



April 26, 2018

Robert Smith ATC Group Services 46555 Humboldt Suite 100 Novi, MI 48377

RE: Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Gary Wood

gary.wood@pacelabs.com

Composition

(616)940-4206 Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services Michael Hauswirth, ATC Group Services







CERTIFICATIONS

Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512 Minnesota Department of Health, Certificate #1385941 Arkansas Department of Environmental Quality, Certificate #17-046-0

Georgia Environmental Protection Division, Stipulation Illinois Environmental Protection Agency, Certificate #004325

Michigan Department of Environmental Quality, Laboratory

#0034

New York State Department of Health, Serial #56192 and 56193

North Carolina Division of Water Resources, Certificate

#659

Virginia Department of General Services, Certificate #9028 Wisconsin Department of Natural Resources, Laboratory #999472650

U.S. Department of Agriculture Permit to Receive Soil,

Permit #P330-17-00278



SAMPLE SUMMARY

Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4610695001	1-K-KF-1-P	Drinking Water	04/06/18 10:06	04/11/18 17:58
4610695002	1-K-KF-1-F	Drinking Water	04/06/18 10:08	04/11/18 17:58
4610695003	1-K-KF-2-P	Drinking Water	04/06/18 10:06	04/11/18 17:58
4610695004	1-K-KF-2-F	Drinking Water	04/06/18 10:08	04/11/18 17:58
4610695005	1-A-B-4-P	Drinking Water	04/06/18 10:10	04/11/18 17:58
4610695006	1-A-B-4-F	Drinking Water	04/06/18 10:12	04/11/18 17:58
4610695007	1-A-B-3-P	Drinking Water	04/06/18 10:10	04/11/18 17:58
4610695008	1-A-B-3-F	Drinking Water	04/06/18 10:14	04/11/18 17:58
4610695009	1-A-B-1-P	Drinking Water	04/06/18 10:19	04/11/18 17:58
4610695010	1-A-B-1-F	Drinking Water	04/06/18 10:21	04/11/18 17:58
4610695011	1-A-B-2-P	Drinking Water	04/06/18 10:22	04/11/18 17:58
4610695012	1-A-B-2-F	Drinking Water	04/06/18 10:24	04/11/18 17:58
4610695013	1-114-CF-1-P	Drinking Water	04/06/18 10:28	04/11/18 17:58
4610695014	1-114-CF-1-F	Drinking Water	04/06/18 10:30	04/11/18 17:58
4610695015	1-116-CF-1-P	Drinking Water	04/06/18 10:32	04/11/18 17:58
4610695016	1-116-CF-1-F	Drinking Water	04/06/18 10:34	04/11/18 17:58
4610695017	2-A-WC-1-P	Drinking Water	04/06/18 10:37	04/11/18 17:58
4610695018	2-A-WC-1-F	Drinking Water	04/06/18 10:39	04/11/18 17:58
4610695019	2-A-WC-2-P	Drinking Water	04/06/18 10:38	04/11/18 17:58
4610695020	2-A-WC-2-F	Drinking Water	04/06/18 10:40	04/11/18 17:58



SAMPLE ANALYTE COUNT

Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4610695001	1-K-KF-1-P	EPA 200.8	DWJ	2
4610695002	1-K-KF-1-F	EPA 200.8	DWJ	2
4610695003	1-K-KF-2-P	EPA 200.8	DWJ	2
4610695004	1-K-KF-2-F	EPA 200.8	DWJ	2
4610695005	1-A-B-4-P	EPA 200.8	DWJ	2
4610695006	1-A-B-4-F	EPA 200.8	DWJ	2
4610695007	1-A-B-3-P	EPA 200.8	DWJ	2
4610695008	1-A-B-3-F	EPA 200.8	DWJ	2
4610695009	1-A-B-1-P	EPA 200.8	DWJ	2
4610695010	1-A-B-1-F	EPA 200.8	DWJ	2
4610695011	1-A-B-2-P	EPA 200.8	DWJ	2
4610695012	1-A-B-2-F	EPA 200.8	DWJ	2
4610695013	1-114-CF-1-P	EPA 200.8	DWJ	2
4610695014	1-114-CF-1-F	EPA 200.8	DWJ	2
4610695015	1-116-CF-1-P	EPA 200.8	DWJ	2
4610695016	1-116-CF-1-F	EPA 200.8	DWJ	2
4610695017	2-A-WC-1-P	EPA 200.8	DWJ	2
4610695018	2-A-WC-1-F	EPA 200.8	DWJ	2
4610695019	2-A-WC-2-P	EPA 200.8	DWJ	2
4610695020	2-A-WC-2-F	EPA 200.8	DWJ	2



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-K-KF-1-P	Lab ID:	4610695001	Collecte	d: 04/06/18	3 10:06	Received: 04	/11/18 17:58 Ma	Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	392 <1.0	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 11:02 04/24/18 13:55		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-K-KF-1-F	Lab ID: 4610695002		Collecte	d: 04/06/18	3 10:08	Received: 04	/11/18 17:58 Ma	Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	26.5 1.5	ug/L ug/L	1.0 1.0	1300 15	1 1		04/24/18 14:01 04/24/18 14:01		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-K-KF-2-P	Lab ID:	Lab ID: 4610695003		d: 04/06/18	3 10:06	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	760 13.0	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 11:08 04/24/18 14:02		

(616)975-4500



ANALYTICAL RESULTS

Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Date: 04/26/2018 01:15 PM

Sample: 1-K-KF-2-F	Lab ID: 4610695004		Collecte	d: 04/06/18	3 10:08	Received: 04/	/11/18 17:58 Ma	atrix: Drinking \	Nater	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8									
Copper Lead	51.0 1.7	ug/L ug/L	1.0 1.0	1300 15	1 1		04/24/18 14:06 04/24/18 14:06			



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-A-B-4-P	Lab ID:	Lab ID: 4610695005		d: 04/06/18	3 10:10	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Nater
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
Copper Lead	179 8.2	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 11:09 04/24/18 14:07		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-A-B-4-F	Lab ID:	Collected: 04/06/18 10:12			Received: 04	/11/18 17:58 M	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
Copper Lead	59.4 2.3	ug/L ug/L	1.0 1.0	1300 15	1		04/24/18 14:09 04/24/18 14:09		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-A-B-3-P	Lab ID:	4610695007	Collecte	d: 04/06/18	3 10:10	Received: 04	I/11/18 17:58 M	Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	179 1.5	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 11:11 04/24/18 14:10		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-A-B-3-F	Lab ID:	4610695008	Collecte	d: 04/06/18	3 10:14	Received: 04	/11/18 17:58 M	Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper	24.4	ug/L	1.0	1300	1		04/24/18 14:11	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/24/18 14:11	7439-92-1	



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-A-B-1-P	Lab ID:	4610695009	Collecte	d: 04/06/18	3 10:19	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	21.8 <1.0	ug/L ug/L	1.0 1.0	1300 15	1 1		04/24/18 14:13 04/24/18 14:13		

(616)975-4500



ANALYTICAL RESULTS

Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-A-B-1-F	Lab ID: 4610695010		Collected: 04/06/18 10:21			Received: 04	/11/18 17:58 Ma	Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper	11.6	ug/L	1.0	1300	1		04/24/18 14:18	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/24/18 14:18	7439-92-1	



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-A-B-2-P	Lab ID:	4610695011	Collecte	d: 04/06/18	3 10:22	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	56.8 1.5	ug/L ug/L	1.0 1.0	1300 15	1 1		04/24/18 14:22 04/24/18 14:22		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-A-B-2-F	Lab ID:	4610695012	Collecte	d: 04/06/18	3 10:24	Received: 04	/11/18 17:58 Ma	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8							
Copper	27.0	ug/L	1.0	1300	1		04/24/18 14:23	7440-50-8		
Lead	<1.0	ug/L	1.0	15	1		04/24/18 14:23	7439-92-1		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Date: 04/26/2018 01:15 PM

Sample: 1-114-CF-1-P	Lab ID:	4610695013	Collecte	d: 04/06/18	10:28	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	283 5.0	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 11:12 04/24/18 14:25		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-114-CF-1-F	Lab ID:	4610695014	Collecte	d: 04/06/18	3 10:30	Received: 04	/11/18 17:58 M	latrix: Drinking \	Vater
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	19.9 <1.0	ug/L ug/L	1.0 1.0	1300 15	1 1		04/24/18 14:26 04/24/18 14:26		



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 1-116-CF-1-P	Lab ID:	4610695015	Collecte	d: 04/06/18	3 10:32	Received: 04	/11/18 17:58 Ma	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8							
Copper Lead	530 2.1	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 11:14 04/24/18 14:27			

(616)975-4500



ANALYTICAL RESULTS

Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Date: 04/26/2018 01:15 PM

Sample: 1-116-CF-1-F	Lab ID:	4610695016	Collecte	d: 04/06/18	3 10:34	Received: 04	/11/18 17:58 M	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8							
Copper Lead	42.3 <1.0	ug/L ug/L	1.0 1.0	1300 15	1 1		04/24/18 14:29 04/24/18 14:29			



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 2-A-WC-1-P	Lab ID:	4610695017	Collecte	d: 04/06/18	3 10:37	Received: 04	/11/18 17:58 M	atrix: Drinking \	Nater
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper	159	ug/L	5.0	1300	5		04/25/18 11:15		
Lead	<1.0	ug/L	1.0	15	1		04/24/18 14:30	7439-92-1	



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 2-A-WC-1-F	Lab ID:	4610695018	Collecte	d: 04/06/18	3 10:39	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper	73.0	ug/L	1.0	1300	1		04/24/18 14:31	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/24/18 14:31	7439-92-1	



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 2-A-WC-2-P	Lab ID:	4610695019	Collecte	d: 04/06/18	3 10:38	Received: 04	/11/18 17:58 Ma	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA								
Copper Lead	227 <1.0	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 11:21 04/24/18 14:38			



Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Sample: 2-A-WC-2-F	Lab ID:	4610695020	Collecte	d: 04/06/18	3 10:40	Received: 04	/11/18 17:58 M	Matrix: Drinking \	Vater
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA	200.8						
Copper Lead	95.3 <1.0	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 11:23 04/24/18 14:40		



QUALITY CONTROL DATA

Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Date: 04/26/2018 01:15 PM

QC Batch: 21149 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep

Associated Lab Samples: 4610695001, 4610695002, 4610695003, 4610695004, 4610695005, 4610695006, 4610695007, 4610695008,

4610695009, 4610695010, 4610695011, 4610695012, 4610695013, 4610695014, 4610695015, 4610695016,

4610695017, 4610695018

METHOD BLANK: 84302 Matrix: Water

Associated Lab Samples: 4610695001, 4610695002, 4610695003, 4610695004, 4610695005, 4610695006, 4610695007, 4610695008,

4610695009, 4610695010, 4610695011, 4610695012, 4610695013, 4610695014, 4610695015, 4610695016,

4610695017, 4610695018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/24/18 13:53	
Lead	ug/L	<1.0	1.0	04/24/18 13:53	

LABORATORY CONTROL	SAMPLE: 84	1303										
			Spike	LCS	3	LCS	% Red	;				
Parameter		Units	Conc.	Resu	ılt	% Rec	Limits	Qι	ualifiers			
Copper		ug/L	20		20.5	103	85	 5-115		•		
Lead		ug/L	20		19.8	99	85	i-115				
MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 84304			84305							
			MS	MSD								
		4610695001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	392	200	200	580	592	94	100	70-130	2	20	
Lead	ug/L	<1.0	20	20	20.7	21.3	99	102	70-130	3	20	
MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 84307			84308							
			MS	MSD								
		4610695009	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	21.8	20	20	41.8	42.4	100	103	70-130	1	20	
Lead	ua/L	<1.0	20	20	20.5	21.3	101	105	70-130	4	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.



QUALITY CONTROL DATA

Project: Ron Brown 188BS18122 4610695

Pace Project No.:

QC Batch: 21151

QC Batch Method: EPA 200.8 Analysis Method:

EPA 200.8

Analysis Description:

ICPMS Metals, No Prep

04/24/18 14:33

105

104

Associated Lab Samples: 4610695019, 4610695020

METHOD BLANK: 84310 Matrix: Water

Associated Lab Samples:

Copper

Copper

Lead

Copper

Lead

Lead

Lead

4610695019, 4610695020

Blank

20

Reporting

Result Parameter Units <1.0 ug/L ug/L <1.0 Limit Analyzed 04/24/18 14:33 1.0

1.0

LABORATORY CONTROL SAMPLE:

Parameter

Spike Parameter Units Conc. 20 ug/L

Units

ug/L

ug/L

ug/L

ug/L

84311

ug/L

4610696002

Result

445

7.0

3.4

LCS LCS Result % Rec 21.1

% Rec Limits Qualifiers

Qualifiers

85-115 85-115

106

103

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

84312 MS

Spike

Conc.

200

20

84313

MS

670

26.8

23.8

20.9

MSD Spike Conc. Result

200

20

MSD MS Result % Rec

656

27.7

MSD % Rec

% Rec Max Limits **RPD** RPD

Qual 70-130 2 20 70-130 3 20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

84315 MS

MSD

84316

20

MSD

MSD

113

99

% Rec Max **RPD** RPD Qual

4610696017 Parameter Units Result Copper 228 100

Spike Spike Conc. Conc.

20

MS Result 100 333

Result % Rec 331 105 23.6 102

MS

% Rec Limits 103 70-130 101

20 70-130 20 1

Date: 04/26/2018 01:15 PM

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: Ron Brown 188BS18122

Pace Project No.: 4610695

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting 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.

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: 04/26/2018 01:15 PM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ron Brown 188BS18122

Pace Project No.: 4610695

Date: 04/26/2018 01:15 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
4610695001	1-K-KF-1-P	EPA 200.8	<u>21149</u>		
4610695002	1-K-KF-1-F	EPA 200.8	21149		
4610695003	1-K-KF-2-P	EPA 200.8	21149		
4610695004	1-K-KF-2-F	EPA 200.8	21149		
4610695005	1-A-B-4-P	EPA 200.8	21149		
4610695006	1-A-B-4-F	EPA 200.8	21149		
4610695007	1-A-B-3-P	EPA 200.8	21149		
4610695008	1-A-B-3-F	EPA 200.8	21149		
1610695009	1-A-B-1-P	EPA 200.8	21149		
4610695010	1-A-B-1-F	EPA 200.8	21149		
4610695011	1-A-B-2-P	EPA 200.8	21149		
4610695012	1-A-B-2-F	EPA 200.8	21149		
4610695013	1-114-CF-1-P	EPA 200.8	21149		
4610695014	1-114-CF-1-F	EPA 200.8	21149		
4610695015	1-116-CF-1-P	EPA 200.8	21149		
4610695016	1-116-CF-1-F	EPA 200.8	21149		
4610695017	2-A-WC-1-P	EPA 200.8	21149		
4610695018	2-A-WC-1-F	EPA 200.8	21149		
4610695019	2-A-WC-2-P	EPA 200.8	21151		
4610695020	2-A-WC-2-F	EPA 200.8	21151		

CHAIN-OF-CUSTODY / Analytical Request Document */874/

Purchase Order No: Purchase Order No: S9-5147	Kedui	Sie		Donot To:						Physical Info							age.		of	4
Section Company Name Company N	Comp			Keport 10:	Roben	t Smith				Attention:		rt Smith			_				8	
Movil Mile 45977 Total Control Con	Addre		uite 100	Copy To:						Company	Name: A	TC Group S	ervices L	0	1010					
Section 10 National Contents National Co		Novi, MI 48377								Address:		5 Humboldt	Drive. Su	ife 100	REGULAI	JRY AGEN	ζζ			
Section Depart National National Program National Progr	Email			Purchase O	rder No.:					Pace Quote					NPDES		OUND WAT		DRINKING	G WATER
10 mays Project Number 1888 817.2 Project Number 1888 Pr	Phone.	248-669-5140	39-5147	Project Nam		on Brow				Reference.	5				I UST		34 4	L	OTHER	
Sample Day Wind force Codes Sample Day	Redne			Project Num		38BS181	22			Manager: Pace Profile	##				Site Location		M			
SAMPLE ID					-									Requested	Analysis Filt	prod (V/N)				
SAMPLEID	Water transcriptor		Valid Matrix C			(-UAIO	COL	LECTED			Presen	vatives								
Sample Dr Wist Be Undold: Ack KF-1-F			DRINKING WATER WATER WASTE WATER PRODUCT SOIL (SOILD)	W W W 0			MPOSITE	COMPOSITE END/GRAB	ECTION								1)			
1-K-KF-1-F DW 0 46/18 1006			OIL WIPE AIR OTHER TISSUE	OL WWP OT ST		10.6%			 NP AT COLI				ţìsəT				Λ\Y) əninc	3	(76	
1-K-KF-1-P 1-K-KF-1-F 1-K-KF-2-P 1-K-KF	ITEM #									Jnpreserve	ICI INO ³	a ₂ S ₂ O ₃ lethanol	siaylsnA	ЯЭААС			oldual Chlo			
1-K-KF-1-F	-	1-K-KF-1-F			_	┞	╀	┢	+	1	1 >	N	1	C	+		В	Pace F	Project No	o./ Lab I.D.
1-K-KF-2-P DW C 46/18 10.06 T X X X X X X X X X	2	1-K-KF-1-F	Н]	_		-				< >		×	×		+				
1-K-KF-2-F DW G 4/6/18 1/10 DW DW DW DW DW DW DW D	က	1-K-KF-2-F	۵	٦						-	< ×		× ;	× ;						
1-AB-4-P DW G 46/18 10:10 DW G 46/18 10:12 DW G 46/18 10:12 DW G 46/18 10:12 DW G 46/18 10:14 DW G 46/18 DW G	4	1-K-KF-2-F	ш	П						-	×		× ;	× ;						
1-A-B-4-F DW G 466/18 10:10 T T X T T X T T X T T	5	1-A-B-4-P								-	×		× >	× ;						
1-A-B-3-F DW G 4/6/18 10:14 DW G 4/6/18 10:14 DW G 4/6/18 10:14 DW G 4/6/18 10:14 DW G 4/6/18 10:15 DW G 4/6/18	9	1-A-B-4-F				-				-	< ×		× ;	× ;						
1-A-B-3-F DW G 46/18 10:14 1 X X	7	1-A-B-3-P		П		_				-	×		× ;	× ;						
1-A-B-1-F	8	1-A-B-3-F		۵		4/6/18				-	< ×		× >	× ;						
1-A-B-1-F DW G 46/18 10.21 1 X	6	1-A-B-1-P		۵		4/6/18				-	×		< >	× ;						
1-A-B-2-P DW G 4\text{6/18} 10:22 1	10	1-A-B-1-F				4/6/18				-	×		< >	× >						
1-A-B-2-F	11	1-A-B-2-P				4/6/18				_	×		+	< ;						
RELINQUISHED BY A FFILIATION DATE TIME ACCEPTED BY A FFILIATION DATE TIME WWW 325 CALL CALL CALL CALL CALL CALL CALL CAL	12	1-A-B-2-F		О		4/6/18	-			_	×		-	× >						
305 / M/ Ula 4/1/1/8/758 78 D. MAC din 4/1/1/8/758		ADDITIONAL COMMENTS		R	ELINQUI	ISHED BY	/ AFFILIATIC		E L	TIME		ACCEPTED	BY / AFFII	IATION	Trac					
Man 4/11/18 1758) Jacdin 4/11/181758				1	Sil.	1		Mai	17	723	1	1			81/1/C	John Bri		SAMPLE	CONDITION	4S
				Mr.	1	1	13	4/11/	1 81.	2X	0	1) / dec	17	>	0/////	1750				
														,	011110	100		-		
																			1	

"Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices noticed within 30 days.

PRINT Name of SAMPLER: Kimberly Johnson

SIGNATURE of SAMPLER:

Page 29 of 32

F-ALL-Q-020rev.08, 12-Oct-2007

Samples Intact (V/V)

Custody Sealed Cooler (Y/N)

Ice (Y/N) Received on

O° ni qmaT

4/6/18

567019H #

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document // g // /

Pace Project No./ Lab I.D. Samples Intact (Y/N) DRINKING WATER SAMPLE CONDITIONS OTHER Sealed Cooler Custody > Ice (Y/N) GROUND WATER Received on Residual Chlorine (Y/N) O° ni qmeT REGULATORY AGENCY Ξ RCRA Requested Analysis Filtered (Y/N) TIME STATE: Site Location 71/1/7 NPDES DATE UST ACCEPTED BY / AFFILIATION 45555 Humboldt Drive, Suite 100 COPPER Company Name: ATC Group Services LLC × × DAE. N/A Analysis Test Other Methanol Robert Smith Preservatives Na₂S₂O₃ NaOH HCI PRINT Name of SAMPLER: Kimberly Johnson **EONH** × × Pace Quote Reference: Pace Project Manager: Pace Profile #: [₹]OS[₹]H Section C Attention: Address: Unpreserved TIME 120 300 # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION 4/11/12 SIMIL DATE TIME COMPOSITE END/GRAB COLLECTED DATE RELINQUISHED BY / AFFILIATION TIME 10:28 10:30 10:32 10:39 10:34 10:37 10:38 10:40 COMPOSITE 188BS18122 DATE 4/6/18 4/6/18 4/6/18 Ron Brown 4/6/18 4/6/18 4/6/18 4/6/18 4/6/18 Report To: Robert Smith (G=GRAB C=COMP) G O O SAMPLE TYPE ഗ O O O O urchase Order No. roject Number: (see valid codes to left) <u>≥</u> MATRIX CODE N NO NO MO N_O N_O NO roject Name: Section B Copy To: Valid Matrix Codes
MATRIX CODE
DRINKING WATER WY
WATER WY
PRODUCT SIL DW WY WW SL OL OL OL OT TS 45555 Humboldt Drive, Suite 100 Fax: 248-669-5147 OIL WIPE AIR OTHER TISSUE 1-116-CF-1-F 1-114-CF-1-P 1-114-CF-1-F 1-116-CF-1-P 2-A-WC-1-P 2-A-WC-1-F 2-A-WC-2-P 2-A-WC-2-F ATC Group Services LLC robert.smith@atcgs.com ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE SAMPLE ID Novi, MI 48377 Required Client Information 248-669-5140 Requested Due Date/TAT: Section D Section A Email To: ddress: Phone: 10 es 1 # MHTI N 4 2 œ 6 12 9

F-ALL-Q-020rev.08, 12-Oct-2007

4/6/18

DATE Signed (MIM/DD/YY):

SIGNATURE of SAMPLER:

(N/X)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1,5% per month for any invoices not helid with p/30 days.

Page 30 of 32

Ø		SAMPLE RECEIVING	G / LOG-IN CHECKLIS	ST.
	Pace Analytic	® Client		Order#: 46/8695
1-	i accmiaiyiic	Receipt Record Page/Line #	New / Add to Project Chemist Sample	-/0/06/) le#s
Recorded by	(initials/date)	☐ Cooler ☐ Qty Receiv		
50	44-12-18		Thermometer Used Digital Thermom	eter (#54) See Additional Cooler Information Form
Cooler#	33/ Time/04	Cooler # Time	Cooler # Time	Cooler # Time
Custody Sea	as: one	Custody Seals:	Custody Seals:	Custody Seals:
	esent / Intact	☐ None ☐ Present / Intact	□ None	□ None
	esent / Not Intact	☐ Present / Not Intact	☐ Present / Intact ☐ Present / Not Intact	☐ Present / Intact ☐ Present / Not Intact
Coolant Type		Coolant Type:	Coolant Type:	Coolant Type:
	obse Ice agged Ice	□ Loose Ice	☐ Loose Ice	Loose Ice
	ue Ice	☐ Bagged Ice☐ Blue Ice	☐ Bagged Ice	☐ Bagged Ice
	ne	None	☐ Blue Ice ☐ None	☐ Blue Ice
Coolant Loca		Coolant Location:	Coolant Location:	☐ None Coolant Location:
Dispersed /	Top / Middle / Bottom	Dispersed / Top / Middle / Bottom		Dispersed / Top / Middle / Bottom
	resent: Yes No	Temp Blank Present: ☐ Yes ☐ No	Temp Blank Present: Yes No	Temp Blank Present: Yes No
	mperature Blank Location is:	If Present, Temperature Blank Location is:	If Present, Temperature Blank Location is:	If Present, Temperature Blank Location is:
Represer		Representative Not Representative	Representative Not Representative	☐ Representative ☐ Not Representative
Temp Blank:	*C Factor *C Actual *C	Observed Correction Factor °C Actual °C	Observed Correction o'C Factor o'C Actual o'C	Observed Correction Factor °C Actual °C
		Temp Blank:	Temp Blank:	Temp Blank:
Sample 1:	9.50 19.5	Sample 1:	Sample 1:	Sample 1:
Sample 2:	9.6 0 19.6	Sample 2:	Sample 2:	Sample 2:
Sample 3:	9.00 19.8	Sample 3:		
1/		3	Sample 3:	Sample 3:
	101:11	•		
	verage °C: // 6	3 Sample Average °C:	3 Sample Average °C:	3 Sample Average °C:
☐ Cooler II	on COC? Blank received?	□ Cooler ID on COC?	☐ Cooler ID on COC?	☐ Cooler ID on COC?
☐ Cooler II	on COC? Blank received?	Cooler ID on COC? VOC Trip Blank received?	Cooler ID on COC? VOC Trip Blank received?	☐ Cooler ID on COC? ☐ VOC Trip Blank received?
Cooler II	on COC? Blank received? If <u>any</u> shaded ar	Cooler ID on COC? VOC Trip Blank received?	Cooler ID on COC? VOC Trip Blank received? Receiving Non-Conformance and/or	☐ Cooler ID on COC? ☐ VOC Trip Blank received?
Cooler II	on COC? Blank received? If <u>any</u> shaded ar Received	Cooler ID on COC? VOC Trip Blank received?	Cooler ID on COC? VOC Trip Blank received? Receiving Non-Conformance and/or	☐ Cooler ID on COC? ☐ VOC Trip Blank received?
Cooler II VOC Tri	on COC? Blank received? If any shaded ar Received	Cooler ID on COC? VOC Trip Blank received? Ceas checked, complete Sample F	Check Sample Preservation N/A Yes No	Cooler ID on COC? VOC Trip Blank received?
Cooler III VOC Tri	on COC? Blank received? If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date	Cooler ID on COC? VOC Trip Blank received? Ceas checked, complete Sample F	Cooler ID on COC? VOC Trip Blank received? VOC Trip Blank received? Check Sample Preservation N/A Yes No	Cooler ID on COC? VOC Trip Blank received? r Inventory Form k OR average sample temperature, ≥6° C?
Paperworl Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document?	Cooler ID on COC? VOC Trip Blank received? Ceas checked, complete Sample F	Check Sample Preservation N/A Yes No Temperature Blan If either is ≥6° C, v	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ik OR average sample temperature, ≥6° C? was thermal preservation required?
Paperworl Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other	Cooler ID on COC? VOC Trip Blank received? Ceas checked, complete Sample F	Cooler ID on COC? VOC Trip Blank received? VOC Trip Blank received? Check Sample Preservation	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ik OR average sample temperature, ≥6° C? was thermal preservation required? t Chemist Approval Initials:
Paperwork Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation	Cooler ID on COC? VOC Trip Blank received? Ceas checked, complete Sample F	Cooler ID on COC? VOC Trip Blank received? VOC Trip Blank received? Check Sample Preservation	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ik OR average sample temperature, ≥6° C? was thermal preservation required?
Paperworl Yes No COC Infor	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation Other	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Cooler ID on COC? VOC Trip Blank received? VOC Trip Blank received? Check Sample Preservation	Cooler ID on COC? VOC Trip Blank received? Inventory Form Rk OR average sample temperature, ≥6° C? was thermal preservation required? t Chemist Approval Initials: ted Non Con Cooler - Cont Inventory Form? e Preservation Verification Form?
Paperwork Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation Other	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Cooler ID on COC? VOC Trip Blank received? VOC Trip Blank received? VOC Trip Blank received? Check Sample Preservation N/A	Cooler ID on COC? VOC Trip Blank received? Inventory Form Rk OR average sample temperature, ≥6° C? was thermal preservation required? t Chemist Approval Initials: eted Non Con Cooler - Cont Inventory Form? e Preservation Verification Form? lly preserved correctly? nge tag?
Paperworl Yes No COC Infor	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation Other	Cooler ID on COC? VOC Trip Blank received? Ceas checked, complete Sample F	Check Sample Preservation N/A Yes No Temperature Blan If either is ≥6° C, v If "Yes", Project Completed Sample Completed Sample Received pre-preservation Received pre-preservation	Cooler ID on COC? VOC Trip Blank received? Inventory Form Rk OR average sample temperature, ≥6° C? was thermal preservation required? t Chemist Approval Initials: eted Non Con Cooler - Cont Inventory Form? e Preservation Verification Form? lly preserved correctly? nge tag?
Paperworl Yes No COC Inform Pace COC COC ID Number	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other Thation C Other Ders:	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Check Sample Preservation N/A Yes No Temperature Blan If either is ≥6° C, V If "Yes" Completed Sample Completed Sample Completed Sample Completed Sample Received pre-preservation Received pre-preservation	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ik OR average sample temperature, ≥6° C? was thermal preservation required? It Chemist Approval Initials: teted Non Con Cooler - Cont Inventory Form? Preservation Verification Form? Illy preserved correctly? Inge tag? Served VOC soils? Na₂SO₄
Paperworl Yes No COC Inform Pace COC COC ID Number	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation C Other Cers: If any shaded ar Received for Lab Signed/Date Control of the control of the certain of	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Check Sample Preservation N/A Yes No Temperature Blan If either is ≥6° C, V If "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Received pre-preservation MeOH Check for Short Hold-Time Prep/Ar	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ik OR average sample temperature, ≥6° C? was thermal preservation required? It Chemist Approval Initials: teted Non Con Cooler - Cont Inventory Form? Preservation Verification Form? Illy preserved correctly? Inge tag? Served VOC soils? Na₂SO₄
Paperworl Yes No COC Infor Pace CO COC ID Numb Check CO Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation C Other Cers: If any shaded ar Received for Lab Signed/Date Shipping document? Other Cother Cother Cers: Analysis Requested?	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Check Sample Preservation N/A Yes No Temperature Blant If either is ≥6° C, V If "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Received pre-preservation Received pre-preservation MeOH Check for Short Hold-Time Prep/Ar	Cooler ID on COC? VOC Trip Blank received? Inventory Form It OR average sample temperature, ≥6° C? was thermal preservation required? It Chemist Approval Initials: Leted Non Con Cooler - Cont Inventory Form? Preservation Verification Form? It preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ nalyses
Paperworl Yes No COC Infor Pace CO COC ID Numb Check CO Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other Ination Control Co	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Check Sample Preservation N/A Yes No If either is ≥6° C, V If "Yes", Project If "Yes" Completed Sample Completed Sa	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ik OR average sample temperature, ≥6° C? was thermal preservation required? t Chemist Approval Initials: ted Non Con Cooler - Cont Inventory Form? Preservation Verification Form? Illy preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Inalyses AFTER HOURS ONLY:
Paperworl Yes No COC Infor Pace CO COC ID Numb Check CO Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other Thation Comparison Compa	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Check Sample Preservation N/A Yes No Temperature Blant if "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Received pre-prese MeOH Check for Short Hold-Time Prep/Art Bacteriological Air Bags	Cooler ID on COC? VOC Trip Blank received? Inventory Form It k OR average sample temperature, ≥6° C? was thermal preservation required? t Chemist Approval Initials: eted Non Con Cooler - Cont Inventory Form? e Preservation Verification Form? Illy preserved correctly? Inge tag? served VOC soils? Na₂SO₄ nalyses AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S)
Paperworl Yes No COC Infor Pace CO COC ID Numb Check CO Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other Ination C Other Cers: C for Accuracy Analysis Requested? Sample ID matches COC? Sample Date and Time match Container type completed on the	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Check Sample Preservation N/A Yes No Temperature Blant if "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Preserved pre-preserved Check for Short Hold-Time Prep/Art Bacteriological Air Bags EnCores / Methanol Pre-Preserved	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ik OR average sample temperature, ≥6° C? was thermal preservation required? t Chemist Approval Initials: ted Non Con Cooler - Cont Inventory Form? Preservation Verification Form? Illy preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Inalyses AFTER HOURS ONLY:
Paperworl Yes No COO Inform Pace CO COC ID Numb Check CO Yes No	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other Thation Container type completed on CAII container types indicated a	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time?	Check Sample Preservation N/A Yes No Temperature Bland If either is ≥6° C, No If "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Completed Sample Received pre-prese MeOH Check for Short Hold-Time Prep/Art Bacteriological Air Bags EnCores / Methanol Pre-Preserved Formaldehyde/Aldehyde	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ink OR average sample temperature, ≥6° C? Was thermal preservation required? It Chemist Approval Initials: Seted Non Con Cooler - Cont Inventory Form? In Preservation Verification Form? In Preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Inalyses AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) NONE RECEIVED RECEIVED, COCS TO LAB(S)
Paperworl Yes No COC Infor Pace CO COC ID Numb Check CO Yes No Sample Co	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation C Other ers: Other Sample ID matches COC? Sample Date and Time match Container type completed on of All container types indicated a	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time? The cooler ID on COC? The cooler ID on Cooler ID o	Check Sample Preservation N/A Yes No Temperature Bland If either is ≥6° C, No If "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Completed Sample Preserved If "No", added orated pre-preserved Bacteriological Air Bags EnCores / Methanol Pre-Preserved Formaldehyde/Aldehyde Green-tagged containers	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ink OR average sample temperature, ≥6° C? Was thermal preservation required? It Chemist Approval Initials: Seted Non Con Cooler - Cont Inventory Form? In Preservation Verification Form? In Preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Inalyses AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) NONE RECEIVED RECEIVED, COCS TO LAB(S)
Check CO Yes No Yes No COC Infor Pace CO COC ID Numb Check CO Yes No Sample Co N/A Yes	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other mation C Other ers: Other Sample ID matches COC? Sample Date and Time match Container type completed on of All container types indicated a ndition Summary No	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time? The cooler ID on COC? The cooler ID on Cooler ID o	Check Sample Preservation N/A Yes No Temperature Blan If either is ≥6° C, No If "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Completed Sample Received pre-preserved Bacteriological Air Bags EnCores / Methanol Pre-Preserved Formaldehyde/Aldehyde Green-tagged containers Yellow/White-tagged 1 L ambers (SV Preserved)	Cooler ID on COC? VOC Trip Blank received? Inventory Form Ink OR average sample temperature, ≥6° C? Was thermal preservation required? It Chemist Approval Initials: Seted Non Con Cooler - Cont Inventory Form? In Preservation Verification Form? In Preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Inalyses AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) NONE RECEIVED RECEIVED, COCS TO LAB(S)
Paperworl Yes No Coo Infor Pace CO COC ID Numb Check CO Yes No Sample Co N/A Yes	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation Cother Sers: Cfor Accuracy Analysis Requested? Sample ID matches COC? Sample Date and Time match Container type completed on All container types indicated a ndition Summary No Broken containers/I	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time? Ines COC? COC? Inter received?	Check Sample Preservation N/A Yes No Temperature Blan If either is ≥6° C, No If "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Completed Sample Received pre-preserved Bacteriological Air Bags EnCores / Methanol Pre-Preserved Formaldehyde/Aldehyde Green-tagged containers Yellow/White-tagged 1 L ambers (SV Preserved)	Cooler ID on COC? VOC Trip Blank received? Inventory Form It k OR average sample temperature, ≥6° C? Was thermal preservation required? It Chemist Approval Initials: Seted Non Con Cooler - Cont Inventory Form? It preservation Verification Form? It preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Na₂SO₄ AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) NONE RECEIVED RECEIVED, COCS TO LAB(S)
Check CO Yes No COC ID Numb Check CO COC ID Numb Check CO Yes No COC ID Numb Check CO COC ID Numb Check COC	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time? The second coc? The second cocc cocc? The second cocc cocc? The received?	Check Sample Preservation N/A Yes No Temperature Blan If either is ≥6° C, No If "Yes", Project If "Yes" Completed Sample Completed Sample Completed Sample Completed Sample Received pre-preserved Bacteriological Air Bags EnCores / Methanol Pre-Preserved Formaldehyde/Aldehyde Green-tagged containers Yellow/White-tagged 1 L ambers (SV Preserved)	Cooler ID on COC? VOC Trip Blank received? Inventory Form It k OR average sample temperature, ≥6° C? Was thermal preservation required? It Chemist Approval Initials: Seted Non Con Cooler - Cont Inventory Form? It preservation Verification Form? It preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Na₂SO₄ AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) NONE RECEIVED RECEIVED, COCS TO LAB(S)
Paperworl Yes No Coo Infor Pace CO COC ID Numb Check CO Yes No Sample Co N/A Yes	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other nation Cfor Accuracy Analysis Requested? Sample ID matches COC? Sample Date and Time match Container type completed on All container types indicated a condition Summary No Broken containers/I Missing or incomple Illegible information	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time? The second coc? The second cocc cocc? The received? The second cocc cocc cocc? The received?	Cooler ID on COC? VOC Trip Blank received? Check Sample Preservation	Cooler ID on COC? VOC Trip Blank received? Inventory Form It OR average sample temperature, ≥6° C? was thermal preservation required? It Chemist Approval Initials: eted Non Con Cooler - Cont Inventory Form? It preservation Verification Form? It preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Tallyses AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) NONE RECEIVED RECEIVED, COCS TO LAB(S)
Paperworl Yes No COC Infor Pace CO COC ID Numb Check CO Yes No Sample Co N/A Yes	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time? The second coc? The second cocc cocc? The second cocc cocc? The second cocc cocc? The second cocc cocc cocc cocc? The second cocc cocc cocc cocc cocc cocc cocc	Cooler ID on COC? VOC Trip Blank received? Check Sample Preservation	Cooler ID on COC? VOC Trip Blank received? Inventory Form It OR average sample temperature, ≥6° C? was thermal preservation required? It Chemist Approval Initials: eted Non Con Cooler - Cont Inventory Form? It Preservation Verification Form? Illy preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Inalyses AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) NONE RECEIVED RECEIVED, COCs TO LAB(S) Tep-Lab)
Paperworl Yes No Cooler III	If any shaded ar Received Chain of Custody record(s)? Received for Lab Signed/Date Shipping document? Other	Cooler ID on COC? VOC Trip Blank received? Teas checked, complete Sample F If No, Initiated By e/Time? The second coc? The second cocc cocc? The received? The second cocc cocc cocc? The received?	Cooler ID on COC? VOC Trip Blank received? Check Sample Preservation	Cooler ID on COC? VOC Trip Blank received? Inventory Form It OR average sample temperature, ≥6° C? was thermal preservation required? It Chemist Approval Initials: eted Non Con Cooler - Cont Inventory Form? It preservation Verification Form? It preserved correctly? Inge tag? Served VOC soils? Na₂SO₄ Tallyses AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) NONE RECEIVED RECEIVED, COCS TO LAB(S)

Receipt Log #	//(•									Work Orde	er#	4/1/	CATION
	4.	6-4	<u> 3</u>			Complete	d By (initials/d	date)	-15	and	Project Ma	nager	6/04	
COC ID#	18,	740	j			8		Adjusted						pH Strip gent or Lot#
Container Type	5 /	23		4	T	13		Date:		15				HC727135
Preservative	NaOH		H ₂ SO ₂			0 ₄ <2	HNO		HNO	O ₃ <2			-	Other
pH COC Line #1	Received	Adjusted	Received	Adjusted	Receive	d Adjusted	Received	d Adjusted		ed Adjuste	d Received	Adjusted		
							1							heck mark in t
COC Line #2													Received	box if pH is e. If pH is no
COC Line #3											1		acceptabl	e, document t
COC Line #4							1./						Received	and Adjusted
OC Line #5							1		-				pH values appropriat	in the te columns (al
OC Line #6							V		-				adjustmer	its must be
DC Line #7							//						manager)	by the project Never add
OC Line #8							1						more than	2x the defaul
OC Line #9							1						table below	on volume (se w for default
C Line #10						-	V						volumes).	Complete an
							V						attach an o	orange on tag to all
C Line #11							1/						adjusted s	amples. A
Line #40							. /						Cample D.	
							V						Conformar	mpleted if a
oc Line #12 mments:	18%	74/	/				Į V	Adjusted by	y:				Conformar must be co	nce Report Empleted if a ment was Default
ments:	187		4			3		Date:					Conformar must be co pH adjustn required.	nce Report completed if a nent was Default Preservative
ments: D# inner Type esservative	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	1 H ₂ SO ₄	3 <2	6	Date:		15 <2			Conformar must be co pH adjustn required. Container Size (mL)	nce Report Empleted if a ment was Default
ments: D# iner Type eservative pH R	5/2	3 12	4	<2	H ₂ SO ₄	<2		Date:	HNO ₃	<2	Received	Adjusted	Conformar must be co pH adjustn required.	nce Report completed if a nent was Default Preservative
ments: D# ainer Type eservative pH R Line#1	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	6 HNO ₃ 4	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL)	Default Preservative Volume (mL)
ainer Type reservative pH R C Line #1 C Line #2	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	6 HNO ₃ 4	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container	Default Preservative Volume (mL) 1.3
ments: ID # ainer Type eservative pH R C Line #1 C Line #2 C Line #3	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	6 HNO ₃ 4	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23	Default Preservative Volume (mL) 1.3 H ₂ SO ₄
ainer Type reservative pH R C Line #1 C Line #2 C Line #3	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	6 HNO ₃ 4	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5
ainer Type eservative pH R C Line #1 C Line #2 C Line #3 C Line #4	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	6 HNO3 Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0
ainer Type eservative pH R C Line #1 C Line #2 C Line #3 C Line #4 C Line #5	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	6 HNO3 Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0
ainer Type eservative pH R C Line #1 C Line #2 C Line #4 C Line #5 C Line #6	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	6 HNO3 Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0
ainer Type reservative pH R C Line #1 C Line #3 C Line #4 C Line #5 C Line #6 C Line #7	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	6 HNO3 Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0
tainer Type reservative pH RC Line #1 CC Line #3 CC Line #4 CC Line #5 CC Line #6 CC Line #7 CC Line #8	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0
ainer Type reservative pH R C Line #1 C Line #2 C Line #4 C Line #5 C Line #6 C Line #7 C Line #8	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄
ments: D# ainer Type eservative pH R Line #1 Line #2 Line #3 Line #4 Line #5 Line #6 Line #7 Line #8 Line #9 Line #10	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5
Tainer Type reservative pH R C Line #1 C Line #2 C Line #3 C Line #4 C Line #5 C Line #6 C Line #8 C Line #8 C Line #8 C Line #9 Line #10 Line #11	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container Type 6 / 15	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5 HNO ₃
ments: ID # ainer Type eservative pH R C Line #1 C Line #2 C Line #3 C Line #4 C Line #5 Line #6 Line #7 Line #8 Line #9 Line #10	5 / 2 NaOH >	3 12	4 H ₂ SO ₄ <	<2	H ₂ SO ₄	<2	Received	Date:	HNO ₃	<2	Received	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container Type 6 / 15 125	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5 HNO ₃ 0.7