

**Summary of City of Flint (City) Actions
In Response to the
EPA Emergency Administrative Order
Updated: April 29, 2016**

Chapters 52, 57, 59a & 59b: Weekly Conference Call Regarding Flint Water Plant Operations April 29, 2016.

EPA Order Due Date: Weekly

MDEQ and the Flint Water Treatment Plant staff held the weekly conference call to review and discuss the weekly summary of water quality and corrosion control parameters that are reported on both the city's April operation report completed to date, and a summary of water quality parameters collected in the distribution system during the week of April 24th. These reports are being used to monitor the city's corrosion control treatment.

The following observations were noted:

- The supplemental phosphate dosage was consistent and ranged between 2.63 and 2.79 milligrams per liter.
- All of the phosphate residuals in the distribution system at the sites monitored weekly were at or above the minimum of 3.1 milligrams per liter, ranging between 3.14 and 3.60 milligrams per liter.
- All pH measurements were greater than 7.0 at the Enhanced Water Quality Monitoring (EWQM) sites and the Point of Entry (Control Station #2) to the system. The pH levels ranged from 7.21 to 7.37 in the water received from Great Lakes Water Authority and from 7.09 to 7.27 at the distribution system sites.
- The lower than expected pH levels in the water from GLWA has the city preparing to feed caustic soda at Control Station #2 to ensure pH levels remain in the range where the supplemental phosphate is providing effective corrosion control treatment.
- Fourteen automatic flushing devices have been installed at distribution locations where chlorine residuals were showing seasonal decreases due to warmer temperatures. Ongoing monitoring of these sites will reveal if chlorine residuals improve as the water temperatures continue to increase. The city is also considering adding sodium hypochlorite at Control Station #2 to both boost residuals and increase the pH level.
- Iron levels ranged between 0.01 and 0.08 milligrams per liter at all EWQM sites. Plant tap iron concentrations ranged from 0.00 to 0.04 in the last week.
- All lead samples collected from the EWQM sites reported no lead detected.

Overall, the corrosion control treatment is meeting expectations as demonstrated from the water quality monitoring submitted this week.