

# MEMO

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Subject:

PFAS Short-Term Water Characterization Update  
RACER Buick City Site Flint, Michigan

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This memo provides a status update of the sampling conducted pursuant to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) March 13, 2019 letter requiring a Short-Term Water Characterization (STWC) for the Buick City Site (Site) to assess potential per- and poly-fluoroalkyl substances (PFAS) impacts associated with the Site.

## RECENT WET WEATHER SAMPLE RESULTS

On October 21, 2019 wet weather sampling was completed at four outfalls (002, 005, 006, and 013), as shown on **Figure 1**. An attempt was made to collect a wet weather sample from Outfall 004; however, no flow was present.

During the event 0.21 inches of precipitation was received over 6 hours. The samples were collected between hour 2 and 3 of the event.

### Outfall 002

During this sampling event the level of the Flint River had dropped sufficiently for the sample to be collected from the Outfall 002 discharge point. The analytical results detected PFOA at a concentration of 50 ng/L and PFOS at a concentration of 2,490 ng/L (**Figure 1**). The previous wet weather sample was

collected from manhole MH 2-1 and detected PFOA at a concentration of 12 ng/L and PFOS at a concentration of 400 ng/L.

### Outfall 005

During this sampling event the level of the Flint River had dropped sufficiently for the sample to be collected from the Outfall 005 discharge point. The analytical results detected PFOA at a concentration of 8.7 ng/L and PFOS at a concentration of 111 ng/L (**Figure 1**). The previous wet weather sample was collected from manhole MH 5-1 and detected PFOA at a concentration of 11 ng/L and PFOS at a concentration of 51 ng/L.

### Outfall 006

The wet weather samples for the Outfall 006 Drainage Area were both collected from the outfall discharge point at the Flint River. During the October 2019 event PFOA was detected at a concentration of 19.3 ng/L and PFOS at a concentration of 106 ng/L (**Figure 1**). The previous wet weather sample detected PFOA at a concentration of 2.8 ng/L and PFOS at a concentration of 11 ng/L.

### Outfall 013

The wet weather samples for the Outfall 013 Drainage Area were both collected from manhole MH 13-2. Due to high water levels in the river a sample could not be collected from the outfall. During the October 2019 event PFOA was detected at a concentration of 5.05 ng/L and PFOS at a concentration of 32.9 ng/L (**Figure 1**). The previous wet weather sample detected PFOA at a concentration of 37 ng/L and PFOS at a concentration of 630 ng/L.

## NEXT STEPS

Remaining work required to complete the STWC includes collecting two rounds of wet weather samples from Outfalls 007, 007A, 008 and 012 and one wet weather sample from Outfalls 004, 004A, and 005A.

Future progress reports will be provided as the work moves forward.

Attachments:

**Figure 1 – Storm Sewer Sample Locations**  
**Table 1 - Wet Weather Outfall Sampling Summary**