

**Summary of City of Flint (City) Actions
In Response to the
EPA Emergency Administrative Order
Updated: October 20, 2017**

Chapters 52, 57, 59a & 59b: Weekly Report Regarding Flint Water Plant Operations October 20, 2017.

EPA Order Due Date: Weekly

The Michigan Department of Environmental Quality (MDEQ) held a conference call with Flint Water Treatment Plant Staff on October 20, 2017, to review and discuss the summary of water quality and corrosion control parameters reported on the City's October operation reports completed to date, and a summary of water quality parameters collected for the seven-day period from Thursday, October 12, 2017, to Wednesday, October 18, 2017, from the ten sites monitored weekly. Data review (from the MOR) and enhanced weekly distribution system data is summarized below. Please note: SITE NAME is being used for water quality data instead of West Side until the reservoir is placed back into service. The City contractor completed an inspection of the West Side reservoir May 22, 2017 to May 25, 2017. The Inspection report dated June 6, 2017, is being reviewed by the City.

The following observations were noted:

- The supplemental phosphate dosage ranged between 2.43 and 2.75 milligrams per liter. The phosphate residuals measured at the plant tap ranged from 3.4 to 4.0 milligrams per liter entering the distribution system.
- All pH measurements were greater than 7.0 at all ten of the Enhanced Water Quality Monitoring (EWQM) sites and the Point of Entry (Plant tap) to the system. The pH levels ranged from 7.20 to 7.37 in the water received from Great Lakes Water Authority (GLWA); from 7.32 to 7.69 at Plant tap; and from 7.42 to 7.70 at the ten distribution system sites.
- The City's Sodium Hydroxide feed for pH control ranged from 5.3 to 6.0 milligrams per liter at Control Station #2.
- The phosphate residual at the ten established, weekly distribution system sites ranged between 2.67 and 3.59 milligrams per liter. The Dort Highway location was below the approved Water Quality Parameter minimum of 3.1 milligrams per liter of phosphate at all EWDM points in the distribution system. This location was resampled on October 20, 2017, with results of 3.66 milligrams per liter which returns this location back to compliance with the approved Optimal Corrosion Control Treatment Water Quality Parameters.
- Iron levels at EWQM sites ranged from 0.00 to 0.06 milligrams per liter. Plant tap iron concentrations measured from 0.00 to 0.04 milligrams per liter in the last week.
- The supplemental chlorine feed at Control Station #2 ranged from 1.23 to 1.53 milligrams per liter and the plant tap free chlorine residuals ranged from 1.7 to 1.8 milligrams per liter.
- The free chlorine residuals at the City's 25 monitoring sites in the distribution system ranged from 0.49 to 1.63 milligrams per liter. The low residual occurred at Garland Street and the high residual was at Saginaw Street.