



September 13, 2018

Mathew Sam
Detroit Public Schools
1601 Farnsworth
Detroit, Michigan 48202

SUBMITTED VIA EMAIL TO: mathew.sam@detroitk12.org

SUBJECT: Drinking Water Screening Report-DRAFT

Mann Elementary School 19625 Elmira Street Detroit, Michigan

Dear Mr. Sam:

ATC Group Services, LLC (ATC) is pleased to submit this Drinking Water Screening Report for the subject school. The drinking water samples collected from the school were submitted to Pace Analytical Services, LLC, for Michigan Department of Environmental Quality (MDEQ) Drinking Water Certified lead and copper analysis.

SCOPE OF WORK

At the request of the Detroit Public Schools (DPS), ATC collected drinking water samples as a general screening for copper and lead at the subject school. The water sampling conducted included the sampling of fixtures within teacher's lounges, kitchens, water fountains and pre-k classrooms. One (1) sample was collected at each outlet: a first draw (Primary) sample. The Primary samples were collected from outlets that had been inactive for a minimum of eight to eighteen hours. The fixture inventory locations including the sample locations are shown on the Fixture Inventory Locations Map included under Attachment A and fixture inventory photos including the sample location photos are included in a Fixture Inventory Photo Log under Attachment B.

The drinking water samples were collected in 125 milliliter, wide-mouth sample containers, containing nitric acid (preservative). Each sample container was labeled utilizing a unique coding system that identified: the type of drinking outlet sampled as well as the location.



The samples were transported under chain of custody to Pace Analytical Services, LLC, located at 5560 Corporate Exchange Ct. SE Grand Rapids, MI for MDEQ drinking water certified lead and copper analysis, using analytical method EPA 200.8 rev 5.4.

FINDINGS

Analytical results indicate that one (1) of the samples analyzed were above the EPA recommended limits of 15 micrograms per liter (ug/L) for lead. None of the samples analyzed were above the EPA recommended limits of 1300 micrograms per liter (ug/L) for copper. The table below summarizes the analytical results for the samples submitted. The laboratory analytical reports and chain of custody are provided in Attachment C.

Table 1 – Water Testing Results (August 30, 2018)

Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-Hall@TL-B1	Hall across from teacher's lounge	Bubbler - left	6.2 ug/L	16.5 ug/L
1-Hall@TL-B2	Hall across from teacher's lounge	Bubbler - right	8.5 ug/L	7.5 ug/L
1-107-B-4	Hall between rooms	Bubbler	72.7 ug/L	105 ug/L
2-Hall@207-B-6	Hall across from room 207	Bubbler - left	10.9 ug/L	147 ug/L
2-Hall@207-B-7	Hall across from room 207	Bubbler - right	10.6 ug/L	138 ug/L
2-Hall@210-B-8	Hall to the right of room 210	Bubbler - left	7.0 ug/L	38.2 ug/L
2-Hall@210-B-9	Hall to the right of room 210	Bubbler - right	3.5 ug/L	24.6 ug/L
1-Hall@Kit-B-10	Hall to the right of custodial closet, near the kitchen	Bubbler - left	2.8 ug/L	55 ug/L
1-Hall@Kit-B-11	Hall to the right of custodial closet, near the kitchen	9.9 ug/L Bubbler - right		84.1 ug/L
1-Kitchen-KF-12	Kitchen	Kitchen Faucet (dish washing)	2.7 ug/L	401 ug/L

46555 Humboldt Drive Novi, Michigan 48377 Telephone 248-669-5140 www.atcgroupservices.com



Key: NA - Not Analyzed

ug/L- micrograms per liter /parts per billion (ppb)

Analysis of samples of the bubbler in the hall between rooms near room 107 indicate that lead levels were above the MCL. No samples indicate that copper levels were above the MCL. See recommendations below.

RECOMMENDATIONS

For drinking water fixtures that exceed the MCL after the initial sampling, ATC recommends the following:

- Implement a plan in accordance with MDEQ Guidance on Drinking Water Sampling for Lead and Copper, April, 2016 Version2; OR
- 2. Remove fixture from service.
- 3. Implement a flush plan for fixtures that exceed the MCL of the initial sample according to MDEQ Guidance and the EPA's 3T's for Reducing Lead in Drinking Water in Schools.

LIMITATIONS

The sampling and analysis completed was: a preliminary screening for lead and copper only, to assess lead and copper concentrations (ug/L) at drinking water outlets in the school designated as high use by DPS, and may not be representative of all drinking water outlets within the school. If lead or copper concentrations were identified above their respective MCL's at any of the drinking water outlets tested, further review of the plumping system, fixtures affected, and testing may be completed to assess the source of the elevated levels of lead and/or copper, as well as, any other response actions deemed necessary by DPS.

Future drinking water evaluation and sampling in accordance with the recommendations may be predicated on applicable guidelines by the MDEQ or EPA and will be determined prior to developing a sampling plan for the school.

Sincerely,

ATC Group Services, LLC

Marta & Samble

Martin K. Gamble Senior Project Manager Robert C. Smith
Building Science Department Manager

obent C. Ruiz



46555 Humboldt Drive Novi, Michigan 48377 Telephone 248-669-5140 www.atcgroupservices.com

Attachments

Attachment A: Fixture Inventory Locations Map/Form

Attachment B: Fixture Inventory Photo Log Attachment C: Laboratory Analytical Report School Name:

Mann Elementary School

Address

19625 Elmira Street, Detroit, MI 48228

Fixture Identification	Fixture Location	Fixture Description	Photo #
1-Hall@TL-B1	Hall across from teacher's lounge	Bubbler - left	1
1-Hall@TL-B2	Hall across from teacher's lounge	Bubbler - right	2
1-107-CF-3	Room 107 (pre K)	Classroom Faucet	3
1-107-B-4	Hall between rooms	Bubbler	4
1-111-CF-5	Room 111 (pre K)	Classroom Faucet	5
2-Hall@207-B-6	Hall across from room 207	Bubbler - left	6
2-Hall@207-B-7	Hall across from room 207	Bubbler - right	7
2-Hall@210-B-8	Hall to the right of room 210	Bubbler - left	8
2-Hall@210-B-9	Hall to the right of room 210	Bubbler - right	9
1-Hall@Kit-B-10	Hall to the right of custodial closet, near the kitchen	Bubbler - left	10
1-Hall@Kit-B-11	Hall to the right of custodial closet, near the kitchen	Bubbler - right	11

School Name:	Mann Elementary School
Addross	10625 Elmira Street Datroit MI 49229
Address	19625 Elmira Street, Detroit, MI 48228

Fixture Identification	Fixture Location	Fixture Description	Photo #
1-Kitchen-KF-12	Kitchen	Kitchen Faucet (dish washing)	12
1-Kitchen-KF-13	Kitchen	Kitchen Faucet (hand washing)	13

FIXTURE INVENTORY PHOTOLOG Mann Elementary School Detroit, Michigan



Photo 1: Bubbler, located in a 1st floor hallway, across from the teacher's lounge – left fixture.



Photo 2: Bubbler, located in a 1st floor hallway, across from the teacher's lounge – right fixture.



Photo 3: Classroom faucet, located on the 1st floor, in room 107 (pre K).



Photo 4: Bubbler, located on the 1st floor, in the hallway between rooms.



Photo 5: Classroom faucet, located on the 1st floor, in room 111 (pre K).



Photo 6: Bubbler, located in a 2nd floor hallway, across from room 207 – left fixture.

FIXTURE INVENTORY PHOTOLOG

Mann Elementary School Detroit, Michigan



Photo 7: Bubbler, located in a 2nd floor hallway, across from room 207 – right fixture.



Photo 8: Bubbler, located in a 2nd floor hallway, to the right of room 210 – left fixture.



Photo 9: Bubbler, located in a 2nd floor hallway, to the right of room 210 – right fixture.



Photo 10: Bubbler, located in a 1st floor hallway, to the right of the custodial closet, near the kitchen – left fixture.



Photo 11: Bubbler, located in a 1st floor hallway, to the right of the custodial closet, near the kitchen – right fixture.



Photo 12: Kitchen faucet, located on the 1st floor, in the kitchen (dish washing).

FIXTURE INVENTORY PHOTOLOG Mann Elementary School Detroit, Michigan



Photo 13: Kitchen faucet, located on the 1st floor, in the kitchen (hand washing).



August 30, 2018

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

RE: Project: Mann Elementary School

Pace Project No.: 4616518

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on August 17, 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,

Will Cole will.cole@pacelabs.com (616)975-4500 Project Manager

Enclosures

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







CERTIFICATIONS

Project: Mann Elementary School

Pace Project No.: 4616518

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

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

Michigan Department of Environmental Quality, Laboratory

#0034

New York State Department of Health, Serial #57971 and 57972

North Carolina Division of Water Resources, Certificate

#659

Virginia Department of General Services, Certificate #9780 Wisconsin Department of Natural Resources, Laboratory #999472650

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

Permit #P330-17-00278



SAMPLE SUMMARY

Project: Mann Elementary School

Pace Project No.: 4616518

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4616518001	1-Hall@TL-B1	Drinking Water	08/16/18 11:40	08/17/18 18:00
4616518002	1-Hall@TL-B2	Drinking Water	08/16/18 11:41	08/17/18 18:00
4616518003	1-107-B-4	Drinking Water	08/16/18 11:45	08/17/18 18:00
4616518004	2-Hall@207-B-6	Drinking Water	08/16/18 11:49	08/17/18 18:00
4616518005	2-Hall@207-B-7	Drinking Water	08/16/18 11:50	08/17/18 18:00
4616518006	2-Hall@210-B-8	Drinking Water	08/16/18 11:52	08/17/18 18:00
4616518007	2-Hall@210-B-9	Drinking Water	08/16/18 11:53	08/17/18 18:00
4616518008	1-Hall@Kit-B-10	Drinking Water	08/16/18 11:55	08/17/18 18:00
4616518009	1-Hall@Kit-B-11	Drinking Water	08/16/18 11:56	08/17/18 18:00
4616518010	1-Kitchen-KF-12	Drinking Water	08/16/18 11:59	08/17/18 18:00



SAMPLE ANALYTE COUNT

Project: Mann Elementary School

Pace Project No.: 4616518

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4616518001	1-Hall@TL-B1	EPA 200.8	NHAM	2
4616518002	1-Hall@TL-B2	EPA 200.8	NHAM	2
4616518003	1-107-B-4	EPA 200.8	NHAM	2
4616518004	2-Hall@207-B-6	EPA 200.8	NHAM	2
4616518005	2-Hall@207-B-7	EPA 200.8	NHAM	2
4616518006	2-Hall@210-B-8	EPA 200.8	NHAM	2
4616518007	2-Hall@210-B-9	EPA 200.8	NHAM	2
4616518008	1-Hall@Kit-B-10	EPA 200.8	NHAM	2
4616518009	1-Hall@Kit-B-11	EPA 200.8	NHAM	2
4616518010	1-Kitchen-KF-12	EPA 200.8	NHAM	2



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 1-Hall@TL-B1	Lab ID: 4616518001		@TL-B1 Lab ID: 4616518001 Collected: 08/16/18 11:40 Rece		Received: 08/17/18 18:00 Matrix: Drinking Wat			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	16.5 6.2	ug/L ug/L	1.0 1.0	1300 15	1		08/28/18 15:12 08/28/18 15:12		



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 1-Hall@TL-B2	Lab ID:	4616518002	Collecte	Collected: 08/16/18 11:41			17/18 18:00 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	7.5 8.5	ug/L ug/L	1.0 1.0	1300 15	1 1		08/28/18 15:13 08/28/18 15:13			



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 1-107-B-4	Lab ID: 4616518003		Collected: 08/16/18 11:45			Received: 08	/17/18 18:00 M	3:00 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	105	ug/L	1.0	1300	1		08/28/18 15:35	7440-50-8	
Lead	72.7	ug/L	1.0	15	1		08/28/18 15:35	7439-92-1	



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 2-Hall@207-B-6	Lab ID:	4616518004	616518004 Collected: 08/16/18 11:49			Received: 08	/17/18 18:00 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	147	ug/L	1.0	1300	1		08/28/18 15:36		
Lead	10.9	ug/L	1.0	15	1		08/28/18 15:36	7439-92-1	



Project: Mann Elementary School

Pace Project No.: 4616518

Date: 08/30/2018 02:20 PM

Sample: 2-Hall@207-B-7	Lab ID: 4616518005 Collected: 08/16/18 11:50 R			Received: 08/17/18 18:00 Matrix: Drinking Wa					
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	138 10.6	ug/L ug/L	1.0 1.0	1300 15	1 1		08/28/18 15:37 08/28/18 15:37		



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 2-Hall@210-B-8	Lab ID:	4616518006	Collecte	Collected: 08/16/18 11:52			/17/18 18:00 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	38.2 7.0	ug/L ug/L	1.0 1.0	1300 15	1 1		08/28/18 15:38 08/28/18 15:38			



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 2-Hall@210-B-9	Parameters Results U D.8 MET ICPMS Drinking Water Analytical Methoper 24.6 u	4616518007	616518007 Collected: 08/			Received: 08	/17/18 18:00 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	24.6 3.5	ug/L ug/L	1.0 1.0	1300 15	1 1		08/28/18 15:39 08/28/18 15:39			



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 1-Hall@Kit-B-10	Lab ID:	4616518008	Collecte	d: 08/16/18	3 11:55	Received: 08	/17/18 18:00 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	55.0 2.8	ug/L ug/L	1.0 1.0	1300 15	1 1		08/28/18 15:40 08/28/18 15:40		



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 1-Hall@Kit-B-11	Lab ID:	4616518009	Collecte	d: 08/16/18	3 11:56	Received: 08	/17/18 18:00 Ma	atrix: 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	84.1 9.9	ug/L ug/L	1.0 1.0	1300 15	1 1		08/28/18 15:41 08/28/18 15:41		



Project: Mann Elementary School

Pace Project No.: 4616518

Sample: 1-Kitchen-KF-12	Lab ID:	4616518010	Collecte	d: 08/16/18	3 11:59	Received: 08	/17/18 18:00 Ma	atrix: 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	401 2.7	ug/L ug/L	5.0 1.0	1300 15	5 1		08/28/18 17:27 08/28/18 15:42		



QUALITY CONTROL DATA

Project: Mann Elementary School

Pace Project No.: 4616518

Date: 08/30/2018 02:20 PM

QC Batch: 31848 Analysis Method: EPA 200.8

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

Associated Lab Samples: 4616518001, 4616518002, 4616518003, 4616518004, 4616518005, 4616518006, 4616518007, 4616518008,

4616518009, 4616518010

METHOD BLANK: 128589 Matrix: Water

Associated Lab Samples: 4616518001, 4616518002, 4616518003, 4616518004, 4616518005, 4616518006, 4616518007, 4616518008,

4616518009, 4616518010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/28/18 14:53	
Lead	ug/L	<1.0	1.0	08/28/18 14:53	

LABORATORY CON	ITROL SAMPLE: 12	28590										
			Spike	LCS		LCS	% Rec					
Param	eter	Units	Conc.	Resu	lt	% Rec	Limits	Qı	ualifiers			
Copper		ug/L	20		20.5	102	85	 -115				
Lead		ug/L	20		20.3	102	85	-115				
MATRIX SPIKE & M.	ATRIX SPIKE DUPLI	CATE: 12859			128592							
			MS	MSD								
_		4616517021	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	231	20	20	247	247	81	81	70-130	0	20	
Lead	ug/L	<1.0	20	20	22.5	22.3	112	111	70-130	1	20	
	ug/L ATRIX SPIKE DUPLIO			20	128595	22.3	112	111	70-130	1	20	
				20 MSD		22.3	112	111	70-130	1	20	
			4			22.3 MSD	112 MS	111	70-130 % Rec	1	20 Max	
	ATRIX SPIKE DUPLIC	CATE: 128594	4 MS	MSD	128595					1 RPD		Qual
MATRIX SPIKE & M.	ATRIX SPIKE DUPLIC	CATE: 128594 4616518002	4 MS Spike	MSD Spike	128595 MS	MSD Result	MS	MSD	% Rec		Max	Qual

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: Mann Elementary School

Pace Project No.: 4616518

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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: 08/30/2018 02:20 PM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mann Elementary School

Pace Project No.: 4616518

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
4616518001	1-Hall@TL-B1	EPA 200.8	31848		
4616518002	1-Hall@TL-B2	EPA 200.8	31848		
4616518003	1-107-B-4	EPA 200.8	31848		
4616518004	2-Hall@207-B-6	EPA 200.8	31848		
4616518005	2-Hall@207-B-7	EPA 200.8	31848		
4616518006	2-Hall@210-B-8	EPA 200.8	31848		
4616518007	2-Hall@210-B-9	EPA 200.8	31848		
4616518008	1-Hall@Kit-B-10	EPA 200.8	31848		
4616518009	1-Hall@Kit-B-11	EPA 200.8	31848		
4616518010	1-Kitchen-KF-12	EPA 200.8	31848		

WO#:4616518

CHAIN-OF-CUSTODY / Analytical Request Document

(N/A) Samples SAMPLE CONDITIONS (N/A) Cooler 5 pelses Custody Regulatory Agency State / Location (N/A) 901 Received on Residual Chlorine (Y/N) Page: TEMP in C TIME Requested Analysis Filtered (Y/N) 8/16/2018 DATE DATE Signed: Dominique Greer ACCEPTED BY I AFFILIATION Lead & Copper Analyses Test N/A Will Cole Methanol Preservatives Na2S2O3 HOBN Pace Project Manager: НСІ Section C Invoice Information: HNO3 Company Name: × × × ace Profile #: ace Quote: 42504 Address: TIME 200 Unpreserved # OF CONTAINERS SAMPLER NAME AND SIGNATURE SIGNATURE of SAMPLER: 8/12/18 SAMPLE TEMP AT COLLECTION PRINT Name of SAMPLER: DATE TIME Mann Elementary School END DATE COLLECTED RELINQUISHED BY / AFFILIATION Lead & Copper Testing TIME 11:40 11:49 11:41 11:50 START 8/16/18 8/16/18 8/16/18 Required Project Information: DATE 8/16/18 8/16/18 8/16/18 8/16/18 8/16/18 8/16/18 8/16/18 Report To: Robert Smith DW G DWG SAMPLE TYPE (G=GRAB C=COMP) DW G DW G DW G DW G DWG DWG DW G DW G Purchase Order #: MATRIX CODE (see valid codes to left) Project Name: Copy To: Project #: CODE WY WY WP OL OL TS MATRIX
Univing Water
Water
Waste Water
Product
Soli/Solid
Oil
Wipe
Air
Other
Tissue Email: robert.smith@atcgs.com 46555 Humboldt Drive, Suite 100 ADDITIONAL COMMENTS (A-Z, 0-9 / , -) Sample Ids must be unique One Character per box. SAMPLE ID ATC Group Services LLC Required Cilent Information: 1-Hall@Kit-B-10 2-Hall@207-B-6 2-Hall@210-B-8 2-Hall@210-B-9 -Hall@Kit-B-10 1-Hall@Kit-B-11 -Hall@207-B-7 -Hall@TL-B2 -Hall@TL-B1 Requested Due Date: -107-B-4 Novi, MI 48377 Address: Page 18 of 21 9 2 9 8 6 # MaTI

		ECEIVING	G / LOG	-IN CHECKL	IST	
5	Client	70		Work Order #:	16 16518	
Pace Analytica	Receipt Record Page	ge/Line #				
Recorded by (initials/date)		Qty Recei	und			
(initials/date)	Cooler	Gly Recei		IR Gun (#202		
WN 8-17-18	Other_		memorie	IR Gun (#402		
Cooler# Time / 5	Cooler#	Time	Cooler #	Time	Cooler #	Time
13 22/3	Cocici II	Time	Cooler #	Time	Cooler #	Time
Custody 8eals:	Custody Seals:		Custody Se	als:	Custody Seals:	
None	□ None			lone	□ None	
☐ Present / Intact	☐ Present / In	tact	0 F	Present / Intact	□ Presen	t / Intact
☐ Present / Not Intact	□ Present / No	ot Intact		Present / Not Intact	□ Presen	No. 10 to 10
Coolant Type:	Coolant Type:		Coolant Typ		Coolant Type:	17 NOT IIIIact
□ Loose Ice	□ Loose Ice			oose Ice	Loose I	CO.
☐ Bagged Ice	☐ Bagged Ice			lagged Ice	□ Bagged	
☐/ Blue Ice	□ Blue Ice			lue Ice	□ Blue Ice	
None	□ None			lone	□ None	
Coolant Location:	Coolant Location:		Coolant Loc	ation:	Coolant Location:	
Dispersed / Top / Middle / Bottom	Dispersed / Top /	Middle / Bottom	Dispersed	/ Top / Middle / Botto	m Dispersed / To	p / Middle / Bottom
Temp Blank Present: Yes No	Temp Blank Present:		1	Present: Yes No		ent: 🗆 Yes 🗆 No
If Present, Temperature Blank Location is:	If Present, Temperatur			emperature Blank Location i	and the second s	rature Blank Location is:
Representative Not Representative	Representative	Not Representative	Repre	esentative Not Representat	ve Representati	ve Not Representative
Observed Correction °C Factor °C Actual °C		Correction Actual °C		Observed Correction Factor °C Actual °C	Observe °C	ed Correction Factor °C Actual °C
Temp Blank:	Temp Blank:		Temp Blank:		Temp Blank:	
Sample 1: 0 24.7	Sample 1:		Sample 1:		Sample 1:	
Sample 2: 0 24.2	Sample 2:		Sample 2:		Sample 2:	
Sample 3: 0 25./	Sample 3:		Sample 3:		Sample 3:	
When above 6 °C take a	When above 6 °C	C take a	When	above 6 °C take a	When above	6 °C take a
3 Sample Average °C:	3 Sample Average 6	°C:	3 Sample	Average °C:	3 Sample Avera	ige °C:
□ VOC Trip Blank received?	□ VOC Trip Blank re	eceived?	□ VOC T	rip Blank received?	□ VOC Trip Bla	nk received?
If <u>an</u>	<u>y</u> shaded areas ch	ecked, comple	te Sample F	Receiving Non-Confo	rmance	
Paperwork Received			Check San	ple Preservation		
Yes No			N/A Y	es No		
Chain of Custody record(s)?			٦	☐ Temperature 8	Blank OR average sampl	e temperature, ≥6° C?
Received for Lab Signed/Dat USDA Soil Documents?	e/Time?			Telephone Control of the Control of	ermal preservation requi	
USDA Soil Documents? Sampling / Field Forms?					ALL samples collected the	CONTRACTOR
O Other					mple Preservation Verific	A SECURE OF THE PARTY OF THE
CO& Information					re tag and fill out Non-Co	500
Pace COC Other			Ø	-	eserved Terracore kit?	mornance rome
COC ID Numbers:				A CONTRACTOR OF THE PARTY OF TH	erved vials must be froz	en
			Work Order	Not Logged In with	Short Hold / Rush	
011-0001				of COC To Lab Areas		
Check COC for Accuracy Yes No		"	Notes			
Yes No Denalysis Requested?						
Sample ID matches COC?						
Sample Date and Time match	nes COC2					
☐ All containers indicated are re						
Sample Condition Summary						
N/A Yes No						
Broken containers/						
Missing or incomple						
Illegible information			Yes N		401212121212121212121	
	ed? n-Pace containers receiv	ed?		Were all samples logg		
□ □ VOC vials have her						
Extra sample locati						
Containers not liste	ons?		Initial / Date			

Client Receipt Log #	LT	7									Work Order	# 4614	,518	
Receipt Log #						Completed	By (initials/of	9-17-1	18					
COC ID#	/	983	3			1		Adjusted b	y:				Reage	H Strip ent or Lot #
Container Type	BP3C	or AG3O	BP	1-4S	Δ	G2S	RP1_A	Date: N Total	RD1 AN	Dissolved	I		<u> </u>	HC739245
Preservative		1000000	H ₂ SO ₄		H ₂ SO.		HNO ₃	1000-1000	HNO ₃					Other
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received		Received	Adjusted		
COC Line #1							1							eck mark in the
COC Line #2							1						Received bacceptable	oox if pH is . If pH is not
COC Line #3							/						acceptable	, document the
COC Line #4							1						Received a pH values	and Adjusted in the
COC Line #5							1						appropriate	columns
COC Line #6							1						(project ma	anager will adjustments at
COC Line #7				-			1						work order	
COC Line #8							1						the default	preservation
COC Line #9							2/						volume (se for default	e table below
COC Line #10							1						Complete a	and attach a
COC Line #11													samples.	all adjusted A Sample
													Receiving I	Non-
COC Line #12 Comments:													Conforman	ce Report mpleted if a
COC ID #													pH adjustm required.	ent was
								Adjusted by	/:				Container	Default Preservative
Container Type	BP3C o	, AC30	BP1	40	4.0	200		Date:					Size (mL)	Volume (mL)
Preservative	NaOH		H ₂ SO ₄	00000	H ₂ SO ₄	32S <2	BP1-4N HNO ₃		BP1-4N D				Container	
рН	Received	Adjusted	Received			Adjusted	Received				Received	Adjusted	Types 5 / 23	NaOH
COC Line #1													250	1.3
COC Line #2													Container Type 4	H ₂ SO ₄
COC Line #3													125	0.5
COC Line #4													250	1.0
COC Line #5													500	2.0
COC Line #6													1000	4.0
COC Line #7													Container Type 13	H ₂ SO ₄
COC Line #8													500	2.5
COC Line #9													Container Types 6 / 15	HNO ₃
COC Line #10													125	0.7
COC Line #11													250	1.25
														1.20
COC Line #12													500	2.5

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Co.	Pace Analy
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1	4
6	1

SAMPLE RECEIVING NON-CONFORMANCE REPORT

below/left. Identify discrepancies between the COC and sample tags in the chart below/right. Add comments as needed. List non-conformance issues associated with this work order in the chart Work Order # 4616514

		ents		4				
		Line Item Comments		6				
		e Item						
		oty Oth						
		Container						
		Time						
;	Sample Tag	Date Sampled S						
	Sam	Sar	+					
		Sample Field ID	1-KItchen KF-12					
		Q,						
0		Container						
7		Time						
	COC	Date Sampled						
		Sample Field ID	1-Hall@					
X		Preservation						
1		Not Listed on COC						
	_	Container						
*	roblen	Low Volume Inappropriate						
	Type of Problem	Label Illegible						
	Type	Label Missing / Incomplete						
		Broken Container						
		Missing Container						
	Ш	Discrepancy	>					
,		# əniJ	3/2					
		# COC ID #	19853					

Project Chemist (initials/date)

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