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To: [Krisztian, George \(DEQ\)](#)
Cc: [Shekter Smith, Liane \(DEQ\)](#); [Busch, Stephen \(DEQ\)](#)
Subject: Disinfection of Pipeline - Status update
Date: Monday, October 12, 2015 4:24:52 PM

George,

Based upon my discussion with water utility operators from the city of Flint and Genesee County, chlorination of the 72-inch transmission main (pipeline) began Friday night and concluded late Saturday. Chlorine residuals were measured mid-way along the pipeline (3.5 miles being disinfected) and at the downstream end (Control Sta. #3 at the Flint WTP) early Sunday and were approximately 120 mg/l based on field titration. The Sunday morning sample at CS #3 was mistakenly reported at 10 ppm due to an incorrect ratio used in the titration calculation. The city and the county performed another chlorine residual test around noon today and confirmed the residual ranging between 110 and 120 mg/l at both locations. I instructed the city to hold the water for an additional 3 hours to conform to the "slug" method of disinfection.

Flushing of the pipeline to the Dort Reservoir is to proceed after 4pm today. The chlorinated water will be sent to Dort and diluted with water from Detroit until the concentration is reduced to normal distribution system levels. Water from the Dort Reservoir will be distributed to the city after acceptable bacteriological sample results are obtained (see below).

Both parties anticipate having the pipeline and Dort reservoir ready for the collection of samples for bacteriological analysis tomorrow (set of three samples) with the second set of samples to be collected on Wednesday. The pipeline that will provide the city with water from Detroit could be placed into service by this Thursday (the soonest) if no glitches are encountered with the start-up procedure.

Michael Prysby, P.E.

District Engineer

Office of Drinking Water and Municipal Assistance

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