



Memorandum

16 August 2023

	Engineer's Report for the Lower Paxton Township Authority		
Copy to	Lower Paxton Township Authority		
From	Melissa Tomich Smith, PE	Tel	717-541-0622
Subject	Engineer's Report for Active Projects	Project no.	1257258

The following is a summary of GHD's activities since the May 20th meeting.

1. GHD Evaluations/Reports

During this period, Township Staff requested GHD to evaluate the following:

- GHD is currently working on an update to the tapping fee. The update is scheduled to be completed by October 2023. GHD is also working on evaluating actual current average daily flows from single family homes and apartments to update the current values used for planning purposed and for tapping fees for non-residential customers.
- GHD prepared the Annual DEP Progress Report. The annual meeting with DEP is scheduled for September 6, 2023.

2. Intermunicipal Agreement

- CRW IMA –GHD is reviewing the average daily and maximum monthly average daily flows that the surrounding municipalities contribute to the CRW WWTP per interceptor. The goal is to determine the flows each municipality contributes to each of the CRW interceptors to calculate an equitable cost share per interceptor for rehabilitation or replacement. The data is being pulled from Chapter 94 Reports and metered flow data.
- Oakhurst/North Branch/Woodridge Interceptor Agreement - GHD and LPTA Staff met to discuss the final revisions of the agreement on August 8, 2023. The revised agreement was provided to LPTA and STA for review on August 16, 2023.

3. 2022-2023 Report Season

The Second Consent Decree Annual Progress Report, covering the June 1, 2022 through May 31, 2023 reporting period, was prepared and submitted to DEP on June 29, 2023. The Annual Meeting to discuss the report with DEP is scheduled for September 6, 2023.

4. 2023-2024 Report Season

The current meter program conducted by the Township Staff has a total of 37 sites including the following:

- Twenty-four (24) permanent meter sites
- Two (2) temporary meter sites
- Three (3) overflow boxes
- Three (3) pump stations
- Four (4) rain gauges
- One (1) groundwater well

4.1 Wet Weather Summary

There has been one (1) significant WWE recorded since the last report. The following table presents the basic statistics for the WWE.

Date	Rainfall (in) ⁽¹⁾	Control Basin Peak (mgd)	Storm Category	Reported Overflows	Weather Summary & Notes
07/07/2023	1.7	0.38	Significant	One (1)	

(1) Rainfall data from Koon's Park Rain Gauge.

5. I/I Projects Summary

5.1 BC-2A/2B/2C/5B Sanitary Sewer Replacement & Rehabilitation

The project and all of the punch list items are complete. The contract with DOLI has been paid and closed out. GHD is finalizing the as-built drawings and working to close out the PennVest loan.

5.2 BC-7A/7B/7C/7D/8C/8D

DOLI continued with construction this period and the project is scheduled to be completed by the October 2024. GHD is currently reviewing the outstanding shop drawings as they are submitted and reviewing applications for payment. GHD is also providing one full time inspector.

5.3 2020/2021 Lining Project

The mainline and lateral lining is complete. GHD is working with Township Staff and the contractor to close out the contract and issue final payment. The final application for payment and final adjusting change order were sent to the contractor on May 18, 2023, for review and signature. The Contractor has not returned the signed documents after multiple requests. GHD is drafting a letter to close the contract and to send the final payment.

The final adjusted contract amount was \$2,639,398.42. The original bid was \$3,074,388.50 and \$196,257 was removed from the contract because approximately 2,600 LF of sewer main was replaced due to the condition and nine manholes were either replaced or removed from the contract.

The engineer's estimate to dig and replace the sewer mains, manholes and laterals that were lined was \$3.8 million dollars. By lining the sanitary sewer mains, instead of replacing them, the Township saved approximately \$2.3 million.

5.4 PC-2E Trunkline Project

On July 10th Township staff received notification from the property owner of 5896 Jacobs Avenue that there had been a sanitary sewer overflow at manhole 703. GHD reviewed the recent storm event and the system model and concluded that the problem is likely a downstream restriction and further investigation would be

required. Township staff followed up by installing a flow meter in the area and televised the majority of the trunkline. Staff found a significant amount of sediment in a few of the lines and pipe defects at previous repairs that likely caused the overflow.

On August 10th, GHD and Township staff walked the trunkline's right of way to prepare a budget level cost estimate for design and construction. GHD is currently getting quotes for the survey. The project, when authorized, will be surveyed and preliminarily designed in the remainder of 2023 with final design and bid in early 2024.

6. Emergency Repairs to the Wastewater and Stormwater Collection System

The Emergency Contract was awarded to EK Services on November 16, 2021, was extended for one year, and is set to expire in November 2023. To date, five work orders have been issued under this contract. No work orders were issued this period.

GHD is currently preparing the project manual for the 2023-2024 Emergency Contract.

7. PennDOT Projects

GHD is working to get an HOP for the Township to raise the manholes located within Locust Lane before the PennDOT repaving project.