

October 18, 2021

Beatriz M. Figueroa Director, Real Estate and Facilities Uncommon Schools

For distribution

RE: Lead in Drinking Water Sampling North Star Academy – Alexander Street Elementary 43 Alexander Street Newark, NJ 07106 EL Project # 21-0010

To Whom it May Concern:

North Star Academy Schools are committed to protecting student, teacher, and staff health. To protect the North Star community and be in compliance with the Department of Education regulations, North Star Academy retained Environmental Logic, LLC (EL) to test the school's drinking water for lead.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, a plumbing profile for each of the buildings within the North Star Academy system was prepared. Through this effort, we identified and tested all drinking water and food preparation outlets. The US Environmental Protection Agency has established a lead in drinking water action level of 15 μ g/l [ppb]. On July 16, 2021, EL collected drinking water samples throughout the aforementioned school.

No lead concentrations exceeding 15 μ g/l [ppb] were identified in drinking water outlets or food preparation sinks.

Additionally, EL collected samples from water sources that are not designed for drinking following prior lead in drinking water monitoring events.

The table below identifies water outlets that tested above the 15 μ g/l for lead. All of these faucets are designed for handwashing/building systems purposes and, while the identified concentrations do not *require* remedial action, EL recommends that "DO NOT DRINK – SAFE FOR HANDWASHING ONLY" signage be added to these locations as a precautionary measure.



Sample Location	Sample ID	Purpose	First Draw Result in µg/l (ppb)	Recommended Action
Nurse's office Handwashing Sink	AS-NS-1FL- E1-UN35	Handwashing	19.6	Add handwashing only signage
1 st Floor Bathroom Sink	AS-BF-1FL- E1-UN37	Handwashing	516	Add handwashing only signage
1 st Floor Bathroom Sink	AS-BF-1FL- S3-UN46	Handwashing	55.4	Add handwashing only signage
1 st Floor Teacher's Prep Room	AS-EC-1FL- N5-106	Handwashing	84.2	Add handwashing only signage
1 st Floor Teacher's Prep Room	AS-EC-1FL- WC-106	Handwashing	30.1	Add handwashing only signage
1 st Floor Teacher's Prep Room	AS-EC-1FL- N4-106	Handwashing	145	Add handwashing only signage
1 st Floor Teacher's Prep Room	AS-EC-1FL- N3-106	Handwashing	105	Add handwashing only signage
1 st Floor Teacher's Prep Room	AS-EC-1FL- N2-106	Handwashing	297	Add handwashing only signage
1 st Floor Teacher's Prep Room	AS-EC-1FL- N1-106	Handwashing	264	Add handwashing only signage
3 rd Floor Bathroom Sink	AS-BF-3FL- S2-UN76	Handwashing	38.4	Add handwashing only signage

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

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Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

For More Information

A copy of the test results is available at the Downtown Middle School central office for inspection by the public, including students, teachers, other school personnel, and parents. The results are also available on the North Star Academy website at https://northstar.uncommonschools.org/lead-results/. For more information about water quality in the North Star Academy schools, contact Beatriz Figueroa, Director, Real Estate and Facilities at Beatriz.Figueroa@uncommonschools.org.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at **www.epa.gov/lead**, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,

Michael B. Adams Senior Project Manager

Enclosures: Full Analytical Data Table

SGS Dayton, NJ									
Job Number:	JD28574								
Account:	Environmental Logic LLC.								
Project:	Unco	Uncommon Schools, Newark, NJ							
Project Number:	21-00	21-0010							
Address:	43 AI	43 Alexander Street							
					Legend:	Exceed			
Client Sample ID:		NJ Drinking Water Standards	AS-KC-GFL-E1- UN6	AS-KC-GFL-E2- UN6	AS-HS-1FL-N1- UN43	AS-NS-1FL-E1- UN35			
Lab Sample ID:		(NJAC 7:10	JD28574-1	JD28574-2	JD28574-3	JD28574-4			
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021			
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water			
Metals Analysis	1.1.07/1	45	2.02	E E0	0.45	40.0			
Lead	ug/i	15	2.02	5.59	0.15	19.0			
Client Sample ID:		NJ Drinking Water Standards	AS-BF-1FL-E1- UN37	AS-BF-1FL-S1- UN47	AS-BF-1FL-S2- UN47	AS-BF-1FL-S3- UN47			
Lab Sample ID:		(NJAC 7:10	JD28574-5	JD28574-6	JD28574-7	JD28574-8			
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021			
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water			
Metals Analysis	lug/l	15	E40	0.10	5.27	6.5			
Leau	ug/i	15	510	0.10	5.57	0.5			
Client Sample ID:		NJ Drinking Water Standards	AS-BF-1FL-S4- UN47	AS-BF-1FL-S5- UN47	AS-BF-1FL-S1- UN46	AS-BF-1FL-S2- UN46			
Lab Sample ID:		(NJAC 7:10	JD28574-9	JD28574-10	JD28574-11	JD28574-12			
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021			
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water			
Metals Analysis	1 0 1	4-	0.00	105		4.07			
Lead	ug/I	15	8.32	12.5	1.24	1.27			
Client Sample ID:		NJ Drinking	AS-BF-1FL-S3-	AS-BF-1FL-S4-	AS-BF-1FL-S5-	AS-WC-1FL-E1			
Lab Sampla ID:		Water Standards	UN46	UN46	UN46	1029574 46			
Date Sampled:		(NJAC 7.10 9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021			
Matrix:		0/10/	Drinking Water	Drinking Water	Drinking Water	Drinking Water			
	1 1			g	g	g			
Metals Analysis									
Lead	ug/l	15	55.4	4.36	3.53	<0.50			
				-					
Client Sample ID:		NJ Drinking Water Standards	AS-EC-1FL-N5- 106	AS-EC-1FL-WC- 106	AS-EC-1FL-N4- 106	AS-EC-1FL-N3- 106			
Lab Sample ID:		(NJAC 7:10	JD28574-17	JD28574-18	JD28574-19	JD28574-20			
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021			
Matrix:			Drinking water	Drinking water	Drinking water	Drinking water			
Motale Analysis									
Lead	ua/l	15	84.2	30.1	145	105			
	9,-		•						
Client Sample ID:		NJ Drinking Water Standards	AS-EC-1FL-N2- 106	AS-EC-1FL-N1- 106	AS-HS-1FL-S1- 109	AS-WC-1FL-E1- 109			
Lab Sample ID:		(NJAC 7:10	JD28574-21	JD28574-22	JD28574-23	JD28574-24			
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021			
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water			
Metals Analysis		45	007	004	0.40	-0.50			
Leau	ug/I	10	291	204	3.13	SU.30			

		NJ Drinking	AS-CWL-1FL-E1-	AS-BF-2FL-S1-	AS-BF-2FL-S2-	AS-BF-2FL-S3-	
Client Sample ID:		Water Standards	109	UN54	UN54	UN54	
Lab Sample ID:		(NJAC 7:10	JD28574-25	JD28574-26	JD28574-27	JD28574-28	
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021	
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water	
				•	-		
Metals Analysis							
Lead	ug/l	15	<0.50	6.47	1.32	4.89	
				•			
Client Semple ID:		NJ Drinking	AS-BF-2FL-S4-	AS-BF-2FL-S5-	AS-WC-2FL-E1	AS-BF-2FL-S1-	
Chefit Sample ID.		Water Standards	UN54	UN54		UN57	
Lab Sample ID:		(NJAC 7:10	JD28574-29	JD28574-30	JD28574-31	JD28574-32	
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021	
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water	
				•	-		
Metals Analysis							
Lead	ug/l	15	3.75	8.37	<0.50	8.46	
				•			
Olivert Operation ID:		NJ Drinking	AS-BF-2FL-S2-	AS-BF-2FL-S3-	AS-BF-2FL-S4-	AS-BF-2FL-S5-	
Client Sample ID:		Water Standards	UN57	UN57	UN57	UN57	
Lab Sample ID:		(NJAC 7:10	JD28574-33	JD28574-34	JD28574-35	JD28574-36	
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021	
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water	
Metals Analysis							
Lead	ug/l	15	5.08	3.09	8.82	13.6	
Client Comple ID:		NJ Drinking		AS-BF-3FL-S1-	AS-BF-3FL-S2-	AS-HS-3FL-S1-	
Client Sample ID:		Water Standards	AS-WC-SFL-ET	UN76	UN76	309	
Lab Sample ID:		(NJAC 7:10	JD28574-37	JD28574-38	JD28574-39	JD28574-40	
Date Sampled:		9/18)	7/16/2021	7/16/2021	7/16/2021	7/16/2021	
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water	
				•	-		
Metals Analysis							
Lead	ug/l	15	<0.50	11.9	38.4	2.01	
Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used							
for advisory purposes only. SGS assumes no responsibility for errors in regulatory documents or changes to criteria detailed							
in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or							
reporting any data.		-		-	-		
10 results exceeded regulatory criteria.							