WATER QUALITY TESTING

FOR

DUPAGE HIGH SCHOOL DISTRICT 88 WILLOWBROOK HIGH SCHOOL

VILLA PARK, ILLINOIS

SEPTEMBER 19 & NOVEMBER 17, 2017

PROJECT NUMBER: 17-18305

Project: 17-18305.ENV

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INTRODUCTION

DuPage High School District 88 has implemented a proactive program of water testing at Willowbrook High School. Water sampling was conducted by Mr. Dan Petras of Aires Consulting on September 19, 2017. Mr. Geoffrey J. Bacci II, P.E. designed the studied and developed this report.

All sampling methodology followed protocol required by The Lead in Drinking Water Testing Bill (LDWTB) an guidelines published by the Illinois Department of Public Health (IDPH).

All sources that exceeded the LDWTB reporting limit of 5.0 ppb were re-tested by Mr. Jeff Olson on November 17, 2017.

BACKGROUND INFORMATION

The Lead in Drinking Water Testing Bill (LDWTB) was signed into law by Governor Bruce Rauner effective January 17, 2017. The bill amends six (6) different Illinois Codes and Acts including:

- The Illinois School Code
- Illinois Plumbing License Law.

The LDWTB requires School buildings constructed prior to January 1, 2000 to test drinking water sources for lead and provide written notification of the results. The Bill also directs the Illinois department of Public Health to draft rules by 1/1/2018 which may have additional requirements. The IDPH has issued a guidance document for drinking water testing which is included in Appendix I. The following is a summary of those guidelines:

- All schools housing 5th grade and under built before 1/1/2000 must test drinking sources used for drinking and cooking.
- Results of tests that are 5 parts per billion (ppb) or less can be communicated to parents at minimum by website posting.



 Locations that have results over 5 ppb must be communicated in writing or electronically to affected parents. That communication should also include information on the USEPA website that parents can access for guidance. That website: https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

According to the LDWTB the testing and notification requirements apply only to covered sources which are:

- Drinking fountain and drinking sources in buildings for grade 5 and under
- Classroom sinks in grades below 1 (kindergarten and pre-kindergarten).

Aires recommends notification extends to all sources tested.

Lead most frequently gets into drinking water by leaching from plumbing materials and fixtures as water moves through a school's distribution system. Even though the drinking water you receive from your water supplier meets federal and state standards for lead and copper, your facility may have elevated lead levels due to plumbing materials and water use patterns. Leaching can occur for several reasons but the most significant is corrosion which can occur if water is acidic. Acidic water has a pH less than 7.0.

METHODOLOGY

Water testing followed protocol recommended by IDPH and the LDWTB. All water sources have two samples collected. The first collection at each source is a "first draw" sample. Water collection occurs in first draw samples after sources were unused for at least eight (8) hours but not more than 18 hrs. The second sample at that source is collected after 30 seconds of flushing. Each sample is given an identifier which begins with letters that identify the school. The middle letter identifies the sample as a drinking fountain (W) or a sink (S). Letters identify the sample location. An "A" after the letter indicates a first draw sample and a "B" identifies a flush sample. For example sample WKS-2A was collected at location 2 at Willowbrook High School and is a first draw sample at a kitchen sink. In certain locations where multiple outlets are present a "C" after the number can also denote a first draw sample from one of the outlets (i.e. a combination sink/water fountain).



Samples were analyzed by Prairie Analytical Systems, Inc. Prairie Analytical is accredited by the National Environmental Laboratory Environmental Conference (NELAC).

The EPA recommends taking action to reduce lead levels if sample results exceed 20 ppb. That action could include water treatment or fixture replacement.

Public water supplies are required by the Safe Drinking Water Act to take corrective action if 10% or more of their sources contain lead levels greater than 15 ppb.

RESULTS

Field sheets identifying sample numbers and sample locations maps are included in Appendix II. Laboratory results are included in Appendix III.

The following locations exceeded 5 parts per billion (ppb). Locations that exceeded the EPA action level of 20 ppb are shown in **bold print**.

- WKS-6A: first draw sample from kitchen sink S1-10 68.8 ppb
- WBF-22C: first draw sample from the bottle fill in the Nurse's Office 10.1 ppb
- WWF-24B: flush sample from the water cooler in PE 100 17.0 ppb

RE-TESTING RESULTS

All sources that exceeded the USEPA's recommended Action Level of 20 ppb were retested on November 17, 2017. Laboratory results are included in Appendix IV. The following locations exceeded 5 parts per billion (ppb). Locations that exceeded the EPA action level of 20 ppb are shown in **bold print**.

WKS-6A-RE: first draw sample from kitchen sink S1-10 - 15.6 ppb

Sinks that exceed the EPA action level of 20 ppb should be labeled to avoid using as a drinking or cooking source. Further investigation and corrective action is necessary to identify the lead source and identify corrective action to reduce lead levels. We



recommend the District post the results on the District's website along with any corrective actions and/or preventative measures.

PROFESSIONAL CERTIFICATION

Aires Consulting, a division of Gallagher Bassett Services, Inc. conducted this study in the interest of DuPage High School District 88 to assist in meeting environmental obligations and regulations. In this respect, we hope the results of this study are useful. This study was not intended to include every environmental exposure that may be present at the facility; only those items specifically addressed in the report were evaluated. If you have any questions concerning this study please let us know.

Respectfully Submitted,

Geoffrey J. Bacci II, P.E.

Director of Operations



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Sampling Protocol for Drinking Water in Schools





- Schools must use an Illinois Environmental Protection Agency (IEPA) accredited laboratory for the testing.
- ❖ Schools must provide the Illinois Department of Public Health (IDPH) with sample results within 7 days of receipt. Results should be emailed to DPH.LeadH2O@illinois.gov.



SB 0550 was signed by
Governor Bruce Rauner on
January 16, 2017. It
requires all schools (Pre-K
through 5th grade) to test
for lead in water used for
drinking and cooking.
Schools built after January
1, 2000 are not required to
test at this time.

Sampling must be completed by:

- December 31, 2017 Schools constructed prior to January 1, 1987
- ❖ December 31, 2018 Schools constructed between January 2, 1987 and January 1, 2000

Action Steps Prior to Sampling

- 1. Your local water supply can be a great resource. Contact them to request assistance in establishing your sampling plan.
- 2. Obtain a general floor plan for each school building. Floor plans are available in the schools' asbestos management plan.
- 3. Identify all fixtures to be sampled on the general floor plan. All plumbing fixtures that are used for cooking or drinking must be sampled. Bathroom and utility sinks do not need to be sampled.
- 4. Assign a unique alphanumeric identifier to each fixture.
- 5. Label fixture identifiers on the floor plan. Make sure all samples are labeled with the corresponding alphanumeric identifier for each fixture.
- 6. Determine which IEPA accredited laboratory you will utilize for the analysis. A list can be found at http://www.epa.illinois.gov/citizens/citizens-information/in-your-home/resources-on-lead/index.
- 7. Contact the laboratory to obtain enough 250 mL sample bottles and Chain of Custody forms to allow you to collect 2 samples from each fixture. The laboratory will also provide sample shipping instructions.

Sample Collection Procedure

- Do NOT collect samples on Mondays or after extended holiday/break periods.
- Schools should develop a program to routinely flush plumbing fixtures after extended school closings.
- Do NOT flush plumbing fixtures in advance of sampling.



WARNING! Use caution when collecting samples. Some sample containers may contain a nitric acid preservative that can cause skin irritation.

PROCEDURE

- 1. Each fixture must be sampled twice:
 - a. First draw sample
 - b. Second draw sample after 30 seconds
- 2. Ensure water has been idle and unused in pipes and fixtures for at least eight hours, but not more than 18 hours.
- 3. Prior to sampling, label the sample bottles with the alphanumeric identifier. Do not open the sample bottles until you are ready to collect each sample.
- 4. Position the first sample bottle beneath the fixture and turn the water on. Do not allow any water to spill.
- 5. Fill the bottle to the shoulder or the line marked 250 mL and turn the water off. Cap the bottle tightly.
- 6. Turn the water back on and allow the water to run for 30 seconds before filling the second sample bottle. Cap the bottle tightly.
- 7. Make sure both bottles are labeled with the date and time, alphanumeric identifier, and sample description (first or second draw).
- 8. Fill out Chain of Custody for each sample.
- 9. Continue sampling all fixtures until all samples are collected. Prepare the samples for shipping per laboratory instructions.

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JOHN DONAHUE	SiGi	MATURE AL	08m	the			NAS-BOLID LCHT-LEACHATE		Total, EPA	
SAMPLE DESCRIPTION VAS YOU WANT ON REPORT	col	DATE LECTED CO	TIME	SAMPLE TYPE GRAS COMP	MATRIX TYPE	BOTTLE	Lead To		REMARKS	
Any Where Elementary Sc	hort			х	DW	1	x			
333 Second St. M.	achesney Parl	U		х	DW	1	x			
		A	м	x	DW	1	x			
MCH - B9- 01	1/	1/16 6	:20	x	DW	1	х			
MCH-F-OI	41	116 10:	22	x	DW	1	x			
MCH- B-02	1/1	116 6	: 24	х	DW	1	х			
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1 M. K. melus	10: 21 A					TIME		$\neg (\cdot) -$		-
RELINGUISHED BY: (SIGNATURE)	DATE	RECEIVED B	Y: ISIGNATI	URE)		DATE		SAMPLE TEMPER	RATURE UPON RECEIPT	oc
	TIME					TIME		SAMPLE(S) RECI	STARTED PRIOR TO RECEIPT EIVED ON ICE	Y OR N Y OR N
RELINQUISHED BY: [SIGNATURE]	DATE	RECEIVED II	Y: (SIGNATI	URE)		DATE		PROPER BOTTLE	ES RECEIVED IN GOOD CONDITION	YORN
	TIME					TIME		SAMPLES RECEI	VED WITHIN HOLD TIME(S)	YORN

Test Results

How to interpret your test results

- 1. Test results will be reported in either parts per billion (ppb) or micrograms per liter (ug/l). Both units of measure are appropriate.
- 2. If any sample exceeds 5 ppb of lead, the notification requirements are triggered.



Reporting and Notification Requirements

- ❖ Within 7 business days of receipt of test results, schools must email all results to IDPH at DPH.LeadH2O@illinois.gov.
- ❖ If all sample results are less than 5 ppb, schools may use their website (at minimum) to notify parents of the results.
- If any of the sample results exceed 5 ppb, schools must notify parents in writing or electronically, and include:
 - The location and source exceeding 5 ppb, and
 - The USEPA website for information about lead in drinking water: https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water.

Parents should be advised to contact their health care provider with any concerns about their child's health, including blood tests for lead exposure.

Next Steps

Test results will likely generate questions from parents, guardians, and the public about steps the school is taking to address lead in water.

Removing fixtures from use may not be an immediate option. Establishment of a water management plan, including identification of lead-containing plumbing, scheduled flushing, fixture replacement, and monitoring is the best course of action for schools addressing positive lead test results.

Additional guidance for interim (short-term) and permanent lead control measures is provided in the USEPA 3Ts for Reducing Lead in Drinking Water in Schools. This document can be found at:

www.epa.gov/sites/production/files/201509/documents/toolkit_leadscho ols_guide_3ts_leadschools.pdf





The Illinois Department of Public Health supports the efforts of Illinois Section AWWA to educate schools about lead testing. For additional information see dph.illinois.gov.

ISBE ID: 190220880160002						
Building ID:						
Building Description:	Willowbrook High School					
Sample Collection Date:	9/19/2017					

Dan Petras

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
5:14 AM	WKS-1A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:14 AM	WKS-1B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:15 AM	WKS-2A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:15 AM	WKS-2B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:16 AM	WKS-3A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:16 AM	WKS-3B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:17 AM	WKS-4A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:17 AM	WKS-4B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:18 AM	WKS-5A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:18 AM	WKS-5B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:19 AM	WKS-6A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:19 AM	WKS-6B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:20 AM	WKS-7A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:20 AM	WKS-7B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:21 AM	WKS-8A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:21 AM	WKS-8B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:22 AM	WKS-9A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:22 AM	WKS-9B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:23 AM	WKS-10A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:23 AM	WKS-10B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:24 AM	WKS-11A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	

Collected by:

ISBE ID:	190220880160002					
Building ID:						
Building Description:	Willowbrook High School					
Sample Collection Date:	9/19/2017					
Collected by:	Dan Petras					

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
5:24 AM	WKS-11B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:26 AM	WKS-12A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:26 AM	WKS-12B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:28 AM	WKS-13A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:28 AM	WKS-13B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:30 AM	WKS-14A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:30 AM	WKS-14B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:31 AM	WKS-15A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:31 AM	WKS-15B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:33 AM	WIM-16A	Kitchen	IM - Ice Machine	9/18/2017	6:00 PM	First Draw	250	
5:33 AM	WWF-17A	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:35 AM	WWF-17B	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:35 AM	WBF-17C	Cafeteria	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
5:37 AM	WWF-18A	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:37 AM	WWF-18B	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:40 AM	WBF-18C	Cafeteria	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
5:41 AM	WWF-19A	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:41 AM	WWF-19B	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:52 AM	WWF-20A	Music wing	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:52 AM	WWF-20B	Music wing	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:54 AM	WWF-21A	Outside T1-8	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	

ISBE ID:	190220880160002					
Building ID:						
Building Description:	Willowbrook High School					
Sample Collection Date:	9/19/2017					
Collected by:	Dan Petras					

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
5:54 AM	WWF-21B	Outside T1-8	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:54 AM	WBF-21C	Outside T1-8	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
6:00 AM	WWF-22A	Nurses office	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:00 AM	WWF-22B	Nurses office	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:00 AM	WBF-22C	Nurses office	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
6:05 AM	WWF-23A	PE-102	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:05 AM	WWF-23B	PE-102	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:09 AM	WWF-24A	PE-100	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:09 AM	WWF-24B	PE-100	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:15 AM	WWF-25A	Aux gym	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:15 AM	WWF-25B	Aux gym	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:20 AM	WWF-26A	Faculty café	O - Other	9/18/2017	6:00 PM	First Draw	250	water dispenser
6:20 AM	WWF-26B	Faculty café	O - Other	9/18/2017	6:00 PM	Flush	250	water dispenser
6:20 AM	WBF-26C	Faculty café	O - Other	9/18/2017	6:00 PM	First Draw	250	water dispenser
6:22 AM	WWF-27A	Outside A127	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:22 AM	WWF-27B	Outside A127	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:25 AM	WWF-28A	Outside A127	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:25 AM	WWF-28B	Outside A127	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:28 AM	WWF-29A	Outside A150	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:28 AM	WWF-29B	Outside A150	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:31 AM	WWF-30A	Auto shop	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	

ISBE ID:	190220880160002	
Building ID:		
Building Description:	Willowbrook High School	
Sample Collection Date:	9/19/2017	
Collected by:	Dan Petras	

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
6:31 AM	WWF-30B	Auto shop	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:34 AM	WWF-31A	Outside A138	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:34 AM	WWF-31B	Outside A138	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:36 AM	WWF-32A	Outside A113	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:36 AM	WWF-32B	Outside A113	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:36 AM	WBF-32C	Outside A113	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
6:38 AM	WWF-33A	Main hall	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:38 AM	WWF-33B	Main hall	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:40 AM	WWF-34A	Main hall	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:40 AM	WWF-34B	Main hall	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:43 AM	WWF-35A	Outside T1-16	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:43 AM	WWF-35B	Outside T1-16	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:44 AM	WWF-36A	Outside T1-16	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:44 AM	WWF-36B	Outside T1-16	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:48 AM	WWF-37A	Outside lib test center	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:48 AM	WWF-37B	Outside lib test center	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:48 AM	WBF-37C	Outside lib test center	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
6:50 AM	WS-38A	Media center office	S - Sink	9/18/2017	6:00 PM	First Draw	250	
6:50 AM	WS-38B	Media center office	S - Sink	9/18/2017	6:00 PM	Flush	250	
6:54 AM	WWF-39A	Social services	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:54 AM	WWF-39B	Social services	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	

ISBE ID:	190220880160002					
Building ID:						
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Sample Collection Date:	9/19/2017					
Collected by:	Dan Petras					

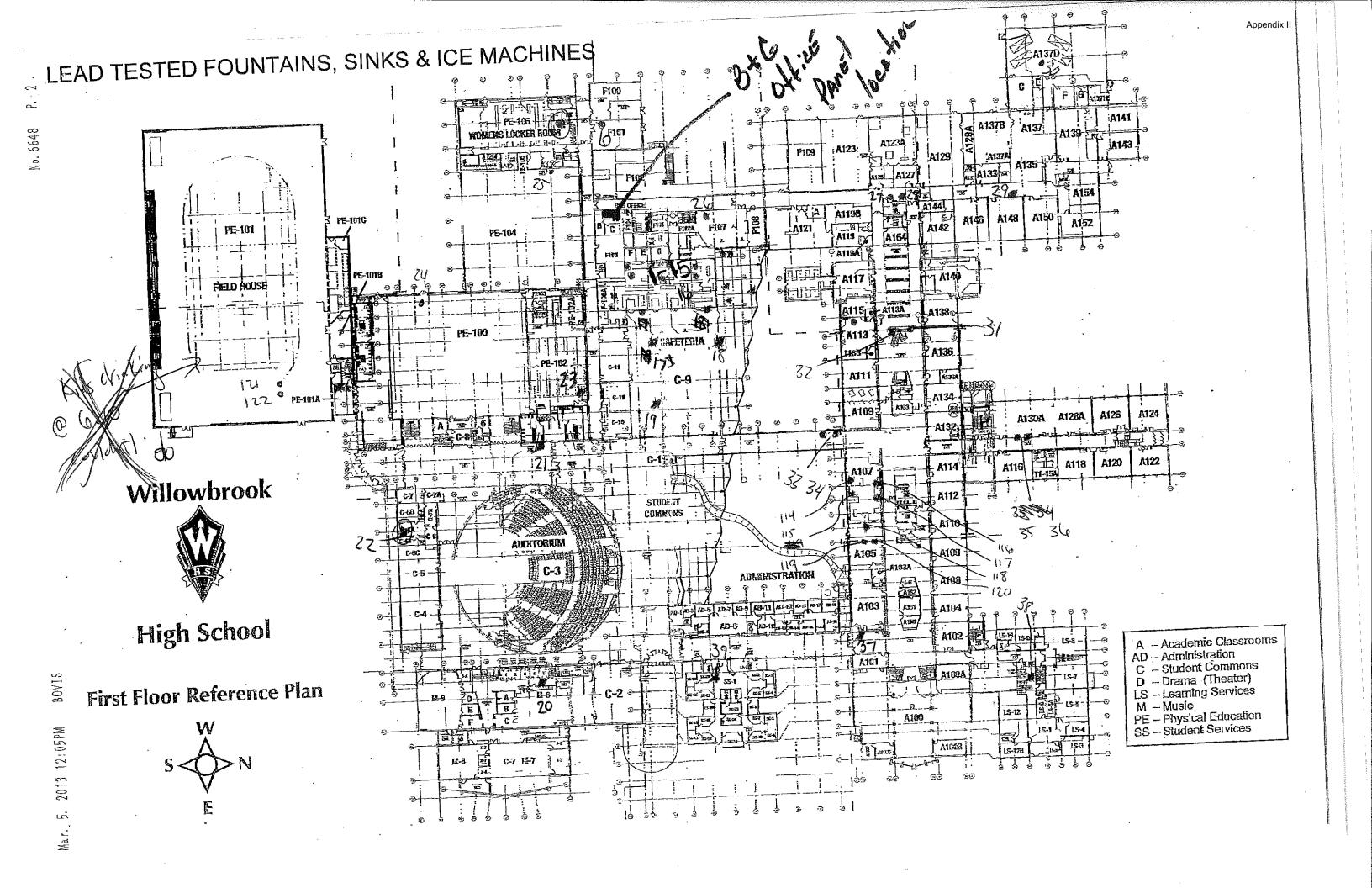
Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
5:24 AM	WWF-100A	Across A319	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:25 AM	WWF-100B	Across A319	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:26 AM	WWF-101A	Across A319	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:27 AM	WWF-101B	Across A319	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:28 AM	WWF-102A	Next to A304	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:29 AM	WWF-102B	Next to A304	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:31 AM	WWF-103A	Next to A304	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:32 AM	WWF-103B	Next to A304	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:33 AM	WWF-104A	Next to T3-3	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:34 AM	WWF-104B	Next to T3-3	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:41 AM	WWF-105A	Next to A226	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:42 AM	WWF-105B	Next to A226	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:43 AM	WBF-105C	Next to A226	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
5:44 AM	WWF-106A	Next to A226	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:45 AM	WWF-106B	Next to A226	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:49 AM	WWF-107A	Across A214	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:50 AM	WWF-107B	Across A214	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	

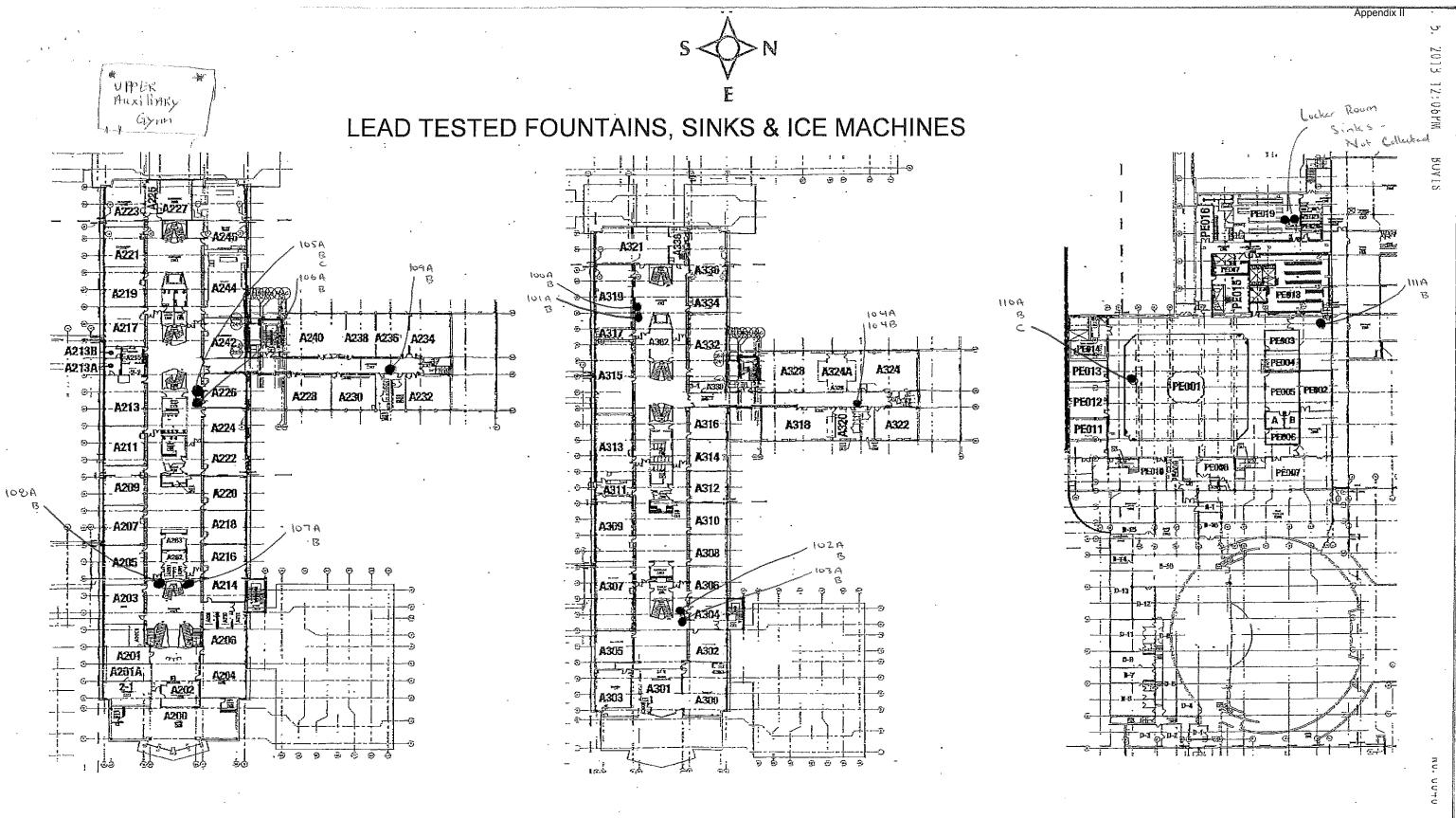
ISBE ID:	190220880160002	
Building ID:		
Building Description:	Willowbrook High School	
Sample Collection Date:	9/19/2017	
Collected by:	Dan Petras	

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
5:51 AM	WWF-108A	Across A203	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:52 AM	WWF-108B	Across A203	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:58 AM	WWF-109A	Across A236	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:59 AM	WWF-109B	Across A236	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:14 AM	WWF-110A	Fitness center	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:15 AM	WWF-110B	Fitness center	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:16 AM	WBF-110C	Fitness center	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
6:20 AM	WWF-111A	PE002	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:21 AM	WWF-111B	PE002	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:35 AM	WWF-112A	Girls PE lockeroom	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:36 AM	WWF-112B	Girls PE lockeroom	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:40 AM	WWF-113A	F101	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
6:41 AM	WWF-113B	F101	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
6:51 AM	WCS-114A	A107	S - Sink	9/18/2017	6:00 PM	First Draw	250	
6:52 AM	WCS-114B	A107	S - Sink	9/18/2017	6:00 PM	Flush	250	
6:53 AM	WCS-115A	A107	S - Sink	9/18/2017	6:00 PM	First Draw	250	
6:54 AM	WCS-115B	A107	S - Sink	9/18/2017	6:00 PM	Flush	250	
6:55 AM	WCS-116A	A107	S - Sink	9/18/2017	6:00 PM	First Draw	250	
6:56 AM	WCS-116B	A107	S - Sink	9/18/2017	6:00 PM	Flush	250	
6:57 AM	WCS-117A	A107	S - Sink	9/18/2017	6:00 PM	First Draw	250	
6:58 AM	WCS-117B	A107	S - Sink	9/18/2017	6:00 PM	Flush	250	

ISBE ID:	190220880160002
Building ID:	
Building Description:	Willowbrook High School
Sample Collection Date:	9/19/2017
Collected by:	Dan Petras

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
6:58 AM	WCS-118A	A107	S - Sink	9/18/2017	6:00 PM	First Draw	250	
6:59 AM	WCS-118B	A107	S - Sink	9/18/2017	6:00 PM	Flush	250	
7:02 AM	WCS-119A	A105	S - Sink	9/18/2017	6:00 PM	First Draw	250	
7:03 AM	WCS-119B	A105	S - Sink	9/18/2017	6:00 PM	Flush	250	
7:04 AM	WIM-120A	A105	IM - Ice Machine	9/18/2017	6:00 PM	First Draw	250	
5:00 AM	WWF-121A	Field house	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:00 AM	WWF-121B	Field house	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:01 AM	WWF-122A	Field house	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:01 AM	WWF-122B	Field house	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:01 AM	WBF-122C	Field house	O - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
7:20 AM	WIF-40	Basement boiler	O - Other	9/18/2017	6:00 PM	Flush	1000	pH = 8.22





Second Floor Reference Plan

Third Floor Reference Plan

Basement Floor Reference Plan



Tuesday, October 10, 2017

Geoff Bacci II

Aires Consulting Group 1550 Hubbard Ave. Batavia, IL 60510

TEL: (630) 879-3006 FAX: (630) 879-3014

RE: DuPage HS 88/ Willowbrook High School

PAS WO: 17I0591

Prairie Analytical Systems, Inc. received 133 sample(s) on 9/21/2017 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (224) 253-1348.

Respectfully submitted,

(hrota)

Christina E. Pierce

Project Manager

Certifications: NELAP/NELAC - IL #100323

EPA200.8

Method

JTC

Analyst

*Lead

Analyses

Date: 10/10/2017

10/4/17 14:25

Date Analyzed

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17I0591 **Project:** DuPage HS 88/ Willowbrook High School

U

Result

Lab ID: 17I0591-01 **Client Sample ID:** WKS-1A **Collection Date:** Matrix: Drinking Water 9/19/17 5:14

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS

 $\mu g/L$

1

DF

10/4/17 12:47

Date Prepared

Client Sample ID: Lab ID: 17I0591-02 WKS-1B

2.00

Matrix: Drinking Water **Collection Date:** 9/19/17 5:14

DF Date Prepared Analyses Result Limit Qual Units Date Analyzed Method Analyst Metals by ICP-MS U 2.00 10/4/17 12:47 JTC *Lead μg/L 1 10/4/17 14:39 EPA200.8

Lab ID: 17I0591-03 **Client Sample ID:** WKS-2A

Limit

Collection Date: Matrix: Drinking Water 9/19/17 5:15

Metals by ICP-MS *Lead U 2.00 10/4/17 12:47 10/4/17 14:43 EPA200.8 μg/L 1 JTC

Units

Qual

Lab ID: 17I0591-04 **Client Sample ID:** WKS-2B **Collection Date:**

Matrix: Drinking Water 9/19/17 5:15

DF Result Limit Qual Units **Date Prepared** Date Analyzed Method Analyses Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:47 10/4/17 14:47 EPA200.8 JTC

Lab ID: 17I0591-05 **Client Sample ID:** WKS-3A

Collection Date: Matrix: Drinking Water 9/19/17 5:16

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:47 10/4/17 14:52 EPA200.8 JTC

Client Sample ID: WKS-3B Lab ID: 17I0591-06

Collection Date: Matrix: Drinking Water 9/19/17 5:16

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 10/4/17 12:47 10/4/17 14:56 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-07 WKS-4A

Collection Date: Matrix: Drinking Water 9/19/17 5:17

DF Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Analyses Metals by ICP-MS 10/4/17 15:14 *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:47 EPA200.8 JTC

Analyst

Analyses

Analyses

*Lead

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School Lab Order: 17I0591

Client Sample ID: WKS-4B Lab ID: 17I0591-08

Matrix: Drinking Water **Collection Date:** 9/19/17 5:17 Qual Result Limit Units DF **Date Prepared Date Analyzed** Method

Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:47 10/4/17 15:18 EPA200.8 JTC

Lab ID: 17I0591-09 **Client Sample ID:** WKS-5A **Collection Date:** Matrix: Drinking Water 9/19/17 5:18

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:47 10/4/17 15:23 EPA200.8 JTC

Client Sample ID: WKS-5B Lab ID: 17I0591-10

Matrix: Drinking Water **Collection Date:** 9/19/17 5:18

DF Date Prepared Date Analyzed Analyses Result Limit Qual Units Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 12:47 10/4/17 15:27 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-11 WKS-6A Matrix: Drinking Water **Collection Date:** 9/19/17 5:19

DF Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead 68.8 2.00 $\mu g/L$ 1 10/6/17 8:20 10/9/17 9:28 EPA200.8 JTC

Client Sample ID: WKS-6B Lab ID: 17I0591-12

Limit

Result

U

9/19/17 5:19 **Collection Date:** Matrix: Drinking Water

Date Prepared Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 12:47 10/4/17 15:31 EPA200.8 JTC

Units

DF

1

10/4/17 12:47

Date Analyzed

10/4/17 15:45

Method

EPA200.8

Qual

Client Sample ID: WKS-7A Lab ID: 17I0591-13 **Collection Date:** Matrix: Drinking Water 9/19/17 5:20

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS

 $\mu g/L$

Lab ID: 17I0591-14 **Client Sample ID:** WKS-7B

Collection Date: 9/19/17 5:20 Matrix: Drinking Water

2.00

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 12:47 10/4/17 15:49 EPA200.8 JTC

JTC

Analyst

Analyst

Analyses

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17I0591 **Project:** DuPage HS 88/ Willowbrook High School

Lab ID: 17I0591-14 **Client Sample ID:** WKS-7B **Collection Date:** Matrix: Drinking Water 9/19/17 5:20

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst

Client Sample ID: WKS-8A **Lab ID:** 17I0591-15

Collection Date: 9/19/17 5:21 Matrix: Drinking Water Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method

Metals by ICP-MS 10/4/17 12:47 *Lead 2.35 2.00 μg/L 1 10/4/17 15:53 EPA200.8 JTC

Lab ID: 17I0591-16 **Client Sample ID:** WKS-8B

Collection Date: Matrix: Drinking Water 9/19/17 5:21

DF Analyses Result Limit Qual Units **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 $\mu g/L$ 1 10/4/17 12:47 10/4/17 16:11 EPA200.8 JTC

Client Sample ID: WKS-9A Lab ID: 17I0591-17

Result

Collection Date: 9/19/17 5:22 Matrix: Drinking Water Limit

Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:47 10/4/17 16:15 EPA200.8 JTC

Units

DF

DF

DF

Date Prepared

Date Analyzed

Method

Qual

Lab ID: 17I0591-18 **Client Sample ID:** WKS-9B

9/19/17 5:22 **Collection Date:** Matrix: Drinking Water

Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS $\mu g/L$ *Lead U 2.00 1 10/4/17 12:47 10/4/17 16:20 EPA200.8 JTC

Client Sample ID: WKS-10A Lab ID: 17I0591-19

Collection Date: Matrix: Drinking Water 9/19/17 5:23

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Analyses Metals by ICP-MS U 2.00 1 10/4/17 12:47 *Lead $\mu g/L$ 10/4/17 16:24 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-20 WKS-10B

Matrix: Drinking Water **Collection Date:** 9/19/17 5:23

Result Limit Qual Units **Date Analyzed** Analyses **Date Prepared** Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 12:47 10/4/17 16:28 EPA200.8 JTC

Method

LABORATORY RESULTS

Client: Aires Consulting Group

Project:	DuPage HS 88/		ok High Sc	hool			Lab Order: 17	10591		
Client Sample ID:	WKS-11A						Lab ID: 17	10591-21		
Collection Date:	9/19/17 5:24						Matrix: Di	rinking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 12:47	10/4/17 16:33	EPA200.8	JTC
Client Sample ID: Collection Date:	WKS-11B 9/19/17 5:24							TI0591-22 rinking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 12:57	10/4/17 16:47	EPA200.8	ЈТС
Client Sample ID: Collection Date:	WKS-12A 9/19/17 5:26							10591-23 rinking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 12:57	10/4/17 17:17	EPA200.8	JTC
Client Sample ID: Collection Date:	WKS-12B 9/19/17 5:26						Lab ID: 17	10591-24 rinking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 12:57	10/4/17 17:22	EPA200.8	JTC
Client Sample ID: Collection Date:	WKS-13A 9/19/17 5:28						Lab ID: 17	10591-25 rinking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		3.48	2.00		μg/L	1	10/4/17 12:57	10/4/17 17:26	EPA200.8	JTC
Client Sample ID: Collection Date:	WKS-13B 9/19/17 5:28						Lab ID: 17	TI0591-26		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 12:57	10/4/17 17:31	EPA200.8	ЈТС
Client Sample ID: Collection Date:	WKS-14A 9/19/17 5:30						Lab ID: 17	10591-27 rinking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 12:57	10/4/17 17:35	EPA200.8	JTC

Method

Method

Method

Analyst

Analyst

Analyses

Analyses

Analyses

Date: 10/10/2017

LAROD	ATODV	RESULTS
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Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School Lab Order: 17I0591

Result

Result

Result

Client Sample ID: WKS-14B Lab ID: 17I0591-28

Matrix: Drinking Water **Collection Date:** 9/19/17 5:30 Limit

Qual **Date Prepared Date Analyzed** Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:57 10/4/17 17:39 EPA200.8 JTC

Units

Units

DF

DF

Date Prepared

Date Analyzed

Date Analyzed

Client Sample ID: Lab ID: 17I0591-29 WKS-15A

Collection Date: 9/19/17 5:31 Matrix: Drinking Water Limit

Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:57 10/4/17 17:44 EPA200.8 JTC

Qual

Client Sample ID: WKS-15B Lab ID: 17I0591-30

Collection Date: Matrix: Drinking Water 9/19/17 5:31

DF Date Prepared Date Analyzed Analyses Result Limit Qual Units Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 12:57 10/4/17 17:48 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-31 WIM-16A

Matrix: Drinking Water **Collection Date:** 9/19/17 5:33

DF Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:57 10/4/17 17:52 EPA200.8 JTC

Client Sample ID: WWF-17A Lab ID: 17I0591-32

Collection Date: 9/19/17 5:33 Matrix: Drinking Water

Limit

Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 12:57 10/4/17 18:10 EPA200.8 JTC

Units

DF

Date Prepared

Qual

Client Sample ID: WWF-17B Lab ID: 17I0591-33

Collection Date: Matrix: Drinking Water 9/19/17 5:35

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:57 10/4/17 18:23 EPA200.8 JTC

Lab ID: 17I0591-34 **Client Sample ID:** WBF-17C

Collection Date: 9/19/17 5:35 Matrix: Drinking Water

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 12:57 10/4/17 18:28 EPA200.8 JTC

Method

Method

Analyst

Analyst

Analyses

Analyses

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17I0591 **Project:** DuPage HS 88/ Willowbrook High School

Lab ID: 17I0591-34 **Client Sample ID:** WBF-17C

Collection Date: Matrix: Drinking Water 9/19/17 5:35 Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst

Client Sample ID: WWF-18A **Lab ID:** 17I0591-35

Result

Result

Collection Date: 9/19/17 5:37 Matrix: Drinking Water Limit

Metals by ICP-MS 10/4/17 12:57 *Lead U 2.00 μg/L 1 10/4/17 18:32 EPA200.8 JTC

Units

DF

DF

Date Prepared

Date Prepared

Date Analyzed

Date Analyzed

Qual

Lab ID: 17I0591-36 **Client Sample ID:** WWF-18B

Collection Date: Matrix: Drinking Water 9/19/17 5:37

DF Analyses Result Limit Qual Units **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 $\mu g/L$ 1 10/4/17 12:57 10/4/17 18:36 EPA200.8 JTC

Client Sample ID: WBF-18C Lab ID: 17I0591-37

Collection Date: 9/19/17 5:40 Matrix: Drinking Water Limit

Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 12:57 10/4/17 18:41 EPA200.8 JTC

Units

Qual

Lab ID: 17I0591-38 **Client Sample ID:** WWF-19A

Collection Date: Matrix: Drinking Water 9/19/17 5:41

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS $\mu g/L$ *Lead U 2.00 1 10/4/17 12:57 10/4/17 18:45 EPA200.8 JTC

Client Sample ID: WWF-19B Lab ID: 17I0591-39

Collection Date: Matrix: Drinking Water 9/19/17 5:41

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Analyses Metals by ICP-MS 1 10/4/17 12:57 *Lead 2.20 2.00 $\mu g/L$ 10/4/17 18:50 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-40 WWF-20A Matrix: Drinking Water **Collection Date:** 9/19/17 5:52

Result Limit Qual Units DF **Date Analyzed** Method Analyses **Date Prepared** Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 12:57 10/4/17 19:12 EPA200.8 JTC

Date: 10/10/2017 Prairie Analytical Systems, Inc.

LABORATORY RESULTS

Client: Aires Consulting Group

Client:	Aires Consultin	g Group									
Project:	DuPage HS 88/	Willowbroo	ok High Sc	hool			Lab Order: 17	10591			
Client Sample ID:	WWF-20B				Lab ID: 17I0591-41						
Collection Date:	9/19/17 5:52					Matrix: Di	Matrix: Drinking Water				
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS											
*Lead		U	2.00		μg/L	1	10/4/17 12:57	10/4/17 19:16	EPA200.8	JTC	
Client Sample ID:	WWF-21A						Lab ID: 17	I0591-42			
Collection Date:	9/19/17 5:54						Matrix: Dr	inking Water			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:01	10/4/17 19:29	EPA200.8	JTC	
Client Sample ID: Collection Date:	WWF-21B 9/19/17 5:54										
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	inking Water Date Analyzed	Method	Analyst	
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:01	10/4/17 19:42	EPA200.8	JTC	
Client Sample ID: Collection Date:	WBF-21C 9/19/17 5:54					Lab ID: 17I0591-44 Matrix: Drinking Water					
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:01	10/4/17 19:47	EPA200.8	JTC	
Client Sample ID:	WWF-22A						Lab ID: 17	10591-45			
Collection Date:	9/19/17 6:00						Matrix: Di	inking Water			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:01	10/4/17 19:51	EPA200.8	JTC	
Client Sample ID: Collection Date:	WWF-22B 9/19/17 6:00					Lab ID: 1710591-46 Matrix: Drinking Water					
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:01	10/4/17 20:09	EPA200.8	JTC	
Client Sample ID: Collection Date:	WBF-22C 9/19/17 6:00						Lab ID: 17				
Analyses	2,12,11 0.00	Result	Limit	Qual	Units	Matrix: Drinking Water Units DF Date Prepared Date Analyzed Method					
Metals by ICP-MS *Lead		10.1	2.00	Annı	μg/L	1	10/4/17 13:01	10/4/17 20:13	EPA200.8	Analyst JTC	

Analyses

*Lead

Date: 10/10/2017

I.A	ROR	ATORY	RESI	LTS
	NON		. ILLOU	

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School Lab Order: 17I0591

Client Sample ID: WWF-23A Lab ID: 17I0591-48

Matrix: Drinking Water **Collection Date:** 9/19/17 6:05

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:01 10/4/17 20:18 EPA200.8 JTC

Lab ID: 17I0591-49 **Client Sample ID:** WWF-23B **Collection Date:** Matrix: Drinking Water 9/19/17 6:05

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:01 10/4/17 20:22 EPA200.8 JTC

Client Sample ID: WWF-24A Lab ID: 17I0591-50

Collection Date: Matrix: Drinking Water 9/19/17 6:09

DF Date Prepared Date Analyzed Analyses Result Limit Qual Units Method Analyst Metals by ICP-MS *Lead 3.01 2.00 μg/L 1 10/4/17 13:01 10/4/17 20:27 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-51 WWF-24B

Matrix: Drinking Water **Collection Date:** 9/19/17 6:09 Limit

Result

2.20

Metals by ICP-MS *Lead 17.0 2.00 $\mu g/L$ 1 10/4/17 13:01 10/4/17 20:31 EPA200.8 JTC

Units

Qual

DF

Date Prepared

10/4/17 13:01

Date Analyzed

10/4/17 20:49

Method

EPA200.8

Analyst

JTC

Client Sample ID: WWF-25A Lab ID: 17I0591-52 **Collection Date:** 9/19/17 6:15 Matrix: Drinking Water

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 13:01 10/4/17 20:35 EPA200.8 JTC

Client Sample ID: WWF-25B Lab ID: 17I0591-53 **Collection Date:** Matrix: Drinking Water 9/19/17 6:15

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS

 $\mu g/L$

1

Lab ID: 17I0591-54 **Client Sample ID:** WWF-26A

Collection Date: 9/19/17 6:20 Matrix: Drinking Water

2.00

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:01 10/4/17 21:06 EPA200.8 JTC

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School

Client Sample ID: WWF-26A

Collection Date: 9/19/17 6:20 Lab Order: 17I0591

Lab ID: 17I0591-54

Matrix: Drinking Water

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst **Client Sample ID:** WWF-26B Lab ID: 17I0591-55 **Collection Date:** 9/19/17 6:20 Matrix: Drinking Water Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS 10/4/17 13:01 10/4/17 21:11 EPA200.8 *Lead U 2.00 μg/L 1 JTC

Lab ID: 17I0591-56 **Client Sample ID:** WBF-26C **Collection Date:** Matrix: Drinking Water 9/19/17 6:20

DF Analyses Result Limit Qual Units **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 $\mu g/L$ 1 10/4/17 13:01 10/4/17 21:15 EPA200.8 JTC

Client Sample ID: WWF-27A Lab ID: 17I0591-57 **Collection Date:** 9/19/17 6:22 Matrix: Drinking Water

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:01 10/4/17 21:19 EPA200.8 JTC

Lab ID: 17I0591-58 **Client Sample ID:** WWF-27B **Collection Date:** Matrix: Drinking Water 9/19/17 6:22

Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS $\mu g/L$ *Lead U 2.00 1 10/4/17 13:01 10/4/17 21:24 EPA200.8 JTC

DF

Client Sample ID: WWF-28A Lab ID: 17I0591-59

Collection Date: Matrix: Drinking Water 9/19/17 6:25 Result Limit Qual Units DF **Date Prepared Date Analyzed** Analyses

Method Analyst Metals by ICP-MS U 2.00 1 10/4/17 13:01 *Lead $\mu g/L$ 10/4/17 21:28 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-60 WWF-28B Matrix: Drinking Water **Collection Date:** 9/19/17 6:25

Result Limit Qual Units DF **Date Analyzed** Analyses **Date Prepared** Method Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 13:01 10/4/17 21:33 EPA200.8 JTC

LABORATORY RESULTS

Client: Aires Consulting Group

Aires Consulting Group DuPage HS 88/ Willowbrook High School Lab Order: 17/0591											
DuPage HS 88/	Willowbroo	ok High Sc	hool	Lab Order: 17I0591							
WWF-29A				Lab ID: 17I0591-61							
9/19/17 6:28					Matrix: Drinking Water						
	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
	U	2.00		μg/L	1	10/4/17 13:01	10/4/17 21:37	EPA200.8	JTC		
WWF-29B						Lab ID: 171	0591-62				
9/19/17 6:28						Matrix: Dri	nking Water				
	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
	U	2.00		μg/L	1	10/4/17 13:04	10/4/17 22:08	EPA200.8	JTC		
WWF-30A						Lab ID: 17I	0591-63				
9/19/17 6:31						Matrix: Dri	nking Water				
	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
	U	2.00		μg/L	1	10/4/17 13:04	10/4/17 22:21	EPA200.8	JTC		
WWF-30B						Lab ID: 17I	0591-64				
9/19/17 6:31						Matrix: Dri	nking Water				
	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
	U	2.00		μg/L	1	10/4/17 13:04	10/4/17 22:25	EPA200.8	JTC		
WWF-31A						Lab ID: 171	0591-65				
9/19/17 6:34						Matrix: Dri	nking Water				
	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
	U	2.00		μg/L	1	10/4/17 13:04	10/4/17 22:30	EPA200.8	JTC		
WWF-31B						Lab ID: 17I	0591-66				
9/19/17 6:34						Matrix: Dri	nking Water				
	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
	U	2.00		μg/L	1	10/4/17 13:04	10/4/17 22:34	EPA200.8	JTC		
WWF-32A											
9/19/17 6:36						Matrix: Dri	nking Water				
	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
	WWF-29A 9/19/17 6:28 WWF-29B 9/19/17 6:28 WWF-30A 9/19/17 6:31 WWF-31A 9/19/17 6:34 WWF-31A 9/19/17 6:34	WWF-29A 9/19/17 6:28 Result U WWF-29B 9/19/17 6:28 Result U WWF-30A 9/19/17 6:31 Result U WWF-30B 9/19/17 6:31 Result U WWF-31A 9/19/17 6:34 Result U WWF-31A 9/19/17 6:34 Result U	WWF-29A 9/19/17 6:28 Result Limit U 2.00 WWF-29B 9/19/17 6:28 Result Limit U 2.00 WWF-30A 9/19/17 6:31 Result Limit U 2.00 WWF-30B 9/19/17 6:31 Result Limit U 2.00 WWF-31A 9/19/17 6:34 Result Limit U 2.00 WWF-31B 9/19/17 6:34 Result Limit U 2.00	New Fear New Fear	WWF-29A 9/19/17 6:28	NWF-29A 9/19/17 6:28 Result Limit Qual Units DF	WWF-29A 9/19/17 6:28 Lab ID: 17/1 Matrix: Dri Mat	NWF-29A 9/19/17 6.28 Sesult Limit Qual Units DF Date Prepared Date Analyzed	NWF-29A 9/19/17 6:28 Secondary Secondary		

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School Lab Order: 17I0591

Client Sample ID: WWF-32B **Lab ID:** 1710591-68

Collection Date: 9/19/17 6:36 Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		$\mu g/L$	1	10/4/17 13:04	10/4/17 22:43	EPA200.8	JTC

 Client Sample ID:
 WBF-32C
 Lab ID:
 17I0591-69

 Collection Date:
 9/19/17 6:36
 Matrix:
 Drinking Water

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:04 10/4/17 22:47 EPA200.8 JTC

Client Sample ID: WWF-33A Lab ID: 17I0591-70

Collection Date: 9/19/17 6:38 Matrix: Drinking Water

DF Date Prepared Analyses Result Limit Qual Units Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:04 10/4/17 23:54 EPA200.8 JTC

Client Sample ID: WWF-33B Lab ID: 17I0591-71
Collection Date: 9/19/17 6:38 Matrix: Drinking Water

DF Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:04 10/4/17 23:59 EPA200.8 JTC

 Client Sample ID:
 WWF-34A
 Lab ID:
 17I0591-72

 Collection Date:
 9/19/17 6:40
 Matrix:
 Drinking Water

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 13:04 10/5/17 0:03 EPA200.8 JTC

 Client Sample ID:
 WWF-34B
 Lab ID:
 17I0591-73

 Collection Date:
 9/19/17 6:40
 Matrix:
 Drinking Water

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:04 10/5/17 0:16 EPA200.8 JTC

 Client Sample ID:
 WWF-35A
 Lab ID:
 1710591-74

 Collection Date:
 9/19/17 6:43
 Matrix:
 Drinking Water

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:04 10/5/17 0:21 EPA200.8 JTC

Inc. Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School Lab Order: 17I0591

Client Sample ID: WWF-35A

Lab ID: 17I0591-74

Client Sample ID:	WWF-35A						Lab ID: 1/	10591-74		
Collection Date:	9/19/17 6:43						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Client Sample ID:	WWF-35B						Lab ID: 17	10591-75		
Collection Date:	9/19/17 6:43						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS										
*Lead		U	2.00		μg/L	1	10/4/17 13:04	10/5/17 0:25	EPA200.8	JTC
Client Sample ID:	WWF-36A						Lab ID: 17	10591-76		
Collection Date:	9/19/17 6:44						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:04	10/5/17 0:30	EPA200.8	JTC
Client Sample ID:	WWF-36B						Lab ID: 17	10591-77		
Collection Date:	9/19/17 6:44						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:04	10/5/17 0:34	EPA200.8	JTC
Client Sample ID:	WWF-37A						Lab ID: 17			
Collection Date:	9/19/17 6:48						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:04	10/5/17 0:56	EPA200.8	JTC
Client Sample ID: Collection Date:	WWF-37B 9/19/17 6:48						Lab ID: 171			
Analyses	2, 22, 2,	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS		resure	Limit	Quai	Cints		Dute Frepureu	Date / Haryzea	Method	rinaryst
*Lead		U	2.00		μg/L	1	10/4/17 13:04	10/5/17 1:00	EPA200.8	JTC
Client Sample ID:	WBF-37C						Lab ID: 17			
Collection Date:	9/19/17 6:48						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:04	10/5/17 1:05	EPA200.8	JTC

LABORATORY RESULTS

Client: Aires Consulting Group

Client:	Aires Consulting	g Group								
Project:	DuPage HS 88/	Willowbroo	ok High Sc	hool			Lab Order: 17]	0591		
Client Sample ID:	WS-38A						Lab ID: 17	10591-81		
Collection Date:	9/19/17 6:50						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS										
*Lead		U	2.00		μg/L	1	10/4/17 13:04	10/5/17 1:09	EPA200.8	JTC
Client Sample ID:	WS-38B						Lab ID: 17			
Collection Date:	9/19/17 6:50						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:06	10/5/17 1:23	EPA200.8	JTC
Client Sample ID: Collection Date:	WWF-39A 9/19/17 6:54						Lab ID: 17			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00	- Zum	μg/L	1	10/4/17 13:06	10/5/17 1:36	EPA200.8	ЈТС
Client Sample ID: Collection Date:	WWF-39B 9/19/17 6:54						Lab ID: 17			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:06	10/5/17 1:53	EPA200.8	JTC
Client Sample ID: Collection Date:	WWF-100A 9/19/17 5:24						Lab ID: 17. Matrix: Dr			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:06	10/5/17 1:58	EPA200.8	JTC
Client Sample ID: Collection Date:	WWF-100B 9/19/17 5:25						Lab ID: 17			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:06	10/5/17 2:02	EPA200.8	ЛС
Client Sample ID: Collection Date:	WWF-101A 9/19/17 5:26						Lab ID: 17. Matrix: Dr			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS *Lead		U	2.00		μg/L	1	10/4/17 13:06	10/5/17 2:07	EPA200.8	JTC

Method

Analyst

Analyses

Date: 10/10/2017

Date Analyzed

LABORATORY	RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School Lab Order: 17I0591

Result

Client Sample ID: WWF-101B Lab ID: 17I0591-88

Matrix: Drinking Water **Collection Date:** 9/19/17 5:27 Limit

Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:06 10/5/17 2:11 EPA200.8 JTC

Units

DF

DF

Date Prepared

Qual

Lab ID: 17I0591-89 **Client Sample ID:** WWF-102A **Collection Date:** Matrix: Drinking Water 9/19/17 5:28

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:06 10/5/17 2:16 EPA200.8 JTC

Client Sample ID: WWF-102B Lab ID: 17I0591-90

Matrix: Drinking Water **Collection Date:** 9/19/17 5:29

Date Prepared Analyses Result Limit Qual Units Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:06 10/5/17 2:20 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-91 WWF-103A Matrix: Drinking Water **Collection Date:** 9/19/17 5:31

DF Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS 10/5/17 2:24 *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:06 EPA200.8 JTC

Client Sample ID: WWF-103B Lab ID: 17I0591-92 9/19/17 5:32 **Collection Date:** Matrix: Drinking Water

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method

Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 13:06 10/5/17 2:29 EPA200.8 JTC

Client Sample ID: WWF-104A Lab ID: 17I0591-93

Collection Date: Matrix: Drinking Water 9/19/17 5:33

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:06 10/5/17 2:55 EPA200.8 JTC

Lab ID: 17I0591-94 **Client Sample ID:** WWF-104B **Collection Date:** Matrix: Drinking Water 9/19/17 5:34

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:06 10/5/17 3:00 EPA200.8 JTC

Analyst

Method

Method

Analyst

Analyses

Analyses

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17I0591 **Project:** DuPage HS 88/ Willowbrook High School

Result

Result

Lab ID: 17I0591-94 **Client Sample ID:** WWF-104B **Collection Date:** Matrix: Drinking Water 9/19/17 5:34

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst

Client Sample ID: WWF-105A Lab ID: 17I0591-95 **Collection Date:** 9/19/17 5:41 Matrix: Drinking Water

Limit

Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 13:06 10/5/17 3:04 EPA200.8 JTC

Units

DF

DF

DF

Date Prepared

Date Prepared

Date Analyzed

Date Analyzed

Qual

Lab ID: 17I0591-96 **Client Sample ID:** WWF-105B

Collection Date: Matrix: Drinking Water 9/19/17 5:42

DF Analyses Result Limit Qual Units **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 $\mu g/L$ 1 10/4/17 13:06 10/5/17 3:09 EPA200.8 JTC

Client Sample ID: WBF-105C Lab ID: 17I0591-97

Collection Date: 9/19/17 5:43 Matrix: Drinking Water Limit

Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:06 10/5/17 3:13 EPA200.8 JTC

Units

Qual

Lab ID: 17I0591-98 **Client Sample ID:** WWF-106A **Collection Date:**

Matrix: Drinking Water 9/19/17 5:44

Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS $\mu g/L$ *Lead U 2.00 1 10/4/17 13:06 10/5/17 3:18 EPA200.8 JTC

Client Sample ID: WWF-106B Lab ID: 17I0591-99

Collection Date: Matrix: Drinking Water 9/19/17 5:45

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Analyses Metals by ICP-MS U 2.00 1 10/4/17 13:06 *Lead $\mu g/L$ 10/5/17 3:22 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-AA WWF-107 Matrix: Drinking Water **Collection Date:** 9/19/17 5:49

Result Limit Qual Units DF **Date Analyzed** Analyses **Date Prepared** Method Analyst Metals by ICP-MS

*Lead U 2.00 μg/L 1 10/4/17 13:06 10/5/17 3:26 EPA200.8 JTC

EPA200.8

Method

Method

JTC

Analyst

*Lead

Analyses

Collection Date:

Date: 10/10/2017

10/5/17 3:31

Date Analyzed

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17I0591 **Project:** DuPage HS 88/ Willowbrook High School

U

Result

Result

Lab ID: 17I0591-AB **Client Sample ID:** WWF-107B **Collection Date:** Matrix: Drinking Water 9/19/17 5:50

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS

 $\mu g/L$

1

DF

DF

10/4/17 13:06

Date Prepared

Client Sample ID: Lab ID: 17I0591-AC WWF-108A

2.00

Matrix: Drinking Water **Collection Date:** 9/19/17 5:51

DF Date Prepared Analyses Result Limit Qual Units **Date Analyzed** Method Analyst Metals by ICP-MS U 2.00 10/4/17 13:16 10/5/17 4:02 *Lead μg/L 1 EPA200.8 JTC

Lab ID: 17I0591-AD **Client Sample ID:** WWF-108B

Limit

Collection Date: Matrix: Drinking Water 9/19/17 5:52

Metals by ICP-MS *Lead U 2.00 10/4/17 13:16 10/5/17 4:15 EPA200.8 μg/L 1 JTC

Units

Units

Qual

Qual

Lab ID: 17I0591-AE **Client Sample ID:** WWF-109A

Limit

Matrix: Drinking Water **Collection Date:** 9/19/17 5:58

Date Prepared Date Analyzed Analyses Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:16 10/5/17 4:19 EPA200.8 JTC

Lab ID: 17I0591-AF **Client Sample ID:** WWF-109B

Collection Date: Matrix: Drinking Water 9/19/17 5:59

Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyses Analyst Metals by ICP-MS U 10/5/17 4:24 *Lead 2.00 $\mu g/L$ 1 10/4/17 13:16 EPA200.8 JTC

Client Sample ID: WWF-110A Lab ID: 17I0591-AG

Collection Date: Matrix: Drinking Water 9/19/17 6:14

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 10/4/17 13:16 10/5/17 4:28 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-AH WWF-110B

Matrix: Drinking Water 9/19/17 6:15 DF Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyses

Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:16 10/5/17 4:33 EPA200.8 JTC

Method

Method

Analyst

Analyses

Analyses

*Lead

Date: 10/10/2017

LABOR	ATORY	RESU	LTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School Lab Order: 17I0591

Client Sample ID: WBF-110C Lab ID: 17I0591-AI

Matrix: Drinking Water **Collection Date:** 9/19/17 6:16 Limit

Result **Date Prepared Date Analyzed** Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:16 10/5/17 4:50 EPA200.8 JTC

Units

Units

DF

DF

Date Prepared

Date Analyzed

Qual

Qual

Lab ID: 17I0591-AJ **Client Sample ID:** WWF-111A

Limit

Result

Collection Date: Matrix: Drinking Water 9/19/17 6:20

Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:16 10/5/17 4:55 EPA200.8 JTC

Client Sample ID: WWF-111B Lab ID: 17I0591-AK

Matrix: Drinking Water **Collection Date:** 9/19/17 6:21

DF Date Prepared Analyses Result Limit Qual Units Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:16 10/5/17 4:59 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-AL WWF-112A

Matrix: Drinking Water **Collection Date:** 9/19/17 6:35

DF Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:16 10/5/17 5:04 EPA200.8 JTC

Client Sample ID: WWF-112B Lab ID: 17I0591-AM

Collection Date: 9/19/17 6:36 Matrix: Drinking Water

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 13:16 10/5/17 5:08 EPA200.8 JTC

Client Sample ID: WWF-113A Lab ID: 17I0591-AN

Collection Date: Matrix: Drinking Water 9/19/17 6:40

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS

 $\mu g/L$

1

10/4/17 13:16

10/5/17 5:21

EPA200.8

Lab ID: 17I0591-AO **Client Sample ID:** WWF-113B

Collection Date: 9/19/17 6:41 Matrix: Drinking Water

2.00

2.90

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:16 10/5/17 5:26 EPA200.8 JTC

JTC

Method

Analyst

Analyses

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17I0591 **Project:** DuPage HS 88/ Willowbrook High School

Lab ID: 17I0591-AO **Client Sample ID:** WWF-113B **Collection Date:** Matrix: Drinking Water 9/19/17 6:41

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst

Client Sample ID: WCS-114A Lab ID: 17I0591-AP

Result

Collection Date: 9/19/17 6:51 Matrix: Drinking Water Limit

Metals by ICP-MS 10/5/17 5:30 *Lead U 2.00 μg/L 1 10/4/17 13:16 EPA200.8 JTC

Units

DF

Date Prepared

Date Analyzed

Qual

Lab ID: 17I0591-AQ **Client Sample ID:** WCS-114B

Collection Date: Matrix: Drinking Water 9/19/17 6:52

DF Analyses Result Limit Qual Units **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 $\mu \text{g}/L$ 1 10/4/17 13:16 10/5/17 5:48 EPA200.8 JTC

Client Sample ID: WCS-115A Lab ID: 17I0591-AR

Collection Date: 9/19/17 6:53 Matrix: Drinking Water

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:16 10/5/17 5:52 EPA200.8 JTC

Lab ID: 17I0591-AS **Client Sample ID:** WCS-115B

Collection Date: 9/19/17 6:54 Matrix: Drinking Water

DF **Date Prepared** Analyses Result Limit Qual Units **Date Analyzed** Method Analyst Metals by ICP-MS $\mu g/L$ *Lead U 2.00 1 10/4/17 13:16 10/5/17 5:57 EPA200.8 JTC

Client Sample ID: WCS-116A Lab ID: 17I0591-AT

Collection Date: Matrix: Drinking Water 9/19/17 6:55

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Analyses Metals by ICP-MS U 2.00 1 10/4/17 13:16 *Lead $\mu g/L$ 10/5/17 6:01 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-AU WCS-116B

Matrix: Drinking Water **Collection Date:** 9/19/17 6:56

Result Limit Qual Units **Date Analyzed** Analyses **Date Prepared** Analyst Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 13:16 10/5/17 6:06 EPA200.8 JTC

DF

Method

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17I0591 **Project:** DuPage HS 88/ Willowbrook High School

Client Sample ID: Lab ID: 17I0591-AV WCS-117A

Collection Date:	9/19/17 6:57						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS					_					
*Lead		U	2.00		μg/L	1	10/4/17 13:16	10/5/17 6:10	EPA200.8	JTC
Client Sample ID:	WCS-117B						Lab ID: 17	I0591-AW		
Collection Date:	9/19/17 6:58						Matrix: Dr	inking Water		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS										
*Lead		U	2.00		μg/L	1	10/4/17 13:19	10/5/17 6:24	EPA200.8	JTC
Client Sample ID:	WCS-118A						Lab ID: 17	I0591-AX		
Collection Date:	9/19/17 6:58						Matrix: Dr	inking Water		

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method

Metals by ICP-MS 10/5/17 6:54 *Lead U 2.00 1 10/4/17 13:19 EPA200.8 JTC μg/L

Client Sample ID: Lab ID: 17I0591-AY WCS-118B Matrix: Drinking Water **Collection Date:** 9/19/17 6:59

Result Units DF **Date Prepared** Limit Qual Date Analyzed Method Analyses Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:19 10/5/17 6:59 EPA200.8 JTC

Lab ID: 17I0591-AZ **Client Sample ID:** WCS-119A **Collection Date:** 9/19/17 7:02 Matrix: Drinking Water

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS 10/4/17 13:19 U *Lead 2.00 $\mu g/L$ 1 10/5/17 7:03 EPA200.8 JTC

Client Sample ID: WCS-119B Lab ID: 17I0591-BA **Collection Date:** 9/19/17 7:03 Matrix: Drinking Water

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:19 10/5/17 7:08 EPA200.8 JTC

Client Sample ID: Lab ID: 17I0591-BB WIM-120A **Collection Date:** Matrix: Drinking Water 9/19/17 7:04

DF **Date Prepared** Analyses Result Limit Qual Units **Date Analyzed** Method Analyst Metals by ICP-MS $\mu g/L$ EPA200.8 *Lead U 2.00 1 10/4/17 13:19 10/5/17 7:12 JTC

Analyst

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School Lab Order: 17I0591

Result

Client Sample ID: WWF-121A Lab ID: 17I0591-BC

Matrix: Drinking Water **Collection Date:** 9/19/17 5:00 Limit

Qual Units **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:19 10/5/17 7:17 EPA200.8 JTC

DF

Lab ID: 17I0591-BD **Client Sample ID:** WWF-121B **Collection Date:** Matrix: Drinking Water 9/19/17 5:00

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:19 10/5/17 7:21 EPA200.8 JTC

Client Sample ID: WWF-122A **Lab ID:** 17I0591-BE

Collection Date: Matrix: Drinking Water 9/19/17 5:01

DF Date Prepared Analyses Result Limit Qual Units Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 1 10/4/17 13:19 10/5/17 7:26 EPA200.8 JTC

Lab ID: 17I0591-BF **Client Sample ID:** WWF-122B Matrix: Drinking Water **Collection Date:** 9/19/17 5:01

DF Analyses Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 10/4/17 13:19 10/5/17 7:30 EPA200.8 JTC

Client Sample ID: WBF-122C Lab ID: 17I0591-BG

Result

Collection Date: 9/19/17 5:01 Matrix: Drinking Water Limit

Metals by ICP-MS *Lead U 2.00 μg/L 1 10/4/17 13:19 10/5/17 7:47 EPA200.8 JTC

Units

DF

Date Prepared

Date Analyzed

Method

Analyst

Qual

Client Sample ID: WIF-40 Lab ID: 17I0591-BH

Collection Date: Matrix: Drinking Water 9/19/17 7:20

Analyses Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyst Metals by ICP-MS $\mu g/L$ *Lead U 2.00 1 10/4/17 13:19 10/5/17 8:02 EPA200.8 JTC

Conventional Chemistry Parameters

Analyses

0.0100 pH Units 1 9/19/17 7:20 EPA150.1 pН 8.22 9/19/17 7:20

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17I0591 **Project:** DuPage HS 88/ Willowbrook High School

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A006127 - EPA 200.8 Metals										
Blank (A006127-BLK1)				Prepared &	: Analyzed:	10/04/201				
Lead	U	2.00	$\mu g/L$							
LCS (A006127-BS1)				Prepared &	Analyzed:	10/04/201				
Lead	471	2.00	$\mu g/L$	500.00		94	85-115			
Matrix Spike (A006127-MS1)	Sour	ce: 17I0591-()1	Prepared &	Analyzed:	10/04/201				
Lead	470	2.00	$\mu g/L$	500.00	1.03	94	75-125			
Matrix Spike (A006127-MS2)	Sour	ce: 17I0591-1	12	Prepared &	Analyzed:	10/04/201				
Lead	466	2.00	$\mu g/L$	500.00	0.946	93	75-125			
Matrix Spike Dup (A006127-MSD1)	Sour	ce: 17I0591-0)1	Prepared &	Analyzed:	10/04/201				
Lead	469	2.00	$\mu g/L$	500.00	1.03	94	75-125	0.3	20	
Matrix Spike Dup (A006127-MSD2)	Sour	ce: 17I0591-1	12	Prepared &	: Analyzed:	10/04/201				
Lead	473	2.00	$\mu g/L$	500.00	0.946	94	75-125	2	20	
Batch A006128 - EPA 200.8 Metals										
Blank (A006128-BLK1)				Prepared &	: Analyzed:	10/04/201				
Lead	U	2.00	μg/L		-					
LCS (A006128-BS1)				Prepared &	: Analyzed:	10/04/201				
Lead	478	2.00	μg/L	500.00		96	85-115			
Matrix Spike (A006128-MS1)	Sour	ce: 17I0591-2	22	Prepared &	Analyzed:	10/04/201				
Lead	468	2.00	μg/L	500.00	0.782	94	75-125			

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School **Lab Order:** 17I0591

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A006128 - EPA 200.8 Metals										
Matrix Spike (A006128-MS2)	Sour	ce: 17I0591-3	32	Prepared: 1	10/04/201 A	nalyzed: 10	0/05/201			
Lead	454	2.00	μg/L	500.00	0.0470	91	75-125			
Matrix Spike Dup (A006128-MSD1)	Sour	rce: 17I0591-2	22	Prepared &	Analyzed:	10/04/201				
Lead	472	2.00	μg/L	500.00	0.782	94	75-125	0.7	20	
Matrix Spike Dup (A006128-MSD2)	Sour	rce: 17I0591-3	32	Prepared: 1	10/04/201 A	.nalyzed: 10	0/05/201			
Lead	458	2.00	μg/L	500.00	0.0470	91	75-125	0.7	20	
Batch A006129 - EPA 200.8 Metals										
Blank (A006129-BLK1)				Prepared &	z Analyzed:	10/04/201				
Lead	U	2.00	μg/L	-	-					
LCS (A006129-BS1)				Prepared &	Analyzed:	10/04/201				
Lead	472	2.00	μg/L	500.00		94	85-115			
Matrix Spike (A006129-MS1)	Sour	rce: 1710591-4	42	Prepared &	Analyzed:	10/04/201				
Lead	463	2.00	μg/L	500.00	0.871	92	75-125			
Matrix Spike (A006129-MS2)	Sour	rce: 17I0591-5	52	Prepared &	Analyzed:	10/04/201				
Lead	469	2.00	μg/L	500.00	1.21	94	75-125			
Matrix Spike Dup (A006129-MSD1)	Sour	rce: 17I0591-4	42	Prepared &	Analyzed:	10/04/201				
Lead	472	2.00	μg/L	500.00	0.871	94	75-125	2	20	
Matrix Spike Dup (A006129-MSD2)	Sour	rce: 17I0591-5	52	Prepared &	z Analyzed:	10/04/201				
Lead	460	2.00	μg/L	500.00	1.21	92	75-125	2	20	

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School **Lab Order:** 17I0591

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A006130 - EPA 200.8 Metals										
Blank (A006130-BLK1)				Prepared &	Analyzed:	10/04/201				
Lead	U	2.00	$\mu g/L$							
LCS (A006130-BS1)				Prepared &	Analyzed:	10/04/201				
Lead	470	2.00	μg/L	500.00		94	85-115			
Matrix Spike (A006130-MS1)	Sour	ce: 17I0591-0	62	Prepared &	Analyzed:	10/04/201				
Lead	466	2.00	μg/L	500.00	0.309	93	75-125			
Matrix Spike (A006130-MS2)	Sour	rce: 17I0591-7	72	Prepared: 1	10/04/201 A	.nalyzed: 1	0/05/201			
Lead	464	2.00	μg/L	500.00	0.485	93	75-125			
Matrix Spike Dup (A006130-MSD1)	Sour	rce: 17I0591-0	52	Prepared &	Analyzed:	10/04/201				
Lead	468	2.00	μg/L	500.00	0.309	94	75-125	0.4	20	
Matrix Spike Dup (A006130-MSD2)	Sour	rce: 1710591-7	72	Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	457	2.00	μg/L	500.00	0.485	91	75-125	2	20	
Batch A006131 - EPA 200.8 Metals										
Blank (A006131-BLK1)				Prepared: 1	10/04/201 A	nalvzed: 1	0/05/201			
Lead	U	2.00	μg/L	Trepured.	10/01/2017	maryzou. 1	0,03,201			
LCS (A006131-BS1)				Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	478	2.00	μg/L	500.00	10/01/2017	96	85-115			
Matrix Spike (A006131-MS1)	Sour	rce: 1710591-8	82	Prepared: 1	10/04/201 A	nalvzed· 1	0/05/201			
Lead	465	2.00	μg/L	500.00	0.763	93	75-125			

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School **Lab Order:** 17I0591

	D 1	Reporting	TT :	Spike	Source	0/DEC	%REC	DDD	RPD	N T 4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A006131 - EPA 200.8 Metals										
Matrix Spike (A006131-MS2)	Sour	rce: 17I0591-9	92	Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	461	2.00	$\mu g/L$	500.00	0.0960	92	75-125			
Matrix Spike Dup (A006131-MSD1)	Sour	rce: 17I0591-8	82	Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	465	2.00	$\mu g/L$	500.00	0.763	93	75-125	0.02	20	
Matrix Spike Dup (A006131-MSD2)	Sour	ce: 17I0591-9	92	Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	460	2.00	μg/L	500.00	0.0960	92	75-125	0.1	20	
Batch A006132 - EPA 200.8 Metals										
Blank (A006132-BLK1)				Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	U	2.00	μg/L							
LCS (A006132-BS1)				Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	470	2.00	μg/L	500.00		94	85-115			
Matrix Spike (A006132-MS1)	Sour	rce: 1710591-	AC	Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	461	2.00	μg/L	500.00	0.714	92	75-125			
Matrix Spike (A006132-MS2)	Sour	rce: 17I0591-	AM	Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	456	2.00	μg/L	500.00	0.217	91	75-125			
Matrix Spike Dup (A006132-MSD1)	Sour	rce: 17I0591-	AC	Prepared: 1	10/04/201 A	analyzed: 1	0/05/201			
Lead	453	2.00	μg/L	500.00	0.714	90	75-125	2	20	
Matrix Spike Dup (A006132-MSD2)	Sour	rce: 17I0591-	AM	Prepared: 1	10/04/201 A	nalyzed: 1	0/05/201			
Lead	458	2.00	μg/L	500.00	0.217	92	75-125	0.5	20	

LABORATORY RESULTS

Client: Aires Consulting Group

DuPage HS 88/ Willowbrook High School **Project: Lab Order:** 17I0591

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A006133 - EPA 200.8 Metals										
Blank (A006133-BLK1)				Prepared: 1	10/04/201 A	nalyzed: 10	0/05/201			
Lead	U	2.00	$\mu g/L$							
LCS (A006133-BS1)				Prepared: 1	10/04/201 A	nalyzed: 10	0/05/201			
Lead	470	2.00	$\mu g/L$	500.00		94	85-115			
Matrix Spike (A006133-MS1)	Sour	e: 17I0591-A	AW	Prepared: 1	10/04/201 A	nalyzed: 10	0/05/201			
Lead	462	2.00	μg/L	500.00	0.934	92	75-125			
Matrix Spike (A006133-MS2)	Source	e: 17I0591-I	3G	Prepared: 1	10/04/201 A	nalyzed: 10	0/05/201			
Lead	458	2.00	μg/L	500.00	ND	92	75-125			
Matrix Spike Dup (A006133-MSD1)	Sour	e: 17I0591- <i>A</i>	AW	Prepared:	10/04/201 A	nalyzed: 10	0/05/201			
Lead	460	2.00	μg/L	500.00	0.934	92	75-125	0.4	20	
Matrix Spike Dup (A006133-MSD2)	Sour	e: 17I0591-I	3G	Prepared:	10/04/201 A	nalyzed: 10	0/05/201			
Lead	462	2.00	μg/L	500.00	ND	92	75-125	0.8	20	
Batch A006217 - EPA 200.8 Metals										
Blank (A006217-BLK1)				Prepared: 1	10/06/201 A	nalyzed: 10	0/09/201			
Lead	U	2.00	μg/L							
LCS (A006217-BS1)				Prepared: 1	10/06/201 A	nalyzed: 10	0/09/201			
Lead	459	2.00	μg/L	500.00		92	85-115			
Matrix Spike (A006217-MS1)	Sour	e: 17I0591-1	1	Prepared: 1	10/06/201 A	nalyzed: 10	0/09/201			
Lead	525	2.00	μg/L	500.00	68.8	91	75-125			

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

DuPage HS 88/ Willowbrook High School **Lab Order:** 17I0591 **Project:**

Metals by ICP-MS - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch A006217 - EPA 200.8 Metals

Matrix Spike Dup (A006217-MSD1)	Source: 17	10591-11	l	Prepared: 10	/06/201 Ana	ılyzed: 10	/09/201			
Lead	550	2.00	μg/L	500.00	68.8	96	75-125	5	20	

Date: 10/10/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: DuPage HS 88/ Willowbrook High School **Lab Order:** 17I0591

Notes and Definitions

NELAC certified compound.

U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152

Analytical Systems, INCORPORATED

www.prairieanalytical.com

Commercial Sampler Comments ☐ Residential ОШЬ Industrial / ☐ Residential Method of Shipmen emperature (°C) ☐ Industrial X - Other (Specify) X - Other (Specify) Reporting GCCDD Revision 8 July 31, 2017 V В 0 ODAT CALM RISC □ Yes ☐ On wet ice? 52:01 200 5 - 5035 Kit 10 - O QC Level 1-22.6 Analysis and/or Method Requested Date 7/0 2/6 S - Solid 4 - NaOH Rush 🗆 Staffdard NA - Non-Aqueous Liquid Received By 3 - HNO3 Date Required: Turnaround Time: o to Lead in Drinking Water - IL Grab Sample Type GW - Ground Water Comp 2 - H2SO4 8:50 7 pages) for sample information (133 samples) No. of Time Preserv Code DW - Drinking Water Aires Consulting - Gallagher Bassett Matrix Code 1 - HCI Date Copies: White - Client / Yellow - PAS, Inc. / Pink - Sampler WP. 8 Willobrook High School Analysis requested: Lead in Drinking Water 1550 Hubbard Ave Batavia, IL 60510 Sampling Dupage HS 88 630.879.3006 Geoff Bacci II A - Aqueous 0 - None 17-18305 Date No. of containers per sample: hed By Unless otherwise noted: See attached Addendum (Preservative Code: 0 Sample Type: Grab PAS COC - Aires Re Matrix Code: DW Project Name / Number Sample Description Preservative Code City, State, Zip Code Matrix Code Phone / Facsimile P.O. # or Invoice Project Location Contact Person Address Client of 36 Page 29

Aires Consulting - Gallagher Bassett Project Number: 17- 18305

190220880160002

Dan Petras

Sample Collection Date: Building Description:

Building ID: ISBE ID:

Collected by:

9/19/2017 Willowbrook High School 000

Aires Consulting - Gallagher Bassett Project Number: 17-18305

> 9/19/2017 190220880160002 Willowbrook High School 1000 Sample Collection Date: Building Description: Collected by: Building ID: ISBE ID:

Dan Petras

(12 HR Clock)	Number	Sample Location Description	Fixture Type	Date of Last Use	Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
5:24 AM	WKS-11B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:26 AM	WKS-12A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:26 AM	WKS-12B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:28 AM	WKS-13A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:28 AM	WKS-13B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:30 AM	WKS-14A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:30 AM	WKS-14B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:31 AM	WKS-15A	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	First Draw	250	
5:31 AM	WKS-15B	Kitchen	KS - Kitchen Sink	9/18/2017	6:00 PM	Flush	250	
5:33 AM	WIM-16A	Kitchen	IM - Ice Machine	9/18/2017	6:00 PM	First Draw	250	
5:33 AM	WWF-17A	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:35 AM	WWF-17B	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:35 AM	WBF-17C	Cafeteria	0 - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
5:37 AM	WWF-18A	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:37 AM	WWF-18B	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:40 AM	WBF-18C	Cafeteria	0 - Other	9/18/2017	6:00 PM	First Draw	250	bottle fill
5:41 AM	WWF-19A	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
5:41 AM	WWF-19B	Cafeteria	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
5:52 AM	WWF-20A	Music wing	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
Page	WWF-20B	Music wing	WF - Water Cooler	9/18/2017	6:00 PM	Flush	250	
2:54 AM	WWF-21A	Outside T1-8	WF - Water Cooler	9/18/2017	6:00 PM	First Draw	250	
of Collection-C	d Collection-CoC Addendum s CoC - Aires		_	Page 3 of 5				Revision 8 July 31, 2017

water dispenser

250

First Draw

6:00 PM

9/18/2017

WF - Water Cooler WF - Water Cooler WF - Water Cooler WF - Water Cooler WF - Water Cooler

Outside A127 Outside A127

WWF-28A **WWF-28B**

6:25 AM 6:25 AM 6:28 AM 6:28 AM 6:31 AM

250 250

Flush

6:00 PM 6:00 PM

250 250

First Draw

6:00 PM 6:00 PM

Flush

9/18/2017 9/18/2017

9/18/2017 9/18/2017

> Outside A150 Outside A150

> > WWF-29B **WWF-30A**

WWF-29A

Auto shop

First Draw

water dispenser water dispenser Revision 8 July 31, 2017

Aires Consulting - Gallagher Bassett Project Number: 17-18305

bottle fill

Notes

bottle fill

190220880160002 Willowbrook High School Building Description: Building ID:

9/19/2017

Sample Collection Date:

SBE ID:

Collected by:

Dan Petras

250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 Volume Sample (mL) Flush Flush Flush Flush Flush Flush First Draw First Draw First Draw First Draw First Draw Flush First Draw First Draw First Draw Sample Type First Draw 6:00 PM (12 HR Clock) Time of Last Use 9/18/2017 Date of Last 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 9/18/2017 Use WF - Water Cooler 0 - Other WF - Water Cooler 0 - Other WF - Water Cooler 0 - Other WF - Water Cooler WF - Water Cooler 0 - Other 0 - Other WF - Water Cooler WF - Water Cooler Fixture Type PE-102 Outside T1-8 Outside T1-8 Nurses office Nurses office PE-100 Nurses office PE-102 PE-100 Aux gym Aux gym Faculty café Faculty café Faculty café Outside A127 Outside A127 Sample Location Description WWF-21B WBF-21C WWF-22B WBF-22C WWF-23B WWF-22A WWF-23A WWF-24B WWF-25B WWF-26B WBF-26C WWF-27B WWF-24A WWF-25A WWF-26A WWF-27A Sample ID Number 6:00 AM 5:54 AM 6:00 AM 6:05 AM 6:09 AM 5:54 AM 6:00 AM 6:05 AM 6:09 AM 6:15 AM 6:22 AM 6:15 AM 6:20 AM 6:20 AM 6:20 AM 6:22 AM Sample Time (12 HR Clock)

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Pa

| Collection-CoC Addendum CoC - Aires Page 32 of 36

Aires Consulting - Gallagher Bassett Project Number: 17- \ 305

> 190220880160002 Building Description: Building ID:

ISBE ID:

Willowbrook High School

9/19/2017 Dan Petras Sample Collection Date: Collected by:

Aires Consulting - Gallagher Bassett Project Number: 17-18305

190220880160002

Willowbrook High School

9/19/2017 Dan Petras

Sample Collection Date: Building Description:

Building ID: ISBE ID:

Collected by:

Notes													bottle fill				
Sample Volume (mL)	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
Sample Type	First Draw	Flush	First Draw	First Draw	Flush	First Draw	Flush										
Time of Last Use (12 HR Clock)	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM											
Date of Last Use	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017
Fixture Type	WF - Water Cooler	0 - Other	WF - Water Cooler														
Sample Location Description	Across A319	Across A319	Across A319	Across A319	Next to A304	Next to A304	Next to A304	Next to A304	Next to T3-3	Next to T3-3	Next to A226	Next to A226	Next to A226	Next to A226	Next to A226	Across A214	Across A214
Sample ID Number	WWF-100A	WWF-100B	WWF-101A	WWF-101B	WWF-102A	WWF-102B	WWF-103A	WWF-103B	WWF-104A	WWF-104B	WWF-105A	WWF-105B	WBF-105C	WWF-106A	WWF-106B	WWF-107A	WWF-107B
Sample Time (12 HR Clock)	5:24 AM	5:25 AM	5:26 AM	5:27 AM	5:28 AM	5:29 AM	5:31 AM	5:32 AM	5:33 AM	5:34 AM	5:41 AM	5:42 AM	5:43 AM	5:44 AM	5:45 AM	5:49 AM	5:50 AM



Aires Consulting - Gallagher Bassett Project Number: 17- 18395

190220880160002	1000	Willowbrook High School	9/19/2017	
ISBE ID:	Building ID:	Building Description:	Sample Collection Date:	Collected by:

Aires Consulting - Gallagher Bassett Project Number: $17 - \frac{18305}{1}$

190220880160002

9/19/2017 Willowbrook High School Dan Petras

Sample Collection Date: Building Description:

Building ID: ISBE ID:

Collected by:

			T	_		_	_				1 -	 _		 	Appe	endix	III	17
Notes										bottle fill	pH = 8.22							Revision 8 July 31, 2017
Volume (mL)	250	250	250	250	250	250	250	250	250	250	1000							
Sample Type	First Draw	Flush	First Draw	Flush	First Draw	First Draw	Flush	First Draw	Flush	First Draw	Flush							
Use (12 HR Clock)	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM							
Uate of Last	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017							Page of S
Fixture Type	S - Sink	S - Sink	S - Sink	S - Sink	IM - Ice Machine	WF - Water Cooler	0 - Other	0 - Other							_			
Description	A107	A107	A105	A105	A105	Field house	Field house	Field house	Field house	Field house	Basement boiler							
Number	WCS-118A	WCS-118B	WCS-119A	WCS-119B	WIM-120A	WWF-121A	WWF-121B	WWF-122A	WWF-122B	WBF-122C	WIF-40							oC Addendum
(12 HR Clock)	6:58 AN	6:59 AM	7:02 AM	7:03 AM	7:04 AM	5:00 AM	5:00 AM	5:01 AM	5:01 AM	5:01 AM	7:20 AM					Det	0.20	ot 36 Scoc - Aires



Thursday, December 7, 2017

17K0620

PAS WO:

Geoff Bacci II

Aires Consulting Group 1550 Hubbard Ave. Batavia, IL 60510

TEL: (630) 879-3006 FAX: (630) 879-3014

RE: DuPage HS 88/ Willowbrook High School Retest

Prairie Analytical Systems, Inc. received 7 sample(s) on 11/17/2017 for the analyses presented in

the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (224) 253-1348.

Respectfully submitted,

(hrota)

Christina E. Pierce

Project Manager

Certifications: NELAP/NELAC - IL #100323

EPA200.8 R5.

Method

Method

KSH

Analyst

Analyst

*Lead

Analyses

Analyses

Client Sample ID:

Date: 12/7/2017

Lab ID: 17K0620-02

11/30/17 18:07

Date Analyzed

Date Analyzed

11/29/17 15:00

Date Prepared

LABORATORY RESULTS

Client: Aires Consulting Group

WKS-6B-RE

Lab Order: 17K0620 **Project:** DuPage HS 88/ Willowbrook High School Retest

Client Sample ID: Lab ID: 17K0620-01 WKS-6A-RE **Collection Date:** Matrix: Drinking Water 11/17/17 5:59

Result Limit Qual Units DF **Date Prepared Date Analyzed** Method Analyses Analyst Metals by ICP-MS 1

 $\mu g/L$

Units

Units

DF

DF

2.00

15.6

Result

Result

Collection Date: 11/17/17 6:00 Matrix: Drinking Water

Limit

Date Prepared Metals by ICP-MS U 2.00 11/29/17 15:00 *Lead μg/L 1 11/30/17 18:10 EPA200.8 R5. **KSH**

Qual

Qual

Lab ID: 17K0620-03 **Client Sample ID:** WWF-24A-RE

Limit

Collection Date: Matrix: Drinking Water 11/17/17 6:05

Metals by ICP-MS *Lead U 11/29/17 15:00 11/30/17 18:12 EPA200.8 R5. 2.00 μg/L 1 KSH

Lab ID: 17K0620-04 **Client Sample ID:** WWF-24B-RE

11/17/17 6:06 Matrix: Drinking Water **Collection Date:**

DF Result Limit Qual Units **Date Prepared Date Analyzed** Analyses Method Analyst Metals by ICP-MS 2.96 2.00 $\mu g/L$ 1 11/29/17 15:00 11/30/17 18:14 EPA200.8 R5. *Lead

Lab ID: 17K0620-05 **Client Sample ID:** WWF-22A-RE **Collection Date:** Matrix: Drinking Water 11/17/17 6:09

Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyses Analyst Metals by ICP-MS *Lead U 2.00 $\mu g/L$ 1 11/29/17 15:00 11/30/17 18:16 EPA200.8 R5. KSH

Client Sample ID: WWF-22B-RE Lab ID: 17K0620-06

Collection Date: Matrix: Drinking Water 11/17/17 6:09

Analyses Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyst Metals by ICP-MS U *Lead 2.00 μg/L 11/29/17 15:00 11/30/17 18:19 EPA200.8 R5. KSH

Client Sample ID: Lab ID: 17K0620-07 WBF-22C-RE

Collection Date: 11/17/17 6:09 Matrix: Drinking Water

DF Result Limit Qual Units **Date Prepared Date Analyzed** Method Analyst Analyses Metals by ICP-MS *Lead 3.03 2.00 $\mu g/L$ 1 11/29/17 15:00 11/30/17 18:21 EPA200.8 R5.

Date: 12/7/2017

LABORATORY RESULTS

Client: Aires Consulting Group

DuPage HS 88/ Willowbrook High School Retest Lab Order: 17K0620 **Project:**

Date: 12/7/2017

LABORATORY RESULTS

Client: Aires Consulting Group

DuPage HS 88/ Willowbrook High School Retest **Project:** Lab Order: 17K0620

Metals by ICP-MS - Quality Control

		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch A007740 - EPA 200.8 Metals												
Blank (A007740-BLK1)				Prepared: 1	11/29/201 A	nalyzed: 11	/30/201					
Lead	U	2.00	$\mu g/L$									
LCS (A007740-BS1)				Prepared: 1	11/29/201 A	nalyzed: 11	/30/201					
Lead	460	2.00	$\mu g/L$	500.00		92	85-115					
Matrix Spike (A007740-MS1)	Sour	ce: 17K0619-	08	Prepared: 1	11/29/201 A	nalyzed: 11	/30/201					
Lead	445	2.00	μg/L	500.00	0.861	89	75-125					
Matrix Spike (A007740-MS2)	Sour	ce: 17K0621-	02	Prepared: 1	11/29/201 A	nalyzed: 11	/30/201					
Lead	443	2.00	$\mu g/L$	500.00	0.200	89	75-125					
Matrix Spike Dup (A007740-MSD1)	Sour	ce: 17K0619-	08	Prepared: 1	Prepared: 11/29/201 Analyzed: 11/30/201							
Lead	442	2.00	$\mu g/L$	500.00	0.861	88	75-125	0.5	20			
Matrix Spike Dup (A007740-MSD2)	Sour	ce: 17K0621-	02	Prepared: 1	11/29/201 A	nalyzed: 11	/30/201					
Lead	444	2.00	μg/L	500.00	0.200	89	75-125	0.3	20			

Page 4 of 7

Date: 12/7/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Lab Order: 17K0620 **Project:** DuPage HS 88/ Willowbrook High School Retest

Notes and Definitions

NELAC certified compound.

U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152

Analytical Systems, INCORPORATED
Prairie

www.prairieanalytical.com

		Aires Consulting	Aires Consulting - Gallagher Bassett		Analysis	Analysis and/or Mothod December		
Address	SSS	4550 Unbbond A			B CICKIBIA	invol intellibu requested		Reporting
City. State	State, Zin Code	1930 Hubbard Av	e/e					agoo 🗆
16.0	anno dia cama	Batavia, IL 60510			ור			CO
Phone	Phone / Facsimle	630.879.3006			- Jə			
Projec	Project Name / Number	Dupage HS 88			is\\			
Projec	Project Location	Willowbrook High School-Retest	School-Retest		, ɓuị			
# O d	# or Invoice To	17-18305			rink			
Conta	Contact Person	Geoff Bacci II			□ ni			Signal Residential
Sa	Sample Description	ing	Matrix Preserv	No. of Sample Type	esq			R Industrial
				dillo	7			Sampler Comments
See	attached Addendum (47.7	2 pages) for sample information (7	samples)				
Unle	Unless otherwise noted:	noted:						
Mat	Matrix Code: DW	c						
S .	No. of containers per sample:	er sample: 1						
San	Sample Type: Grab Analysis requested:	Open In Orinking Wotor						
		200						
Pn	Matrix Code Preservative Code	A - Aqueous	DW - Drinking Water	GW - Ground Water	NA - Non-Aqueous Liquid	S - Solid	0-0il	X - Other (Specify)
	Reling	Relinguished By		2 - H2SO4	3 - HNO3	4 - NaOH	5 - 5035 Kit	X - Other (Specify)
	1	M.	= -	Time	Received By	Date	Time	Method of Shipment
	Sept of the		11/2/11			11/11/17	BAM	
	0	(John	110011	12 80 (AC)		1 W 117		Apper
Page 6	Instructions:				Turnaround Time: Standard	Rush QC Level		Temperature (°C) <
of 7						3 4 4	l Ves	16.9
	PAS COC - Aires	Copies. / Vinite - Cilent / Yellow - PAS, Inc. / Pink - Sampler PAS COC - Aires	^S ink - Sampler	Page / of	Co			Revision 8

Project Number: 17-18305 Aires Consulting - Gallagher Bassett

190220880160002

Building ID:

Building Descrit Willowbrook High School Re_TEST

Sample Collecti 11.17.17 Collected by: Jeff Olson

	_	_	_	_	_	_		_	_	 _	 		 _	_	App	endix	IV	n 8
Notes																		Revision 8 July 31, 2017
Volume (mL)	250	250	250	250	250	250	250											
Sample Type	First Draw	Flush	First Draw	Flush	First Draw	Flush	First Draw											-
Use (12 HR Clock)	5pm	5pm	5pm	5pm	5pm	5pm	5pm											را ا
Date of Last Use	11.16.17	11.16.17	11.16.17	11.16.17	11.16.17	11.16.17	11.16.17											Page 2 of 2
Fixture Type	S - Sink	S - Sink	- Water Cooler	- Water Cooler	- Water Cooler	- Water Cooler	- Water Cooler											
Description	Kitchen Sink S1-10	Kitchen Sink S1-10	Water Cooler in PE 100 F - Water Cooler	Water Cooler in PE 100 F - Water Cooler	Nurses Ofc Water FTN F - Water Cooler	Nurses Ofc Water FTN F - Water Cooler	Nurses Ofc Water FTN F - Water Cooler							*				
Number	WKS-6A-RE	W/KS-6B-RE	WWF-24A-RE	WWF-24B-RE	WWF-22A-RE	WWF-22B-RE	WBF-22C-RE											of John Collection-Coc Addendum S CoC - Aires
(12 HR Clock)	5:59 AM	6:00 AM	6:05 AIM	6:06 AM	6:09 AM	6:09 AM	6:09 AM											ild Collection-Co S CoC - Aires