotoluene	ug/kg	<16.2	50.0	02/23/21 13:00	
4-Chlorotoluene	ug/kg	<19.0	50.0	02/23/21 13:00	
Benzene	ug/kg	<11.9	20.0	02/23/21 13:00	
Bromobenzene	ug/kg	<19.5	50.0	02/23/21 13:00	
Bromochloromethane	ug/kg	<13.7	50.0	02/23/21 13:00	
Bromodichloromethane	ug/kg	<11.9	50.0	02/23/21 13:00	
Bromoform	ug/kg	<220	250	02/23/21 13:00	
Bromomethane	ug/kg	<70.1	250	02/23/21 13:00	
Carbon tetrachloride	ug/kg	<11.0	50.0	02/23/21 13:00	
Chlorobenzene	ug/kg	<6.0	50.0	02/23/21 13:00	
Chloroethane	ug/kg	<21.1	250	02/23/21 13:00	
Chloroform	ug/kg	<35.8	250	02/23/21 13:00	
Chloromethane	ug/kg	<19.0	50.0	02/23/21 13:00	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	02/23/21 13:00	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	02/23/21 13:00	
Dibromochloromethane	ug/kg	<171	250	02/23/21 13:00	
Dibromomethane	ug/kg	<14.8	50.0	02/23/21 13:00	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	02/23/21 13:00	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

METHOD BLANK: 2181989 Matrix: Solid

Associated Lab Samples: 40222281001, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010, 40222281011, 40222281012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	<12.4	50.0	02/23/21 13:00	
Ethylbenzene	ug/kg	<11.9	50.0	02/23/21 13:00	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	02/23/21 13:00	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	02/23/21 13:00	
m&p-Xylene	ug/kg	<21.1	100	02/23/21 13:00	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	02/23/21 13:00	
Methylene Chloride	ug/kg	<13.9	50.0	02/23/21 13:00	
n-Butylbenzene	ug/kg	<22.9	50.0	02/23/21 13:00	
n-Propylbenzene	ug/kg	<12.0	50.0	02/23/21 13:00	
Naphthalene	ug/kg	<15.6	250	02/23/21 13:00	
o-Xylene	ug/kg	<15.0	50.0	02/23/21 13:00	
p-Isopropyltoluene	ug/kg	<15.2	50.0	02/23/21 13:00	
sec-Butylbenzene	ug/kg	<12.2	50.0	02/23/21 13:00	
Styrene	ug/kg	<12.8	50.0	02/23/21 13:00	
tert-Butylbenzene	ug/kg	<15.7	50.0	02/23/21 13:00	
Tetrachloroethene	ug/kg	<19.4	50.0	02/23/21 13:00	
Toluene	ug/kg	<12.6	50.0	02/23/21 13:00	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	02/23/21 13:00	
trans-1,3-Dichloropropene	ug/kg	<143	250	02/23/21 13:00	
Trichloroethene	ug/kg	<18.7	50.0	02/23/21 13:00	
Trichlorofluoromethane	ug/kg	<14.5	50.0	02/23/21 13:00	
Vinyl chloride	ug/kg	<10.1	50.0	02/23/21 13:00	
1,2-Dichlorobenzene-d4 (S)	%	89	50-150	02/23/21 13:00	
4-Bromofluorobenzene (S)	%	78	52-137	02/23/21 13:00	
Toluene-d8 (S)	%	77	56-140	02/23/21 13:00	

LABORATORY CONTROL SAMPLE: 2181990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2350	94	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	1990	80	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2180	87	70-130	
1,1-Dichloroethane	ug/kg	2500	2380	95	69-143	
1,1-Dichloroethene	ug/kg	2500	2310	92	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2010	80	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1830	73	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2150	86	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2320	93	70-130	
1,2-Dichloroethane	ug/kg	2500	2330	93	70-130	
1,2-Dichloropropane	ug/kg	2500	2240	90	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2340	94	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2360	95	70-130	
Benzene	ug/kg	2500	2300	92	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

LABORATORY CONTROL SAMPLE: 2181990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/kg	2500	2310	92	70-130	
Bromoform	ug/kg	2500	2170	87	67-130	
Bromomethane	ug/kg	2500	2160	86	45-134	
Carbon tetrachloride	ug/kg	2500	2470	99	70-130	
Chlorobenzene	ug/kg	2500	2380	95	70-130	
Chloroethane	ug/kg	2500	2170	87	58-143	
Chloroform	ug/kg	2500	2380	95	76-122	
Chloromethane	ug/kg	2500	2010	80	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2310	92	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2370	95	70-130	
Dibromochloromethane	ug/kg	2500	2370	95	70-130	
Dichlorodifluoromethane	ug/kg	2500	1920	77	26-99	
Ethylbenzene	ug/kg	2500	2280	91	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2260	90	70-130	
m&p-Xylene	ug/kg	5000	4540	91	70-130	
Methyl-tert-butyl ether	ug/kg	2500	1970	79	70-130	
Methylene Chloride	ug/kg	2500	2400	96	70-130	
o-Xylene	ug/kg	2500	2260	90	70-130	
Styrene	ug/kg	2500	2340	94	70-130	
Tetrachloroethene	ug/kg	2500	2350	94	70-130	
Toluene	ug/kg	2500	2310	93	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2430	97	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2160	86	70-130	
Trichloroethene	ug/kg	2500	2450	98	70-130	
Trichlorofluoromethane	ug/kg	2500	2320	93	70-128	
Vinyl chloride	ug/kg	2500	2050	82	53-110	
1,2-Dichlorobenzene-d4 (S)	%			104	50-150	
4-Bromofluorobenzene (S)	%			88	52-137	
Toluene-d8 (S)	%			89	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2181991 2181992

Parameter	Units	40222281004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<16.9	1320	1320	1100	1250	83	95	66-130	12	20	
1,1,2,2-Tetrachloroethane	ug/kg	<23.9	1320	1320	1160	1160	88	88	70-133	1	20	
1,1,2-Trichloroethane	ug/kg	<24.0	1320	1320	1130	1220	86	93	70-130	8	20	
1,1-Dichloroethane	ug/kg	<16.9	1320	1320	1260	1330	96	101	69-143	6	20	
1,1-Dichloroethene	ug/kg	<21.9	1320	1320	950	1180	72	90	58-120	22	20	R1
1,2,4-Trichlorobenzene	ug/kg	<54.4	1320	1320	1310	1320	100	100	60-130	0	20	
1,2-Dibromo-3-chloropropane	ug/kg	<51.2	1320	1320	1060	1040	81	79	59-136	3	20	
1,2-Dibromoethane (EDB)	ug/kg	<18.1	1320	1320	1280	1310	97	99	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	<20.4	1320	1320	1320	1310	100	100	70-130	0	20	
1,2-Dichloroethane	ug/kg	<15.2	1320	1320	1250	1310	95	100	70-136	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2181991 2181992

Parameter	Units	40222281004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/kg	<15.7	1320	1320	1260	1300	95	99	78-128	3	20	
1,3-Dichlorobenzene	ug/kg	<18.1	1320	1320	1330	1370	101	104	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	<18.1	1320	1320	1390	1390	105	105	70-130	0	20	
Benzene	ug/kg	<15.7	1320	1320	1200	1300	91	98	70-130	8	20	
Bromodichloromethane	ug/kg	<15.7	1320	1320	1230	1270	93	96	70-130	4	20	
Bromoform	ug/kg	<290	1320	1320	1170	1150	89	87	63-130	2	20	
Bromomethane	ug/kg	<92.5	1320	1320	1210	1310	91	99	33-146	8	20	
Carbon tetrachloride	ug/kg	<14.5	1320	1320	1040	1250	79	95	65-130	18	20	
Chlorobenzene	ug/kg	<7.9	1320	1320	1320	1390	100	105	70-130	5	20	
Chloroethane	ug/kg	<27.8	1320	1320	1260	1360	96	103	46-156	7	20	
Chloroform	ug/kg	<47.2	1320	1320	1290	1350	98	103	75-130	5	20	
Chloromethane	ug/kg	<25.1	1320	1320	1220	1370	93	104	20-139	12	20	
cis-1,2-Dichloroethene	ug/kg	<14.1	1320	1320	1300	1340	99	102	69-130	3	20	
cis-1,3-Dichloropropene	ug/kg	<43.5	1320	1320	1270	1280	96	97	70-130	1	20	
Dibromochloromethane	ug/kg	<225	1320	1320	1240	1280	94	97	70-130	3	20	
Dichlorodifluoromethane	ug/kg	<28.4	1320	1320	875	1610	66	122	10-99	59	22	M1,R1
Ethylbenzene	ug/kg	<15.7	1320	1320	1190	1270	90	96	80-120	7	20	
Isopropylbenzene (Cumene)	ug/kg	<17.8	1320	1320	1170	1300	88	99	70-130	11	20	
m&p-Xylene	ug/kg	<27.8	2640	2640	2470	2650	94	100	70-130	7	20	
Methyl-tert-butyl ether	ug/kg	<19.4	1320	1320	1090	1170	83	89	70-130	7	20	
Methylene Chloride	ug/kg	<18.3	1320	1320	1260	1360	96	103	70-136	8	20	
o-Xylene	ug/kg	<19.8	1320	1320	1250	1250	95	94	70-130	1	20	
Styrene	ug/kg	<16.9	1320	1320	1310	1320	99	100	70-130	1	20	
Tetrachloroethene	ug/kg	<25.6	1320	1320	1110	1190	85	90	68-130	7	20	
Toluene	ug/kg	<16.6	1320	1320	1210	1270	91	96	80-120	5	20	
trans-1,2-Dichloroethene	ug/kg	<14.2	1320	1320	1240	1310	94	99	70-130	5	20	
trans-1,3-Dichloropropene	ug/kg	<189	1320	1320	1210	1240	92	94	70-130	2	20	
Trichloroethene	ug/kg	<24.7	1320	1320	1190	1340	90	102	70-130	12	20	
Trichlorofluoromethane	ug/kg	<19.1	1320	1320	875	1310	66	100	53-128	40	20	R1
Vinyl chloride	ug/kg	<13.3	1320	1320	1040	1270	79	96	32-118	20	20	
1,2-Dichlorobenzene-d4 (S)	%						118	113	50-150			
4-Bromofluorobenzene (S)	%						102	102	52-137			
Toluene-d8 (S)	%						102	102	56-140			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378307
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281013

METHOD BLANK: 2182429 Matrix: Water
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	<0.00024	0.0010	02/24/21 08:21	
1,2-Dichloroethane	mg/L	<0.00028	0.0010	02/24/21 08:21	
2-Butanone (MEK)	mg/L	<0.0029	0.020	02/24/21 08:21	
Benzene	mg/L	<0.00025	0.0010	02/24/21 08:21	
Carbon tetrachloride	mg/L	<0.0016	0.0055	02/24/21 08:21	
Chlorobenzene	mg/L	<0.00071	0.0024	02/24/21 08:21	
Chloroform	mg/L	<0.0013	0.0050	02/24/21 08:21	
Tetrachloroethene	mg/L	<0.00033	0.0011	02/24/21 08:21	
Trichloroethene	mg/L	<0.00026	0.0010	02/24/21 08:21	
Vinyl chloride	mg/L	<0.00017	0.0010	02/24/21 08:21	
4-Bromofluorobenzene (S)	%	95	70-130	02/24/21 08:21	
Dibromofluoromethane (S)	%	94	70-130	02/24/21 08:21	
Toluene-d8 (S)	%	96	70-130	02/24/21 08:21	

METHOD BLANK: 2182012 Matrix: Solid
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	<0.0024	0.010	02/24/21 11:07	
1,2-Dichloroethane	mg/L	<0.0028	0.010	02/24/21 11:07	
2-Butanone (MEK)	mg/L	<0.029	0.20	02/24/21 11:07	
Benzene	mg/L	<0.0025	0.010	02/24/21 11:07	
Carbon tetrachloride	mg/L	<0.016	0.055	02/24/21 11:07	
Chlorobenzene	mg/L	<0.0071	0.024	02/24/21 11:07	
Chloroform	mg/L	<0.013	0.050	02/24/21 11:07	
Tetrachloroethene	mg/L	<0.0033	0.011	02/24/21 11:07	
Trichloroethene	mg/L	<0.0026	0.010	02/24/21 11:07	
Vinyl chloride	mg/L	<0.0017	0.010	02/24/21 11:07	
4-Bromofluorobenzene (S)	%	96	70-130	02/24/21 11:07	
Dibromofluoromethane (S)	%	94	70-130	02/24/21 11:07	
Toluene-d8 (S)	%	100	70-130	02/24/21 11:07	

LABORATORY CONTROL SAMPLE: 2182430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/L	0.05	0.056	112	77-123	
1,2-Dichloroethane	mg/L	0.05	0.046	93	78-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

LABORATORY CONTROL SAMPLE: 2182430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/L	0.05	0.052	103	70-130	
Carbon tetrachloride	mg/L	0.05	0.055	111	70-132	
Chlorobenzene	mg/L	0.05	0.049	98	70-130	
Chloroform	mg/L	0.05	0.050	100	75-132	
Tetrachloroethene	mg/L	0.05	0.048	96	70-130	
Trichloroethene	mg/L	0.05	0.051	101	70-130	
Vinyl chloride	mg/L	0.05	0.057	113	51-140	
4-Bromofluorobenzene (S)	%			95	70-130	
Dibromofluoromethane (S)	%			107	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2182458 2182459

Parameter	Units	40222247003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	mg/L	<2.4 ug/L	0.5	0.5	0.59	0.58	119	115	77-129	3	20	
1,2-Dichloroethane	mg/L	<2.8 ug/L	0.5	0.5	0.43	0.48	87	96	78-145	10	20	
Benzene	mg/L	<2.5 ug/L	0.5	0.5	0.52	0.53	104	105	70-130	2	20	
Carbon tetrachloride	mg/L	<16.4 ug/L	0.5	0.5	0.54	0.55	109	110	70-142	2	20	
Chlorobenzene	mg/L	<7.1 ug/L	0.5	0.5	0.52	0.53	104	107	70-130	2	20	
Chloroform	mg/L	<12.7 ug/L	0.5	0.5	0.50	0.53	101	105	75-133	4	20	
Tetrachloroethene	mg/L	<3.3 ug/L	0.5	0.5	0.49	0.50	99	101	70-130	2	20	
Trichloroethene	mg/L	<2.6 ug/L	0.5	0.5	0.53	0.52	106	104	70-130	2	20	
Vinyl chloride	mg/L	<1.7 ug/L	0.5	0.5	0.59	0.56	117	113	51-140	4	20	
4-Bromofluorobenzene (S)	%						97	96	70-130			
Dibromofluoromethane (S)	%						97	101	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378193
QC Batch Method: EPA 3541
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281013

METHOD BLANK: 2181944 Matrix: Solid
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	02/24/21 04:40	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	02/24/21 04:40	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	02/24/21 04:40	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	02/24/21 04:40	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	02/24/21 04:40	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	02/24/21 04:40	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	02/24/21 04:40	
Decachlorobiphenyl (S)	%	82	47-114	02/24/21 04:40	
Tetrachloro-m-xylene (S)	%	83	67-102	02/24/21 04:40	

LABORATORY CONTROL SAMPLE: 2181945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	445	89	69-115	
Decachlorobiphenyl (S)	%			87	47-114	
Tetrachloro-m-xylene (S)	%			86	67-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2181946 2181947

Parameter	Units	40222313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<0.016 mg/kg			<15.7	<15.7					20	
PCB-1221 (Aroclor 1221)	ug/kg	<0.016 mg/kg			<15.7	<15.7					20	
PCB-1232 (Aroclor 1232)	ug/kg	<0.016 mg/kg			<15.7	<15.7					20	
PCB-1242 (Aroclor 1242)	ug/kg	<0.016 mg/kg			<15.7	<15.7					20	
PCB-1248 (Aroclor 1248)	ug/kg	<0.016 mg/kg			<15.7	<15.7					20	
PCB-1254 (Aroclor 1254)	ug/kg	<0.016 mg/kg			<15.7	<15.7					20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2181946 2181947

Parameter	Units	40222313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1260 (Aroclor 1260)	ug/kg	<0.016 mg/kg	517	517	398	398	77	77	45-120	0	20	
Decachlorobiphenyl (S)	%						77	78	47-114			
Tetrachloro-m-xylene (S)	%						77	78	67-102			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378341
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E
Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281013

METHOD BLANK: 2182523 Matrix: Water
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	mg/L	<0.0029	0.010	02/25/21 08:35	
2,4,5-Trichlorophenol	mg/L	<0.0013	0.010	02/25/21 08:35	
2,4,6-Trichlorophenol	mg/L	<0.0016	0.010	02/25/21 08:35	
2,4-Dinitrotoluene	mg/L	<0.0021	0.010	02/25/21 08:35	
2-Methylphenol(o-Cresol)	mg/L	<0.0019	0.010	02/25/21 08:35	
3&4-Methylphenol(m&p Cresol)	mg/L	<0.0012	0.010	02/25/21 08:35	
Hexachloro-1,3-butadiene	mg/L	<0.0033	0.010	02/25/21 08:35	
Hexachlorobenzene	mg/L	<0.0023	0.011	02/25/21 08:35	
Hexachloroethane	mg/L	<0.0028	0.010	02/25/21 08:35	
Nitrobenzene	mg/L	<0.0021	0.010	02/25/21 08:35	
Pentachlorophenol	mg/L	<0.0091	0.030	02/25/21 08:35	
Phenol	ug/L	<0.64	10.0	02/25/21 08:35	
Pyridine	mg/L	<0.0030	0.010	02/25/21 08:35	
2,4,6-Tribromophenol (S)	%	90	62-172	02/25/21 08:35	
2-Fluorobiphenyl (S)	%	80	54-107	02/25/21 08:35	
Nitrobenzene-d5 (S)	%	85	41-118	02/25/21 08:35	
Phenol-d6 (S)	%	34	12-120	02/25/21 08:35	

METHOD BLANK: 2182005 Matrix: Water
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	mg/L	<0.014	0.050	02/25/21 08:56	
2,4,5-Trichlorophenol	mg/L	<0.0064	0.050	02/25/21 08:56	
2,4,6-Trichlorophenol	mg/L	<0.0080	0.050	02/25/21 08:56	
2,4-Dinitrotoluene	mg/L	<0.011	0.050	02/25/21 08:56	
2-Methylphenol(o-Cresol)	mg/L	<0.0093	0.050	02/25/21 08:56	
3&4-Methylphenol(m&p Cresol)	mg/L	<0.0061	0.050	02/25/21 08:56	
Hexachloro-1,3-butadiene	mg/L	<0.017	0.050	02/25/21 08:56	
Hexachlorobenzene	mg/L	<0.011	0.055	02/25/21 08:56	
Hexachloroethane	mg/L	<0.014	0.050	02/25/21 08:56	
Nitrobenzene	mg/L	<0.011	0.050	02/25/21 08:56	
Pentachlorophenol	mg/L	<0.046	0.15	02/25/21 08:56	
Phenol	ug/L	<3.2	50.0	02/25/21 08:56	
Pyridine	mg/L	<0.015	0.050	02/25/21 08:56	
2,4,6-Tribromophenol (S)	%	94	62-172	02/25/21 08:56	
2-Fluorobiphenyl (S)	%	80	54-107	02/25/21 08:56	
Nitrobenzene-d5 (S)	%	89	41-118	02/25/21 08:56	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

METHOD BLANK: 2182005 Matrix: Water
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenol-d6 (S)	%	37	12-120	02/25/21 08:56	

LABORATORY CONTROL SAMPLE: 2182524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/L	0.05	0.031	63	46-89	
2,4,5-Trichlorophenol	mg/L	0.05	0.051	102	60-122	
2,4,6-Trichlorophenol	mg/L	0.05	0.050	99	59-119	
2,4-Dinitrotoluene	mg/L	0.05	0.058	117	70-130	
2-Methylphenol(o-Cresol)	mg/L	0.05	0.041	81	47-130	
3&4-Methylphenol(m&p Cresol)	mg/L	0.05	0.036	73	43-130	
Hexachloro-1,3-butadiene	mg/L	0.05	0.032	65	51-103	
Hexachlorobenzene	mg/L	0.05	0.052	104	70-130	
Hexachloroethane	mg/L	0.05	0.026	52	35-102	
Nitrobenzene	mg/L	0.05	0.050	99	70-130	
Pentachlorophenol	mg/L	0.05	0.049	99	53-101	
Phenol	ug/L	50	21.7	43	28-120	
Pyridine	mg/L	0.05	0.032	64	10-130	
2,4,6-Tribromophenol (S)	%			103	62-172	
2-Fluorobiphenyl (S)	%			92	54-107	
Nitrobenzene-d5 (S)	%			89	41-118	
Phenol-d6 (S)	%			38	12-120	

MATRIX SPIKE SAMPLE: 2182525

Parameter	Units	40222329001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/L	<72.0 ug/L	0.25	0.16J	63	46-99	D3
2,4,5-Trichlorophenol	mg/L	<32.2 ug/L	0.25	0.22J	88	24-139	
2,4,6-Trichlorophenol	mg/L	<39.9 ug/L	0.25	0.21J	83	18-131	
2,4-Dinitrotoluene	mg/L	<53.0 ug/L	0.25	0.24J	98	22-158	
2-Methylphenol(o-Cresol)	mg/L	<46.5 ug/L	0.25	0.17J	69	29-130	
3&4-Methylphenol(m&p Cresol)	mg/L	172J ug/L	0.25	0.35	70	19-130	
Hexachloro-1,3-butadiene	mg/L	<82.6 ug/L	0.25	0.17J	67	51-113	
Hexachlorobenzene	mg/L	<57.4 ug/L	0.25	0.24J	96	70-130	
Hexachloroethane	mg/L	<71.0 ug/L	0.25	0.13J	53	35-102	
Nitrobenzene	mg/L	<53.7 ug/L	0.25	0.23J	92	51-130	
Pentachlorophenol	mg/L	<228 ug/L	0.25	<0.23	75	10-200	
Phenol	ug/L	<16.0	250	98.5J	38	14-120	
Pyridine	mg/L	<75.6 ug/L	0.25	0.20J	80	10-130	
2,4,6-Tribromophenol (S)	%				91	62-172	
2-Fluorobiphenyl (S)	%				87	54-107	
Nitrobenzene-d5 (S)	%				87	41-118	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

MATRIX SPIKE SAMPLE: 2182525

Parameter	Units	40222329001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%				35	12-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378102
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281001, 40222281002, 40222281003, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008

SAMPLE DUPLICATE: 2181592

Parameter	Units	40222290001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.3	6.1	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378111
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281009, 40222281010, 40222281011, 40222281012, 40222281013

SAMPLE DUPLICATE: 2181699

Parameter	Units	40222281010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.6	14.4	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378165
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40222281013

LABORATORY CONTROL SAMPLE: 2181860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		81.0			

SAMPLE DUPLICATE: 2181909

Parameter	Units	40222281013 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>200	>200			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 1625165 — Analysis Method: SM 2540G
QC Batch Method: SM 2540 G — Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 40222281001, 40222281002, 40222281003, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010

METHOD BLANK: R3626014-1 — Matrix: Solid
Associated Lab Samples: 40222281001, 40222281002, 40222281003, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		02/28/21 14:53	

LABORATORY CONTROL SAMPLE: R3626014-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3626014-3

Parameter	Units	40222281001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	90.2	92.8	2.77	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 1625167
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 40222281011, 40222281012

METHOD BLANK: R3625669-1 Matrix: Solid
Associated Lab Samples: 40222281011, 40222281012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		02/26/21 11:49	

LABORATORY CONTROL SAMPLE: R3625669-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3625669-3

Parameter	Units	L1318820-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	100	100	0.0106	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 1625518 — Analysis Method: EPA 7196A
QC Batch Method: 3060A — Analysis Description: Wet Chemistry 3060A/7196A
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 40222281001, 40222281002, 40222281003, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010, 40222281011

METHOD BLANK: R3625306-1 — Matrix: Solid
Associated Lab Samples: 40222281001, 40222281002, 40222281003, 40222281004, 40222281005, 40222281006, 40222281007, 40222281008, 40222281009, 40222281010, 40222281011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	<0.640	2.13	02/25/21 22:26	

LABORATORY CONTROL SAMPLE: R3625306-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	24.0	23.4	97.7	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3625306-4 R3625306-5

Parameter	Units	L1319540-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	20.0	20.0	9.63	10.0	48.2	50.2	75.0-125	4.12	20	ML

MATRIX SPIKE SAMPLE: R3625306-6

Parameter	Units	L1319540-01 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	654	475	72.6	75.0-125	ML

SAMPLE DUPLICATE: R3625306-3

Parameter	Units	L1318706-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	1.24	1.44J	14.9	20	J

SAMPLE DUPLICATE: R3625306-8

Parameter	Units	L1319540-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	2.08	<0.640	200	20	D8

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 1625528
QC Batch Method: 3060A
Analysis Method: EPA 7196A
Analysis Description: Wet Chemistry 3060A/7196A
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 40222281012

METHOD BLANK: R3625241-1 Matrix: Solid
Associated Lab Samples: 40222281012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	<0.640	2.13	02/25/21 17:26	

LABORATORY CONTROL SAMPLE: R3625241-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	24.0	22.2	92.3	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3625241-5 R3625241-6

Parameter	Units	L1318902-06 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	27.3	27.3	<0.873	<0.873	0.00	0.00	75.0-125	0.00	20	ML

MATRIX SPIKE SAMPLE: R3625241-7

Parameter	Units	L1318902-06 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	931	652	95.4	75.0-125	

SAMPLE DUPLICATE: R3625241-3

Parameter	Units	40222281012 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	<0.640	0.00	20	

SAMPLE DUPLICATE: R3625241-4

Parameter	Units	L1318902-05 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	<0.842	0.00	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378140
QC Batch Method: EPA 9045
Analysis Method: EPA 9045
Analysis Description: 9045 pH
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40222281013

SAMPLE DUPLICATE: 2181795

Parameter	Units	40222281013 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.95	8.04	1	5	H6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 603102
QC Batch Method: EPA 9076
Analysis Method: EPA 9076
Analysis Description: 9076 Total Chlorine
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 40222281013

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3177751 3177752

Parameter	Units	92524129002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorine, Total	%	ND	0.05	0.05	0.039	0.037	78	73	80-120	6	20	M0,N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378232
QC Batch Method: EPA 9095
Analysis Method: EPA 9095
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222281013

METHOD BLANK: 2182054 Matrix: Solid
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Free Liquids	no units	Fail		02/23/21 10:17	

LABORATORY CONTROL SAMPLE: 2182055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Free Liquids	no units		Pass			

SAMPLE DUPLICATE: 2182056

Parameter	Units	40222298001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 378113
QC Batch Method: SM 2710F
Analysis Method: SM 2710F
Analysis Description: Spec.Gravity
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40222281013

SAMPLE DUPLICATE: 2181704

Parameter	Units	40222281013 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Gravity	no units	2.1	2.2	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 436215
QC Batch Method: SW-846 7.3.3.2
Analysis Method: EPA 9014
Analysis Description: 733C Reactive Cyanide
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 40222281013

METHOD BLANK: 2105305 Matrix: Solid
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	<0.40	1.0	02/25/21 20:10	

LABORATORY CONTROL SAMPLE: 2105306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	100	<0.40	0	0-8	

SAMPLE DUPLICATE: 2105307

Parameter	Units	30407261001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	<0.67		20	H3

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

QC Batch: 436214
QC Batch Method: SW-846 7.3.4.2
Analysis Method: SM 4500S2F-2011
Analysis Description: 734S Reactive Sulfide
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 40222281013

METHOD BLANK: 2105300 Matrix: Solid
Associated Lab Samples: 40222281013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	<10	10	02/24/21 19:57	

LABORATORY CONTROL SAMPLE: 2105301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	200	20.0	10	0-52	

SAMPLE DUPLICATE: 2105302

Parameter	Units	30407261001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	<16.8		20	H3

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

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.

SAMPLE QUALIFIERS

Sample: 40222281013

[1]	Sample container used for ZHE had headspace.

ANALYTE QUALIFIERS

1q	Use of method EPA 1010A for flash point analysis on solid samples is for informational purposes only. It is the user's responsibility to verify the acceptance of this data for intended use.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D8	The sample and duplicate results for this parameter are less than 5 times the reporting limit, the RPD may not be statistically valid.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40222281013	**PROTOCOL B**	EPA 3541	378193	EPA 8082	378196
40222281001	**B-1 4-5**	EPA 3050	378133	EPA 6010	378310
40222281002	**B-1 8-10**	EPA 3050	378133	EPA 6010	378310
40222281003	**B-2 4-5**	EPA 3050	378133	EPA 6010	378310
40222281004	**B-2 8-10**	EPA 3050	378133	EPA 6010	378310
40222281005	**B-4 4-5**	EPA 3050	378133	EPA 6010	378310
40222281006	**B-4 8-10**	EPA 3050	378133	EPA 6010	378310
40222281007	**B-5 4-5**	EPA 3050	378133	EPA 6010	378310
40222281008	**B-5 8-10**	EPA 3050	378133	EPA 6010	378310
40222281009	**B-6 4-5**	EPA 3050	378133	EPA 6010	378310
40222281010	**B-6 8-10**	EPA 3050	378133	EPA 6010	378310
40222281011	**B-7 4-5**	EPA 3050	378133	EPA 6010	378310
40222281012	**B-7 8-10**	EPA 3050	378133	EPA 6010	378310
40222281013	**PROTOCOL B**	EPA 3010	378393	EPA 6010	378461
40222281013	**PROTOCOL B**	EPA 7470	378498	EPA 7470	378515
40222281013	**PROTOCOL B**	EPA 3510	378341	EPA 8270E	378372
40222281001	**B-1 4-5**	EPA 5035/5030B	378212	EPA 8260	378215
40222281002	**B-1 8-10**	EPA 5035/5030B	378096	EPA 8260	378097
40222281003	**B-2 4-5**	EPA 5035/5030B	378096	EPA 8260	378097
40222281004	**B-2 8-10**	EPA 5035/5030B	378212	EPA 8260	378215
40222281005	**B-4 4-5**	EPA 5035/5030B	378212	EPA 8260	378215
40222281006	**B-4 8-10**	EPA 5035/5030B	378212	EPA 8260	378215
40222281007	**B-5 4-5**	EPA 5035/5030B	378212	EPA 8260	378215
40222281008	**B-5 8-10**	EPA 5035/5030B	378212	EPA 8260	378215
40222281009	**B-6 4-5**	EPA 5035/5030B	378212	EPA 8260	378215
40222281010	**B-6 8-10**	EPA 5035/5030B	378212	EPA 8260	378215
40222281011	**B-7 4-5**	EPA 5035/5030B	378212	EPA 8260	378215
40222281012	**B-7 8-10**	EPA 5035/5030B	378212	EPA 8260	378215
40222281013	**PROTOCOL B**	EPA 8260	378307		
40222281001	**B-1 4-5**	ASTM D2974-87	378102		
40222281002	**B-1 8-10**	ASTM D2974-87	378102		
40222281003	**B-2 4-5**	ASTM D2974-87	378102		
40222281004	**B-2 8-10**	ASTM D2974-87	378102		
40222281005	**B-4 4-5**	ASTM D2974-87	378102		
40222281006	**B-4 8-10**	ASTM D2974-87	378102		
40222281007	**B-5 4-5**	ASTM D2974-87	378102		
40222281008	**B-5 8-10**	ASTM D2974-87	378102		
40222281009	**B-6 4-5**	ASTM D2974-87	378111		
40222281010	**B-6 8-10**	ASTM D2974-87	378111		
40222281011	**B-7 4-5**	ASTM D2974-87	378111		
40222281012	**B-7 8-10**	ASTM D2974-87	378111		
40222281013	**PROTOCOL B**	ASTM D2974-87	378111		
40222281013	**PROTOCOL B**	EPA 1010	378165		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40222281001	**B-1 4-5**	SM 2540 G	1625165	SM 2540G	1625165
40222281002	**B-1 8-10**	SM 2540 G	1625165	SM 2540G	1625165
40222281003	**B-2 4-5**	SM 2540 G	1625165	SM 2540G	1625165
40222281004	**B-2 8-10**	SM 2540 G	1625165	SM 2540G	1625165
40222281005	**B-4 4-5**	SM 2540 G	1625165	SM 2540G	1625165
40222281006	**B-4 8-10**	SM 2540 G	1625165	SM 2540G	1625165
40222281007	**B-5 4-5**	SM 2540 G	1625165	SM 2540G	1625165
40222281008	**B-5 8-10**	SM 2540 G	1625165	SM 2540G	1625165
40222281009	**B-6 4-5**	SM 2540 G	1625165	SM 2540G	1625165
40222281010	**B-6 8-10**	SM 2540 G	1625165	SM 2540G	1625165
40222281011	**B-7 4-5**	SM 2540 G	1625167	SM 2540G	1625167
40222281012	**B-7 8-10**	SM 2540 G	1625167	SM 2540G	1625167
40222281001	**B-1 4-5**	3060A	1625518	EPA 7196A	1625518
40222281002	**B-1 8-10**	3060A	1625518	EPA 7196A	1625518
40222281003	**B-2 4-5**	3060A	1625518	EPA 7196A	1625518
40222281004	**B-2 8-10**	3060A	1625518	EPA 7196A	1625518
40222281005	**B-4 4-5**	3060A	1625518	EPA 7196A	1625518
40222281006	**B-4 8-10**	3060A	1625518	EPA 7196A	1625518
40222281007	**B-5 4-5**	3060A	1625518	EPA 7196A	1625518
40222281008	**B-5 8-10**	3060A	1625518	EPA 7196A	1625518
40222281009	**B-6 4-5**	3060A	1625518	EPA 7196A	1625518
40222281010	**B-6 8-10**	3060A	1625518	EPA 7196A	1625518
40222281011	**B-7 4-5**	3060A	1625518	EPA 7196A	1625518
40222281012	**B-7 8-10**	3060A	1625528	EPA 7196A	1625528
40222281013	**PROTOCOL B**	EPA 9045	378140		
40222281013	**PROTOCOL B**	EPA 9076	603102		
40222281013	**PROTOCOL B**	EPA 9095	378232		
40222281013	**PROTOCOL B**	SM 2710F	378113		
40222281013	**PROTOCOL B**	SW-846 7.3.3.2	436215	EPA 9014	436264
40222281013	**PROTOCOL B**	SW-846 7.3.4.2	436214	SM 4500S2F-2011	436263

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40222281

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Westwood
Branch/Location:	Appleton WI
Project Contact:	Dan O'Connell
Phone:	920 735-6900
Project Number:	R3001170.00-003
Project Name:	Meade St
Project State:	WI
Sampled By (Print):	Quin Lenz
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Dan O'Connell
Mail To Company:	Westwood
Mail To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Contact:	SAME
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	920 735-6900

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: VOC	Chromium, % moisture	Hexavalent chromium	Protocol B
	FILTERED? (YES/NO)				N	N	N	
	PRESERVATION (CODE)*				F	A	A	
001	B-1 4-5	2/15/21	10:43	S	X	X	X	
002	B-1 8-10		10:47		X	X	X	
003	B-2 4-5		10:05		X	X	X	
004	B-2 8-10		10:10		X	X	X	
005	B-4 4-5		10:35		X	X	X	
006	B-4 8-10		10:39		X	X	X	
007	B-5 4-5		11:08		X	X	X	
008	B-5 8-10		11:14		X	X	X	
009	B-6 4-5		12:01		X	X	X	
010	B-6 8-10		12:04		X	X	X	
011	B-7 4-5		12:25		X	X	X	
012	B-7 8-10		12:35		X	X	X	
013	Protocol B	2/18/21	13:00	S				X

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

@Samples collected 2-18-21 per PM. MRL 2-18-21

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	2/18/21 15:21		2-18-21 1521
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.: 40222281

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / ~~Not Present~~ Intact / ~~Not Intact~~

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Westwood Project # 40222281

All containers needing preservation have been checked and noted below: □Yes □No ~~N/A~~ Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001																		2		2												2.5 / 5 / 10
002																		2		2												2.5 / 5 / 10
003																		2		2												2.5 / 5 / 10
004																		2		2												2.5 / 5 / 10
005																		2		2												2.5 / 5 / 10
006																		2		2												2.5 / 5 / 10
007																		2		2												2.5 / 5 / 10
008																		2		2												2.5 / 5 / 10
009																		2		2												2.5 / 5 / 10
010																		2		2												2.5 / 5 / 10
011																		2		2												2.5 / 5 / 10
012																		2		2												2.5 / 5 / 10
013																				6												2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : □Yes □No ~~N/A~~ ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	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)

Project #: WO# : 40222281

Client Name: Westwood

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☒ Client ☐ Pace Other: _____

Tracking #: _____

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 - n/a **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: hot /Corr: _____

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 2-18-21 /Initials: MR

Labeled By Initials: NN

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:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5. Samples collected 2-18-21 per PM.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time: MR 2-18-21
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☒Yes ☐No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: S	☐Yes ☒No ☐N/A	12. Date "2/18/21" 001-012. 005+006 have times "11:35" + "11:39". 013 time "12:40".
Trip Blank Present:	☐Yes ☒No ☐N/A	13. 001(1)JGFU date "21 121" MR 2-18-21
Trip Blank Custody Seals Present	☐Yes ☐No ☒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: _____

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

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: WI
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 2/18/2021 Results Requested By: 3/4/2021

Workorder: 40222281 **Workorder Name:** R3001170.00-003 MEADE ST

Report To	Subcontract To
Tod Noltemeyer Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Hexavalent Chromium	LAB USE ONLY
1	B-1 4-5	PS	2/18/2021 10:43	40222281001	Solid	1	X	L1318712-01
2	B-1 8-10	PS	2/18/2021 10:47	40222281002	Solid	1	X	02
3	B-2 4-5	PS	2/18/2021 10:05	40222281003	Solid	1	X	03
4	B-2 8-10	PS	2/18/2021 10:10	40222281004	Solid	1	X	04
5	B-4 4-5	PS	2/18/2021 10:35	40222281005	Solid	1	X	05
6	B-4 8-10	PS	2/18/2021 10:39	40222281006	Solid	1	X	06
7	B-5 4-5	PS	2/18/2021 11:08	40222281007	Solid	1	X	07
8	B-5 8-10	PS	2/18/2021 11:14	40222281008	Solid	1	X	08
9	B-6 4-5	PS	2/18/2021 12:01	40222281009	Solid	1	X	09
10	B-6 8-10	PS	2/18/2021 12:04	40222281010	Solid	1	X	10
11	B-7 4-5	PS	2/18/2021 12:25	40222281011	Solid	1	X	11
12	B-7 8-10	PS	2/18/2021 12:35	40222281012	Solid	1	X	12

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	2/22/21 1600		
2				
3			Patricia Michael 2-23-21 1000	

Comments

Cooler Temperature on Receipt _____ °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

1.5-.1=1.4 YYY

J149

Friday, February 19, 2021 11:14:53 AM

Sample Receipt Checklist
COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: Y N VOA Zero Headspace: Y N
Bottles arrive intact: Y N Pres.Correct/Check: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 18, 2021

Daniel O'Connell
Westwood
ONE SYSTEMS DRIVE
Appleton, WI 54914

RE: Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Dear Daniel O'Connell:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 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,

Tod Noltemeyer

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

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40222574001	**210225 TRIP BLANK**	Water	02/25/21 14:00	02/26/21 10:00
40222574002	**TW-1**	Water	02/25/21 14:00	02/26/21 10:00
40222574003	**TW-1**	Water	02/26/21 09:00	02/26/21 10:00

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40222574001	**210225 TRIP BLANK**	EPA 8260	LAP	64
40222574002	**TW-1**	EPA 8260	LAP	64
		SM 3500-Cr B (Online)	HNT	1
40222574003	**TW-1**	EPA 6010	TXW	1

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Sample: 210225 TRIP BLANK **Lab ID: 40222574001** Collected: 02/25/21 14:00 Received: 02/26/21 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		03/01/21 12:30	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/01/21 12:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		03/01/21 12:30	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		03/01/21 12:30	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		03/01/21 12:30	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		03/01/21 12:30	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		03/01/21 12:30	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		03/01/21 12:30	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		03/01/21 12:30	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		03/01/21 12:30	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		03/01/21 12:30	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		03/01/21 12:30	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		03/01/21 12:30	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/01/21 12:30	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/01/21 12:30	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		03/01/21 12:30	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		03/01/21 12:30	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		03/01/21 12:30	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		03/01/21 12:30	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		03/01/21 12:30	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		03/01/21 12:30	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		03/01/21 12:30	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		03/01/21 12:30	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		03/01/21 12:30	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		03/01/21 12:30	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		03/01/21 12:30	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		03/01/21 12:30	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		03/01/21 12:30	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		03/01/21 12:30	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		03/01/21 12:30	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/01/21 12:30	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		03/01/21 12:30	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		03/01/21 12:30	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		03/01/21 12:30	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		03/01/21 12:30	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		03/01/21 12:30	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		03/01/21 12:30	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		03/01/21 12:30	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		03/01/21 12:30	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		03/01/21 12:30	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		03/01/21 12:30	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		03/01/21 12:30	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		03/01/21 12:30	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		03/01/21 12:30	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		03/01/21 12:30	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Sample: 210225 TRIP BLANK **Lab ID: 40222574001** Collected: 02/25/21 14:00 Received: 02/26/21 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		03/01/21 12:30	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		03/01/21 12:30	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/01/21 12:30	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		03/01/21 12:30	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/01/21 12:30	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		03/01/21 12:30	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		03/01/21 12:30	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		03/01/21 12:30	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		03/01/21 12:30	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		03/01/21 12:30	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		03/01/21 12:30	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		03/01/21 12:30	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		03/01/21 12:30	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		03/01/21 12:30	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		03/01/21 12:30	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		03/01/21 12:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/01/21 12:30	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		03/01/21 12:30	1868-53-7	
Toluene-d8 (S)	110	%	70-130		1		03/01/21 12:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Sample: TW-1 **Lab ID: 40222574002** Collected: 02/25/21 14:00 Received: 02/26/21 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		03/01/21 17:55	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/01/21 17:55	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		03/01/21 17:55	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		03/01/21 17:55	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		03/01/21 17:55	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		03/01/21 17:55	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		03/01/21 17:55	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		03/01/21 17:55	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		03/01/21 17:55	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		03/01/21 17:55	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		03/01/21 17:55	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		03/01/21 17:55	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		03/01/21 17:55	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/01/21 17:55	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/01/21 17:55	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		03/01/21 17:55	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		03/01/21 17:55	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		03/01/21 17:55	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		03/01/21 17:55	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		03/01/21 17:55	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		03/01/21 17:55	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		03/01/21 17:55	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		03/01/21 17:55	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		03/01/21 17:55	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		03/01/21 17:55	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		03/01/21 17:55	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		03/01/21 17:55	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		03/01/21 17:55	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		03/01/21 17:55	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		03/01/21 17:55	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/01/21 17:55	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		03/01/21 17:55	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		03/01/21 17:55	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		03/01/21 17:55	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		03/01/21 17:55	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		03/01/21 17:55	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		03/01/21 17:55	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		03/01/21 17:55	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		03/01/21 17:55	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		03/01/21 17:55	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		03/01/21 17:55	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		03/01/21 17:55	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		03/01/21 17:55	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		03/01/21 17:55	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		03/01/21 17:55	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Sample: TW-1 **Lab ID: 40222574002** Collected: 02/25/21 14:00 Received: 02/26/21 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		03/01/21 17:55	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		03/01/21 17:55	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/01/21 17:55	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		03/01/21 17:55	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/01/21 17:55	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		03/01/21 17:55	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		03/01/21 17:55	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		03/01/21 17:55	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		03/01/21 17:55	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		03/01/21 17:55	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		03/01/21 17:55	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		03/01/21 17:55	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		03/01/21 17:55	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		03/01/21 17:55	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		03/01/21 17:55	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		03/01/21 17:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/01/21 17:55	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		03/01/21 17:55	1868-53-7	
Toluene-d8 (S)	109	%	70-130		1		03/01/21 17:55	2037-26-5	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
	Pace Analytical Services - Green Bay								
Chromium, Hexavalent	**2.2**	mg/L	0.12	0.037	5		02/26/21 12:55		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Sample: TW-1 **Lab ID: 40222574003** Collected: 02/26/21 09:00 Received: 02/26/21 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Chromium, Dissolved	**3290**	ug/L	500	127	50	03/04/21 06:41	03/08/21 18:35	7440-47-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

QC Batch: 378919
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222574003

METHOD BLANK: 2185862 Matrix: Water
Associated Lab Samples: 40222574003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	<2.5	10.0	03/05/21 18:02	

LABORATORY CONTROL SAMPLE: 2185863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2185864 2185865

Parameter	Units	40222653005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Dissolved	ug/L	44.2	500	500	529	524	97	96	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

QC Batch: 378560
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222574001, 40222574002

METHOD BLANK: 2184168 Matrix: Water
Associated Lab Samples: 40222574001, 40222574002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	03/01/21 10:22	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	03/01/21 10:22	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	03/01/21 10:22	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	03/01/21 10:22	
1,1-Dichloroethane	ug/L	<0.27	1.0	03/01/21 10:22	
1,1-Dichloroethene	ug/L	<0.24	1.0	03/01/21 10:22	
1,1-Dichloropropene	ug/L	<0.54	1.8	03/01/21 10:22	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	03/01/21 10:22	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	03/01/21 10:22	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	03/01/21 10:22	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	03/01/21 10:22	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	03/01/21 10:22	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	03/01/21 10:22	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	03/01/21 10:22	
1,2-Dichloroethane	ug/L	<0.28	1.0	03/01/21 10:22	
1,2-Dichloropropane	ug/L	<0.28	1.0	03/01/21 10:22	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	03/01/21 10:22	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	03/01/21 10:22	
1,3-Dichloropropane	ug/L	<0.83	2.8	03/01/21 10:22	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	03/01/21 10:22	
2,2-Dichloropropane	ug/L	<2.3	7.6	03/01/21 10:22	
2-Chlorotoluene	ug/L	<0.93	5.0	03/01/21 10:22	
4-Chlorotoluene	ug/L	<0.76	2.5	03/01/21 10:22	
Benzene	ug/L	<0.25	1.0	03/01/21 10:22	
Bromobenzene	ug/L	<0.24	1.0	03/01/21 10:22	
Bromochloromethane	ug/L	<0.36	5.0	03/01/21 10:22	
Bromodichloromethane	ug/L	<0.36	1.2	03/01/21 10:22	
Bromoform	ug/L	<4.0	13.2	03/01/21 10:22	
Bromomethane	ug/L	<0.97	5.0	03/01/21 10:22	
Carbon tetrachloride	ug/L	<1.1	3.6	03/01/21 10:22	
Chlorobenzene	ug/L	<0.71	2.4	03/01/21 10:22	
Chloroethane	ug/L	<1.3	5.0	03/01/21 10:22	
Chloroform	ug/L	<1.3	5.0	03/01/21 10:22	
Chloromethane	ug/L	<2.2	7.3	03/01/21 10:22	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	03/01/21 10:22	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	03/01/21 10:22	
Dibromochloromethane	ug/L	<2.6	8.7	03/01/21 10:22	
Dibromomethane	ug/L	<0.94	3.1	03/01/21 10:22	
Dichlorodifluoromethane	ug/L	<0.50	5.0	03/01/21 10:22	
Diisopropyl ether	ug/L	<1.9	6.3	03/01/21 10:22	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

METHOD BLANK: 2184168 Matrix: Water
Associated Lab Samples: 40222574001, 40222574002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	03/01/21 10:22	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	03/01/21 10:22	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	03/01/21 10:22	
m&p-Xylene	ug/L	<0.47	2.0	03/01/21 10:22	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	03/01/21 10:22	
Methylene Chloride	ug/L	<0.58	5.0	03/01/21 10:22	
n-Butylbenzene	ug/L	<0.71	2.4	03/01/21 10:22	
n-Propylbenzene	ug/L	<0.81	5.0	03/01/21 10:22	
Naphthalene	ug/L	<1.2	5.0	03/01/21 10:22	
o-Xylene	ug/L	<0.26	1.0	03/01/21 10:22	
p-Isopropyltoluene	ug/L	<0.80	2.7	03/01/21 10:22	
sec-Butylbenzene	ug/L	<0.85	5.0	03/01/21 10:22	
Styrene	ug/L	<3.0	10.0	03/01/21 10:22	
tert-Butylbenzene	ug/L	<0.30	1.0	03/01/21 10:22	
Tetrachloroethene	ug/L	<0.33	1.1	03/01/21 10:22	
Toluene	ug/L	<0.27	1.0	03/01/21 10:22	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	03/01/21 10:22	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	03/01/21 10:22	
Trichloroethene	ug/L	<0.26	1.0	03/01/21 10:22	
Trichlorofluoromethane	ug/L	<0.21	1.0	03/01/21 10:22	
Vinyl chloride	ug/L	<0.17	1.0	03/01/21 10:22	
4-Bromofluorobenzene (S)	%	106	70-130	03/01/21 10:22	
Dibromofluoromethane (S)	%	119	70-130	03/01/21 10:22	
Toluene-d8 (S)	%	111	70-130	03/01/21 10:22	

LABORATORY CONTROL SAMPLE: 2184169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.2	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.1	108	66-130	
1,1,2-Trichloroethane	ug/L	50	51.6	103	70-130	
1,1-Dichloroethane	ug/L	50	58.3	117	68-132	
1,1-Dichloroethene	ug/L	50	45.2	90	85-126	
1,2,4-Trichlorobenzene	ug/L	50	47.0	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	48.1	96	70-130	
1,2-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,2-Dichloroethane	ug/L	50	52.9	106	70-130	
1,2-Dichloropropane	ug/L	50	53.9	108	78-125	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,4-Dichlorobenzene	ug/L	50	51.9	104	70-130	
Benzene	ug/L	50	55.4	111	70-132	
Bromodichloromethane	ug/L	50	54.2	108	70-130	
Bromoform	ug/L	50	46.7	93	65-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

LABORATORY CONTROL SAMPLE: 2184169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	48.9	98	44-128	
Carbon tetrachloride	ug/L	50	59.0	118	70-130	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	49.8	100	73-137	
Chloroform	ug/L	50	56.3	113	80-122	
Chloromethane	ug/L	50	48.3	97	27-148	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.9	108	70-130	
Dibromochloromethane	ug/L	50	49.1	98	70-130	
Dichlorodifluoromethane	ug/L	50	48.1	96	22-151	
Ethylbenzene	ug/L	50	54.6	109	80-123	
Isopropylbenzene (Cumene)	ug/L	50	55.1	110	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	48.8	98	66-130	
Methylene Chloride	ug/L	50	54.2	108	70-130	
o-Xylene	ug/L	50	53.0	106	70-130	
Styrene	ug/L	50	53.2	106	70-130	
Tetrachloroethene	ug/L	50	50.5	101	70-130	
Toluene	ug/L	50	53.6	107	80-121	
trans-1,2-Dichloroethene	ug/L	50	54.2	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.9	104	58-125	
Trichloroethene	ug/L	50	56.9	114	70-130	
Trichlorofluoromethane	ug/L	50	52.2	104	84-148	
Vinyl chloride	ug/L	50	47.7	95	63-142	
4-Bromofluorobenzene (S)	%			117	70-130	
Dibromofluoromethane (S)	%			117	70-130	
Toluene-d8 (S)	%			112	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2184571 2184572

Parameter	Units	40222637015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	58.1	57.6	116	115	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	57.8	55.5	116	111	66-130	4	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.4	50.0	103	100	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	58.1	58.0	116	116	68-132	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	46.0	45.3	92	91	76-132	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	46.5	46.1	93	92	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	49.3	51.9	99	104	51-126	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.1	47.0	96	94	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.3	51.4	103	103	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	57.4	52.2	115	104	70-130	10	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	54.9	52.4	110	105	77-125	5	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.0	52.1	104	104	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2184571 2184572

Parameter	Units	40222637015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.4	51.1	101	102	70-130	2	20	
Benzene	ug/L	<0.25	50	50	54.3	55.3	109	111	70-132	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	55.6	53.1	111	106	70-130	5	20	
Bromoform	ug/L	<4.0	50	50	47.5	45.8	95	92	65-130	4	20	
Bromomethane	ug/L	<0.97	50	50	47.9	52.3	96	105	44-128	9	21	
Carbon tetrachloride	ug/L	<1.1	50	50	60.2	59.4	120	119	70-132	1	20	
Chlorobenzene	ug/L	<0.71	50	50	52.0	50.9	104	102	70-130	2	20	
Chloroethane	ug/L	<1.3	50	50	50.2	49.7	100	99	70-137	1	20	
Chloroform	ug/L	<1.3	50	50	56.5	55.8	113	112	80-122	1	20	
Chloromethane	ug/L	<2.2	50	50	48.7	48.1	97	96	17-149	1	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.3	52.6	103	105	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	54.9	54.0	110	108	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.5	47.7	97	95	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	47.9	48.7	96	97	22-158	2	20	
Ethylbenzene	ug/L	<0.32	50	50	54.1	53.2	108	106	80-123	2	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	53.7	53.9	107	108	70-130	0	20	
m&p-Xylene	ug/L	<0.47	100	100	103	102	103	102	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	49.1	47.7	98	95	66-130	3	20	
Methylene Chloride	ug/L	<0.58	50	50	54.3	53.3	109	107	70-130	2	20	
o-Xylene	ug/L	<0.26	50	50	51.9	50.9	104	102	70-130	2	20	
Styrene	ug/L	<3.0	50	50	52.2	51.0	104	102	70-130	2	20	
Tetrachloroethene	ug/L	<0.33	50	50	50.5	50.4	101	101	70-130	0	20	
Toluene	ug/L	<0.27	50	50	54.4	52.6	109	105	80-121	3	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	53.9	54.4	108	109	70-134	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	51.9	51.0	104	102	58-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	57.4	54.4	115	109	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	52.1	52.4	104	105	82-151	1	20	
Vinyl chloride	ug/L	<0.17	50	50	47.9	48.3	96	97	61-143	1	20	
4-Bromofluorobenzene (S)	%						112	113	70-130			
Dibromofluoromethane (S)	%						117	113	70-130			
Toluene-d8 (S)	%						113	111	70-130			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

QC Batch: 378532
QC Batch Method: SM 3500-Cr B (Online)
Analysis Method: SM 3500-Cr B (Online)
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222574002

METHOD BLANK: 2183709 Matrix: Water
Associated Lab Samples: 40222574002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0073	0.024	02/26/21 12:54	

LABORATORY CONTROL SAMPLE: 2183710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.3	0.32	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2183711 2183712

Parameter	Units	40222577001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	<0.0073	0.3	0.3	0.070	0.073	23	24	90-110	4	20	M0

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

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.

ANALYTE QUALIFIERS

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R3001170.00-003 MEADE ST
Pace Project No.: 40222574

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40222574003	**TW-1**	EPA 3010	378919	EPA 6010	378976
40222574001	**210225 TRIP BLANK**	EPA 8260	378560		
40222574002	**TW-1**	EPA 8260	378560		
40222574002	**TW-1**	SM 3500-Cr B (Online)	378532		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

4022257L

(Please Print Clearly)	
Company Name:	Westwood
Branch/Location:	Appleton WI
Project Contact:	Dan O'Connell
Phone:	920 735-6900
Project Number:	R3001170.00 -003
Project Name:	Meade St
Project State:	WI
Sampled By (Print):	Quin Lentz
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Dan O'Connell
Mail To Company:	Westwood
Mail To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Contact:	Dan O'Connell
Invoice To Company:	Westwood
Invoice To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Phone:	920 735-6900

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	Hexavalent Chromium	PFAS	Chromium
001	210225 Trip Blank	2/25/21	2:00	W	N	B	X			
002	TW-1	2/25/21	2:00	GW	N	A	X	X	X	
003	TW-1	2/26/21	9:00	GW	N	A				X

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	2/26/21 10:00	Nicole Hackl Pace	2/26/21 1000

PACE Project No. 4022257L

Receipt Temp = 8.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

C019a(27Jun2006)

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Westwood

Project # 40222574

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A

Lab Lot# of pH paper: 10D4194

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: NW

Date/ Time:

Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	Glass								Plastic					Vials						Jars				General									
001																																	2.5 / 5 / 10
002										3							3																2.5 / 5 / 10
003												1																			X		2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
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019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

2/24/21 NW

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:________ Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A *If yes look in headspace column

Code	Description
AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres
BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4
VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI
JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	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)

Project #:

WO#: 40222574

40222574

Client Name: Westwood

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☑ Client ☐ Pace Other: _____

Tracking #: _____

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 - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RDT /Corr: _____

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 2/24/21 /Initials: KN

Labeled By Initials: SKW

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:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 459		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Report of Analysis

Pace Analytical Services, LLC
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Attention: Tod Noltemeyer

Project Name: R3001170.00-003 Meade St.

Project Number: 40222574

Lot Number:**WC02012**

Date Completed:03/17/2021

03/17/2021 10:12 PM
Approved and released by:
Project Manager II: **Karen L. Coonan**

Case Narrative
Pace Analytical Services, LLC
Lot Number: WC02012

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Summary
Pace Analytical Services, LLC
Lot Number: WC02012
Project Name: R3001170.00-003 Meade St.
Project Number: 40222574

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	TW-1	Aqueous	02/25/2021 1400	03/02/2021

(1 sample)

Detection Summary

Pace Analytical Services, LLC

Lot Number: WC02012

Project Name: R3001170.00-003 Meade St.

Project Number: 40222574

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	TW-1	Aqueous	PFBS	PFAS by ID	19		ng/L	5
001	TW-1	Aqueous	PFHxS	PFAS by ID	6.6		ng/L	5
001	TW-1	Aqueous	PFBA	PFAS by ID	80		ng/L	5
001	TW-1	Aqueous	PFDA	PFAS by ID	1.6	J	ng/L	6
001	TW-1	Aqueous	PFHpA	PFAS by ID	23		ng/L	6
001	TW-1	Aqueous	PFHxA	PFAS by ID	21		ng/L	6
001	TW-1	Aqueous	PFNA	PFAS by ID	15		ng/L	6
001	TW-1	Aqueous	PFOA	PFAS by ID	52		ng/L	6
001	TW-1	Aqueous	PFPeA	PFAS by ID	15		ng/L	6
001	TW-1	Aqueous	PFOS	PFAS by ID	21		ng/L	6

(10 detections)

PFAS by LC/MS/MS

Client: Pace Analytical Services, LLC
Laboratory ID: WC02012-001
Description: TW-1
Matrix: Aqueous
Date Sampled: 02/25/2021 1400
Project Name: R3001170.00-003 Meade St.
Date Received: 03/02/2021
Project Number: 40222574

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/09/2021 1654	MMM	03/03/2021 1117	84514

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		16	3.9	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	19		3.9	0.97	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	6.6		3.9	0.97	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	80		3.9	0.97	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	1.6	J	3.9	0.97	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	23		3.9	0.97	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	21		3.9	0.97	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	15		3.9	0.97	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.8	1.9	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	52		3.9	0.97	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	15		3.9	0.97	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.9	0.97	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	21		3.9	0.97	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		147	25-150
13C2_6:2FTS		112	25-150
13C2_8:2FTS		82	25-150
13C2_PFDoA		88	25-150
13C2_PFHxDA		89	25-150
13C2_PFTeDA		84	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: Pace Analytical Services, LLC | Laboratory ID: WC02012-001
Description: TW-1 | Matrix: Aqueous
Date Sampled: 02/25/2021 1400 | Project Name: R3001170.00-003 Meade St.
Date Received: 03/02/2021 | Project Number: 40222574

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		98	25-150
13C3_PFHxS		106	25-150
13C3-HFPO-DA		95	25-150
13C4_PFBA		90	25-150
13C4_PFHpA		81	25-150
13C5_PFHxA		115	25-150
13C5_PFPeA		97	25-150
13C6_PFDA		94	25-150
13C7_PFUdA		91	25-150
13C8_PFOA		104	25-150
13C8_PFOS		96	25-150
13C8_PFOSA		87	10-150
13C9_PFNA		96	25-150
d-EtFOSA		73	10-150
d5-EtFOSAA		81	25-150
d9-EtFOSE		72	10-150
d-MeFOSA		78	10-150
d3-MeFOSAA		84	25-150
d7-MeFOSE		82	10-150

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

QC Summary

PFAS by LC/MS/MS - MB

Sample ID: WQ84514-001
Batch: 84514
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/03/2021 1117

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
9Cl-PF3ONS	ND		1	8.0	2.0	ng/L	03/09/2021 1415
11Cl-PF3OUdS	ND		1	8.0	2.0	ng/L	03/09/2021 1415
8:2 FTS	ND		1	8.0	2.0	ng/L	03/09/2021 1415
6:2 FTS	ND		1	8.0	2.0	ng/L	03/09/2021 1415
10:2 FTS	ND		1	8.0	2.0	ng/L	03/09/2021 1415
4:2 FTS	ND		1	8.0	2.0	ng/L	03/09/2021 1415
GenX	ND		1	8.0	2.0	ng/L	03/09/2021 1415
ADONA	ND		1	8.0	2.0	ng/L	03/09/2021 1415
EtFOSA	ND		1	8.0	2.0	ng/L	03/09/2021 1415
EtFOSAA	ND		1	8.0	2.0	ng/L	03/09/2021 1415
EtFOSE	ND		1	8.0	2.0	ng/L	03/09/2021 1415
MeFOSA	ND		1	16	4.0	ng/L	03/09/2021 1415
MeFOSAA	ND		1	8.0	2.0	ng/L	03/09/2021 1415
MeFOSE	ND		1	8.0	2.0	ng/L	03/09/2021 1415
PFBS	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFDS	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFHpS	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFNS	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFOSA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFPeS	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFDOS	ND		1	8.0	2.0	ng/L	03/09/2021 1415
PFHxS	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFBA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFDA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFDoA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFHpA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFHxDA	ND		1	8.0	2.0	ng/L	03/09/2021 1415
PFHxA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFNA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFODA	ND		1	8.0	2.0	ng/L	03/09/2021 1415
PFOA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFPeA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFTeDA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFTrDA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFUdA	ND		1	4.0	1.0	ng/L	03/09/2021 1415
PFOS	ND		1	4.0	1.0	ng/L	03/09/2021 1415

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		76	25-150
13C2_6:2FTS		97	25-150
13C2_8:2FTS		75	25-150
13C2_PFDoA		82	25-150
13C2_PFHxDA		93	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: WQ84514-001
Batch: 84514
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/03/2021 1117

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		94	25-150
13C3_PFBS		88	25-150
13C3_PFHxS		97	25-150
13C3-HFPO-DA		101	25-150
13C4_PFBA		95	25-150
13C4_PFHpA		96	25-150
13C5_PFHxA		111	25-150
13C5_PFPeA		95	25-150
13C6_PFDA		90	25-150
13C7_PFUdA		90	25-150
13C8_PFOA		102	25-150
13C8_PFOS		95	25-150
13C8_PFOSA		86	10-150
13C9_PFNA		104	25-150
d-EtFOSA		73	10-150
d5-EtFOSAA		88	25-150
d9-EtFOSE		90	10-150
d-MeFOSA		84	10-150
d3-MeFOSAA		85	25-150
d7-MeFOSE		102	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ84514-002
Batch: 84514
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/03/2021 1117

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
9Cl-PF3ONS	15	14		1	97	50-150	03/09/2021 1426
11Cl-PF3OUdS	15	15		1	101	50-150	03/09/2021 1426
8:2 FTS	15	15		1	95	50-150	03/09/2021 1426
6:2 FTS	15	14		1	94	50-150	03/09/2021 1426
10:2 FTS	15	14		1	88	50-150	03/09/2021 1426
4:2 FTS	15	18		1	121	50-150	03/09/2021 1426
GenX	32	30		1	94	50-150	03/09/2021 1426
ADONA	15	17		1	111	50-150	03/09/2021 1426
EtFOSA	16	16		1	102	50-150	03/09/2021 1426
EtFOSAA	16	17		1	105	50-150	03/09/2021 1426
EtFOSE	16	15		1	96	50-150	03/09/2021 1426
MeFOSA	16	16		1	99	50-150	03/09/2021 1426
MeFOSAA	16	18		1	110	50-150	03/09/2021 1426
MeFOSE	16	16		1	102	50-150	03/09/2021 1426
PFBS	14	14		1	102	50-150	03/09/2021 1426
PFDS	15	15		1	95	50-150	03/09/2021 1426
PFHpS	15	16		1	107	50-150	03/09/2021 1426
PFNS	15	15		1	98	50-150	03/09/2021 1426
PFOSA	16	16		1	99	50-150	03/09/2021 1426
PFPeS	15	17		1	111	50-150	03/09/2021 1426
PFDOS	15	14		1	92	50-150	03/09/2021 1426
PFHxS	15	15		1	106	50-150	03/09/2021 1426
PFBA	16	16		1	99	50-150	03/09/2021 1426
PFDA	16	16		1	100	50-150	03/09/2021 1426
PFDoA	16	16		1	102	50-150	03/09/2021 1426
PFHpA	16	17		1	106	50-150	03/09/2021 1426
PFHxDA	16	15		1	97	50-150	03/09/2021 1426
PFHxA	16	16		1	102	50-150	03/09/2021 1426
PFNA	16	15		1	96	50-150	03/09/2021 1426
PFODA	16	19		1	118	50-150	03/09/2021 1426
PFOA	16	18		1	113	50-150	03/09/2021 1426
PFPeA	16	15		1	96	50-150	03/09/2021 1426
PFTeDA	16	16		1	100	50-150	03/09/2021 1426
PFTrDA	16	17		1	107	50-150	03/09/2021 1426
PFUdA	16	19		1	117	50-150	03/09/2021 1426
PFOS	15	15		1	98	50-150	03/09/2021 1426

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		77	25-150
13C2_6:2FTS		96	25-150
13C2_8:2FTS		93	25-150
13C2_PFDoA		81	25-150
13C2_PFHxDA		82	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ84514-002
Batch: 84514
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/03/2021 1117

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		89	25-150
13C3_PFBS		83	25-150
13C3_PFHxS		95	25-150
13C3-HFPO-DA		100	25-150
13C4_PFBA		93	25-150
13C4_PFHpA		90	25-150
13C5_PFHxA		98	25-150
13C5_PFPeA		94	25-150
13C6_PFDA		95	25-150
13C7_PFUdA		83	25-150
13C8_PFOA		90	25-150
13C8_PFOS		96	25-150
13C8_PFOSA		85	10-150
13C9_PFNA		104	25-150
d-EtFOSA		76	10-150
d5-EtFOSAA		81	25-150
d9-EtFOSE		95	10-150
d-MeFOSA		82	10-150
d3-MeFOSAA		85	25-150
d7-MeFOSE		90	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

Internal Transfer Chain of Custody

Pace Analytical
www.pacelabs.com

[x] Samples Pre-Logged into eCOC.

State Of Origin: WI
Cert. Needed: [x] Yes [ ] No

Workorder: 40222574 **Workorder Name:** R3001170.00-C03 MEADE ST
Owner Received Date: 2/26/2021 **Results Requested By:** 3/12/2021

Report To	Subcontract To
Tod Nollemeyer Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436	Pace Analytical West Columbia 106 Vantage Point Drive West Columbia, SC 29172 Phone (803)791-9700

WC02012
KLC2

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: PFAS - WI 36 Compound List	LAB USE ONLY
1	TW-1	PS	2/25/2021 14:00	40222574002	Water	2						X	
2													
3													
4													
5													

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	3/1/21 1040		
2				
3	UPS	3/2/21 1130	[signature] Meadwestvaco	3/2/21 1130

Comments

Cooler Temperature on Receipt 2.0 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

402257M

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Westwood
Branch/Location:	Appleton WI
Project Contact:	Dan O'Connell
Phone:	920 735-6900
Project Number:	R3001170.00 -003
Project Name:	Meade St
Project State:	WI
Sampled By (Print):	Quin Lenz
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Dan O'Connell
Mail To Company:	Westwood
Mail To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Contact:	Dan O'Connell
Invoice To Company:	Westwood
Invoice To Address:	1 N. Systems Dr Appleton WI 54914
Invoice To Phone:	920 735-6900

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air; B = Biota; C = Charcoal; O = Oil; S = Soil; SI = Sludge; W = Water; DW = Drinking Water; GW = Ground Water; SW = Surface Water; WW = Waste Water; WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analysis Requested: VOCs	Hexavalent Chromium	PFAS	Chromium	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	PRES Code	N	N	N	Y			
							B	A	A	D			
001	210225 Trip Blank	2/25/21	2:00	W			X						
002	TW-1	2/25/21	2:00	GW			X	X	X				
003	TW-1	2/24/21	9:00	GW						X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	2/26/21 10:00	Nicole Hackl Pace	2/26/21 1000
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
402257M

Receipt Temp = Kat °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 05/14/08

C316s(27Jun2006)

ORIGINAL

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Westwood Project # 40222574

All containers needing preservation have been checked and noted below: X Yes ☐No ☐N/A Initial when completed: MA Date/ Time:

Lab Lot# of pH paper: 10194194 Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm)*	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																	2.5 / 5 / 10
002										3							3																2.5 / 5 / 10
003												1																			X		2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012					2		1																										2.5 / 5 / 10
013																																	2.5 / 5 / 10
014					2		1																										2.5 / 5 / 10
015																																	2.5 / 5 / 10
016						1																											2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TDH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	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)

Project #: WO# : 40222574

Client Name: Westwood

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☑ Client ☐ Pace Other: _____

Tracking #: _____

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 - N/A Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: RD Corr: _____

Temp Blank Present: ☐ yes ☑ no Biological Tissue is Frozen: ☐ yes ☐ no

Person examining contents: Date: 2/24/21 Initials: ILN

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: _____

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:	W	
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):	459	

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

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Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Pace Cooler Inspected by/date: JRG2 / 03/02/2021 Lot #: WC02012

Means of receipt: ☐ Pace ☐ Client ☑ UPS ☐ FedEx ☐ Other:

☑ Yes	☐ No		1. Were custody seals present on the cooler?
☑ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

2.0 / 2.0 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JRG2 Date: 03/01/2021

Comments: