

From: [Busch, Stephen \(DEQ\)](#)
To: [Shekter Smith, Liane \(DEQ\)](#)
Cc: [Devereaux, Tracy Jo \(DEQ\)](#)
Subject: LeeAnn Walters Draft
Date: Monday, August 17, 2015 11:03:56 AM

Liane,

Here is what I have drafted for Mrs. Walters:

Dear Mrs. Walters,

I wanted to update you regarding our Department's findings related to questions raised during our meeting at the Governor's office on August 4.

Regarding Flint lead and copper compliance monitoring for the January – June 2015 period, the City has confirmed that all lead and copper samples collected through the City, whether routine sites or customer requests, were sent to the State of Michigan lab for analysis. Individual sample results are provided to the property owner within 30 days of receiving the lab results in accordance with the Michigan Safe Drinking Water Act (Public Act 399, 1976 Administrative Rule 410(5)).

The lead 90th percentile compliance calculation of 11 parts per billion is based on 69 samples that met the appropriate sampling location site criteria, and met the sample collection site and collection protocol requirements of the Safe Drinking Water Act for this monitoring period. A minimum of 60 samples were required for this monitoring period. As indicated during the meeting, the City's sampling for lead complies with the Action Level standard of 15 parts per billion, but based on the population served by the City and these results, the City will need to make a recommendation to the MDEQ on how they will fully optimize their corrosion control treatment. These next steps continue to follow the requirements of the Lead and Copper Rule.

Samples collected at your residence of 212 Browning Avenue were not included this compliance determination as you utilize a whole home filter. As stated in the Michigan Safe Drinking Water Act (Public Act 399, 1976 Administrative Rule 710a, Lead and Copper in tap water; monitoring requirements) "Sampling sites may not include faucets that have point of use or point of entry treatment devices designed to remove inorganic contaminants." Such treatment alters the water chemistry and water quality such that it is no longer representative of public water from the City's distribution system. Therefore, it cannot be used to determine public water system compliance with the action level standard.

Our records indicate between February and June of this year there were six samples collected by either you or Mr. Mike Glasgow with the City of Flint, and submitted to the State Laboratory for analysis as follows:

February 11, Bathroom tap, collected at 10:20 AM by Mike Glasgow. This sample was analyzed for aesthetic metals (copper, iron, manganese, and zinc) which does not include lead analysis.

February 18, Kitchen tap, collected at 7:15 AM by you. This sample was analyzed for lead (104 parts per billion) and copper (non-detect).

February 25, Kitchen tap, collected at 10:26 AM by Mike Glasgow. This sample was analyzed for metals including lead. All results (including lead) were non-detect except for Barium 0.01 parts per million. The result for Barium was well below its maximum contaminant level of 2 parts per million.

March 3, Kitchen tap, collected at 6:00 AM by you. This sample was analyzed for lead (397 parts per billion) and copper (non-detect).

March 18, Kitchen tap, collected at 11:10 AM by Mike Glasgow. This sample was analyzed for lead (4 parts per billion) and copper (non-detect).

April 2, Pre-point of service, collected at 8:00 AM by you. This sample was analyzed for lead (707 parts per billion) and copper (110 parts per billion).

We support efforts to educate homeowners about the sources of lead in their private residence, provide guidance measures to reduce the potential for lead exposure, and provide information on resources for lead abatement. Along those lines, our Office has been in contact with the Department of Health and Human Services, Environmental Health Division, Healthy Homes Section and had some preliminary discussions about a public education and assistance campaign regarding household lead issues, guidance and abatement.

Lead monitoring by public water systems serves a dual purpose. The first purpose is to ensure the public water supply is adequately treating its water to address corrosion potential and help limit lead exposure. The second purpose is to inform homeowners about lead levels within their individual residence so that they can make educated choices regarding their own exposure risk.

You continue to express aesthetic water quality concerns at your home regarding color, taste, iron, etc. While we work with the City to continue addressing these concerns as they relate in part to the City's aging water distribution system infrastructure, we would expect homeowners to also take responsibility and due diligence to ensure proper construction and maintenance of their own household plumbing system. It has been indicated that your residence was recently re-plumbed using plastic piping materials. However, the City of Flint has no record of a plumbing permit being obtained for the completion of this work. While homeowners may choose to complete their own plumbing, it does not preclude the requirement to obtain a local permit for such construction work so that any plumbing work completed can be inspected for compliance with the requirements of the Michigan Plumbing Code and Michigan Residential Code. As a result it is uncertain whether there may be conditions within the household that are contributing to some of the water quality issues you are experiencing.

During the meeting concerns were also expressed regarding pH levels within customer plumbing systems. Please note that pH has no associated contaminant level as it is simply a numeric scale used to specify the acidity or alkalinity of a solution. The City of Flint conducts daily monitoring of pH values on both its raw and finished treated water at the City's water treatment plant as part of