



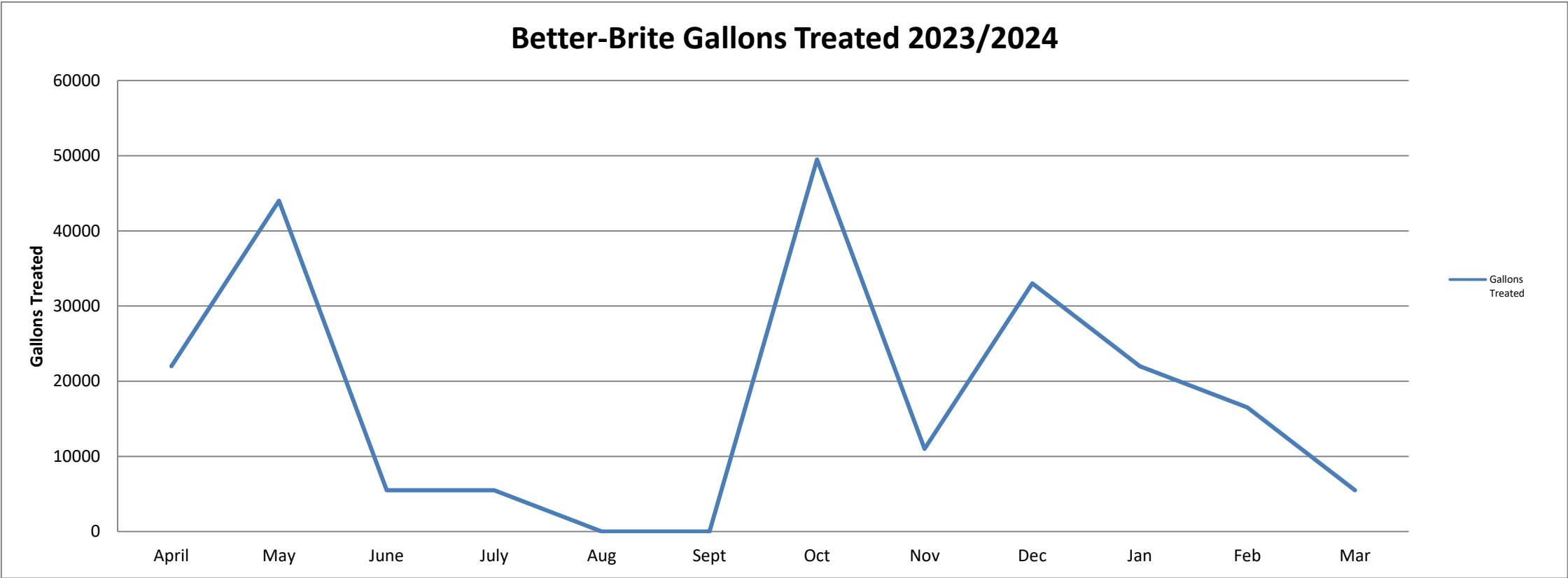
Better Brite 2023/2024 Treatment

Month	Gallons Treated	Batches Ran
April	22000	4
May	44000	8
June	5500	1
July	5500	1
Aug	0	0
Sept	0	0
Oct	49500	9
Nov	11000	2
Dec	33000	6
Jan	22000	4
Feb	16500	3
Mar	5500	1
	TOTAL	39

Drum #	Filled Date	Disposal Date
1		
2		

Total Chrome Analytical Samples Collection Dates

Sample Rd	Date Collected	Date Analyzed
1	10/24/2023	11/6/2023
2	3/21/2024	3/27/2024





Better-Brite WTP Processing Log 2023/2024

22W016.23

Date	Operator	Batch #	Gal Processed	H2SO4 - pH reduction to (s.u.)	NaHSO3 - ORP reduction to (mv)	Mg(OH)2/NaOH - pH raised to (s.u.)	Polymer feed (sec)	Batch Test Results Cr+6	Press Run Time (min)	Recycled Water (gal)	Sludge drum fill or Press cleaned / Comments
04/17/23	NMG1	1	5500	3.11	305	8.57	30	0.00	60	350	
04/21/23	NMG1	2	5500	3.30	310	8.67	30	0.02	40	350	Cleaned Press
04/26/23	JR	3	5500	3.21	300	8.54	30	0.00	50	350	
04/28/23	JR	4	5500	3.18	320	8.70	30	0.01	60	350	
05/01/23	JR	5	5500	3.04	300	8.57	30	0.00	60	350	
05/05/23	JR	6	5500	3.30	302	8.65	30	0.01	65	350	
05/08/23	JR	7	5500	3.24	305	8.69	30	0.00	70	350	
05/11/16	JR	8	5500	3.14	300	8.70	30	0.00	45	350	Cleaned Press
05/16/23	JR	9	5500	3.42	295	8.51	30	0.02	45	350	
05/19/23	JR	10	5500	3.13	310	8.59	30	0.01	50	350	
05/22/23	JR	11	5500	3.19	309	8.55	30	0.01	55	350	
05/26/23	JR	12	5500	3.28	304	8.61	30	0.00	65	350	
06/02/23	JR	13	5500	3.20	305	8.67	30	0.00	40	350	Calibrated Sensor / Cleaned Press
07/05/23	NMG1	14	5500	3.22	300	8.53	30	0.01	50	350	
10/11/23	NMG1	15	5500	3.46	300	8.60	30	0.02	55	350	Calibrated Sensor
10/12/23	NMG1	16	5500	3.02	302	8.70	30	0.03	55	350	
10/13/23	NMG1	17	5500	3.09	309	8.62	30	0.02	60	350	
10/16/23	NMG1	18	5500	3.11	304	8.69	30	0.02	70	350	
10/20/23	NMG1	19	5500	3.42	305	8.53	30	0.01	45	350	Cleaned Press
10/24/23	NMG1	20	5500	3.25	300	8.63	30	0.01	55	350	Analytical Samples Collected
10/25/23	NMG1	21	5500	3.36	299	8.59	30	0.02	55	350	
10/30/23	NMG1	22	5500	3.43	300	8.60	30	0.01	60	350	
11/21/23	NMG1	23	5500	3.14	305	8.55	30	0.00	60	350	Calibrated Sensor
11/22/23	NMG1	24	5500	3.26	306	8.54	30	0.02	70	350	
11/30/23	NMG1	25	5500	3.41	307	8.59	30	0.01	70	350	
12/01/23	NMG1	26	5500	3.33	302	8.61	30	0.02	40	350	Cleaned Press
12/04/23	NMG1	27	5500	3.22	301	8.63	30	0.00	45	350	
12/07/23	NMG1	28	5500	3.21	300	8.67	30	0.01	55	350	
12/21/23	NMG1	29	5500	3.18	300	8.70	30	0.00	55	350	Calibrated Sensor
12/26/23	NMG1	30	5500	3.34	312	8.70	30	0.01	60	350	
12/29/23	NMG1	31	5500	3.29	309	8.68	30	0.02	65	350	
01/05/24	NMG1	32	5500	3.28	308	8.58	30	0.01	65	350	
01/12/24	NMG1	33	5500	3.40	301	8.54	30	0.00	40	350	Cleaned Press
01/19/24	NMG1	34	5500	3.09	302	8.51	30	0.00	40	350	
01/23/24	NMG1	35	5500	3.14	301	8.56	30	0.01	45	350	
02/02/24	NMG1	36	5500	3.17	300	8.57	30	0.01	55	350	
02/07/24	NMG1	37	5500	3.26	304	8.60	30	0.00	60	350	Calibrated Sensor
02/16/24	NMG1	38	5500	3.34	300	8.63	30	0.02	65	350	
03/20/24	NMG1	39	5500	3.27	302	8.61	30	0.01	70	350	Analytical Samples Collected

[illegible]

Summary of Effluent and Influent Analytical Data Better Brite Waste Treatment Plant De Pere, WI 54115					
Sample ID	Date	Total Chromium (ug/L)	Total Zinc (ug/L)	Total Cyanide (mg/L)	Hexavalent Chromium (mg/L)
Lot Trench	11/12/2010	4,380	NS	NS	NS
Grass Trench	11/12/2010	17,100	NS	NS	NS
Influent	06/23/2011	4,520	34.0 J	0.34	4.4
Effluent	06/23/2011	231	1.8 J	0.32	<0.0039
Influent	06/27/2011	4,810	21.2 J	0.30	4.4
Effluent	06/27/2011	974	2.5 J	0.21	<0.0039
Influent	06/28/2011	4,460	16.9 J	0.31	4.1
Effluent	06/28/2011	1,070	<1.6	0.25	<0.0039
Influent	06/29/2011	4,230	10.7 J	0.29	3.9
Effluent	06/29/2011	998	<1.6	0.23	<0.039
Influent	12/23/2011	6,850	NS	NS	NS
Effluent	12/23/2011	765	NS	NS	NS
Influent	08/03/2012	7,220	NS	NS	NS
Effluent	08/03/2012	513	NS	NS	NS
Influent	02/08/2013	7,140	NS	NS	NS
Effluent	02/08/2013	876	NS	NS	NS
Influent	08/29/2013	5,810	NS	NS	NS
Effluent	08/29/2013	1,190	NS	NS	NS
Influent	03/03/2014	9,050	NS	NS	NS
Effluent	03/03/2014	901	NS	NS	NS
Influent	08/07/2014	8,190	NS	NS	NS
Effluent	08/07/2014	1,110	NS	NS	NS
Influent	03/11/2015	7,430	NS	NS	NS
Effluent	03/11/2015	900	NS	NS	NS
Influent	07/30/2015	10,300	NS	NS	NS
Effluent	07/30/2015	934	NS	NS	NS
Influent	02/03/2016	7,050	NS	NS	NS
Effluent	02/03/2016	1,310	NS	NS	NS
Influent	08/30/2016	7,580	NS	NS	NS
Effluent	08/30/2016	1,910	NS	NS	NS
Influent	03/07/2017	4,150	NS	NS	NS
Effluent	03/07/2017	727	NS	NS	NS
Influent	09/01/2017	6,980	NS	NS	NS
Effluent	09/01/2017	2,320	NS	NS	NS
Influent	02/06/2018	6,810	NS	NS	NS
Effluent	02/06/2018	1,160	NS	NS	NS
Influent	10/02/2018	4,670	NS	NS	NS
Effluent	10/02/2018	1,120	NS	NS	NS
Influent	03/14/2019	5,060	NS	NS	NS
Effluent	03/14/2019	369	NS	NS	NS
Influent	09/09/2019	2,220	NS	NS	NS
Effluent	09/09/2019	1,100	NS	NS	NS
Influent	2/27/2020	3,920	NS	NS	NS
Effluent	2/27/2020	1,000	NS	NS	NS
Influent	9/3/2020	5880	NS	NS	NS
Effluent	9/3/2020	1600	NS	NS	NS
Influent	3/15/2021	4620	NS	NS	NS
Effluent	3/15/2021	1680	NS	NS	NS
Influent	8/27/2021	2310	NS	NS	2.8
Effluent	8/27/2021	677	NS	NS	0.026

Summary of Effluent and Influent Analytical Data
Better Brite Waste Treatment Plant
De Pere, WI 54115

Sample ID	Date	Total Chromium (ug/L)	Total Zinc (ug/L)	Total Cyanide (mg/L)	Hexavalent Chromium (mg/L)
Influent	3/23/2022	3430	NS	NS	2.7
Effluent	3/23/2022	560	NS	NS	<0.0073
Influent	9/30/2022	2870	NS	NS	2.4
Effluent	9/30/2022	1190	NS	NS	<0.0073
Influent	3/29/2023	3730	NS	NS	3.6
Effluent	3/29/2023	450	NS	NS	<0.0073
Influent	10/24/2023	3360	NS	NS	3.2
Effluent	10/24/2023	1900	NS	NS	<0.0073
Influent	3/21/2024	2760	NS	NS	2.8
Effluent	3/21/2024	1570	NS	NS	0.011

Notes:
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
NS = No Sample

Prepared By: NMG1
Checked By: SVF



November 07, 2023

Nick Glander
Foth Infrastructure & Environment, LLC
2121 Innovation Court
Suite 300
De Pere, WI 54115

RE: Project: 16W022.23 BETTER BRITE
Pace Project No.: 40270027

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2023. 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,

A handwritten signature in black ink that reads "Tod Noltemeyer".

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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 16W022.23 BETTER BRITE

Pace Project No.: 40270027

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 16W022.23 BETTER BRITE

Pace Project No.: 40270027

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40270027001	INFLUENT_202310	Water	10/24/23 12:15	10/24/23 12:35
40270027002	EFFLUENT_202310	Water	10/24/23 12:10	10/24/23 12:35

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SAMPLE ANALYTE COUNT

Project: 16W022.23 BETTER BRITE

Pace Project No.: 40270027

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40270027001	INFLUENT_202310	EPA 6010D	SIS	1
		SM 3500-Cr B	HNT	1
40270027002	EFFLUENT_202310	EPA 6010D	SIS	1
		SM 3500-Cr B	HNT	1

PASI-G = Pace Analytical Services - Green Bay

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PROJECT NARRATIVE

Project: 16W022.23 BETTER BRITE
Pace Project No.: 40270027

Method: EPA 6010D
Description: 6010D MET ICP
Client: Foth Infrastructure & Environment
Date: November 07, 2023

General Information:

2 samples were analyzed for EPA 6010D by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 16W022.23 BETTER BRITE
Pace Project No.: 40270027

Method: SM 3500-Cr B
Description: Chromium, Hexavalent
Client: Foth Infrastructure & Environment
Date: November 07, 2023

General Information:

2 samples were analyzed for SM 3500-Cr B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 459625

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40270027002

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

- MS (Lab ID: 2639577)
 - Chromium, Hexavalent
- MSD (Lab ID: 2639578)
 - Chromium, Hexavalent

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16W022.23 BETTER BRITE

Pace Project No.: 40270027

Sample: INFLUENT_202310		Lab ID: 40270027001		Collected: 10/24/23 12:15		Received: 10/24/23 12:35		Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Chromium	3360	ug/L	10.0	2.5	1	10/31/23 06:00	10/31/23 18:30	7440-47-3	
Chromium, Hexavalent		Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay							
Chromium, Hexavalent	3.2	mg/L	0.61	0.18	25		11/06/23 14:29		

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ANALYTICAL RESULTS

Project: 16W022.23 BETTER BRITE

Pace Project No.: 40270027

Sample: EFFLUENT_202310		Lab ID: 40270027002		Collected: 10/24/23 12:10		Received: 10/24/23 12:35		Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Chromium	1900	ug/L	10.0	2.5	1	10/31/23 06:00	10/31/23 18:32	7440-47-3	
Chromium, Hexavalent		Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay							
Chromium, Hexavalent	<0.0073	mg/L	0.024	0.0073	1		11/06/23 14:29		M0

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QUALITY CONTROL DATA

Project: 16W022.23 BETTER BRITE

Pace Project No.: 40270027

QC Batch: 458996

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40270027001, 40270027002

METHOD BLANK: 2636366

Matrix: Water

Associated Lab Samples: 40270027001, 40270027002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<2.5	10.0	11/01/23 13:58	

LABORATORY CONTROL SAMPLE: 2636367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	250	250	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636368 2636369

Parameter	Units	40270038002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	<2.5	250	250	255	250	101	99	75-125	2	20	

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

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QUALITY CONTROL DATA

Project: 16W022.23 BETTER BRITE

Pace Project No.: 40270027

QC Batch: 459625

Analysis Method: SM 3500-Cr B

QC Batch Method: SM 3500-Cr B

Analysis Description: Chromium, Hexavalent by 3500

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40270027001, 40270027002

METHOD BLANK: 2639575

Matrix: Water

Associated Lab Samples: 40270027001, 40270027002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0073	0.024	11/06/23 14:28	

LABORATORY CONTROL SAMPLE: 2639576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.3	0.31	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2639577 2639578

Parameter	Units	40270027002 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	<0.0073	0.0079J	2	3	90-110		20	M0

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QUALIFIERS

Project: 16W022.23 BETTER BRITE
Pace Project No.: 40270027

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.

DL - Adjusted Method Detection Limit.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 16W022.23 BETTER BRITE

Pace Project No.: 40270027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40270027001	INFLUENT_202310	EPA 3010A	458996	EPA 6010D	459119
40270027002	EFFLUENT_202310	EPA 3010A	458996	EPA 6010D	459119
40270027001	INFLUENT_202310	SM 3500-Cr B	459625		
40270027002	EFFLUENT_202310	SM 3500-Cr B	459625		

REPORT OF LABORATORY ANALYSIS

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Effective Date: 8/16/2022

Client Name: Foth

Sample Preservation Receipt Form

Project # 40270027

All containers needing preservation have been checked and noted below:

☒ Yes☐ No☐ N/ALab Lot# of pH paper 10P2723

Lab Std #ID of preservation (if pH adjusted)

Initial when completed: MJS Date/Time

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	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2						
001																																	2.5 / 5
002																																	2.5 / 5
003																																	2.5 / 5
004																																	2.5 / 5
005																																	2.5 / 5
006																																	2.5 / 5
007																																	2.5 / 5
008																																	2.5 / 5
009																																	2.5 / 5
010																																	2.5 / 5
011																																	2.5 / 5
012																																	2.5 / 5
013																																	2.5 / 5
014																																	2.5 / 5
015																																	2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																																	2.5 / 5

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

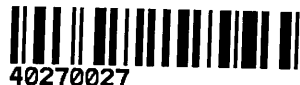
Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Client Name: Eoth

Project #:

WO#: 40270027



Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Walto
☒ 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 - 118

Type of Ice: Wet Blue Dry None

☐ Meltwater Only

Cooler Temperature Uncorr: 1.5 /Corr: 20

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: 10/24/2023 Initials: MJD

Labeled By Initials: TW

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.
- DI 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.
Correct Type: <u>Pace Green Bay</u> Pace IR, Non-Pace		
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: <u>W</u>		
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:

Person Contacted: _____ Date/Time: _____

If checked, see attached form for additional comments ☐

Comments/ Resolution: _____

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

Page 2 of 2



April 04, 2024

Nick Glander
Foth Infrastructure & Environment, LLC
2121 Innovation Court
Suite 300
De Pere, WI 54115

RE: Project: 23W016.24 BETTER BRITE
Pace Project No.: 40275834

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2024. 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,

A handwritten signature in black ink that reads 'Tod Noltemeyer'.

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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23W016.24 BETTER BRITE

Pace Project No.: 40275834

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 23W016.24 BETTER BRITE

Pace Project No.: 40275834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40275834001	INFLUENT_202403	Water	03/21/24 15:45	03/21/24 17:04
40275834002	EFFLUENT_202403	Water	03/21/24 16:40	03/21/24 17:04

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23W016.24 BETTER BRITE

Pace Project No.: 40275834

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40275834001	INFLUENT_202403	EPA 6010D	SIS	1
		SM 3500-Cr B	DAW	1
40275834002	EFFLUENT_202403	EPA 6010D	SIS	1
		SM 3500-Cr B	DAW	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23W016.24 BETTER BRITE
Pace Project No.: 40275834

Method: EPA 6010D
Description: 6010D MET ICP
Client: Foth Infrastructure & Environment
Date: April 04, 2024

General Information:

2 samples were analyzed for EPA 6010D by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23W016.24 BETTER BRITE
Pace Project No.: 40275834

Method: SM 3500-Cr B
Description: Chromium, Hexavalent
Client: Foth Infrastructure & Environment
Date: April 04, 2024

General Information:

2 samples were analyzed for SM 3500-Cr B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23W016.24 BETTER BRITE

Pace Project No.: 40275834

Sample: INFLUENT_202403 Lab ID: 40275834001 Collected: 03/21/24 15:45 Received: 03/21/24 17:04 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Chromium	2760	ug/L	10.0	2.5	1	03/25/24 12:43	03/27/24 20:43	7440-47-3	
Chromium, Hexavalent									
Analytical Method: SM 3500-Cr B									
Pace Analytical Services - Green Bay									
Chromium, Hexavalent	2.8	mg/L	0.25	0.062	25		04/02/24 11:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23W016.24 BETTER BRITE

Pace Project No.: 40275834

Sample: EFFLUENT_202403 Lab ID: 40275834002 Collected: 03/21/24 16:40 Received: 03/21/24 17:04 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Chromium	1570	ug/L	10.0	2.5	1	03/25/24 12:43	03/27/24 20:45	7440-47-3	
Chromium, Hexavalent									
Analytical Method: SM 3500-Cr B									
Pace Analytical Services - Green Bay									
Chromium, Hexavalent	0.011	mg/L	0.010	0.0025	1		04/02/24 10:37		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 23W016.24 BETTER BRITE

Pace Project No.: 40275834

QC Batch: 470037

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40275834001, 40275834002

METHOD BLANK: 2692814

Matrix: Water

Associated Lab Samples: 40275834001, 40275834002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<2.5	10.0	03/27/24 19:54	

LABORATORY CONTROL SAMPLE: 2692815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	250	264	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2692816 2692817

Parameter	Units	40275888001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	<2.5	250	250	255	262	102	104	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 23W016.24 BETTER BRITE

Pace Project No.: 40275834

QC Batch: 470587

Analysis Method: SM 3500-Cr B

QC Batch Method: SM 3500-Cr B

Analysis Description: Chromium, Hexavalent by 3500

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40275834001, 40275834002

METHOD BLANK: 2695230

Matrix: Water

Associated Lab Samples: 40275834001, 40275834002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0025	0.010	04/02/24 10:30	

LABORATORY CONTROL SAMPLE: 2695231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.1	0.10	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2695232 2695233

Parameter	Units	40275819001 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	0.25J	2.5	2.5	2.7	2.7	99	99	90-110	0	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 23W016.24 BETTER BRITE
Pace Project No.: 40275834

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23W016.24 BETTER BRITE
Pace Project No.: 40275834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40275834001	INFLUENT_202403	EPA 3010A	470037	EPA 6010D	470209
40275834002	EFFLUENT_202403	EPA 3010A	470037	EPA 6010D	470209
40275834001	INFLUENT_202403	SM 3500-Cr B	470587		
40275834002	EFFLUENT_202403	SM 3500-Cr B	470587		

REPORT OF LABORATORY ANALYSIS

Effective Date: 8/16/2022

Client Name: Foth

Sample Preservation Receipt Form

Project # 4025834

All containers needing preservation have been checked and noted below:

☒ Yes ☐ No ☐ N/ALab Lot# of pH paper. 1000134

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

Initial when completed MMS Date/Time.

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	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WG9U	WPFU	SP5T	ZPLC	GN 1	GN 2						
001																																	2.5 / 5
002																																	2.5 / 5
003																																	2.5 / 5
004																																	2.5 / 5
005																																	2.5 / 5
006																																	2.5 / 5
007																																	2.5 / 5
008																																	2.5 / 5
009																																	2.5 / 5
010																																	2.5 / 5
011																																	2.5 / 5
012																																	2.5 / 5
013																																	2.5 / 5
014																																	2.5 / 5
015																																	2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																																	2.5 / 5

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JG9U	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WG9U	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Foth

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 - 131 Type of Ice: Ver ☐ Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr. 1.0 / Corr. 0.5

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: 03/11/2024 Initials: MNE

Labeled By Initials: JB

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.
- DI 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.
Correct Type: <u>Pace Green Bay</u> Pace IR, Non-Pace		
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: <u>W</u>		
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 log

Page 2 of 2