Testing Engineers & Consultants, Inc.
1343 Rochester Road • PO Box 249 • Troy, Michigan 48099-0249
(248) 588-6200 or (313) T-E-S-T-I-N-G • Fax (248) 588-6232
www.testingengineers.com

TEC Report Number: 58890-01
Date Issued: May 25, 2018

Mr. Julius McDougal
Henry Ford Academy School for Creative Studies
485 Milwaukee
Dearborn, MI 48202

Re: Drinking Water Sampling and Analysis for Lead and Copper. Site: Henry Ford Academy Elementary School located at 10225 3rd Ave, Detroit, MI 48202.

Dear Mr. McDougal:

On May 12, 2018, Testing Engineers & Consultants, Inc. (TEC) collected drinking water samples from selected point of use outlets at the above referenced location. No flushing of the outlets was performed the previous evening. Both first-draw and 30 second flushed water samples were collected at each location. Afterward, the samples were forwarded to an MDEQ-certified drinking water laboratory (Pace Laboratories, Grand Rapids, MI) and analyzed for lead and copper using EPA Analytical Method 200.8.

The Safe Drinking Water Act (SDWA) is the federal law that protects public drinking water supplies throughout the nation. Originally promulgated in 1974, the law has been amended on a number of occasions. The law authorizes the Environmental Protection Agency (EPA) to set standards for drinking water quality. Under the SDWA, EPA has established a Maximum Contaminant Level Goal (MCLG) for lead of zero and 1.3 milligrams per liter (1.3 mg/L) for copper. MCLGs are target concentrations for contaminants in drinking water below which there is no known or expected health risk. Additional treatment techniques such as corrosion control are required of the water system provider under the Lead and Copper Rule if concentrations exceed the Action Level (AL) of 0.015 mg/L for lead or 1.3 mg/L for copper.

The data table in Appendix A summarizes the laboratory results for each sampling location. The laboratory report and Chain of Custody form are found in Appendix B. Appendix C contains a site layout depicting our sampling locations.

A total of 58 water samples were collected from 29 locations. Of these, lead was detected in 13 samples and exceeded the AL in no instances. Copper was reported in every sample; however no concentrations exceeded the AL.

Continued….

Testing Engineers & Consultants, Inc.
Henry Ford Academy School for Creative Studies
Mr. Julius McDougal
Date: May 25, 2018

TEC Report Number: 58890-01

TEC has reviewed information pertaining to the source of drinking water being provided to the Henry Ford Academy School for Creative Studies building. The building receives water provided by the Detroit Water and Sewage Department, which obtains its water from three intakes. Two intakes are located in the Detroit River: one to the north near the mouth of Lake St. Clair and one to the south near Lake Erie. The third intake is located in Lake Huron. Residents of the City of Detroit receive treated water drawn from the Detroit River.

TEC has also conducted a review and has included comments on the most recent Consumer Confidence Report (CCR), which is available on the DWSD website. A copy of the 2016 CCR is found in Appendix D. Our review indicates that for the 2016 calendar year, the treated water met all water quality criteria for which it was evaluated. No water quality violations were recorded for the treated water. Testing included a variety of contaminant classes:

Inorganic Chemicals- fluoride and nitrate
Disinfection Residual- Total chlorine residual
Disinfection By-products- total trihalomethanes, haloacetic acid and bromate
Radionuclides- Combined Radium 226 and 228
Turbidity- Monitored every 4 hours
Metals- lead and copper
Special Monitoring- Sodium
Other Regulated Contaminants- Total Organic Carbon

Unregulated contaminants that were monitored during 2016 included Strontium, Total Chromium, Chromium +6, and Vanadium.

Also, under the Consumer Confidence Report Rule, the local water authority has until July 1 of the following year to post the CCR report for testing conducted the previous year. This means that the 2017 Consumer Confidence Report must be posted on the DWSD website no later than July 1, 2018.

We are pleased to provide this service. Should you have any questions or require additional information, please contact this office at your earliest convenience.

Respectfully Yours,
TESTING ENGINEERS & CONSULTANTS, INC.

Scott M. Chandler, CIH, LEED AP
Manager, Industrial Hygiene Services
SMC/ehp

APPENDIX A

Table One
Drinking Water Sample Results
Henry Ford Academy: Elementary School
10225 3rd Ave, Detroit, MI 48202
Sampling Date: May 12, 2018

Location	Description	Cust.Sample ID	Type	Compound	Result (mg/L)
1	Main Lobby Restroom Area; Left Drinking Fountain	1	1st Draw	Lead	<0.0010
				Copper	0.091
		2	30 sec. flush	Lead	<0.0010
				Copper	0.15
2	Main Lobby Restroom Area; Right Drinking Fountain	3	1st Draw	Lead	<0.0010
				Copper	0.13
		4	30 sec. flush	Lead	<0.0010
				Copper	0.20
3	Main Lobby Restroom Area; Men's Restroom; Sink	5	1st Draw	Lead	0.0017
				Copper	0.18
		6	30 sec. flush	Lead	<0.0010
				Copper	0.24
4	Collaboration Space; Sink	7	1st Draw	Lead	<0.0010
				Copper	0.28
		8	30 sec. flush	Lead	<0.0010
				Copper	0.25
5	Room 106; Drinking Fountain	9	1st Draw	Lead	0.0012
				Copper	0.087
		10	30 sec. flush	Lead	0.0021
				Copper	0.24
6	Room 106; Sink	11	1st Draw	Lead	0.0022
				Copper	0.18
		12	30 sec. flush	Lead	<0.0010
				Copper	0.23
7	Room 107; Sink	13	1st Draw	Lead	0.0012
				Copper	0.18
		14	30 sec. flush	Lead	<0.0010
				Copper	0.41
8	Room 107; Drinking Fountain	15	1st Draw	Lead	<0.0010
				Copper	0.32
		16	30 sec. flush	Lead	<0.0010
				Copper	0.39
9	Room 108; Sink	17	1st Draw	Lead	0.0019
				Copper	0.17
		18	30 sec. flush	Lead	<0.0010
				Copper	0.15
10	Room 108; Drinking Fountain	19	1st Draw	Lead	<0.0010
				Copper	0.15
		20	30 sec. flush	Lead	<0.0010
				Copper	0.15
11	Room 110; Sink	21	1st Draw	Lead	<0.0010
				Copper	0.26
		22	30 sec. flush	Lead	<0.0010
				Copper	0.14
12	Room 110; Drinking Fountain	23	1st Draw	Lead	<0.0010
				Copper	0.14
		24	30 sec. flush	Lead	<0.0010
				Copper	0.14

Table One
Drinking Water Sample Results
Henry Ford Academy: Elementary School
10225 3rd Ave, Detroit, MI 48202
Sampling Date: May 12, 2018

13	Room 111; Sink	25	1st Draw	Lead	0.0010
				Copper	0.27
		26	30 sec. flush	Lead	<0.0010
				Copper	0.24
14	Room 111; Drinking Fountain	27	1st Draw	Lead	<0.0010
				Copper	0.21
		28	30 sec. flush	Lead	<0.0010
				Copper	0.24
15	Room 112; Sink	29	1st Draw	Lead	<0.0010
				Copper	0.22
		30	30 sec. flush	Lead	<0.0010
				Copper	0.24
16	Room 112; Drinking Fountain	31	1st Draw	Lead	<0.0010
				Copper	0.20
		32	30 sec. flush	Lead	<0.0010
				Copper	0.24
17	Room 113; Sink	33	1st Draw	Lead	<0.0010
				Copper	0.23
		34	30 sec. flush	Lead	<0.0010
				Copper	0.19
18	Room 113; Drinking Fountain	35	1st Draw	Lead	<0.0010
				Copper	0.17
		36	30 sec. flush	Lead	<0.0010
				Copper	0.18
19	Room 114; Sink	37	1st Draw	Lead	0.0010
				Copper	0.18
		38	30 sec. flush	Lead	<0.0010
				Copper	0.23
20	Room 114; Drinking Fountain	39	1st Draw	Lead	<0.0010
				Copper	0.21
		40	30 sec. flush	Lead	<0.0010
				Copper	0.24
21	Staff Lounge; Sink	41	1st Draw	Lead	<0.0010
				Copper	0.31
		42	30 sec. flush	Lead	<0.0010
				Copper	0.25
22	Room 206; Sink (Identified as Room 206 in previous report)	43	1st Draw	Lead	0.0018
				Copper	0.32
		44	30 sec. flush	Lead	<0.0010
				Copper	0.17
23	Design & Innovation; Sink (Identified as Room 201 in previous report)	45	1st Draw	Lead	<0.0010
				Copper	0.24
		46	30 sec. flush	Lead	0.0012
				Copper	0.28
24	2nd Floor; Staff Room; Sink (Identified as 3rd floor sink in previous report)	47	1st Draw	Lead	<0.0010
				Copper	0.40
		48	30 sec. flush	Lead	<0.0010
				Copper	0.35

Table One
Drinking Water Sample Results
Henry Ford Academy: Elementary School
10225 3rd Ave, Detroit, MI 48202
Sampling Date: May 12, 2018

25	Room 308; Sink	49	1st Draw	Lead	<0.0010
				Copper	0.44
		50	30 sec. flush	Lead	<0.0010
				Copper	0.15
26	Kitchen/ Room 309; Left Food Prep Sink	51	1st Draw	Lead	<0.0010
				Copper	0.23
		52	30 sec. flush	Lead	0.0046
				Copper	0.44
27	Kitchen/ Room 309; Center Handwashing Sink	53	1st Draw	Lead	0.0032
				Copper	0.19
		54	30 sec. flush	Lead	<0.0010
				Copper	0.25
28	Kitchen/ Room 309; Right Dish Sink	55	1st Draw	Lead	<0.0010
				Copper	0.11
		56	30 sec. flush	Lead	<0.0010
				Copper	0.25
29	Room 301; Sink	57	1st Draw	Lead	0.0038
				Copper	0.56
		58	30 sec. flush	Lead	<0.0010
				Copper	0.31
				Lead	0.015 mg/L
			Action Level	Copper	1.3 mg/L

APPENDIX B

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

May 22, 2018

Scott Chandler
Testing Engineers and Consultants
1343 Rochester Road
Troy, MI 48083

RE: Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Dear Scott Chandler:
Enclosed are the analytical results for sample(s) received by the laboratory on May 15, 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: Broulier
Accounts Payable, Testing and Engineers and Consultants

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

CERTIFICATIONS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

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 #57971 and 57972
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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

SAMPLE SUMMARY

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4612250001	**1) 1st Mn. Lb. RR L. Drnk. Fnt**	Drinking Water	05/12/18 08:20	05/15/18 19:30
4612250002	**2) F Mn. Lb. RR L. Drnk. Fnt**	Drinking Water	05/12/18 08:20	05/15/18 19:30
4612250003	**3) 1st Mn. Lb. RR R. Drnk. Fnt**	Drinking Water	05/12/18 08:21	05/15/18 19:30
4612250004	**4) F Mn. Lb. RR R. Drnk. Fnt**	Drinking Water	05/12/18 08:21	05/15/18 19:30
4612250005	**5) 1st Mn. Lb. RR Mens Snk**	Drinking Water	05/12/18 08:29	05/15/18 19:30
4612250006	**6) F Mn. Lb. RR Mens Snk**	Drinking Water	05/12/18 08:29	05/15/18 19:30
4612250007	**7) 1st Clb. Space Snk**	Drinking Water	05/12/18 08:40	05/15/18 19:30
4612250008	**8) F Clb. Space Snk**	Drinking Water	05/12/18 08:40	05/15/18 19:30
4612250009	**9) 1st Rm 106 Drnk. Fnt.**	Drinking Water	05/12/18 08:45	05/15/18 19:30
4612250010	**10) F Rm 106 Drnk. Fnt.**	Drinking Water	05/12/18 08:45	05/15/18 19:30
4612250011	**11) 1st Rm 106 Snk**	Drinking Water	05/12/18 08:46	05/15/18 19:30
4612250012	**12) F Rm 106 Snk**	Drinking Water	05/12/18 08:46	05/15/18 19:30
4612250013	**13) 1st Rm 107 Snk**	Drinking Water	05/12/18 08:52	05/15/18 19:30
4612250014	**14) F Rm 107 Snk**	Drinking Water	05/12/18 08:52	05/15/18 19:30
4612250015	**15) 1st Rm 107 Drnk. Fnt.**	Drinking Water	05/12/18 08:55	05/15/18 19:30
4612250016	**16) F Rm 107 Drnk. Fnt.**	Drinking Water	05/12/18 08:55	05/15/18 19:30
4612250017	**17) 1st Rm 108 Snk.**	Drinking Water	05/12/18 09:00	05/15/18 19:30
4612250018	**18) F Rm 108 Snk.**	Drinking Water	05/12/18 09:00	05/15/18 19:30
4612250019	**19) 1st Rm 108 Drnk. Fnt.**	Drinking Water	05/12/18 09:02	05/15/18 19:30
4612250020	**20) F Rm 108 Drnk. Fnt.**	Drinking Water	05/12/18 09:02	05/15/18 19:30
4612250021	**21) 1st Rm 110 Snk**	Drinking Water	05/12/18 09:05	05/15/18 19:30
4612250022	**22) F Rm 110 Snk**	Drinking Water	05/12/18 09:05	05/15/18 19:30
4612250023	**23) 1st Rm 110 Drnk. Fnt.**	Drinking Water	05/12/18 09:06	05/15/18 19:30
4612250024	**24) F Rm 110 Drnk. Fnt.**	Drinking Water	05/12/18 09:06	05/15/18 19:30
4612250025	**25) 1st Rm 111 Snk.**	Drinking Water	05/12/18 09:12	05/15/18 19:30
4612250026	**26) F Rm 111 Snk.**	Drinking Water	05/12/18 09:12	05/15/18 19:30
4612250027	**27) 1st Rm 111 Drnk. Fnt.**	Drinking Water	05/12/18 09:13	05/15/18 19:30
4612250028	**28) F Rm 111 Drnk. Fnt.**	Drinking Water	05/12/18 09:13	05/15/18 19:30
4612250029	**29) 1st Rm 112 Snk.**	Drinking Water	05/12/18 09:18	05/15/18 19:30
4612250030	**30) F Rm 112 Snk.**	Drinking Water	05/12/18 09:18	05/15/18 19:30
4612250031	**31) 1st Rm 112 Drnk. Fnt.**	Drinking Water	05/12/18 09:19	05/15/18 19:30
4612250032	**32) F Rm 112 Drnk. Fnt.**	Drinking Water	05/12/18 09:19	05/15/18 19:30
4612250033	**33) 1st Rm 113 Snk.**	Drinking Water	05/12/18 09:24	05/15/18 19:30
4612250034	**34) F Rm 113 Snk.**	Drinking Water	05/12/18 09:24	05/15/18 19:30
4612250035	**35) 1st Rm 113 Drnk. Fnt.**	Drinking Water	05/12/18 09:25	05/15/18 19:30
4612250036	**36) F Rm 113 Drnk. Fnt.**	Drinking Water	05/12/18 09:25	05/15/18 19:30
4612250037	**37) 1st Rm 114 Snk.**	Drinking Water	05/12/18 09:30	05/15/18 19:30

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

SAMPLE SUMMARY

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4612250038	**38) F Rm 114 Snk.**	Drinking Water	05/12/18 09:30	05/15/18 19:30
4612250039	**39) 1st Rm 114 Drnk. Fnt.**	Drinking Water	05/12/18 09:31	05/15/18 19:30
4612250040	**40) F Rm 114 Drnk. Fnt.**	Drinking Water	05/12/18 09:31	05/15/18 19:30
4612250041	**41) 1st Staff Lng. Snk.**	Drinking Water	05/12/18 10:13	05/15/18 19:30
4612250042	**42) F Staff Lng. Snk.**	Drinking Water	05/12/18 10:13	05/15/18 19:30
4612250043	**43) 1st Rm 208 Snk.**	Drinking Water	05/12/18 10:30	05/15/18 19:30
4612250044	**44) F Rm 208 Snk.**	Drinking Water	05/12/18 10:30	05/15/18 19:30
4612250045	**45) 1st Design & Innov. Snk.**	Drinking Water	05/12/18 10:28	05/15/18 19:30
4612250046	**46) F Design & Innov. Snk.**	Drinking Water	05/12/18 10:28	05/15/18 19:30
4612250047	**47) 1st 2nd Flr. Staff Snk.**	Drinking Water	05/12/18 09:39	05/15/18 19:30
4612250048	**48) F 2nd Flr. Staff Snk.**	Drinking Water	05/12/18 09:39	05/15/18 19:30
4612250049	**49) 1st Rm 308 Snk.**	Drinking Water	05/12/18 09:58	05/15/18 19:30
4612250050	**50) F Rm 308 Snk.**	Drinking Water	05/12/18 09:58	05/15/18 19:30
4612250051	**51) 1st Kit. L. Food Prep Snk.**	Drinking Water	05/12/18 10:01	05/15/18 19:30
4612250052	**52) F Kit. L. Food Prep Snk.**	Drinking Water	05/12/18 10:01	05/15/18 19:30
4612250053	**53) 1st Kit. Cntr. HWash Snk.**	Drinking Water	05/12/18 10:03	05/15/18 19:30
4612250054	**54) F Kit. Cntr. HWash Snk.**	Drinking Water	05/12/18 10:03	05/15/18 19:30
4612250055	**55) 1st Kit. R. Dish Snk.**	Drinking Water	05/12/18 10:05	05/15/18 19:30
4612250056	**56) F Kit. R. Dish Snk.**	Drinking Water	05/12/18 10:05	05/15/18 19:30
4612250057	**57) 1st Rm 301 Snk.**	Drinking Water	05/12/18 10:10	05/15/18 19:30
4612250058	**58) F Rm 301 Snk.**	Drinking Water	05/12/18 10:10	05/15/18 19:30

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

SAMPLE ANALYTE COUNT

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4612250001	**1) 1st Mn. Lb. RR L. Drnk. Fnt**	EPA 200.8	CKD	2
4612250002	**2) F Mn. Lb. RR L. Drnk. Fnt**	EPA 200.8	CKD	2
4612250003	**3) 1st Mn. Lb. RR R. Drnk. Fnt**	EPA 200.8	CKD	2
4612250004	**4) F Mn. Lb. RR R. Drnk. Fnt**	EPA 200.8	CKD	2
4612250005	**5) 1st Mn. Lb. RR Mens Snk**	EPA 200.8	CKD	2
4612250006	**6) F Mn. Lb. RR Mens Snk**	EPA 200.8	CKD	2
4612250007	**7) 1st Clb. Space Snk**	EPA 200.8	CKD	2
4612250008	**8) F Clb. Space Snk**	EPA 200.8	CKD	2
4612250009	**9) 1st Rm 106 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250010	**10) F Rm 106 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250011	**11) 1st Rm 106 Snk**	EPA 200.8	CKD	2
4612250012	**12) F Rm 106 Snk**	EPA 200.8	CKD	2
4612250013	**13) 1st Rm 107 Snk**	EPA 200.8	CKD	2
4612250014	**14) F Rm 107 Snk**	EPA 200.8	CKD	2
4612250015	**15) 1st Rm 107 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250016	**16) F Rm 107 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250017	**17) 1st Rm 108 Snk.**	EPA 200.8	CKD	2
4612250018	**18) F Rm 108 Snk.**	EPA 200.8	CKD	2
4612250019	**19) 1st Rm 108 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250020	**20) F Rm 108 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250021	**21) 1st Rm 110 Snk**	EPA 200.8	CKD	2
4612250022	**22) F Rm 110 Snk**	EPA 200.8	CKD	2
4612250023	**23) 1st Rm 110 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250024	**24) F Rm 110 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250025	**25) 1st Rm 111 Snk.**	EPA 200.8	CKD	2
4612250026	**26) F Rm 111 Snk.**	EPA 200.8	CKD	2
4612250027	**27) 1st Rm 111 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250028	**28) F Rm 111 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250029	**29) 1st Rm 112 Snk.**	EPA 200.8	CKD	2
4612250030	**30) F Rm 112 Snk.**	EPA 200.8	CKD	2
4612250031	**31) 1st Rm 112 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250032	**32) F Rm 112 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250033	**33) 1st Rm 113 Snk.**	EPA 200.8	CKD	2
4612250034	**34) F Rm 113 Snk.**	EPA 200.8	CKD	2
4612250035	**35) 1st Rm 113 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250036	**36) F Rm 113 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250037	**37) 1st Rm 114 Snk.**	EPA 200.8	CKD	2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

SAMPLE ANALYTE COUNT

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4612250038	**38) F Rm 114 Snk.**	EPA 200.8	CKD	2
4612250039	**39) 1st Rm 114 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250040	**40) F Rm 114 Drnk. Fnt.**	EPA 200.8	CKD	2
4612250041	**41) 1st Staff Lng. Snk.**	EPA 200.8	CKD	2
4612250042	**42) F Staff Lng. Snk.**	EPA 200.8	CKD	2
4612250043	**43) 1st Rm 208 Snk.**	EPA 200.8	CKD	2
4612250044	**44) F Rm 208 Snk.**	EPA 200.8	CKD	2
4612250045	**45) 1st Design & Innov. Snk.**	EPA 200.8	CKD	2
4612250046	**46) F Design & Innov. Snk.**	EPA 200.8	CKD	2
4612250047	**47) 1st 2nd Flr. Staff Snk.**	EPA 200.8	CKD	2
4612250048	**48) F 2nd Flr. Staff Snk.**	EPA 200.8	CKD	2
4612250049	**49) 1st Rm 308 Snk.**	EPA 200.8	CKD	2
4612250050	**50) F Rm 308 Snk.**	EPA 200.8	CKD	2
4612250051	**51) 1st Kit. L. Food Prep Snk.**	EPA 200.8	CKD	2
4612250052	**52) F Kit. L. Food Prep Snk.**	EPA 200.8	CKD	2
4612250053	**53) 1st Kit. Cntr. HWash Snk.**	EPA 200.8	CKD	2
4612250054	**54) F Kit. Cntr. HWash Snk.**	EPA 200.8	CKD	2
4612250055	**55) 1st Kit. R. Dish Snk.**	EPA 200.8	CKD	2
4612250056	**56) F Kit. R. Dish Snk.**	EPA 200.8	CKD	2
4612250057	**57) 1st Rm 301 Snk.**	EPA 200.8	CKD	2
4612250058	**58) F Rm 301 Snk.**	EPA 200.8	CKD	2

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 1) 1st Mn. Lb. RR L. Drnk. Fnt **Lab ID: 4612250001** Collected: 05/12/18 08:20 Received: 05/15/18 19:30 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	**0.091**	mg/L	0.0050	1.3	5		05/21/18 15:32	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:01	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 2) F Mn. Lb. RR L. Drnk. Fnt **Lab ID: 4612250002** Collected: 05/12/18 08:20 Received: 05/15/18 19:30 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	**0.15**	mg/L	0.0050	1.3	5		05/21/18 15:40	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:07	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 3) 1st Mn. Lb. RR R. Drnk. Fnt **Lab ID: 4612250003** Collected: 05/12/18 08:21 Received: 05/15/18 19:30 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	**0.13**	mg/L	0.0050	1.3	5		05/21/18 15:46	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:15	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 4) F Mn. Lb. RR R. Drnk. Fnt **Lab ID: 4612250004** Collected: 05/12/18 08:21 Received: 05/15/18 19:30 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	**0.20**	mg/L	0.0050	1.3	5		05/21/18 15:47	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:16	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 5) 1st Mn. Lb. RR Mens Snk **Lab ID: 4612250005** Collected: 05/12/18 08:29 Received: 05/15/18 19:30 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	**0.18**	mg/L	0.0050	1.3	5		05/21/18 15:48	7440-50-8	
Lead	**0.0017**	mg/L	0.0010	.015	1		05/21/18 13:17	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 6) F Mn. Lb. RR Mens Snk **Lab ID: 4612250006** Collected: 05/12/18 08:29 Received: 05/15/18 19:30 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	**0.24**	mg/L	0.0050	1.3	5		05/21/18 15:49	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:19	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 7) 1st Clb. Space Snk **Lab ID: 4612250007** Collected: 05/12/18 08:40 Received: 05/15/18 19:30 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	**0.28**	mg/L	0.0050	1.3	5		05/21/18 15:53	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:20	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 8) F Clb. Space Snk **Lab ID: 4612250008** Collected: 05/12/18 08:40 Received: 05/15/18 19:30 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	**0.25**	mg/L	0.0050	1.3	5		05/21/18 15:55	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:21	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 9) 1st Rm 106 Drnk. Fnt. **Lab ID: 4612250009** Collected: 05/12/18 08:45 Received: 05/15/18 19:30 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	**0.087**	mg/L	0.0010	1.3	1		05/21/18 15:31	7440-50-8	
Lead	**0.0012**	mg/L	0.0010	.015	1		05/21/18 13:23	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 10) F Rm 106 Drnk. Fnt. **Lab ID: 4612250010** Collected: 05/12/18 08:45 Received: 05/15/18 19:30 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	**0.24**	mg/L	0.0050	1.3	5		05/21/18 15:56	7440-50-8	
Lead	**0.0021**	mg/L	0.0010	.015	1		05/21/18 13:24	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 11) 1st Rm 106 Snk **Lab ID: 4612250011** Collected: 05/12/18 08:46 Received: 05/15/18 19:30 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	**0.18**	mg/L	0.0050	1.3	5		05/21/18 15:57	7440-50-8	
Lead	**0.0022**	mg/L	0.0010	.015	1		05/21/18 13:25	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 12) F Rm 106 Snk **Lab ID: 4612250012** Collected: 05/12/18 08:46 Received: 05/15/18 19:30 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	**0.23**	mg/L	0.0050	1.3	5		05/21/18 15:59	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:27	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 13) 1st Rm 107 Snk **Lab ID: 4612250013** Collected: 05/12/18 08:52 Received: 05/15/18 19:30 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	**0.18**	mg/L	0.0050	1.3	5		05/21/18 16:00	7440-50-8	
Lead	**0.0012**	mg/L	0.0010	.015	1		05/21/18 13:31	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 14) F Rm 107 Snk **Lab ID: 4612250014** Collected: 05/12/18 08:52 Received: 05/15/18 19:30 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	**0.41**	mg/L	0.010	1.3	10		05/21/18 16:01	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:32	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 15) 1st Rm 107 Drnk. Fnt. **Lab ID: 4612250015** Collected: 05/12/18 08:55 Received: 05/15/18 19:30 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	**0.32**	mg/L	0.0050	1.3	5		05/21/18 16:03	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:35	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 16) F Rm 107 Drnk. Fnt. **Lab ID: 4612250016** Collected: 05/12/18 08:55 Received: 05/15/18 19:30 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	**0.39**	mg/L	0.0050	1.3	5		05/21/18 16:04	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:36	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 17) 1st Rm 108 Snk. **Lab ID: 4612250017** Collected: 05/12/18 09:00 Received: 05/15/18 19:30 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	**0.17**	mg/L	0.0050	1.3	5		05/21/18 16:05	7440-50-8	
Lead	**0.0019**	mg/L	0.0010	.015	1		05/21/18 13:37	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 18) F Rm 108 Snk. **Lab ID: 4612250018** Collected: 05/12/18 09:00 Received: 05/15/18 19:30 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	**0.15**	mg/L	0.0050	1.3	5		05/21/18 16:13	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:39	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 19) 1st Rm 108 Drnk. Fnt. **Lab ID: 4612250019** Collected: 05/12/18 09:02 Received: 05/15/18 19:30 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	**0.15**	mg/L	0.0050	1.3	5		05/21/18 16:14	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:40	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 20) F Rm 108 Drnk. Fnt. **Lab ID: 4612250020** Collected: 05/12/18 09:02 Received: 05/15/18 19:30 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	**0.15**	mg/L	0.0050	1.3	5		05/21/18 16:16	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:41	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 21) 1st Rm 110 Snk **Lab ID: 4612250021** Collected: 05/12/18 09:05 Received: 05/15/18 19:30 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	**0.26**	mg/L	0.0050	1.3	5		05/21/18 16:17	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:48	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 22) F Rm 110 Snk **Lab ID: 4612250022** Collected: 05/12/18 09:05 Received: 05/15/18 19:30 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	**0.14**	mg/L	0.0050	1.3	5		05/21/18 16:22	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:53	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 23) 1st Rm 110 Drnk. Fnt. **Lab ID: 4612250023** Collected: 05/12/18 09:06 Received: 05/15/18 19:30 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	**0.14**	mg/L	0.0050	1.3	5		05/21/18 16:23	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:55	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 24) F Rm 110 Drnk. Fnt. **Lab ID: 4612250024** Collected: 05/12/18 09:06 Received: 05/15/18 19:30 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	**0.14**	mg/L	0.0050	1.3	5		05/21/18 16:25	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:56	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 25) 1st Rm 111 Snk. **Lab ID: 4612250025** Collected: 05/12/18 09:12 Received: 05/15/18 19:30 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	**0.27**	mg/L	0.0050	1.3	5		05/21/18 16:29	7440-50-8	
Lead	**0.0010**	mg/L	0.0010	.015	1		05/21/18 13:57	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 26) F Rm 111 Snk. **Lab ID: 4612250026** Collected: 05/12/18 09:12 Received: 05/15/18 19:30 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	**0.24**	mg/L	0.0050	1.3	5		05/21/18 16:30	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 13:59	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 27) 1st Rm 111 Drnk. Fnt. **Lab ID: 4612250027** Collected: 05/12/18 09:13 Received: 05/15/18 19:30 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	**0.21**	mg/L	0.0050	1.3	5		05/21/18 16:31	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:00	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 28) F Rm 111 Drnk. Fnt. **Lab ID: 4612250028** Collected: 05/12/18 09:13 Received: 05/15/18 19:30 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	**0.24**	mg/L	0.0050	1.3	5		05/21/18 16:33	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:04	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 29) 1st Rm 112 Snk. **Lab ID: 4612250029** Collected: 05/12/18 09:18 Received: 05/15/18 19:30 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	**0.22**	mg/L	0.0050	1.3	5		05/21/18 16:34	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:05	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 30) F Rm 112 Snk. **Lab ID: 4612250030** Collected: 05/12/18 09:18 Received: 05/15/18 19:30 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	**0.24**	mg/L	0.0050	1.3	5		05/21/18 16:35	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:07	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 31) 1st Rm 112 Drnk. Fnt. **Lab ID: 4612250031** Collected: 05/12/18 09:19 Received: 05/15/18 19:30 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	**0.20**	mg/L	0.0050	1.3	5		05/21/18 16:37	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:08	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 32) F Rm 112 Drnk. Fnt. **Lab ID: 4612250032** Collected: 05/12/18 09:19 Received: 05/15/18 19:30 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	**0.24**	mg/L	0.0050	1.3	5		05/21/18 16:38	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:09	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(616)975-4500

ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 33) 1st Rm 113 Snk. **Lab ID: 4612250033** Collected: 05/12/18 09:24 Received: 05/15/18 19:30 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	**0.23**	mg/L	0.0050	1.3	5		05/21/18 16:51	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:15	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 34) F Rm 113 Snk. **Lab ID: 4612250034** Collected: 05/12/18 09:24 Received: 05/15/18 19:30 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	**0.19**	mg/L	0.0050	1.3	5		05/21/18 16:52	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:16	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 35) 1st Rm 113 Drnk. Fnt. **Lab ID: 4612250035** Collected: 05/12/18 09:25 Received: 05/15/18 19:30 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	**0.17**	mg/L	0.0050	1.3	5		05/21/18 16:54	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:34	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 36) F Rm 113 Drnk. Fnt. **Lab ID: 4612250036** Collected: 05/12/18 09:25 Received: 05/15/18 19:30 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	**0.18**	mg/L	0.0050	1.3	5		05/21/18 16:55	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:35	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 37) 1st Rm 114 Snk. **Lab ID: 4612250037** Collected: 05/12/18 09:30 Received: 05/15/18 19:30 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	**0.18**	mg/L	0.0050	1.3	5		05/21/18 16:56	7440-50-8	
Lead	**0.0010**	mg/L	0.0010	.015	1		05/21/18 14:37	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 38) F Rm 114 Snk. **Lab ID: 4612250038** Collected: 05/12/18 09:30 Received: 05/15/18 19:30 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	**0.23**	mg/L	0.0050	1.3	5		05/21/18 16:58	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:38	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 39) 1st Rm 114 Drnk. Fnt. **Lab ID: 4612250039** Collected: 05/12/18 09:31 Received: 05/15/18 19:30 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	**0.21**	mg/L	0.0050	1.3	5		05/21/18 16:59	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:39	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 40) F Rm 114 Drnk. Fnt. **Lab ID: 4612250040** Collected: 05/12/18 09:31 Received: 05/15/18 19:30 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	**0.24**	mg/L	0.0050	1.3	5		05/21/18 17:00	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:41	7439-92-1	

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 41) 1st Staff Lng. Snk. **Lab ID: 4612250041** Collected: 05/12/18 10:13 Received: 05/15/18 19:30 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	**0.31**	mg/L	0.0050	1.3	5		05/21/18 17:04	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:45	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 42) F Staff Lng. Snk. **Lab ID: 4612250042** Collected: 05/12/18 10:13 Received: 05/15/18 19:30 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	**0.25**	mg/L	0.0050	1.3	5		05/21/18 17:10	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:53	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 43) 1st Rm 208 Snk. **Lab ID: 4612250043** Collected: 05/12/18 10:30 Received: 05/15/18 19:30 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	**0.32**	mg/L	0.0050	1.3	5		05/21/18 17:11	7440-50-8	
Lead	**0.0018**	mg/L	0.0010	.015	1		05/21/18 14:54	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 44) F Rm 208 Snk. **Lab ID: 4612250044** Collected: 05/12/18 10:30 Received: 05/15/18 19:30 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	**0.17**	mg/L	0.0050	1.3	5		05/21/18 17:12	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:55	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 45) 1st Design & Innov. Snk. **Lab ID: 4612250045** Collected: 05/12/18 10:28 Received: 05/15/18 19:30 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	**0.24**	mg/L	0.0050	1.3	5		05/21/18 17:14	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:57	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 46) F Design & Innov. Snk. **Lab ID: 4612250046** Collected: 05/12/18 10:28 Received: 05/15/18 19:30 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	**0.28**	mg/L	0.0050	1.3	5		05/21/18 17:15	7440-50-8	
Lead	**0.0012**	mg/L	0.0010	.015	1		05/21/18 14:58	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 47) 1st 2nd Flr. Staff Snk. **Lab ID: 4612250047** Collected: 05/12/18 09:39 Received: 05/15/18 19:30 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	**0.40**	mg/L	0.0050	1.3	5		05/21/18 17:16	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 14:59	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 48) F 2nd Flr. Staff Snk. **Lab ID: 4612250048** Collected: 05/12/18 09:39 Received: 05/15/18 19:30 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	**0.35**	mg/L	0.0050	1.3	5		05/21/18 17:20	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 15:00	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 49) 1st Rm 308 Snk. **Lab ID: 4612250049** Collected: 05/12/18 09:58 Received: 05/15/18 19:30 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	**0.44**	mg/L	0.010	1.3	10		05/21/18 17:22	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 15:02	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 50) F Rm 308 Snk. **Lab ID: 4612250050** Collected: 05/12/18 09:58 Received: 05/15/18 19:30 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	**0.15**	mg/L	0.0050	1.3	5		05/21/18 17:23	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 15:06	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 51) 1st Kit. L. Food Prep Snk. **Lab ID: 4612250051** Collected: 05/12/18 10:01 Received: 05/15/18 19:30 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	**0.23**	mg/L	0.0050	1.3	5		05/21/18 17:24	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 15:07	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 52) F Kit. L. Food Prep Snk. **Lab ID: 4612250052** Collected: 05/12/18 10:01 Received: 05/15/18 19:30 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	**0.44**	mg/L	0.010	1.3	10		05/21/18 17:30	7440-50-8	
Lead	**0.0046**	mg/L	0.0010	.015	1		05/21/18 15:12	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 53) 1st Kit. Cntr. HWash Snk. **Lab ID: 4612250053** Collected: 05/12/18 10:03 Received: 05/15/18 19:30 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	**0.19**	mg/L	0.0050	1.3	5		05/21/18 17:31	7440-50-8	
Lead	**0.0032**	mg/L	0.0010	.015	1		05/21/18 15:14	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 54) F Kit. Cntr. HWash Snk. **Lab ID: 4612250054** Collected: 05/12/18 10:03 Received: 05/15/18 19:30 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	**0.25**	mg/L	0.0050	1.3	5		05/21/18 17:32	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 15:15	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 55) 1st Kit. R. Dish Snk. **Lab ID: 4612250055** Collected: 05/12/18 10:05 Received: 05/15/18 19:30 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	**0.11**	mg/L	0.0050	1.3	5		05/21/18 17:36	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 15:16	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 56) F Kit. R. Dish Snk. **Lab ID: 4612250056** Collected: 05/12/18 10:05 Received: 05/15/18 19:30 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	**0.25**	mg/L	0.0050	1.3	5		05/21/18 17:38	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 15:18	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 57) 1st Rm 301 Snk. **Lab ID: 4612250057** Collected: 05/12/18 10:10 Received: 05/15/18 19:30 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	**0.56**	mg/L	0.010	1.3	10		05/21/18 17:39	7440-50-8	
Lead	**0.0038**	mg/L	0.0010	.015	1		05/21/18 15:22	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Sample: 58) F Rm 301 Snk. **Lab ID: 4612250058** Collected: 05/12/18 10:10 Received: 05/15/18 19:30 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	**0.31**	mg/L	0.0050	1.3	5		05/21/18 17:40	7440-50-8	
Lead	**<0.0010**	mg/L	0.0010	.015	1		05/21/18 15:23	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

QC Batch: 23608 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4612250001, 4612250002, 4612250003, 4612250004, 4612250005, 4612250006, 4612250007, 4612250008, 4612250009, 4612250010, 4612250011, 4612250012, 4612250013, 4612250014, 4612250015, 4612250016, 4612250017, 4612250018, 4612250019, 4612250020

METHOD BLANK: 94854 Matrix: Water
Associated Lab Samples: 4612250001, 4612250002, 4612250003, 4612250004, 4612250005, 4612250006, 4612250007, 4612250008, 4612250009, 4612250010, 4612250011, 4612250012, 4612250013, 4612250014, 4612250015, 4612250016, 4612250017, 4612250018, 4612250019, 4612250020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	<0.0010	0.0010	05/21/18 16:43	
Lead	mg/L	<0.0010	0.0010	05/21/18 12:59	

LABORATORY CONTROL SAMPLE: 94855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	.02	0.020	98	85-115	
Lead	mg/L	.02	0.020	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94856 94857

Parameter	Units	4612250001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.091	.1	.1	0.18	0.18	91	94	70-130	1	20	
Lead	mg/L	<0.0010	.02	.02	0.019	0.019	95	95	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94859 94860

Parameter	Units	4612250002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.15	.1	.1	0.26	0.25	105	96	70-130	4	20	
Lead	mg/L	<0.0010	.02	.02	0.020	0.019	97	95	70-130	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

QC Batch: 23609 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4612250021, 4612250022, 4612250023, 4612250024, 4612250025, 4612250026, 4612250027, 4612250028, 4612250029, 4612250030, 4612250031, 4612250032, 4612250033, 4612250034, 4612250035, 4612250036, 4612250037, 4612250038, 4612250039, 4612250040

METHOD BLANK: 94862 Matrix: Water
Associated Lab Samples: 4612250021, 4612250022, 4612250023, 4612250024, 4612250025, 4612250026, 4612250027, 4612250028, 4612250029, 4612250030, 4612250031, 4612250032, 4612250033, 4612250034, 4612250035, 4612250036, 4612250037, 4612250038, 4612250039, 4612250040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	<0.0010	0.0010	05/21/18 13:43	
Lead	mg/L	<0.0010	0.0010	05/21/18 13:43	

LABORATORY CONTROL SAMPLE: 94863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	.02	0.020	99	85-115	
Lead	mg/L	.02	0.019	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94864 94865

Parameter	Units	4612250021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.26	.1	.1	0.35	0.34	86	79	70-130	2	20	
Lead	mg/L	<0.0010	.025	.025	0.024	0.025	93	95	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94867 94868

Parameter	Units	4612250032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.24	.1	.1	0.34	0.34	99	100	70-130	1	20	
Lead	mg/L	<0.0010	.02	.02	0.019	0.019	92	96	70-130	5	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

QUALITY CONTROL DATA

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

QC Batch: 23610 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4612250041, 4612250042, 4612250043, 4612250044, 4612250045, 4612250046, 4612250047, 4612250048, 4612250049, 4612250050, 4612250051, 4612250052, 4612250053, 4612250054, 4612250055, 4612250056, 4612250057, 4612250058

METHOD BLANK: 94870 Matrix: Water
Associated Lab Samples: 4612250041, 4612250042, 4612250043, 4612250044, 4612250045, 4612250046, 4612250047, 4612250048, 4612250049, 4612250050, 4612250051, 4612250052, 4612250053, 4612250054, 4612250055, 4612250056, 4612250057, 4612250058

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	<0.0010	0.0010	05/21/18 14:42	
Lead	mg/L	<0.0010	0.0010	05/21/18 14:42	

LABORATORY CONTROL SAMPLE: 94871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	.02	0.020	101	85-115	
Lead	mg/L	.02	0.019	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94872 94873

Parameter	Units	4612250041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.31	.1	.1	0.41	0.41	98	98	70-130	0	20	
Lead	mg/L	<0.0010	.02	.02	0.019	0.020	94	99	70-130	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94875 94876

Parameter	Units	4612250051 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.23	.1	.1	0.32	0.32	89	92	70-130	1	20	
Lead	mg/L	<0.0010	.02	.02	0.019	0.019	96	95	70-130	0	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

QUALIFIERS

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

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.

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4612250001	**1) 1st Mn. Lb. RR L. Drnk. Fnt**	EPA 200.8	23608		
4612250002	**2) F Mn. Lb. RR L. Drnk. Fnt**	EPA 200.8	23608		
4612250003	**3) 1st Mn. Lb. RR R. Drnk. Fnt**	EPA 200.8	23608		
4612250004	**4) F Mn. Lb. RR R. Drnk. Fnt**	EPA 200.8	23608		
4612250005	**5) 1st Mn. Lb. RR Mens Snk**	EPA 200.8	23608		
4612250006	**6) F Mn. Lb. RR Mens Snk**	EPA 200.8	23608		
4612250007	**7) 1st Clb. Space Snk**	EPA 200.8	23608		
4612250008	**8) F Clb. Space Snk**	EPA 200.8	23608		
4612250009	**9) 1st Rm 106 Drnk. Fnt.**	EPA 200.8	23608		
4612250010	**10) F Rm 106 Drnk. Fnt.**	EPA 200.8	23608		
4612250011	**11) 1st Rm 106 Snk**	EPA 200.8	23608		
4612250012	**12) F Rm 106 Snk**	EPA 200.8	23608		
4612250013	**13) 1st Rm 107 Snk**	EPA 200.8	23608		
4612250014	**14) F Rm 107 Snk**	EPA 200.8	23608		
4612250015	**15) 1st Rm 107 Drnk. Fnt.**	EPA 200.8	23608		
4612250016	**16) F Rm 107 Drnk. Fnt.**	EPA 200.8	23608		
4612250017	**17) 1st Rm 108 Snk.**	EPA 200.8	23608		
4612250018	**18) F Rm 108 Snk.**	EPA 200.8	23608		
4612250019	**19) 1st Rm 108 Drnk. Fnt.**	EPA 200.8	23608		
4612250020	**20) F Rm 108 Drnk. Fnt.**	EPA 200.8	23608		
4612250021	**21) 1st Rm 110 Snk**	EPA 200.8	23609		
4612250022	**22) F Rm 110 Snk**	EPA 200.8	23609		
4612250023	**23) 1st Rm 110 Drnk. Fnt.**	EPA 200.8	23609		
4612250024	**24) F Rm 110 Drnk. Fnt.**	EPA 200.8	23609		
4612250025	**25) 1st Rm 111 Snk.**	EPA 200.8	23609		
4612250026	**26) F Rm 111 Snk.**	EPA 200.8	23609		
4612250027	**27) 1st Rm 111 Drnk. Fnt.**	EPA 200.8	23609		
4612250028	**28) F Rm 111 Drnk. Fnt.**	EPA 200.8	23609		
4612250029	**29) 1st Rm 112 Snk.**	EPA 200.8	23609		
4612250030	**30) F Rm 112 Snk.**	EPA 200.8	23609		
4612250031	**31) 1st Rm 112 Drnk. Fnt.**	EPA 200.8	23609		
4612250032	**32) F Rm 112 Drnk. Fnt.**	EPA 200.8	23609		
4612250033	**33) 1st Rm 113 Snk.**	EPA 200.8	23609		
4612250034	**34) F Rm 113 Snk.**	EPA 200.8	23609		
4612250035	**35) 1st Rm 113 Drnk. Fnt.**	EPA 200.8	23609		
4612250036	**36) F Rm 113 Drnk. Fnt.**	EPA 200.8	23609		
4612250037	**37) 1st Rm 114 Snk.**	EPA 200.8	23609		
4612250038	**38) F Rm 114 Snk.**	EPA 200.8	23609		
4612250039	**39) 1st Rm 114 Drnk. Fnt.**	EPA 200.8	23609		
4612250040	**40) F Rm 114 Drnk. Fnt.**	EPA 200.8	23609		
4612250041	**41) 1st Staff Lng. Snk.**	EPA 200.8	23610		
4612250042	**42) F Staff Lng. Snk.**	EPA 200.8	23610		
4612250043	**43) 1st Rm 208 Snk.**	EPA 200.8	23610		
4612250044	**44) F Rm 208 Snk.**	EPA 200.8	23610		
4612250045	**45) 1st Design & Innov. Snk.**	EPA 200.8	23610		
4612250046	**46) F Design & Innov. Snk.**	EPA 200.8	23610		
4612250047	**47) 1st 2nd Flr. Staff Snk.**	EPA 200.8	23610		
4612250048	**48) F 2nd Flr. Staff Snk.**	EPA 200.8	23610		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Henry Ford Acad. Elementary
Pace Project No.: 4612250

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4612250049	**49) 1st Rm 308 Snk.**	EPA 200.8	23610		
4612250050	**50) F Rm 308 Snk.**	EPA 200.8	23610		
4612250051	**51) 1st Kit. L. Food Prep Snk.**	EPA 200.8	23610		
4612250052	**52) F Kit. L. Food Prep Snk.**	EPA 200.8	23610		
4612250053	**53) 1st Kit. Cntr. HWash Snk.**	EPA 200.8	23610		
4612250054	**54) F Kit. Cntr. HWash Snk.**	EPA 200.8	23610		
4612250055	**55) 1st Kit. R. Dish Snk.**	EPA 200.8	23610		
4612250056	**56) F Kit. R. Dish Snk.**	EPA 200.8	23610		
4612250057	**57) 1st Rm 301 Snk.**	EPA 200.8	23610		
4612250058	**58) F Rm 301 Snk.**	EPA 200.8	23610		

Pace Analy
www.pace

WO#: 4612250

4612250

HAIN-OF-CUSTODY / Analytical Request Document

e Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 5

2189225

Section A — Required Client Information:

Company: Testing Engineers & Consultants	
Address: 1343 Rochester Rd. Troy MI 48083	
Email To: SChandler	
Phone: 248-588-6200 Fax:	
Requested Due Date/TAT: Standard TAT	

Required Project Information:

Report To: TESTING ENG & CONSUL...	
Copy To: 1343 ROCHESTER RD TROY, MI 48053	
Purchase Order No.: 58840-01	
Project Name: HENRY FORD ACADEMY ELEM SCH	
Project Number: 58840-01	

Section C — Invoice Information:

Attention: SCOTT CHANDLER	
Company Name: TESTING ENG & CONSUL	
Address: 1343 ROCHESTER RD TROY, MI	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☑ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: PBECW	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (10-41)
1st	Main lobby Restroom area Left Drinking fountain	DW	G	5/12/18						✓								✓		-001
F	Main Lobby Restroom area Left Drinking Fountain	DW	G	5/12/18						✓								✓		-002
1st	Main lobby Restroom area Right Drinking fountain	DW	G	5/12/18						✓								✓		-003
F	Main Lobby Restroom area Right Drink Fount	DW	G	5/12/18						✓								✓		-004
1st	Main lobby Restroom Mens Sink	DW	G	5/12/18						✓								✓		-005
F	Main lobby Restroom Mens Sink	DW	G	5/12/18						✓								✓		-006
1st	Collaboration Space/ Sink	DW	G	5/12/18						✓								✓		-007
F	Collaboration Space, Sink	DW	G	5/12/18						✓								✓		-008
1st	Room 106, Drinking Fountain	DW	G	5/12/18						✓								✓		-009
F	Room 106, Drinking Fountain	DW	G	5/12/18						✓								✓		-010
1st	Room 106, Sink	DW	G	5/12/18						✓								✓		-011
F	Room 106, Sink	DW	G	5/12/18						✓								✓		-012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	TEI				5/14/18	1235	
		5/15/18	1300		5/15-18	1300	
		5-15-18	1930	D. Nardin	5/15/18	1930	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ron Labat

SIGNATURE of SAMPLER: Ron Labat — DATE Signed (MM/DD/YY): 5/12/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Page 71 of 77

*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 paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2189224

Section A Required Client Information:

Company:	TESTING ENG & CONSUL
Address:	1343 ROCHESTER
	TROY, MI 48053
Email To:	SCHANDLER@TECTEST.COM
Phone:	(248) 588-6200
Fax:	
Requested Due Date/TAT:	Standard TAT

Section B Required Project Information:

Report To:	TESTING ENG & CONSUL...
Copy To:	1343 ROCHESTER RD
	TROY, MI 48053
Purchase Order No.:	58890-01
Project Name:	HENRY FORD ACADEMY ELEM SCH.
Project Number:	58890-01

Section C Invoice Information:

Attention:	SCOTT CHANDLER
Company Name:	TESTING ENG & CONSUL.
Address:	1343 ROCHESTER RD TROY, MI
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☑ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Pb & Cu	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
13	1st Room 107, Sink	DW	G	5/12/18						✓								✓	✓		-013
14	F Room 107, Sink	DW	G	5/12/18						✓								✓	✓		-014
15	1st Room 107, Drinking Fountain	DW	G	5/12/18						✓								✓	✓		-015
16	F Room 107, Drinking Fountain	DW	G	5/12/18						✓								✓	✓		-016
17	1st Room 108, Sink	DW	G	5/12/18						✓								✓	✓		-017
18	F Room 108, Sink	DW	G	5/12/18						✓								✓	✓		-018
19	1st Room 108, Drinking Fountain	DW	G	5/12/18						✓								✓	✓		-019
20	F Room 108, Drinking Fountain	DW	G	5/12/18						✓								✓	✓		-020
21	1st Room 110, Sink	DW	G	5/12/18						✓								✓	✓		-021
22	F Room 110, Sink	DW	G	5/12/18						✓								✓	✓		-022
23	1st Room 110, Drinking Fountain	DW	G	5/12/18						✓								✓	✓		-023
24	F Room 110, Drinking Fountain	DW	G	5/12/18						✓								✓	✓		-024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	TCS				5/14/18	1235	
		5/15/18	130		5/15/18	1300	
		5-15-18	1930	J. Rodgers	5/15/18	1930	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ron Lapint

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/12/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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 paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

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2189226

Section A Required Client Information:

Company: TESTING ENG & CONSUL
Address: 1343 ROCHESTER RD
TROY, MI 48083
Email To: S CHANDLER @ TEC TEST.COM
Phone: (248) 588-4200 Fax:
Requested Due Date/TAT: Standard TAT

Section B Required Project Information:

Report To: TESTING ENGINEERS & CONSUL.
Copy To: 1343 ROCHESTER RD
TROY, MI 48083
Purchase Order No.: 58890-01
Project Name: HENRY FORD ACADEMY ELEM. SCH
Project Number: # 58890-01

Section C Invoice Information:

Attention: SCOTT CHANDLER
Company Name: TESTING ENG & CONSUL.
Address: 1343 ROCHESTER RD
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Pb β Cl	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
25 1	1st Room 111, Sink	DW	G	5/12/18						✓								✓		-025
26 2	F Room 111, Sink	DW	G	5/12/18						✓								✓		-026
27 3	1st Room 111, Drinking Fountain	DW	G	5/12/18						✓								✓		-027
28 4	F Room 111, Drinking Fountain	DW	G	5/12/18						✓								✓		-028
29 5	1st Room 112, Sink	DW	G	5/12/18						✓								✓		-029
30 6	F Room 112, Sink	DW	G	5/12/18						✓								✓		-030
31 7	1st Room 112, Drinking Fountain	DW	G	5/12/18						✓								✓		-031
32 8	F Room 112, Drinking Fountain	DW	G	5/12/18						✓								✓		-032
33 9	1st Room 113, Sink	DW	G	5/12/18						✓								✓		-033
34 10	F Room 113, Sink	DW	G	5/12/18						✓								✓		-034
35 11	1st Room 113, Drinking Fountain	DW	G	5/12/18						✓								✓		-035
36 12	F Room 113, Drinking Fountain	DW	G	5/12/18						✓								✓		-036

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	TEC				5/14/18	1235	
		5/15/18	1900		5-15-18	1300	
		5.15.18	1930	J. Dunkerlin	5/15/18	1930	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ron Labut
SIGNATURE of SAMPLER: Ron Labut
DATE Signed (MM/DD/YY): 5/12/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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 paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 of 5

2189227

Section A Required Client Information:

Company: TESTING ENG & CONSUL
Address: 1343 ROCHESTER RD
TROY, MI
Email To: SCHANDLER@TECTEST.COM
Phone: (248) 588-6200 Fax:
Requested Due Date/TAT: Standard TAT

Section B Required Project Information:

Report To: SCOTT CHANDLER
Copy To: TESTING ENG & CONSUL
1343 ROCHESTER RD TROY, MI
Purchase Order No.: 58890-01
Project Name: HENRY FORD ACADEMY ECOM SCH
Project Number: 58890-01

Section C Invoice Information:

Attention: SCOTT CHANDLER
Company Name: TESTING ENG & CONSUL
Address: 1343 ROCHESTER RD TROY, MI
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Pb & Cu	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
37 1	1st Room 114, Sink	DW	G	5/12/18						✓								✓	✓		-037
38 2	F Room 114, Sink	DW	G	5/12/18						✓								✓	✓		-038
39 3	1st Room 114, Drinking fountain	DW	G	5/12/18						✓								✓	✓		-039
40 4	F Room 114, Drinking Fountain	DW	G	5/12/18						✓								✓	✓		-040
41 5	1st Staff lounge, Sink	DW	G	5/12/18						✓								✓	✓		-041
42 6	F Staff lounge, Sink	DW	G	5/12/18						✓								✓	✓		-042
43 7	1st Room 208, Sink	DW	G	5/12/18						✓								✓	✓		-043
44 8	F Room 208, Sink	DW	G	5/12/18						✓								✓	✓		-044
45 9	1st Design & Innovation, Sink	DW	G	5/12/18						✓								✓	✓		-045
46 10	F Design & Innovation, Sink	DW	G	5/12/18						✓								✓	✓		-046
47 11	~~1st~~ 2nd Fl Staff, Sink	DW	G	5/12/18						✓								✓	✓		-047
48 12	F 2nd floor Staff, Sink	DW	G	5/12/18						✓								✓	✓		-048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
					5/14/18	235	
		5/11/18	1300		5-15-18	1300	
		5-15-18	0930		5/15/18	1930	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ron Labart
SIGNATURE of SAMPLER: Ron Labart
DATE Signed (MM/DD/YY): 5/12/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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 paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 5 of 5

2189232

Section A Required Client Information:

Company: TESTING ENG & CONSUL
Address: 1343 ROCHESTER RD
TROY, MI 48083
Email To: S CHANDLER @ TECTEST.COM
Phone: (248) 588-6200 Fax:
Requested Due Date/TAT: Standard TAT

Section B Required Project Information:

Report To: TESTING ENG & CONSUL..
Copy To: SCOTT CHANDLER
1343 ROCHESTER RD TROY, MI
Purchase Order No.: 58890-01
Project Name: HENRY FORD ACADEMY ELEM SCH
Project Number: 58890-01

Section C Invoice Information:

Attention: SCOTT CHANDLER
Company Name: TESTING ENG & CONSUL
Address: 1343 ROCHESTER RD TROY MI
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Pb Bcu	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
49	1 1st Room 308, Sink	DW	G	5/12/18						✓								✓	✓		049
50	2 F Room 308, Sink	DW	G	5/12/18						✓								✓	✓		050
51	3 1st Kitchen, Left food prep sink	DW	G	5/12/18						✓								✓	✓		051
52	4 F Kitchen, Left food prep Sink	DW	G	5/12/18						✓								✓	✓		052
53	5 1st Kitchen, Center handwash Sink	DW	G	5/12/18						✓								✓	✓		053
54	6 F Kitchen, Center handwash Sink	DW	G	5/12/18						✓								✓	✓		054
55	7 1st Kitchen, Right Dish Sink	DW	G	5/12/18						✓								✓	✓		055
56	8 F Kitchen, Right Dish Sink	DW	G	5/12/18						✓								✓	✓		056
57	9 1st Room 301, Sink	DW	G	5/12/18						✓								✓	✓		057
58	10 F Room 301 Sink	DW	G	5/12/18						✓								✓	✓		058
	11									✓								✓			
	12									✓								✓			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	TS				5/17/18	1235	
		5/17/18	1300		5-15-18	1300	
		5-15-18	1930		5/15/18	1930	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ron Labbe
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 5/17/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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 paid within 30 days.

SAMPLE RECEIVING / LOG-IN CHECKLIST

Pace Analytical®

Client: TEC	Work Order #: 4612250	
Receipt Record Page/Line #: 10-41		
Recorded by (initials/date): DN 5/15/18	☑ Cooler ☐ Box ☐ Other	Qty Received: 1
Thermometer Used: ☐ IR Gun (#202) ☐ Digital Thermometer (#54) ☑ IR Gun (#402)		

	Cooler 1	Cooler 2	Cooler 3	Cooler 4
Cooler #	TE			
Time	2231			
Custody Seals	☑ None ☐ Present / Intact ☐ Present / Not Intact	☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ None ☐ Present / Intact ☐ Present / Not Intact
Coolant Type	☑ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None
Coolant Location	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom
Temp Blank Present	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
If Present, Temperature Blank Location is	☐ Representative ☐ Not Representative	☐ Representative ☐ Not Representative	☐ Representative ☐ Not Representative	☐ Representative ☐ Not Representative

Cooler 1 temperatures:

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:		8	4.9
Sample 2:		8	3.4
Sample 3:		8	3.1

When above 6 °C take a 3 Sample Average °C: ______

☐ VOC Trip Blank received?

(Coolers 2–4: temperature tables, 3 Sample Average °C and VOC Trip Blank received? left blank.)

If any shaded areas checked, complete Sample Receiving Non-Conformance

Paperwork Received

Yes	No	
☑	☐	Chain of Custody record(s)? If No, Initiated By ______
☑		Received for Lab Signed/Date/Time?
☐	☑	USDA Soil Documents?
☐	☑	Sampling / Field Forms?
☐	☑	Other ______

COC Information

☑ Pace COC ☐ Other ______

COC ID Numbers: 2189225, 2189224, 2189226, 2189227, 2189232

Check COC for Accuracy

Yes	No	
☑	☐	Analysis Requested?
☑	☑	Sample ID matches COC?
☑	☐	Sample Date and Time matches COC?
☑	☐	All containers indicated are received?

DN 5/15

Sample Condition Summary

N/A	Yes	No	
	☐	☑	Broken containers/lids?
	☐	☑	Missing or incomplete labels?
	☐	☑	Illegible information on labels?
	☐	☑	Low volume received?
	☐	☑	Inappropriate or non-Pace containers received?
☑	☐	☐	VOC vials have headspace?
	☐	☑	Extra sample locations?
	☐	☑	Containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☐	☑	Temperature Blank **OR** average sample temperature, ≥6° C?
☑	☐	☐	If "Yes" was thermal preservation required?
☑	☐	☐	If "Yes" were ALL samples collected the same day as receipt?
☑	☐		Completed Sample Preservation Verification Form?
☑	☐	☐	Samples chemically preserved correctly?
☑	☐		If "No", add wire tag and fill out Non-Conformance Form?
☑	☐		Received unpreserved Terracore kit?
			If "Yes" unpreserved vials must be frozen

Work Order Not Logged In with Short Hold / Rush

☐ Copies of COC To Lab Areas

Notes

Yes	No	
☑	☐	Were all samples logged into Epic?
☑	☐	Were all samples labelled?
☑	☐	Were samples placed on scan locations?

Initial / Date : DN 5/16/18 dnc

Pace Analytical®

SAMPLE RECEIVING NON-CONFORMANCE REPORT

Client	Work Order #
TEC	4612250
Receipt Log #	**Completed By (initials/date)**	**Project Chemist**
10-41	DN 5/15/18	

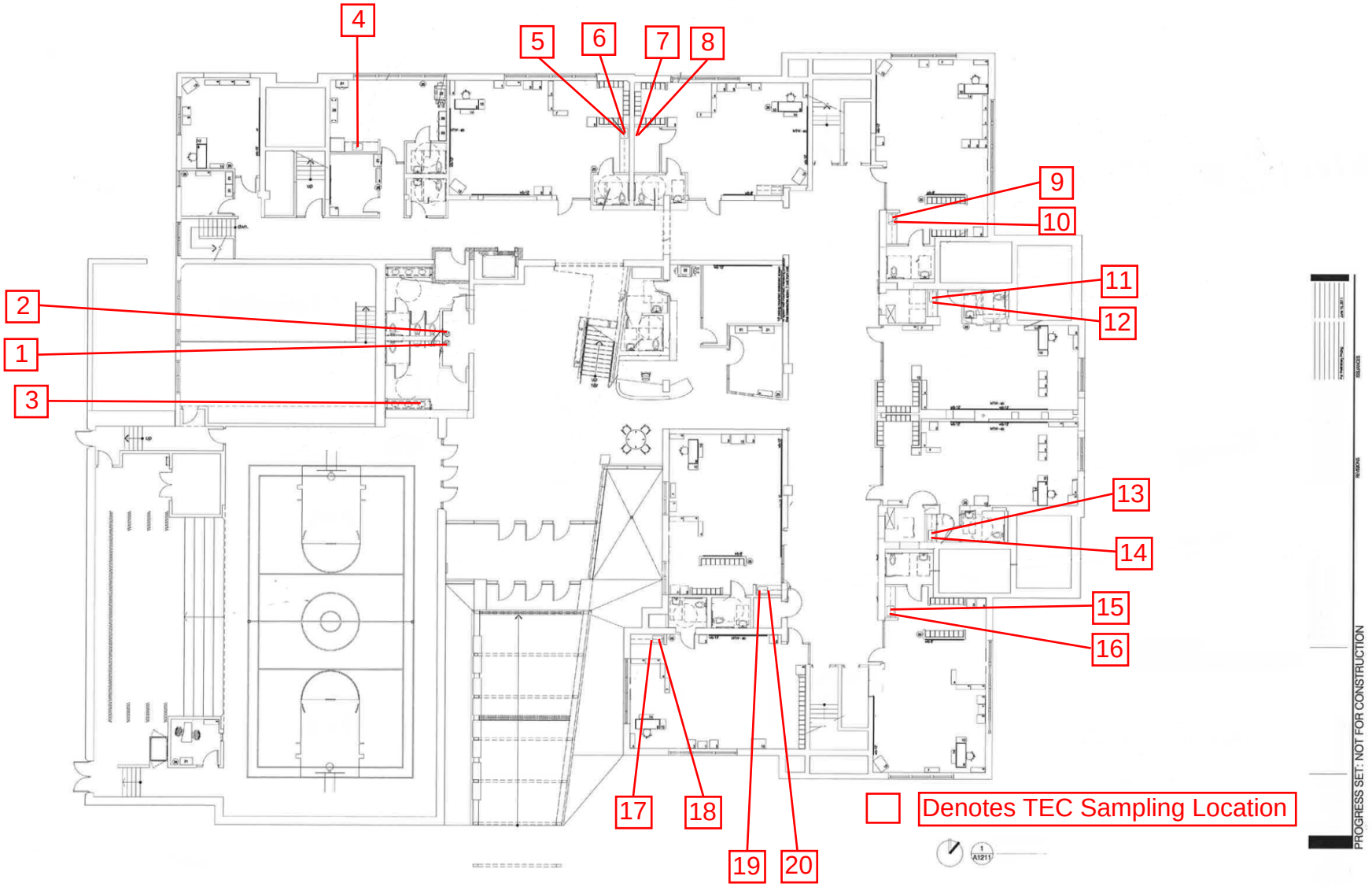
List non-conformance issues associated with this work order in the chart below/left. Identify discrepancies between the COC and sample tags in the chart below/right. Add comments as needed.

COC ID #	Line #	Type of Problem										COC					Sample Tag					Line Item Comments
		Discrepancy	Missing Container	Broken Container	Label Missing / Incomplete	Label Illegible	Low Volume	Inappropriate Container	Headspace	Not Listed on COC	Preservation	Sample Field ID	Date Sampled	Time Sampled	Container Type	Qty	Sample Field ID	Date Sampled	Time Sampled	Container Type	Qty	
		*																				

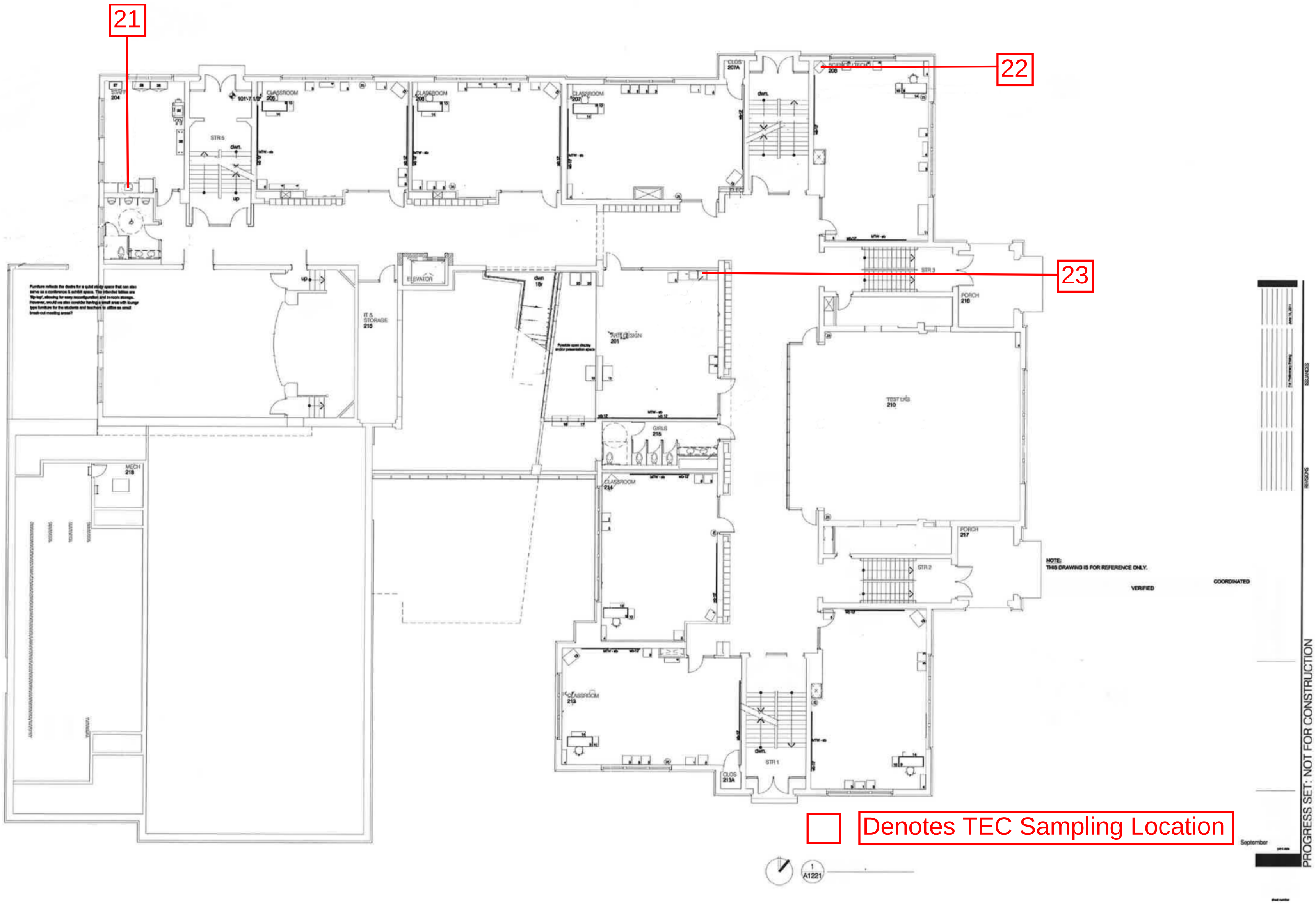
General Comments: * All Sample Containers only have #'s Listed For the Sample ID's & NO TYPES on COC.

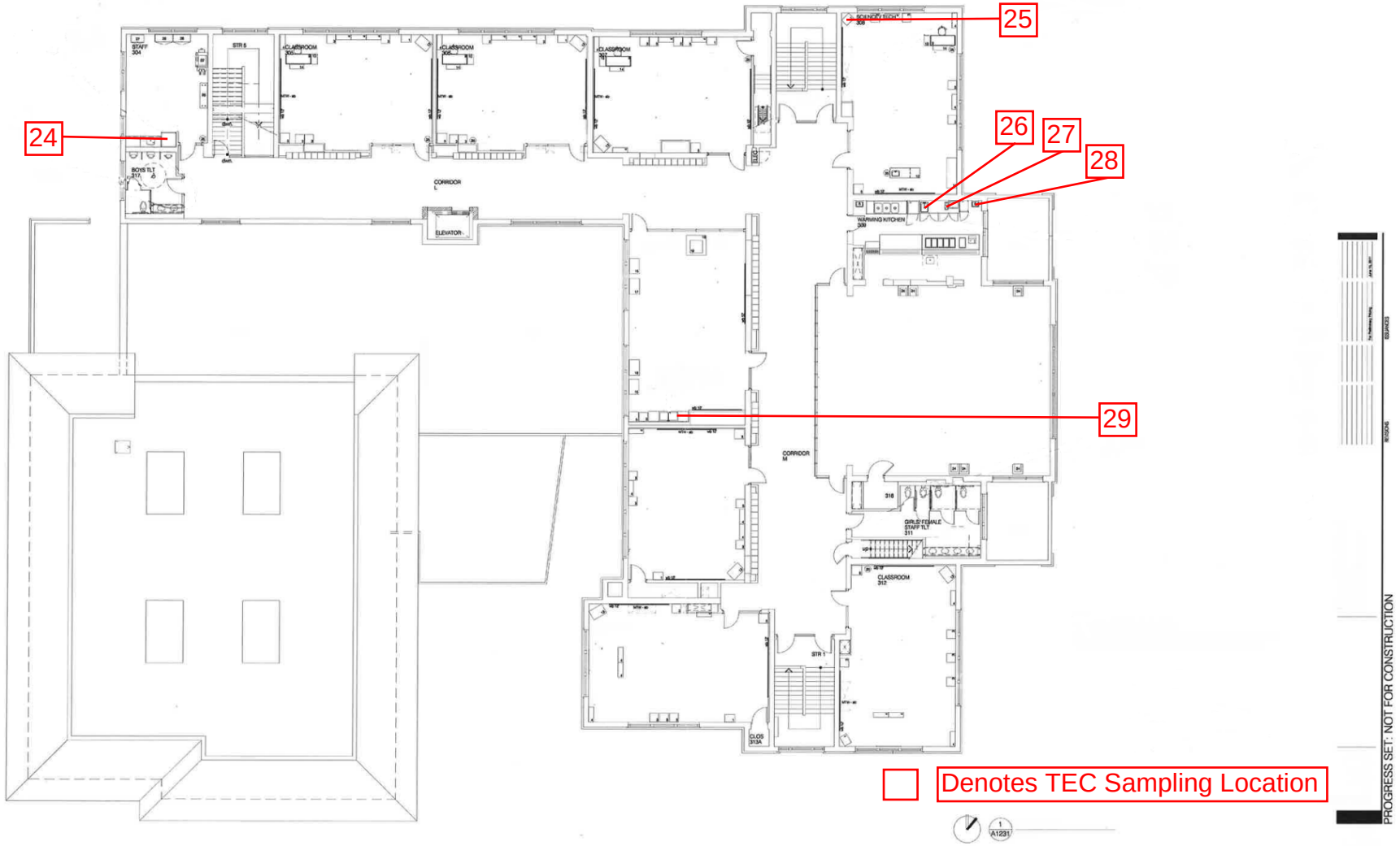
Project Chemist (initials/date)

APPENDIX C



TEC Project #: 58890-01
Henry Ford Academy School for Creative Studies Elementary School
Drinking Water Sampling Locations
Sampling Date: May 12, 2018


21
22
23
ELEVATOR
PORCH 216
PORCH 217
STR 1
STR 2
STR 3
NOTE:
THIS DRAWING IS FOR REFERENCE ONLY.
VERIFIED
COORDINATED
Denotes TEC Sampling Location
PROGRESS SET: NOT FOR CONSTRUCTION
September


24
25
26
27
28
29
Denotes TEC Sampling Location
PROGRESS SET: NOT FOR CONSTRUCTION

APPENDIX D

2016 Water Quality Report

Published in 2017

DETROIT
Water & Sewerage Department

A Message to Our Consumers

Drinking water quality is important to our community and the region. The Detroit Water and Sewerage Department (DWSD) and the Great Lakes Water Authority (GLWA) are committed to meeting state and federal water quality standards including the Lead and Copper Rule. This 2016 Water Quality Report highlights the performance of GLWA and DWSD water professionals in delivering some of the nation's best drinking water. Together, we are committed to protecting public health and maintaining open communication with the community about our drinking water.

To stay informed, we encourage you to register for water alerts via email and text message at detroitmi.gov/dwsd. Our water quality standards are mandated by the Environmental Protection Agency (EPA) and the Michigan Department of Environmental Quality (MDEQ).

How Services Are Provided

The GLWA treats and distributes drinking water for our community. The Detroit Water and Sewerage Department operates more than 2,700 miles of water mains within the city that carry this water to the service line of your home or business. The system uses source water drawn from three intakes. Two source water intakes are located in the Detroit River: one to the north near the inlet of Lake St. Clair, and one to the south near Lake Erie. The third intake is located in Lake Huron. GLWA operated and managed five water treatment plants in 2016. Four of the plants treat source water drawn from the Detroit River intakes. The fifth water treatment plant located in St. Clair County, uses source water drawn from Lake Huron. Detroit customers are provided service from four plants that treat source water drawn from the Detroit River.

Source Water Assessment

Your source water comes from the Detroit River, situated within the Lake St. Clair, Clinton River, Detroit River, Rouge River, Ecorse River watersheds, in the U.S. and parts of the Thames River, Little River, Turkey Creek and Sydenham watersheds in Canada. The Michigan Department of Natural Resources in partnership with the U.S. Geological Survey, DWSD, and the Michigan Public Health Institute, performed a source water assessment in 2004 to determine the susceptibility of potential contamination in these watersheds. The susceptibility rating is on a seven-tiered scale from ”very low” to “very high” based primarily on geologic sensitivity, water chemistry and contaminant sources. The susceptibility of the Detroit River source water intakes were determined to be highly susceptible to potential contamination. However, all four Detroit water treatment plants that use source water from the Detroit River have historically provided satisfactory treatment of this source water to meet drinking water standards in treated water.

The GLWA initiated source water protection activities that include chemical containment, spill response and a mercury reduction program. In 2016, GLWA voluntarily developed and received approval for the Surface Water Intake Protection Programs (SWIPPs) for the Detroit River and the Lake Huron intakes. The programs include the following seven elements: roles and duties of government units and water supply agencies, delineation of source water protection areas, identification of potential contaminant sources, management approaches for source water protection, contingency plans, siting of new sources and public participation. For additional information about the Source Water Assessment report or the SWIPPs, call 313-926-8102.

Substances Found in Source Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and in some cases, radioactive materials and substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treament plants, septic systems, agricultural livestock operations, and wildlife;
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses;
- Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, which can also come from gas stations, urban storm water runoff and septic systems; and
- Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food & Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for human health. Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 800-426-4791.

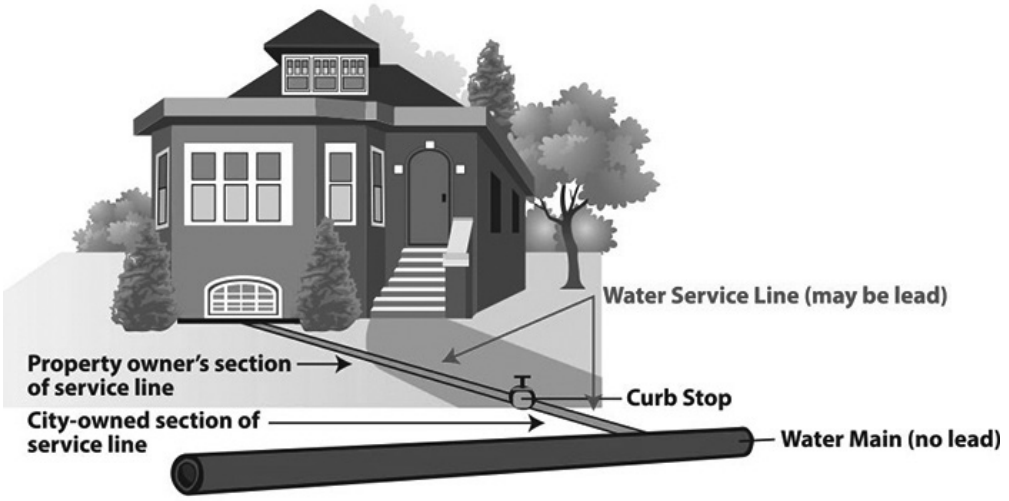
Lead

When lead is present in water, it is primarily from corrosion of materials and components associated with service lines and home plumbing. The water provided to DWSD customers contains a corrosion inhibitor, orthophosphate, to minimize lead release from lead service lines and other lead components. DWSD is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components.

If present, elevated levels of lead can cause serious health and development problems, especially for pregnant women and young children. When your water has been sitting for several hours, you can minimize the potential for lead exposure by running water from your tap until the water is cold and then running the water for two more minutes before using for drinking or cooking. Always use cold water for drinking and cooking.

DWSD conducted Lead and Copper Rule sampling in 2016, one year before required by the EPA. The sampling results show that all the homes tested had lead levels below the EPA action level, which is 15 parts per billion (ppb). The MDEQ certified that DWSD's 90th percentile for lead was 4 ppb, well below the EPA action level.

If you are concerned about lead in your water, visit detroitmi.gov/leadsafe or call 313-964-9300. Information on lead in drinking water, testing methods and steps you may take to minimize exposure are available from the EPA Safe Drinking Water Hotline at 800-426-4791 or at epa.gov/safewater/lead. DWSD offers frequently asked questions and other information about lead and water quality at detroitmi.gov/dwsd.



The Detroit Water and Sewerage Department wants you to know your tap water meets or surpasses all federal and state standards for quality and safety.

Health Concerns

Some people have greater vulnerability to contaminants in drinking water than the general population. Immuno-compromised persons such as people undergoing chemotherapy, persons who have undergone organ transplants, people with AIDS or other immune system disorders, the elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The EPA and Center for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the EPA. For more information about contaminants and potential health effects, contact the EPA's Safe Drinking Water Hotline at 800-426-4791.

Turbidity

Turbidity is a measure of cloudiness of water. The GLWA monitors it because turbidity measurement is a good indicator of the effectiveness of its filtration system. Turbidity can interfere with disinfection and provide a medium for microbial growth and may indicate the presence of disease-causing organisms.

Cryptosporidium

The GLWA monitored for Cryptosporidium in source water (Detroit River) from its Southwest Water Treatment Plant during 2016. Cryptosporidium was detected twice in source water samples. A follow-up water sample was collected from the treated water and Cryptosporidium was not found to be present. Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. The GLWA monitoring indicates the presence of these organisms in source water. Current test methods do not allow GLWA to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. Immuno-compromised individuals are encouraged to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

2016 City of Detroit Tap Water Mineral Analysis

Water leaving the treatment plants

PARAMETER	UNITS	MAX.	MIN.	AVG.
Turbidity	NTU	0.19	0.02	**0.07**
Total Solids	ppm	173	104	**146**
Total Dissolved Solids	ppm	170	0	**116**
Aluminum	ppm	0.247	0.053	**0.044**
Iron	ppm	0.212	0.080	**0.009**
Copper	ppm	0.062	0.005	**0.003**
Magnesium	ppm	12.56	7.71	**9.52**
Calcium	ppm	98.5	2.1	**29.5**
Sodium	ppm	7.23	3.56	**5.17**
Potassium	ppm	1.17	0.79	**0.94**
Manganese	ppm	0.006	0.002	**0.000**
Lead	ppm	0.000	0.000	**0.000**
Zinc	ppm	0.09	0.01	**0.01**
Silica	ppm	1.8	0.6	**1.0**
Sulfate	ppm	33.4	17.5	**23.8**

PARAMETER	UNITS	MAX.	MIN.	AVG.
Phosphorus	ppm	0.80	0.11	**0.36**
Free Carbon Dioxide	ppm	10.5	1.2	**5.1**
Total Hardness	ppm	126	98	**104**
Total Alkalinity	ppm	86	66	**76**
Carbonate Alkalinity	ppm	0	0	**0**
Bi-Carbonate Alkalinity	ppm	86	66	**76**
Non-Carbonate Hardness	ppm	46	18	**29**
Chemical Oxygen Demand	ppm	7.2	2.0	**3.0**
Dissolved Oxygen	ppm	15.4	8.3	**11.4**
Chloride	ppm	0.0	0.0	**0.0**
Nitrate Nitrogen	ppm	0.80	0.21	**0.32**
Fluoride	ppm	0.88	0.06	**0.55**
pH		8.14	7.16	**7.53**
Specific Conductance @ 25 °C	µohms	321	183	**234**
Temperature	°C	26.1	3.0	**14.2**

2016 City of Detroit Regulated Contaminants Table

INORGANIC CHEMICALS - ANNUAL MONITORING AT PLANT FINISHED TAP

REGULATED CONTAMINANT	TEST DATE	UNIT	HEALTH GOAL MCLG	ALLOWED LEVEL MCL	HIGHEST LEVEL DETECTED	RANGE OF DETECTION	VIOLATION	MAJOR SOURCES IN DRINKING WATER
Fluoride	05/10/2016	ppm	4	4	**0.57**	**n/a**	**no**	Erosion of natural deposit; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate	05/10/2016	ppm	10	10	**0.53**	**n/a**	**no**	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

2016 DISINFECTION RESIDUAL - MONITORING IN THE DETROIT DISTRIBUTION SYSTEM

REGULATED CONTAMINANT	TEST DATE	UNIT	HEALTH GOAL MCLG	ALLOWED LEVEL MRDL	HIGHEST LEVEL RAA	RANGE OF QUARTERLY RESULTS	VIOLATION	MAJOR SOURCES IN DRINKING WATER
Total Chlorine Residual	2016	ppm	4	4	**0.83**	**0.53-0.93**	**no**	Water additive used to control microbes

2016 DISINFECTION BY-PRODUCTS - STAGE 2 DISINFECTION BY-PRODUCTS MONITORING IN THE DISTRIBUTION SYSTEM

REGULATED CONTAMINANT	TEST DATE	UNIT	HEALTH GOAL MCLG	ALLOWED LEVEL MCL	HIGHEST LEVEL LRAA	RANGE OF QUARTERLY RESULTS	VIOLATION	MAJOR SOURCES IN DRINKING WATER
(TTHM) Total Trihalomethanes	2016	ppb	n/a	80	**37.3**	**17-53**	**no**	By-product of drinking water chlorination
(HAA5) Haloacetic Acids	2016	ppb	n/a	60	**14.4**	**6.5-20**	**no**	By-product of drinking water chlorination

2016 DISINFECTANT BY-PRODUCT - MONITORING AT THE WATERWORKS PARK PLANT FINISHED TAP

REGULATED CONTAMINANT	TEST DATE	UNIT	HEALTH GOAL MCLG	ALLOWED LEVEL MCL	HIGHEST LEVEL RAA	RANGE OF QUARTERLY RESULTS	VIOLATION	MAJOR SOURCES IN DRINKING WATER
Bromate	2016	ppb	0	10	**0.4**	**0-1.7**	**no**	By-product of drinking water ozonation

LEAD AND COPPER MONITORING AT THE CUSTOMER'S TAP IN 2016

REGULATED CONTAMINANT	TEST DATE	UNIT	HEALTH GOAL MCLG	ALLOWED LEVEL AL	90th PERCENTILE VALUE*	NUMBER OF SAMPLES OVER AL	VIOLATION	MAJOR SOURCES IN DRINKING WATER
Lead	2016	ppb	0	15	**4**	**0**	**no**	Corrosion of household plumbing system; Erosion of natural deposits
Copper	2016	ppm	1.3	1.3	**0.105**	**0**	**no**	Corrosion of household plumbing system; Erosion of natural deposits; Leaching from wood preservatives

* The 90th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.

REGULATED CONTAMINANT	TREATMENT TECHNIQUE	TYPICAL SOURCE OF CONTAMINANT
Total Organic Carbon ppm	The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC is measured each quarter and because the level is low, there is no requirement for TOC removal.	Erosion of natural deposits

RADIONUCLIDES - MONITORED AT THE PLANT FINISHED TAP IN 2014

REGULATED CONTAMINANT	TEST DATE	UNIT	MCLG	MCL	LEVEL DETECTED	VIOLATION	MAJOR SOURCES IN DRINKING WATER
Combined Radium Radium 226 and 228	5/13/14	*pCI/L*	0	5	**0.65 +0.54**	**no**	Erosion of natural deposits

2016 TURBIDITY - MONITORED EVERY 4 HOURS AT THE PLANT FINISHED WATER TAP

Highest Single Measurement Cannot Exceed 1 NTU	Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%)	VIOLATION	MAJOR SOURCES IN DRINKING WATER
0.33 NTU	**99.7 %**	**no**	Soil runoff

Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

2016 SPECIAL MONITORING

CONTAMINANT	TEST DATE	UNIT	MCLG	MCL	HIGHEST LEVEL DETECTED	SOURCE OF CONTAMINANT
Sodium	5/10/16	ppm	n/a	n/a	**5.41**	Erosion of natural deposits

These tables are based on tests conducted by GLWA in the year 2016 or the most recent testing done within the last five calendar years. GLWA conducts tests throughout the year. Only tests that show the presence of a substance or required special monitoring are presented in these tables.

About Unregulated Contaminant Monitoring

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. Before EPA regulates a contaminant, it considers adverse health effects, the occurrence of the contaminant in drinking water, and whether the regulation would reduce health risk.

2015 UNREGULATED CONTAMINANTS - MONITORED AT THE PLANT FINISHED TAPS

REGULATED CONTAMINANT	TEST DATE	UNIT	AVERAGE LEVEL DETECTED	RANGE OF DETECTION	HEALTH ADVISORY	MCLG	MCL	SOURCE OF CONTAMINANT
Strontium	2015	ppb	**106**	**98.7-124**	**4000**	**n/a**	**n/a**	Erosion of natural deposits
Total Chromium	2015	ppb	**0.28**	**0.21-0.42**	**n/a**	**100**	**100**	Discharge from steel and pulp mills; Erosion of natural deposits
Chromium +6	2015	ppb	**0.13**	**0.082-0.42**	**n/a**	**n/a**	**n/a**	Discharge from steel and pulp mills; Erosion of natural deposits
Vanadium	2015	ppb	**0.21**	**ND-0.66**	**n/a**	**n/a**	**n/a**	Erosion of natural deposits

2015 Unregulated Contaminants - Monitored in the Distribution System

REGULATED CONTAMINANT	TEST DATE	UNIT	AVERAGE LEVEL DETECTED	RANGE OF DETECTION	HEALTH ADVISORY	MCLG	MCL	SOURCE OF CONTAMINANT
Strontium	2015	ppb	**109**	**102-124**	**4000**	**n/a**	**n/a**	Erosion of natural deposits
Total Chromium	2015	ppb	**0.21**	**ND-0.45**	**n/a**	**100**	**100**	Discharge from steel and pulp mills; Erosion of natural deposits
Chromium +6	2015	ppb	**0.11**	**0.086-0.18**	**n/a**	**n/a**	**n/a**	Discharge from steel and pulp mills; Erosion of natural deposits
Vanadium	2015	ppb	**0.21**	**ND-0.53**	**n/a**	**n/a**	**n/a**	Erosion of natural deposits

Key to the Detected Contaminants Table

SYMBOL	ABBREVIATION	DEFINITION/EXPLANATION
>	Greater than	
°C	Celsius	A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.
AL	Action Level	The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAA5	Haloacetic Acids	HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.
LRAA	Locational Running Annual Average	The average of analytical results for samples at a particular monitoring location during the previous four quarters.
MCL	Maximum Contaminant Level	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
MCLG	Maximum Contaminant Level Goal	The level of contaminant in drinking water below which there is no known or expected risk to health.
MRDL	Maximum Residual Disinfectant Level	The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRLDG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
n/a	not applicable	
ND	Not Detected	
NTU	Nephelometric Turbidity Units	Measures the cloudiness of water.
pCi/L	Picocuries Per Liter	A measure of radioactivity.
ppb	Parts Per Billion (one in one billion)	The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.
ppm	Parts Per Million (one in one million)	The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.
RAA	Running Annual Average	The average of all analytical results for all samples during the previous four quarters.
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
TTHM	Total Trihalomethanes	Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromoochloromethane and bromoform. Compliance is based on the total.
µmhos	Microohms	Measure of electrical conductance of water.

Redefining the Customer Service Experience

DWSD is using technology to enhance customer service.

- More ways to connect with you.
- Information at your fingertips.
- Opportunities to conduct business on your time -- any time.

How DWSD is improving customer service so you don't have to wait in line -- "Skip the Line."

- Kiosks. DWSD has expanded its payment sites to 28 locations in and around the city through self-service ATM-style kiosks. This allows you to conveniently pay near your home and work.
- QLESS. An appointment scheduling system so customers can:
  - Call or text ahead for a place in line;
  - Receive calls or text updates of your place in line; and
  - Schedule appointments for specific dates and times.
- Coming soon: Conduct business on the DWSD Customer Care website:
  - Account access from your computer, tablet or mobile device;
  - Pay your water bill;
  - Create payment arrangements; and
  - See your water usage in real-time.

Each of these DWSD enhancements will help you skip the line by reducing your wait time on the phone or at a DWSD Customer Care Center. To access the new features, or find a payment kiosk, visit detroitmi.gov/dwsd.

Additional improvements to DWSD Customer Care include more capacity at the call center to further reduce your wait time, and the hiring of Spanish-speaking customer service representatives.

Stay Connected

Are you or someone you know having difficulty paying the water and sewer bill? DWSD wants to help you avoid a service interruption. The department urges customers to request assistance before their past due bill amount increases. Every DWSD customer has a path toward assistance.

10/30/50 Plan

Every Detroit water and sewer customer who has a past due balance is eligible for the 10/30/50 Plan. There are no income restrictions to qualify. The 10/30/50 Plan is as follows.

- You must be a Detroit resident.
- A deposit of 10 percent of the past due balance is required to enter the payment arrangement.
- The balance of the past due amount is equally spread over a 12-24 month period which must be paid in addition to the normal monthly bill.
- Example: A resident has a $1,000 past due amount. He or she pays 10 percent or $100 of the past due leaving a $900 balance. The amount of $900 is divided over 24 months at $37.50/month. Customer pays $37.50 each month in addition to his or her current bill.
- If you default on the 10 percent payment plan, you may re-enroll paying 30 percent of the past due balance.
- If you default a second time, you may re-enroll paying 50 percent of the past due balance.
- You may apply for the 10/30/50 Plan through the DWSD Customer Care portal at detroitmi.gov/dwsd or at a Customer Care Center.

WRAP

WRAP, the Water Residential Assistance Program, provides qualifying customers at or below 150 percent of the federal poverty threshold with help in paying current and past due water bills. A family of four, for example, who has a household income at or below $36,450, is eligible to apply, whether you have a past due balance or not. WRAP benefits include:

- Eligible customers receive a $25 monthly credit toward current water bills with the past due balance suspended for 12-24 months;
- Customers who successfully make their monthly payments for six months, receive an additional credit of up to $350 toward the arrearages (up to $700 during a 12-month period);
- Qualifying residents with water usage exceeding 120 percent of the average household water consumption in the city are also eligible for a free water conservation audit, and an additional up to $1,000 for minor household plumbing repairs based on audit results; and
- Residential households currently enrolled in WRAP and in compliance with the program will not have their water service interrupted.

Eligible residents may apply for WRAP by calling 313-386-9727 or learn more at waynemetro.org/wrap. WRAP is a GLWA program administered by Wayne Metropolitan Community Action Agency.

Addressing the Water and Sewer Infrastructure

DWSD has a backlog of deferred maintenance on the water and sewer infrastructure. This was largely created by a lower bill collection rate. When the collection rate is below 80 percent, it provides limited funds for DWSD to perform maintenance and repairs on the water and sewer system.

In 2016, DWSD increased the collection rate from 77 to 91 percent resulting from improved business practices and customer outreach. This effort provided an additional $56 million. These funds joined with the $50 million annual lease payment from the GLWA, provides DWSD the financial capacity, without major rate increases, to address the water and sewer infrastructure. DWSD plans to launch a capital improvement project in 2017; has purchased additional equipment to clean and maintain the city-owned catch basins (storm drains) beginning in summer 2017; and increased capacity to restore lawns, sidewalks and driveways with a new restoration contract approved by the Board of Water Commissioners in 2017.

Learn more about the capital improvement project, including DWSD's commitment to hire Detroiters and champion a minority business incubator, at detroitmi.gov/dwsd.

Did You Know?

Landlords and Tenants:
Landlords cannot establish water service with DWSD in the tenant's name. And, tenants cannot place water service in the landlord's name. DWSD has improved its policy to protect customers and property owners. Landlords can establish service for the property in their name. Or, tenants can establish water service in their name only when the official lease agreement authorizes the renter to place water service in his/her name.

Know Before You Buy:
Before you purchase a property, have your real estate agent perform a title search to identify the liens, if any. Or hire a title search firm. When liens are identified prior to purchase, you can resolve them with the seller, or at the very least you are aware of past due bills prior to purchasing the property. Purchasers who don't resolve the past due water bill attached to the property before they close the sale, are then responsible for the past due balance in addition to establishing service in their name. DWSD attaches past due balances to the property, or to the person who is the account holder if the water service is in a person's name (DWSD has not placed past due water bill accounts onto the residential property tax rolls since 2014; It does place commercial property past due bills onto their property taxes.)

Owner Responsibility:
The City of Detroit owns and operates the water and sewer infrastructure, while the property owner is responsible for their portion of the service line and sewer pipe.

Detroit Water and Sewerage Department
735 Randolph Street
Detroit, Michigan 48226

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DETROIT
Water & Sewerage Department

2016 Water Quality Report

ATTENTION This report contains information about the water quality in your community.

Emergency

To report emergencies, such as water main breaks, flooded streets or basement back-ups, missing manhole covers, or leaking fire hydrants, call the DWSD 24-hour emergency services line at 313-267-7401.

Smartphone users may download the Improve Detroit mobile app to take a photo and report the issue, or report it online at detroitmi.gov/dwsd.

Public Participation

The Board of Water Commissioners meeting is held the third Wednesday of each month at the Water Board Building located at 735 Randolph Street. Unless otherwise noted, public hearings and other Board of Water Commissioner meetings are open to the public. For more information, please contact the DWSD board liaison at 313-224-4704 or visit detroitmi.gov/dwsd.

NOTICE: This 2016 Water Quality Report contains important information about your drinking water. Please have someone translate this document for you if you are unable to read the report.

AVISO: Este Informe de Calidad del Agua 2016 contiene información importante sobre su agua potable. Solicite a alguien que traduzca este documento si no puede leer el informe.

تقرير جودة المياه لعام ٢٠١٦ يتضمن معلومات هامة عن مياه الشرب الخاصة بك.
إذا لم تتمكن من قراءة التقرير يرجى أن يترجم شخص ما هذا المستند لك.

This report is available on our website at **detroitmi.gov/dwsd**

We welcome your comments and opinions about this report and will be happy to answer any questions you may have. Please direct your comments or questions to the

Public Affairs Group at:
313-964-9576
or you may email your comments to:
dwsd-publicaffairs @detroitmi.gov