MEMORANDUM

Date: May 11th, 2020

To: Nick Ponticello, Ponticello Enterprises

CC: Brent Meyer, City of Woodland

From: Water Works Engineers

Subject: Updates to WRTP Specific Plan 1A Sanitary Sewer Peer Review

Mr. Ponticello,

Water Works Engineers (Water Works) reviewed updates to the WRTP Wastewater Collection System Technical Memorandum (Cunningham, Jan. 2020) and Spring Lake Pump Station flow monitoring data (City of Woodland, 2019-2020). The following summarizes Water Works analysis of this information in the context of its impact on the WRTP Plan 1A Sanitary Sewer Peer Review (Peer Review) prepared by Water Works in November 2018.

- WRTP WW Collection System TM (Cunningham, January 2020)
  - Phase 1 projected wastewater flows have dropped slightly.
  - Total Accumulated Flow @ Node "Z" (Spring Lake Pump Station) decreased by 0.06 mgd
- Spring Lake Pump Station Flow Monitoring Data (City of Woodland, 2019-2020)
  - The City requested Water Works analyze recent flow monitoring data with the intention to identify decreases in flow related to an October 2019 CIPP-lining pipe rehabilitation project, which was assumed to have signficantly decreased groundwater infiltration.
  - The data did show an immediate reduction in groundwater infiltration of approximately 0.1 mgd, however, wet weather flows generally increased that winter from previous years. This is likely due to increased development in the Spring Lake Master Plan area from 2017 to 2019.

Based on our analysis to date, the data does not support any updates to the existing Peer Revew as developed by Water Works in November 2018. When comparing the new data in the context of the primary conclusions presented within the Peer Review, a total reduction of approximately 0.16 mgd does not eliminate A) the near-term need for a 3rd pump addition at 3.0± mgd and B) the projected loss of pumping redundancy in the long-term at 6.0± mgd.

Water Works Engineers still recommends the City complete a capacity enhancement assessment of Spring Lake Pump Station. The proposed work would identify specific improvements required to enhance flow capacity via the a 3rd pump addition, modifications to existing pumps, and/or other improvements.

Regards,

Tim Lewis, PE
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