

POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

Clifford St. AFC Home



October 4, 2016

INTRODUCTION

During the week of May 18, 2016, the Department of Licensing and Regulatory Affairs completed replacement of drinking water fixtures at the Clifford St. AFC Home. These fixture replacements were required because testing results indicated that the older fixtures at most schools were imparting lead to the drinking water. After the fixtures were replaced, a more thorough flushing of the plumbing lines was completed to remove any remaining material from the building's water supply system.

On Saturday, May 21, 2016, the Department of Environmental Quality conducted a post-fixture sampling assessment of the plumbing system at the facility.

Water Main Description

Upon inspection of the water main, it was found that the facility has a three-fourth inch copper main with three-fourth inch copper distribution lines.

SAMPLING METHODS

Fixture Sampling

There are four drinking water fixtures that were identified at the facility. After a minimum six-hour stagnation period, four samples were collected at each of the fixtures identified. Two initial samples were collected immediately after turning on the tap. The water was then flushed for 30 seconds and a third sample was collected. Finally, the water was flushed for another two minutes, and the fourth sample was collected. These samples were used to determine the impact of any lead sources in and around each specific fixture and its connecting plumbing.

Deep Plumbing Sampling

A different sampling method is used to determine the impact of any lead sources located deep in the supply plumbing of the building. During this method, ten bottles are collected in a row (consecutively). These bottles are one liter in size, which is larger than those used for the fixture sampling method.

Sampling Notes

- The facility had a filter on the kitchen faucet that was removed for the sampling.
- The standard 'Fixture Sampling Method' with a minimum six-hour stagnation period was not possible for this facility due to the residents' consistent water use needs. Sampling is representative of usual water use at the facility.
- Upon inspection, all of the aerators looked clean during the sampling event.
- Sixteen samples were collected from four fixtures and sent to the lab for analysis.
- Ten samples from one fixture were collected to test the deeper part of the plumbing system and sent to the lab for analysis.

SAMPLING RESULTS

Post-Fixture Replacement

May 21, 2016
Of the 26 samples:

- Lead Range: All samples were Non-Detected (ND)
- Copper Range: ND to 260 parts per billion (ppb)

* Where the result is non-detected for lead it means that the amount of lead in the water was less than 1 ppb.

* Where the result is non-detected for copper it means that the amount of copper in the water was less than 50 ppb.

Clifford Street AFC Home

May 21, 2016

| Lead | Lead Result (ppb) | Sample Description | Site Code | Copper | Copper Result (ppb) |
|------|-------------------|--------------------|-----------|--------|---------------------|
| Lead | ND | 01KC001 | P1 | Copper | 110 |
| Lead | ND | 01KC001 | P2 | Copper | 120 |
| Lead | ND | 01KC001 | F01 | Copper | 70 |
| Lead | ND | 01KC001 | F02 | Copper | ND |
| Lead | ND | 001BF002 | P1 | Copper | ND |
| Lead | ND | 001BF002 | P2 | Copper | ND |
| Lead | ND | 001BF002 | F01 | Copper | ND |
| Lead | ND | 001BF002 | F02 | Copper | ND |
| Lead | ND | 01BF003 | P1 | Copper | 220 |
| Lead | ND | 01BF003 | P2 | Copper | 170 |
| Lead | ND | 01BF003 | F01 | Copper | 120 |
| Lead | ND | 01BF003 | F02 | Copper | 80 |
| Lead | ND | 01BF004 | P1 | Copper | 260 |
| Lead | ND | 01BF004 | P2 | Copper | 180 |
| Lead | ND | 01BF004 | F01 | Copper | 160 |
| Lead | ND | 01BF004 | F02 | Copper | 80 |
| Lead | ND | 01KC001 | A1 | Copper | ND |
| Lead | ND | 01KC001 | A2 | Copper | ND |
| Lead | ND | 01KC001 | A3 | Copper | ND |
| Lead | ND | 01KC001 | A4 | Copper | ND |
| Lead | ND | 01KC001 | A5 | Copper | ND |
| Lead | ND | 01KC001 | A6 | Copper | ND |
| Lead | ND | 01KC001 | A7 | Copper | ND |
| Lead | ND | 01KC001 | A8 | Copper | ND |
| Lead | ND | 01KC001 | A9 | Copper | ND |
| Lead | ND | 01KC001 | A10 | Copper | ND |

Non-detected (ND) means; for lead the amount in water is less than 1 ppb,
and for copper the amount in water is less than 50 ppb.