



RESULTS

Below are the results from the first three rounds of testing of drinking water for lead that was conducted at Broken Arrow Public Schools - Arrowhead Elementary School. The initial sampling event occurred on February 10, 2022. Overall, thirty-seven (37) outlets were tested resulting in a total of seventy-four (74) samples being sent to the lab.

- Forty-one (41) samples had no detectable level of lead.
- Twenty-nine (29) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- Four (4) samples had a high detection of lead equal to or above 15.0 µg/L.

The table below shows all sample results for the initial sampling event. The results of the other two sampling events are later in this report. Sample results are in micrograms per liter, shown as µg/L. For more information on how to read this report, please see our **Results Interpretation Fact Sheet**.

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action
		Initial Sampling		
Non-Detect (<1.0 µg/L)				
1-1-CAFÉ-WC1	Elkay water cooler; right side; in cafeteria	<1.0	<1.0	N/A
1-1-CAFÉ-WC2	Elkay water cooler; left side; in cafeteria	<1.0	<1.0	N/A
1-1-KIT-KF2	kitchen faucet on front wall	<1.0	<1.0	N/A
1-1-KIT-IM	Ice machine in kitchen	<1.0	<1.0	N/A
1-1-HALL-WC4	Elkay water cooler in front hall at entrance; right side	<1.0	<1.0	N/A
1-1-HALL-WC5	Elkay bottle filler in front hall at entrance	<1.0	<1.0	N/A
1-1-HALL-WC6	Elkay water cooler in front hall at entrance; middle	<1.0	<1.0	N/A
1-1-HALL-WC7	Elkay water cooler in front hall at entrance; left side	<1.0	<1.0	N/A
1-1-HALL-WC8	Elkay bottle filler near restrooms 402	<1.0	<1.0	N/A
1-1-HALL-WC9	Elkay water cooler near restrooms 402; left side	<1.0	<1.0	N/A
1-1-HALL-WC10	Elkay water cooler near restrooms 402; right side	<1.0	<1.0	N/A

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action
		Initial Sampling		
1-1-TL-IM	Ice machine in Teachers' lounge; near nurse's office	<1.0	<1.0	N/A
1-1-TL-CF	Classroom faucet in teachers' lounge; near nurse's office	<1.0	<1.0	N/A
1-1-HALL-WC11	Elkay water cooler; outside of 609 restrooms; left side	<1.0	<1.0	N/A
1-1-HALL-WC12	Elkay water cooler; outside of 609 restrooms; middle	<1.0	<1.0	N/A
1-1-HALL-WC13	Elkay water cooler; outside of 609 restrooms; right side	<1.0	<1.0	N/A
1-1-HALL-WC14	Elkay water cooler; outside of gym; left side	<1.0	<1.0	N/A
1-1-HALL-WC15	Elkay water cooler; outside of gym; middle	<1.0	<1.0	N/A
1-1-HALL-WC16	Elkay water cooler; outside of gym; right side	<1.0	<1.0	N/A
1-1-HALL-WC17	Elkay water cooler outside Rooms 136 and 134; left side	<1.0	<1.0	N/A
1-1-HALL-WC18	Elkay water cooler outside Rooms 136 and 134; right side	<1.0	<1.0	N/A
Low Detection (1.0 - 14.9 µg/L)				
1-1-NURSE-NS	Nurse sink in nurse's office	1.1	<1.0	
1-1-KIT-KF1	Kitchen faucet on back wall by clock	2.0	<1.0	
1-1-KIT-KF3	Kitchen faucet on handwash sink	2.8	<1.0	
1-1-HALL-WC1*	Elkay water cooler outside Room 119; right side	3.9	7.2	Filter added
1-1-140-CF2	Classroom faucet in science storage; right side of main room in back	6.1	1.6	
1-1-HALL-WC2*	Elkay water cooler outside Room 119; middle	6.5	7.3	Filter added
1-1-HALL-WC3*	Elkay water cooler outside Room 119; left side	8.9	7.2	Filter added
1-1-140-CF1	Classroom faucet in science storage; left side of main room	10.5	2.3	
1-1-121-BF	Bathroom faucet in Room 121 bathroom	11.1	2.2	

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action
		Initial Sampling		
1-1-140-CF3	Classroom faucet in science storage; right side of main room close to door	12.8	1.6	
1-1-112-BF	Bathroom faucet in Room 112 bathroom	12.9	2.5	
1-1-116-BF	Bathroom faucet in Room 16 bathroom	14.3	2.6	
High Detection (≥15.0 µg/L)				
1-1-140A-CF2*	Large sink in closet of science storage	15.0	1.2	Replaced
1-1-140A-CF1*	Small sink in closet of science storage	15.1	2.3	Replaced
1-1-125-BF*	Bathroom faucet in Room 125 bathroom	29.4	2.2	Replaced
1-1-113-CF*	Classroom faucet in Room 113	43.3	5.6	Replaced

*Outlets were resampled at an additional sampling event (shown below)

Re-sampling RESULTS

After the initial sampling, seven (7) outlets that had undergone remediation were selected to be resampled on May 25, 2022. Fourteen (14) total samples were sent to the lab.

- Zero (0) samples had no detectable level of lead.
- Twelve (12) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- Two (2) samples had a high detection of lead equal to or above 15.0 µg/L.

These outlets underwent further remediation and were then resampled again on June 13, 2023. Fourteen (14) total samples were sent to the lab.

- Seven (7) samples had no detectable level of lead.
- Seven (7) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- Zero (0) samples had a high detection of lead equal to or above 15.0 µg/L.

The table below shows all sample results from the second and third rounds of testing. It also shows what remediation actions were taken at each phase.

Sample ID	Description	Remedial Action	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw (µg/L)	Flush (µg/L)
			Resampling 1			Resampling 2	
Low Detection (1.0 - 14.9 µg/L)							
1-1-140A-CF2	Large sink in closet of science storage	Replaced	1.8	1.3	Flush	5.1	2.2
1-1-113-CF	Classroom faucet in Room 113	Replaced	3.5	1.0	Replaced	1.7	1.6
1-1-HALL-WC1	Elkay water cooler outside Room 119; right side	Filter added	4.9	4.6	Filter added	<1.0	<1.0
1-1-HALL-WC2	Elkay water cooler outside Room 119; middle	Filter added	10.6	8.0	Filter added	<1.0	<1.0
1-1-140A-CF1	Small sink in closet of science storage	Replaced	11.6	1.6	Flush	2.1	<1.0
High Detection (≥15.0 µg/L)							
1-1-HALL-WC3	Elkay water cooler outside Room 119; left side	Filter added	11.9	17.9	Filter added	1.7	1.9
1-1-125-BF	Bathroom faucet in Room 125 bathroom	Replaced	16.5	5.5	Filter added	<1.0	<1.0