From: Glander, Nick <Nick.Glander@foth.com>
Sent: Thursday, March 23, 2023 12:22 PM

To: Saliares, Gwen N - DNR

Subject: RE: [External] 2022 Annual Treatment Summary for Better Brite Superfund

site

Attachments: Better Brite 2021-22 Summary Packet.pdf

CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.

Gwen,

Here you go -

In total, Foth processed 38 batches in the contract year - April 2021 through March 2022. An attached Better Brite WTP Summary Packet contains the following:

- Summary Page Table provides a total volume of water treated per month in table & graph format with drum fill and analytical sample collection dates
- WTP Process Log Table provides the individual batch detail
- Analytical Results Summary Table
- August Pace Lab Report
- March Pace Lab Report

Feel free to contact me with any questions.

Thank you;

Nick Glander

Lead Environmental Scientist



Foth Infrastructure & Environment, LLC

2121 Innovation Court, Suite 300 P.O. Box 5126 De Pere, WI 54115-5126

Office: (920) 496-6758 Fax: (920) 497-8516 Cell: (920) 362-8744

www.foth.com

From: Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>

Sent: Thursday, March 23, 2023 9:02 AM **To:** Glander, Nick < Nick.Glander@foth.com >

Subject: [External] 2022 Annual Treatment Summary for Better Brite Superfund site

Nick,

Jennifer mentioned she was looking for the annual treatment summary for the time period of April 2021 to March 2022. Looks like the last one submitted was for April 2020 to March 2021. I can't recall if an annual treatment summary was a part of your contract for that April 2021 to March 2022 time period. If you did create a summary for that time period could you send it to me via email? Thank you,

We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Gwen Saliares

State Projects Coordinator Remediation and Redevelopment Program Wisconsin Department of Natural Resources 625 E County Rd Y, STE. 700 Oshkosh, WI 54901 Phone: (920) 510-4343 gwen.saliares@wisconsin.gov



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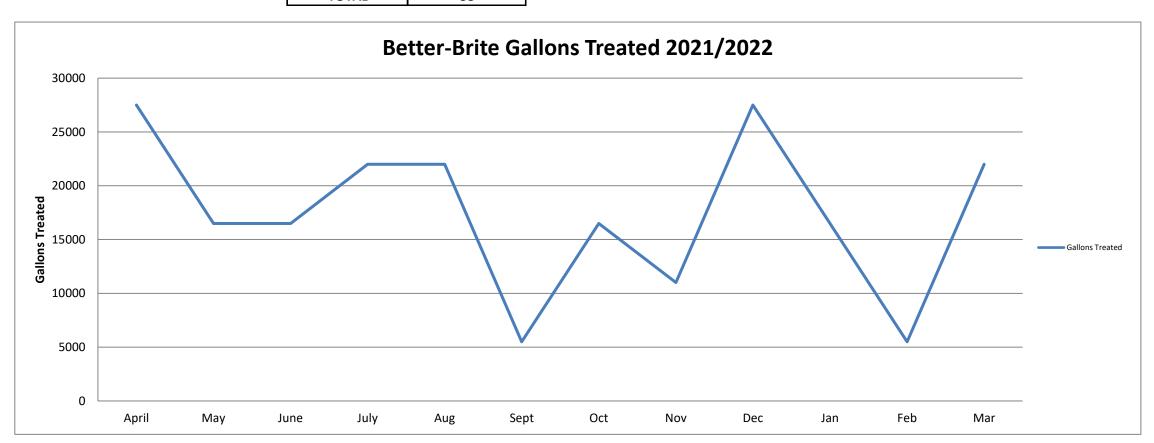
Better Brite 2021/2022 Treatment

Month	Gallons Treated	Batches Ran
April	27500	5
May	16500	3
June	16500	3
July	22000	4
Aug	22000	4
Sept	5500	1
Oct	16500	3
Nov	11000	2
Dec	27500	5
Jan	16500	3
Feb	5500	1
Mar	22000	4
	TOTAL	38

Drum #	Filled Date	Disposal Date
1		
2		

Total Chrome Analytical Samples Collection Dates

Sample Rd	Date Collected	Date Analyzed
1	8/27/2021	8/27-31/2021
2	3/23/2022	3/24-28/2022





Better-Brite WTP Processing Log 2021/2022

21W016

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 fille or Press cleaned / Comments
04/13/21	NMG1	1	5500	3.00	300	8.61	30	0.00	30	350	
04/19/21	NMG1	2	5500	3.16	300	8.70	30	0.00	34	350	
04/23/21	NMG1	3	5500	3.32	300	8.52	30	0.01	34	350	
04/26/21	NMG1	4	5500	3.09	298	8.59	30	0.01	35	350	
04/30/21	NMG1	5	5500	3.12	295	8.61	30	0.00	36	350	
05/03/21	NMG1	6	5500	3.22	301	8.67	30	0.00	36	350	Pressed Cleaned / Calibrated Sensors
05/14/21	NMG1	7	5500	3.05	300	8.70	30	0.00	37	350	
05/28/21	NMG1	8	5500	3.21	301	8.62	30	0.01	38	350	
06/03/21	NMG1	9	5500	3.17	300	8.64	30	0.02	38	350	
06/10/21	NMG1	10	5500	3.11	300	8.55	30	0.00	44	350	
06/23/21	NMG1	11	5500	3.33	302	8.53	30	0.00	48	350	
07/07/21	NMG1	12	5500	3.41	299	8.67	30	0.01	50	350	
07/15/21	NMG1	13	5500	3.32	300	8.62	30	0.00	52	350	Pressed Cleaned / Calibrated Sensors
07/19/21	NMG1	14	5500	3.05	305	8.70	30	0.02	37	350	
07/29/21	NMG1	15	5500	3.21	302	8.51	30	0.01	38	350	
08/11/21	NMG1	16	5500	3.17	300	8.65	30	0.03	40	350	
08/24/21	NMG1	17	5500	3.42	300	8.54	30	0.00	45	350	
08/26/21	NMG1	18	5500	3.33	299	8.61	30	0.00	50	350	Pressed Cleaned / Calibrated Sensors
08/27/21	NMG1	19	5500	3.24	303	8.63	30	0.01	36	350	Samples Collected
09/28/21	NMG1	20	5500	3.01	304	8.69	30	0.01	39	350	
10/07/21	NMG1	21	5500	3.04	300	8.59	30	0.00	42	350	
10/14/21	NMG1	22	5500	3.19	301	8.57	30	0.02	50	350	
10/27/21	NMG1	23	5500	3.08	306	8.64	30	0.03	50	350	
11/02/21	NMG1	24	5500	3.33	300	8.53	30	0.00	52	350	Pressed Cleaned / Calibrated Sensors
11/18/21	NMG1	25	5500	3.24	299	8.67	30	0.00	37	350	
12/03/21	NMG1	26	5500	3.49	300	8.55	30	0.01	39	350	
12/07/21	NMG1	27	5500	3.42	300	8.50	30	0.00	40	350	
12/10/11	NMG1	28	5500	3.31	301	8.67	30	0.02	44	350	
12/17/21	NMG1	29	5500	3.24	300	8.51	30	0.00	46	350	
12/30/21	NMG1	30	5500	3.29	303	8.66	30	0.00	50	350	
01/13/22	NMG1	31	5500	3.08	305	8.70	30	0.01	55	350	Pressed Cleaned / Calibrated Sensors
01/20/22	NMG1	32	5500	3.16	300	8.67	30	0.02	40	350	
01/28/22	NMG1	33	5500	3.32	300	8.53	30	0.00	45	350	
02/15/22	NMG1	34	5500	3.17	298	8.54	30	0.03	45	350	
03/21/22	NMG1	35	5500	3.30	295	8.68	30	0.02	45	350	
03/23/22	NMG1	36	5500	3.41	301	8.60	30	0.00	50	350	Samples Collected
03/29/22	NMG1	37	5500	3.22	300	8.57	30	0.01	55	350	Pressed Cleaned / Calibrated Sensors
03/30/22	NMG1	38	5500	3.13	302	8.55	30	0.01	38	350	

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

		Total Chromium	Total Zinc	Total Cyanide	Hexavalent Chromium
Sample ID	Date	(ug/L)	(ug/L)	(mg/L)	(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	NS
Influent	09/09/2019	2,220	NS NS	NS	NS
Effluent		•			
	09/09/2019	1,100	NS NC	NS NS	NS NC
Influent	2/27/2020	3,920	NS	NS	NS
Effluent	2/27/2020	1,000	NS NS	NS NS	NS NC
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
Influent	3/23/2022	3430	NS	NS	2.7
Effluent	3/23/2022	560	NS	NS	< 0.0073

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



September 03, 2021

Robert Meller Foth Infrastructure & Environment, LLC 2121 Innovation Court Suite 300 De Pere, WI 54115

RE: Project: 21W016 BETTER BRITE Pace Project No.: 40232354

Dear Robert Meller:

Enclosed are the analytical results for sample(s) received by the laboratory on August 27, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

Pace Analytical Services - Green Bay

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

Sincerely,

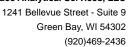
Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436

Tod holteneya

Project Manager

Enclosures







CERTIFICATIONS

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

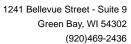
Pace Analytical Services Green Bay

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



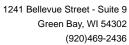


SAMPLE SUMMARY

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40232354001	INFLUENT_202108	Water	08/27/21 09:10	08/27/21 09:45
40232354002	EFFLUENT 202108	Water	08/27/21 09:16	08/27/21 09:45





SAMPLE ANALYTE COUNT

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40232354001	INFLUENT_202108	EPA 6010D	TXW	1	PASI-G
		SM 3500-Cr B (Online)	HNT	1	PASI-G
40232354002	EFFLUENT_202108	EPA 6010D	TXW	1	PASI-G
		SM 3500-Cr B (Online)	HNT	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40232354001	INFLUENT_202108					
EPA 6010D	Chromium	2310	ug/L	10.0	08/31/21 15:02	
SM 3500-Cr B (Online)	Chromium, Hexavalent	2.8	mg/L	0.61	08/27/21 13:20	
40232354002	EFFLUENT_202108					
EPA 6010D	Chromium	677	ug/L	10.0	08/31/21 15:05	
SM 3500-Cr B (Online)	Chromium, Hexavalent	0.026	mg/L	0.024	08/27/21 11:41	

Green Bay, WI 54302 (920)469-2436



PROJECT NARRATIVE

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Method: EPA 6010D

Description: 6010D MET ICP

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: September 03, 2021

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.

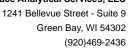
Laboratory Control Spike:

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:





PROJECT NARRATIVE

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Method: SM 3500-Cr B (Online) **Description:** Chromium, Hexavalent

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: September 03, 2021

General Information:

2 samples were analyzed for SM 3500-Cr B (Online) 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.





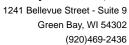
ANALYTICAL RESULTS

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Date: 09/03/2021 12:01 PM

Sample: INFLUENT_202108	Lab ID:	Collecte	d: 08/27/2	09:10	Received: 08/	atrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 ytical Services	'		hod: El	PA 3010A			
Chromium	2310	ug/L	10.0	2.5	1	08/30/21 13:32	08/31/21 15:02	7440-47-3	
Chromium, Hexavalent	•	Method: SM 35 ytical Services	,	,					
Chromium, Hexavalent	2.8	mg/L	0.61	0.18	25		08/27/21 13:20		





ANALYTICAL RESULTS

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Date: 09/03/2021 12:01 PM

Sample: EFFLUENT_202108	Lab ID:	40232354002	Collecte	d: 08/27/21	09:16	Received: 08/	atrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 lytical Services			hod: El	PA 3010A			
Chromium	677	ug/L	10.0	2.5	1	08/30/21 13:32	08/31/21 15:05	7440-47-3	
Chromium, Hexavalent	,	Method: SM 35 lytical Services	`	,					
Chromium, Hexavalent	0.026	mg/L	0.024	0.0073	1		08/27/21 11:41		



QUALITY CONTROL DATA

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Date: 09/03/2021 12:01 PM

QC Batch: 394403 QC Batch Method: EPA 3010A Analysis Method: EPA 6010D Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232354001, 40232354002

METHOD BLANK: 2276109 Matrix: Water

Associated Lab Samples: 40232354001, 40232354002

Parameter Units Blank Reporting
Result Limit Analyzed Qualifiers

Chromium ug/L <2.5 10.0 08/31/21 14:33

LABORATORY CONTROL SAMPLE: 2276110

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Chromium ug/L 250 245 98 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2276111 2276112

MSD MS 40232081001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Limits 20 Chromium ug/L <2.5 250 250 242 243 96 97 75-125 0

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.



QUALITY CONTROL DATA

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

QC Batch Method:

QC Batch:

394260

SM 3500-Cr B (Online)

Analysis Method:

SM 3500-Cr B (Online)

Analysis Description: Chromium, Hexavalent by 3500

Pace Analytical Services - Green Bay

Associated Lab Samples: 40232354001, 40232354002

METHOD BLANK: 2275109 Associated Lab Samples: 4

Chromium, Hexavalent

Date: 09/03/2021 12:01 PM

Parameter

Parameter

Matrix: Water

40232354001, 40232354002

Units

mg/L

Units

Blank Result

< 0.0073

Laboratory:

Reporting Limit

Analyzed Qualifiers

0.024 08/27/21 11:40

LABORATORY CONTROL SAMPLE: 2275110

Spike Conc. LCS Result LCS % Rec % Rec Limits

Qualifiers

Chromium, Hexavalent mg/L 0.3 0.31 104 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

2275111

MOD

40232342007 Parameter Units Result MS MSD Spike Spike

MS Result

2275112

MSD Result MSD % Rec

MS

% Rec Limits R

Max RPD RPD

Conc. Conc. Qual % Rec Chromium, Hexavalent < 0.0073 0.28 mg/L 0.3 0.3 0.29 95 97 90-110 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.



QUALIFIERS

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

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.

Date: 09/03/2021 12:01 PM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21W016 BETTER BRITE

Pace Project No.: 40232354

Date: 09/03/2021 12:01 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40232354001	INFLUENT_202108	EPA 3010A	394403	EPA 6010D	394566
40232354002	EFFLUENT_202108	EPA 3010A	394403	EPA 6010D	394566
40232354001	INFLUENT_202108	SM 3500-Cr B (Online)	394260		
40232354002	EFFLUENT_202108	SM 3500-Cr B (Online)	394260		

Sample Preservation Receipt Form
Project # 4023255

Client Name: For

All containers needing preservation have been checked and noted below: $\c Yes \c N/A$

										Lab	Lot# c	of pH p	oaper:	101	<u>)36</u>	04	Lat	Std#	#ID of	prese	rvatio	n (if pl	⊣ adju	sted):					comp	leted C	111	Time:	
				Gla	ass					r	Plast	*****			Vial					-	*******************************	ars			enera	1	(>6mm) *	1≤2	Act pH ≥9	≥12	<2	justed	Volume
Pace Lab#	AG10	BG10	AG1H	AG4S	AG4U	AG5U	AG2S	везп	BP1U	врзи	врзв	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	BN	VOA Vials	H2SO4 pH	NaOH+Zn	NаОН рН	HNO3 pH	pH after adjusted	(mL)
001										1		١									,										X		2.5 / 5 / 10
002	Š.				Genziëre,	50-50-5				* \	1118-1996	1				101000		SUPPLY.	Part 14 Part 14				(1.47)		28 28 24 25 25 25 25 25 25 25 25 25 25 25 25 25			100			X		2.5 / 5 / 10
903																															,		2.5 / 5 / 10
004	7.45.450 7.45.450	\$2.50		100	1000		in the second	\$10.00			1-74%	ilis Methers		(B.)	il vicio	1000	Roll to	Control			reses é		200		10000	No.			100 to 10	E4 (366)			2.5 / 5 / 10
005																																	2.5 / 5 / 10
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007										\searrow																							2.5 / 5 / 10
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009																	Q	17-	1/9	<u>\</u>													2.5 / 5 / 10
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011																				29	L)												2.5 / 5 / 10
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016				To the second					1.5									VO CUMPAN	3966	2000			1,000,000									100	2.5/5/10
017							<u> </u>	<u> </u>			L																						2.5 / 5 / 10
018		4							i ti									01.454	9490 CT			14.44 14.44		\$100 Y	A Gara		2000		1930			(45)	2.5/5/10
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020	148.01										17,4200	200		<u>.</u>				existing.							Service Se			24-27. 3-12		- 56	744. Ş		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 🥍 A *If yes look in headspace column

AG1U1	liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
	liter clear glass		250 mL plastic unpres		40 mL amber Na Thio		9 oz amber jar unpres
AG1H1	liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S 1	25 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL		4 oz plastic jar unpres
AG4U 1:	20 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U 1	00 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S 5	00 mL amber glass H2SO4		•			GN	
BG3U 2	50 mL clear glass unpres						

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

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: ENV-FRM-GBAY-0014-Rev.00 Document Revised: 26Mar2020

Author:

Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foth			-	Project #	WO#:	40232354
Courier: CS Logistics Fed Ex Speed	dee 🗀 l	JPS		altco		188 11 18 11
Client Pace Other:					40232354	
Tracking #:				- <u>-</u>		
Custody Seal on Cooler/Box Present: yes	<i>_</i> ·					
Custody Seal on Samples Present: yes Packing Material: Bubble Wrap Bub				yes no		
Packing Material: Bubble Wrap Bubble Wrap				Blue Dry None	Samples of	on ice, cooling process has begun
Cooler Temperature Uncorr: 3,6 /Corr:		100.	Well	blue bly None	Jampies C	Person examining contents:
Temp Blank Present: ☐ yes ▼ no		Biolo	gical T	issue is Frozen:	☐ yes ☐ no	Date: 8127121/Initials: AN
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on [Ory Ice.					Labeled By Initials: SRK
Chain of Custody Present:	¥ Yes [□No	□n/a	1.	·	
Chain of Custody Filled Out:	□Yes 1	Ν̈́ο	□N/A	2.00 m	Stri li	812712 an
Chain of Custody Relinquished:	X Yes [□No	□n/a	3.	<u> </u>	
Sampler Name & Signature on COC:	Yes [□No	□n/A	4.		
Samples Arrived within Hold Time:	¥ Yes [□No	٠	5.	1	
- VOA Samples frozen upon receipt	ÙYes [□No		Date/Time:		
Short Hold Time Analysis (<72hr):	XYes [□No		6.	· · · · · · · · · · · · · · · · · · ·	
Rush Turn Around Time Requested:	□Yes 】	No		7.	1	
Sufficient Volume:				8.		•
For Analysis:ܡܛܐ □No MS/MSI	D: 🗆 Yes 🅇	5 100	□n/a		· .	
Correct Containers Used:	X ∳es [□No		9.		•
-Pace Containers Used:	XYes [□No	□n/a			
-Pace IR Containers Used:	□Yes [□No	√ N/A			
Containers Intact:	X Yes [□No		10.	:	
Filtered volume received for Dissolved tests	□Yes [□No	ANAKI	11.		
Sample Labels match COC:	Yes [□No	□N/A	12.		
-Includes date/time/ID/Analysis Matrix:	W		 .		:	
Trip Blank Present:	□Yes 〔	□No	X N/A	13.		
Trip Blank Custody Seals Present	□Yes [□No	™ N/A	:		
Pace Trip Blank Lot # (if purchased):						
Client Notification/ Resolution:			Date/		If checked, see attac	ched form for additional comments
Person Contacted: Comments/ Resolution:			- 2410/			
					:	
					<u> </u>	

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





April 01, 2022

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

RE: Project: 21WO16 BETTER BRITE Pace Project No.: 40242289

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

Pace Analytical Services - Green Bay

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

Sincerely,

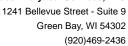
Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436

Tod holteneyer

Project Manager

Enclosures







CERTIFICATIONS

Project: 21WO16 BETTER BRITE

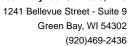
Pace Project No.: 40242289

Pace Analytical Services Green Bay

North Dakota Certification #: R-150

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 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



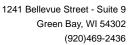


SAMPLE SUMMARY

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40242289001	INFLUENT_202203	Water	03/23/22 11:40	03/23/22 15:32
40242289002	EFFLUENT 202203	Water	03/23/22 15:05	03/23/22 15:32





SAMPLE ANALYTE COUNT

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40242289001	INFLUENT_202203	EPA 6010D	TXW	1
		SM 3500-Cr B	HNT	1
40242289002	EFFLUENT_202203	EPA 6010D	TXW	1
		SM 3500-Cr B	HNT	1

PASI-G = Pace Analytical Services - Green Bay



Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

Method: EPA 6010D

Description: 6010D MET ICP

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: April 01, 2022

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:



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

PROJECT NARRATIVE

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

Method: SM 3500-Cr B

Description: Chromium, Hexavalent

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: April 01, 2022

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: 411523

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40242289002

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

- MS (Lab ID: 2370276)
 - · Chromium, Hexavalent
- MSD (Lab ID: 2370277)
 - Chromium, Hexavalent

Additional Comments:

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





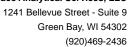
ANALYTICAL RESULTS

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

Date: 04/01/2022 05:48 AM

Sample: INFLUENT_202203	Lab ID:	40242289001	Collected	d: 03/23/22	2 11:40	Received: 03/	23/22 15:32 Ma	atrix: 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	3430	ug/L	10.0	2.5	1	03/24/22 05:37	03/24/22 16:21	7440-47-3				
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay											
Chromium, Hexavalent	2.7	mg/L	0.12	0.037	5		03/28/22 10:58					





ANALYTICAL RESULTS

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

Date: 04/01/2022 05:48 AM

Sample: EFFLUENT_202203	Lab ID:	40242289002	Collected	d: 03/23/22	2 15:05	Received: 03/	23/22 15:32 Ma	atrix: 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	560	ug/L	10.0	2.5	1	03/24/22 05:37	03/24/22 16:23	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		03/28/22 10:39		MO			



QUALITY CONTROL DATA

Analysis Method:

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

Date: 04/01/2022 05:48 AM

QC Batch: 411215 QC Batch Method: **EPA 3010A**

Analysis Description: 6010D MET

EPA 6010D

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40242289001, 40242289002

METHOD BLANK: 2368520 Matrix: Water

Associated Lab Samples: 40242289001, 40242289002

> Blank Reporting Qualifiers Parameter Units Result Limit Analyzed

Chromium <2.5 10.0 03/24/22 15:37 ug/L

LABORATORY CONTROL SAMPLE: 2368521

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Chromium ug/L 250 255 102 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2368522 2368523

MSD MS

40242156001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Limits 105 20 Chromium ug/L <2.5 250 250 262 255 102 75-125 3

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.



QUALITY CONTROL DATA

21WO16 BETTER BRITE Project:

Pace Project No.: 40242289

QC Batch: 411523

QC Batch Method: SM 3500-Cr B

Parameter

Parameter

Date: 04/01/2022 05:48 AM

Analysis Method: Analysis Description: SM 3500-Cr B

Chromium, Hexavalent by 3500

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples: 40242289001, 40242289002

METHOD BLANK: 2370274 Matrix: Water

Associated Lab Samples: 40242289001, 40242289002

> Blank Result

Reporting

Limit Analyzed

Qualifiers

Chromium, Hexavalent < 0.0073 0.024 03/28/22 10:38 mg/L

Units

Units

LABORATORY CONTROL SAMPLE: 2370275

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

mg/L Chromium, Hexavalent 0.3 0.31 104 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

2370276

MSD

40242289002 Parameter Units Result

MS Spike Conc.

Spike Conc. Result

MSD Result

2370277

MS

MS % Rec

MSD % Rec

% Rec **RPD** Limits

Max RPD

Qual

Chromium, Hexavalent < 0.0073 < 0.0073 mg/L 0.3 0.3 < 0.0073 0 90-110 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.



QUALIFIERS

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

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

Date: 04/01/2022 05:48 AM

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



Green Bay, WI 54302 (920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21WO16 BETTER BRITE

Pace Project No.: 40242289

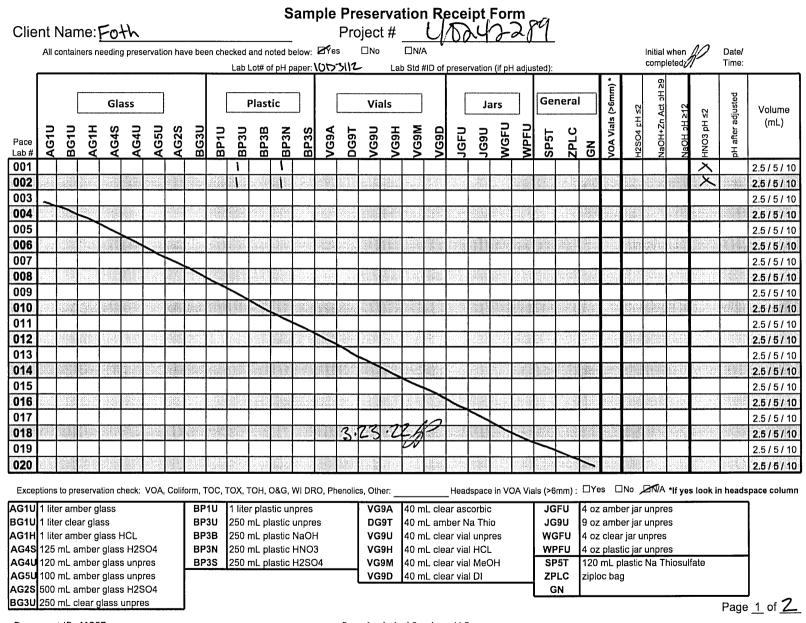
Date: 04/01/2022 05:48 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40242289001	INFLUENT_202203	EPA 3010A	411215	EPA 6010D	411305
40242289002	EFFLUENT_202203	EPA 3010A	411215	EPA 6010D	411305
40242289001	INFLUENT_202203	SM 3500-Cr B	411523		
40242289002	EFFLUENT_202203	SM 3500-Cr B	411523		

	(Please Print Clearly)]								<u>UPPER</u>	MIDW	EST RI	EGION		Page 1	of /
Company Nan]			. 1	h Hin	~1®			MN: 6	12-607-	1700	WI: 920-469-2436	CM	D420	289
Branch/Locati	ion: DE PERE		/		ace	Alla www.pa	IYUC ncelabs.c	al com					. 1		9		
Project Conta	ct: NICK GLANDER	2] /											Quote #:			
Phone:	920/362-874	14]	<u>C</u>	:HA	<u> IN</u>				<u>TO</u>	DY			Mail To Contact:			
Project Numb	er: 21 WOLG		A=No	one B=H	ICL C=	H2SO4	Preserva D=HNO3			F=Methar	ol G=N	аОН		Mail To Company:			
Project Name	Better Brite		<u> </u>	odium Bisul	fate Soluti	on	I=Sodiun	n Thiosul	fate J	=Other				Mail To Address:	Voice		
Project State:	UIT-5 CONSIN		FILTE (YES	RED? (NO)	Y/N	$ \mathcal{N} $	N								Y	0-	
Sampled By (I	1 11/1/11/11	е.		RVATION DE)*	Pick Letter	Ъ	A							Invoice To Contact:		TOTAL	
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PO #:		egulatory Program:			ested	Theome	Lone							Invoice To Address:		OF C	7
Data Packa	hia)		trix Codes	3		13	72			ļ .							
☐ EPA	Level III (billable) B = C =	Biota Charcoal	DW = Drinki GW = Grour SW = Surfac	nd Water	Analyses Requested		100							Invoice To Phone:			
LI EPA	Level IV Liver needed on s=	Soil Sludge	WW = Wast WP = Wipe		Analy	Total	Hex							CLIENT	1	OMMENTS	Profile #
PACE LAB*#	CLIENT FIELD ID	DATE	ECTION	MATRIX		7				ļ				COMMENTS	(Lab l	Use Only)	
001	Influent_20203	723/22	1140	6W		X	\mathcal{X}	ļ ,	1	l							
002	Effluent-202203	3/23/22	1505	LIW		X	X										
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Rush Tu	rnaround Time Requested - Prelims	Relin	nquished By) Da	te/Time:		<u> </u>	Received	1,88%: /	200	Date/Time:	<u> </u>	PACE Pro	ject No.
(Rush T	TAT subject to approval/surcharge) Date Needed:	Relin	nquished By:		_(F-01/	<u>} 3/</u>	Z 3/2	2 15	-3Z	Received	V 7.7	llat	790 3.27 .27 Date/Time:	1572	4029	2-309
Transmit Pre	lim Rush Results by (complete what you wan															Receipt Temp = L	() °C
Email #1:		Relin	nquished By:				Da	ite/Time:			Received	By:		Date/Time:		Sample R	
Email #2:			andaha I D					to/Ti			Possius	I Dve		Date/Time:		ORy Ac	
Telephone: Fax:		Relin	nquished By:				Da	ite/Time:			Received	ı by:		Date/ rime:		Cooler Cus	
	amples on HOLD are subject to	Relin	nquished By:				Da	ite/Time:			Received	f By:		Date/Time:		Present / 🗖	ot Present
	clai pricing and release of liability										<u> </u>						ot Intactige 13 of
C019a(27Ju	un2006)															Version 6.0 06/14/06 ORIGINA	L

DC#_Title: ENV-FRM-GBAY-0035 v01_Sample Preservation Receipt Form

Revision: 3 | Effective Date: | Issued by: Green Bay



DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR Revision: 3 | Effective Date: | Issued by: Green Bay

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foth		_	W(#:40242289	1
Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speede	e 🗖 UPS	□W	altco		
Client Pace Other:					
Tracking #:			4024	2289	
Custody Seal on Cooler/Box Present: yes	no Seals	intact:	☐ yes ☐ no		
Custody Seal on Samples Present: yes 🔀			☐ yes ☐ no		
Packing Material: ☐ Bubble Wrap ☐ Bubb					
<u></u>		W	Blue Dry None	samples on ice, cooling process has begun Person examining contents]
Cooler Temperature Uncorr: 4.	•			1	,
Temp Blank Present: ☐ yes ☐ no	Riolo	gicai i	issue is Frozen: 🔲 yes	no Date: 3-23-22 /Initials:	
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:	ØYes □No	□n/a	1.		
Chain of Custody Filled Out:	ØYes □No	□n/a	2.		
Chain of Custody Relinquished:	ØYes □No	□n/a	3.		
Sampler Name & Signature on COC:	ØYes □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:	ØYes □No		10.		
Filtered volume received for Dissolved tests	□Yes □No	ØN/A	11.		
Sample Labels match COC:	⊠Yes □No	□n/a	12.		
-Includes date/time/ID/Analysis Matrix:					
Trip Blank Present:	□Yes □No	Øf\/A	13.		
Trip Blank Custody Seals Present	□Yes □No	⊠ Ñ/A			
Pace Trip Blank Lot # (if purchased):					
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:		Date/		see attached form for additional comments	
PM Review is documented electronically in LIMs	. By releasin	g the	project, the PM acknowle	dges they have reviewed the sample	

Qualtrax Document ID: 41292

Pace Analytical Services, LLC