OKLAHOMA DRINKING WATER
LEAD TESTING
IN PUBLIC SCHOOLS & CHILD CARE FACILITIES

District: Mid-Del City Public Schools
School: Townsend Elementary
Sampling Dates: 6/9/2022, 5/19/2023, 9/8/2023
Status: Remediation

# RESULTS

Below are the results from the first, second, and investigative rounds of testing of drinking water for lead that was conducted at Mid-Del City Public Schools – Townsend Elementary School. The initial sampling event occurred on June 9, 2022. The resampling event occurred on May 19, 2023. The investigative sampling event occurred on September 8, 2023.

In the initial sampling, eighty-seven (87) outlets were tested resulting in a total of one hundred seventy-four (174) samples being sent to the lab.

- Forty-eight (48) samples had no detectable level of lead.
- One-hundred twenty-three (123) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- Three (3) samples had a high detection of lead equal to or above 15.0 µg/L.

In the resampling, twenty-one (21) outlets were tested resulting in a total of forty-two (42) samples being sent to the lab.

- Ten (10) samples had no detectable level of lead.
- Thirty (30) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- Two (2) sample had a high detection of lead equal to or above 15.0 µg/L.

The table below shows all sample results for the first two rounds of testing. The investigative sampling results 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 | First Draw µg/L | Flush µg/L |
|---|---|---|---|---|---|---|
| | | Initial Sampling | | | Resampling | |
| **Non-Detect (<1.0 µg/L)** | | | | | | |
| 1-1-58-DW | Drinking water bubbler in Room 58 | <1.0 | <1.0 | N/A | | |
| 1-1-59-CF | Classroom faucet in Room 59 | <1.0 | <1.0 | N/A | | |
| 1-1-59-DW | Drinking water bubbler in Room 59 | <1.0 | <1.0 | N/A | | |
| 1-1-HALL-WC3 | Elkay water cooler with bottle filler; near Room 59 | <1.0 | <1.0 | N/A | | |

| Sample ID | Description | First Draw (µg/L) | Flush (µg/L) | Remedial Action | First Draw µg/L | Flush µg/L |
|---|---|---|---|---|---|---|
| | | Initial Sampling | | | Resampling | |
| 1-1-HALL-WC4 | Elkay bottle filler near Room 59 | <1.0 | <1.0 | N/A | | |
| 1-1-57-DW | Drinking water bubbler in Room 57 | <1.0 | <1.0 | N/A | | |
| 1-1-HALL-WC5 | Elkay water cooler in hall near Room 7 | <1.0 | <1.0 | N/A | | |
| 1-1-HALL-WC6 | Elkay water cooler in hall near Room 9 | <1.0 | <1.0 | N/A | | |
| 1-1-8-CF | Classroom faucet in Room 8; Room used as computer lab and storage | <1.0 | <1.0 | N/A | | |
| 1-1-15-CF | Classroom faucet in Room 15 | <1.0 | <1.0 | N/A | | |
| 2-1-MEDIA-KF | Kitchen faucet in Media center workroom | <1.0 | <1.0 | N/A | | |
| 1-1-16-IM | Manitowoc ice machine in Room 16-Lounge | <1.0 | <1.0 | N/A | | |
| 1-1-28-CF | Classroom faucet in Room 28 | <1.0 | <1.0 | N/A | | |
| **Low Detection (1.0 - 14.9 µg/L)** | | | | | | |
| 1-1-HALL-WC10 | Halsey-Taylor water cooler in hall near Room 41 | <1.0 | 1.1 | | | |
| 1-1-28-DW | Drinking water bubbler in Room 28 | <1.0 | 1.3 | | | |
| 1-1-58-CF | Classroom faucet in Room 58 | 1.0 | <1.0 | | | |
| 1-1-12-CF | Classroom faucet in Room 12 | 1.1 | <1.0 | | | |
| 1-1-29-DW | Drinking water bubbler in Room 29 | 1.1 | 1.3 | | | |
| 2-1-MEDIA-WC1 | Halsey-Taylor water cooler in media center; left side | 1.1 | 1.6 | | | |
| 1-1-9-CF | Classroom faucet in Room 9 | 1.2 | <1.0 | | | |
| 1-1-HALL-WC8 | Elkay water cooler with bottle filler; right side; near Room 30 | 1.2 | 1.3 | | | |

| Sample ID | Description | First Draw (µg/L) | Flush (µg/L) | Remedial Action | First Draw µg/L | Flush µg/L |
|---|---|---|---|---|---|---|
| | | Initial Sampling | | | Resampling | |
| 1-1-HALL-WC7 | Elkay water cooler; left side; near Room 30 | 1.3 | 1.2 | | | |
| 1-1-HALL-WC9 | Elkay bottle filler near room 30 | 1.3 | 1.5 | | | |
| 1-1-28-CF | Classroom Faucet in Room 28 | 1.4 | 1.1 | | | |
| 1-1-GYM-WC1 | Elkay water cooler with bottle filler in gym | 1.4 | 1.3 | | | |
| 1-1-36-DW | Drinking water bubbler in Room 36 | 1.4 | 1.4 | | | |
| 1-1-GYM-WC2* | Elkay bottle filler in gym | 1.4 | 1.9 | | | |
| 1-1-7-CF | Classroom faucet in Room 7 | 1.5 | 1.6 | | | |
| 1-1-30-DW | Drinking water bubbler in Room 30 | 1.5 | <1.0 | | | |
| 1-1-27-DW | Drinking water bubbler in Room 27 | 1.5 | <1.0 | | | |
| 1-1-41-DW | Drinking water bubbler in Room 41-Gifted and Talented Room | 1.5 | 1.8 | | | |
| 1-1-29BA-BF | Bathroom faucet in Room 29 bathroom | 1.5 | <1.0 | | | |
| 1-1-29BA-DW | Drinking water bubbler in Room 29 bathroom | <1.0 | 2.7 | | | |
| 1-1-26-CF | Classroom faucet in Room 26 | 1.6 | <1.0 | | | |
| 1-1-40-DW | Drinking water bubbler in Room 40 | 1.6 | 1.8 | | | |
| 2-1-MEDIA-WC2 | Halsey-Taylor water cooler in media center; right side | 1.6 | 2.1 | | | |
| 1-1-39-DW | Drinking water bubbler in Room 39 | 1.6 | 2.2 | | | |
| 1-1-9-DW | Drinking water bubbler in Room 9 | 1.7 | <1.0 | | | |

| Sample ID | Description | First Draw (µg/L) | Flush (µg/L) | Remedial Action | First Draw µg/L | Flush µg/L |
|---|---|---|---|---|---|---|
| | | Initial Sampling | | | Resampling | |
| 1-1-57-CF | Classroom faucet in Room 57 | 1.7 | 1.3 | | | |
| 1-1-43-DW | Drinking water bubbler in Room 43 | 1.7 | 1.9 | | | |
| 1-1-15-DW | Drinking water bubbler in Room 15 | 1.8 | <1.0 | | | |
| 1-1-30-CF | Classroom faucet in Room 30 | 1.8 | <1.0 | | | |
| 1-1-29-CF | Classroom faucet in Room 29 | 1.8 | <1.0 | | | |
| 1-1-32-DW | Drinking water bubbler in Room 32 | 2.2 | 2.2 | | | |
| 1-1-38-DW | Drinking water bubbler in Room 38 | 2.5 | 2.5 | | | |
| 1-1-38-CF | Classroom faucet in Room 38 | 2.6 | 1.7 | | | |
| 1-1-17-DW | Drinking water bubbler in Room 17 | 2.6 | 2.4 | | | |
| 1-1-KIT-KF2 | Kitchen faucet in sink (not three-compartment); used for food prep | 2.7 | 1.2 | | | |
| 1-1-43-CF | Classroom faucet in Room 43 | 2.8 | 1.7 | | | |
| 1-1-25-DW | Drinking water bubbler in Room 25 | 2.9 | 1.9 | | | |
| 1-1-NURSE-NS | Nurse sink in nurse's office; across from Room 58 | 3.0 | 1.2 | | | |
| 1-1-24-DW | Drinking water bubbler in Room 24 | 3.0 | 1.7 | | | |
| 1-1-19-DW | Drinking water bubbler in Room 19 | 3.0 | 1.9 | | | |
| 1-1-16-CF | Classroom faucet in Room 16-Lounge | 3.1 | 1.9 | | | |
| 1-1-36-CF | Classroom faucet in Room 36 | 3.2 | 1.5 | | | |
| 1-1-14-DW | Drinking water bubbler in Room 14 | 3.3 | 1.8 | | | |

| Sample ID | Description | First Draw (µg/L) | Flush (µg/L) | Remedial Action | First Draw µg/L | Flush µg/L |
|---|---|---|---|---|---|---|
| | | Initial Sampling | | | Resampling | |
| 1-1-20-DW | Drinking water bubbler in Room 20 | 3.6 | 1.8 | | | |
| 1-1-16-DW | Drinking water bubbler in Room 16-Lounge | 3.6 | 3.3 | | | |
| 1-1-12-DW | Drinking water bubbler in Room 12 | 3.7 | <1.0 | | | |
| 1-1-47-DW | Drinking water bubbler in Room 47 | 3.7 | 2.9 | | | |
| 1-1-39-CF | Classroom faucet in Room 39 | 4.1 | 2.3 | | | |
| 1-1-45-DW | Drinking water bubbler in Room 45 | 4.2 | 3.8 | | | |
| 1-1-46-DW | Drinking water bubbler in Room 46 | 4.3 | 3.6 | | | |
| 1-1-48-DW | Drinking water bubbler in Room 48 | 4.5 | 3.7 | | | |
| 1-1-41-CF | Classroom faucet in Room 41-Gifted and Talented Room | 4.7 | 1.7 | | | |
| 1-1-CAFÉ-WC | Elkay water cooler in cafeteria near ice machine | 4.8 | 5.8 | Replaced | 1.5 | 1.7 |
| 1-1-19-CF | Classroom faucet in Room 19 | 5.5 | 2.0 | Replaced | 13.1 | 1.3 |
| 1-1-32-CF | Classroom faucet in Room 32 | 5.6 | 2.4 | Replaced | 3.2 | 1.3 |
| 1-1-14-CF | Classroom faucet in Room 14 | 6.2 | 1.6 | Replaced | 14.5 | 1.4 |
| 1-1-24-CF | Classroom faucet in Room 24 | 6.4 | 1.6 | Replaced | 5.1 | <1.0 |
| 1-1-44-CF | Classroom faucet in Room 44 | 6.8 | 4.0 | Replaced | 8.0 | 3.5 |
| 1-1-27-CF | Classroom faucet in Room 27 | 7.4 | <1.0 | Replaced | 4.8 | <1.0 |
| 1-1-17-CF | Classroom faucet in Room 17 | 7.7 | 2.3 | Replaced | 30.4 | 2.0 |
| 1-1-45-CF | Classroom faucet in Room 45 | 7.8 | 3.3 | Replaced | 7.7 | 3.9 |
| 1-1-25-CF | Classroom faucet in Room 25 | 8.2 | 1.8 | Replaced | 3.3 | <1.0 |
| 1-1-7-DW* | Drinking water bubbler in Room 7 | 8.2 | 2.0 | Replaced | 2.8 | <1.0 |

| Sample ID | Description | First Draw (µg/L) | Flush (µg/L) | Remedial Action | First Draw µg/L | Flush µg/L |
|---|---|---|---|---|---|---|
| | | Initial Sampling | | | Resampling | |
| 1-1-26-DW | Drinking water bubbler in Room 26 | 8.5 | <1.0 | Replaced | 3.5 | <1.0 |
| 1-1-20-CF* | Classroom faucet in Room 20 | 8.7 | 1.6 | Replaced | 2.9 | <1.0 |
| 1-1-40-CF* | Classroom faucet in Room 40 | 8.7 | 1.6 | Replaced | 4.7 | 1.2 |
| 1-1-KIT-KF1* | Kitchen faucet in three-compartment sink | 9.5 | 1.1 | Replaced | 10.6 | <1.0 |
| 1-1-48-CF | Classroom faucet in Room 48 | 11.8 | 4.1 | Replaced | 9.4 | 3.7 |
| 1-1-47-CF | Classroom faucet in Room 47 | 12.8 | 2.8 | Replaced | 11.1 | 3.2 |
| 1-1-18-CF | Classroom faucet in Room 18-Workroom | 13.1 | 1.2 | Replaced | 1.2 | <1.0 |
| **High Detection (≥15.0 µg/L)** | | | | | | |
| 1-1-46-CF | Classroom faucet in Room 46 | 15.8 | 4.1 | Replaced | 8.3 | 3.3 |
| 1-1-44-DW* | Drinking water bubbler in Room 44 | 20.7 | 5.2 | Replaced | 23.4 | 7.4 |
| 1-1-18-DW* | Drinking water bubbler in Room 18-Workroom | 27.3 | 5.6 | Replaced | <1.0 | <1.0 |

*Outlets were used in Investigative Sampling Event (shown below)

After the resampling event, DEQ and Mid-Del City Public Schools decided to conduct an investigative sampling event at Townsend Elementary School, which took place on September 8, 2023. In this, seven (7) outlets that were still giving high results were selected. A First Draw sample was taken, followed by a series of four (4) Flush samples at each outlet. Between each sample, a 30-second flush was conducted on the outlet. Thirty-five (35) samples were sent to the lab.

- Eighteen (18) samples had no detectable level of lead.
- Sixteen (16) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- One (1) sample had a high detection of lead equal to or above 15.0 µg/L.

The table below shows the results of the investigative sampling event.

| **Sample ID** | **Description** | **First Draw** (µg/L) | **Flush 1** (µg/L) | **Flush 2** (µg/L) | **Flush 3** (µg/L) | **Flush 4** (µg/L) |
|---|---|---|---|---|---|---|
| | | **Investigative Sampling** | | | | |
| 1-1-18-DW | Drinking water bubbler in Room 18-Workroom | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1-1-GYM-WC2 | Elkay bottle filler in gym | <1.0 | 1.1 | 1.5 | 1.7 | 1.3 |
| 1-1-KIT-KF1 | Kitchen faucet in three-compartment sink | 3.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1-1-7-DW | Drinking water bubbler in Room 7 | 3.8 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1-1-20-CF | Classroom faucet in Room 20 | 4.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1-1-40-CF | Classroom faucet in Room 40 | 4.1 | 1.4 | 1.2 | 1.7 | 1.4 |
| 1-1-44-DW | Drinking water bubbler in Room 44 | 48.7 | 14.1 | 9.5 | 6.7 | 5.9 |