

**Summary of City of Flint (City) Actions  
In Response to the  
EPA Emergency Administrative Order  
Updated: September 22, 2016**

Chapters 52, 57, 59a & 59b: Weekly Conference Call Regarding Flint Water Plant Operations September 22, 2016.

EPA Order Due Date: Weekly

MDEQ and the Flint Water Treatment Plant staff held the weekly call on September 23<sup>rd</sup> to review and discuss the summary of water quality and corrosion control parameters reported on the City's September operation report completed to date, a summary of water quality parameters collected the week of September 18<sup>th</sup> from the 10 sites monitored weekly as well as the 15 additional sites monitored quarterly for water quality parameters.

The following observations were noted:

- The supplemental phosphate dosage was consistent and ranged between 2.22 and 2.45 milligrams per liter (mg/l). The phosphate residuals measured at the plant tap ranged from 3.15 to 3.85 mg/l entering the distribution system.
- All pH measurements were greater than 7.0 at all 25 of the Enhanced Water Quality Monitoring (EWQM) sites and the Point of Entry (Control Station #2) to the system. The pH levels ranged from 7.35 to 7.48 in the water received from Great Lakes Water Authority (GLWA) and from 7.25 to 7.51 at the 25 distribution system sites.
- All of the established, 10 weekly distribution system sites reported a phosphate residual at or above 3.1 mg/l, ranging between 3.1 and 3.2 mg/l of phosphate. However, 10 of the 25 quarterly monitoring for phosphate residuals were below 3.1 mg/l. Phosphate residuals ranged from 2.69 to 3.51 mg/l.
- Guidance in the form of standard operating procedures is to be discussed by DEQ, EPA and Flint WTP staff to establish response protocols when the phosphate residual or pH level is unacceptable at any of the EWQM sites.
- Iron levels at EWQM sites ranged from 0.01 to 0.05 mg/l. Plant tap iron concentrations were measured at 0.01 to 0.02 mg/l in the last week.
- Lead samples taken at the EWQM sites during the week of September 13<sup>th</sup> all reported no lead detected.
- The supplemental chlorine feed at Control Station #2 ranged from 1.27 to 1.37 mg/l and the plant tap free chlorine residuals ranged from 1.6 to 1.8 mg/l.
- The free chlorine residuals at the 10 EWQM sites in the distribution system ranged from 0.76 to 3.45 mg/l. The low residual was at site #6, and the high residual was at the West Side Reservoir. The lowest free chlorine residual at the other 9 EWQM sites during the past week was 0.89 mg/l.