

ENGINEER'S REPORT

23 May 2025

Title	Engineer's Report for the Lower Paxton Township Authority		
Copy to	Lower Paxton Township Authority		
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Subject	Engineer's Report for Active Projects	Project no.	1257258

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

1. DEP Consent Order and Annual Report

GHD has prepared a draft 3rd CAP for the Beaver Creek Basin. Due to the overall success of the program, the 3rd CAP proposes to eliminate a few projects and to extend the construction dates of others. A draft copy of the proposed 3rd CAP is attached. If the Board approves, GHD will present this new CAP to DEP with the annual report.

GHD is currently working on the Annual Report data analysis. It should be celebrated that there have been no overflows in the 2024/2025 water year!

1.1 Modeling

GHD has updated the Beaver Creek model to evaluate the following:

- IDF rankings per DEP's request
- The restrictions in the lower section of the Nyes Road Interceptor
- Removal expectation for projects proposed in the Beaver Creek CAP

GHD is reviewing these items and how they will affect the number of remaining projects needed to meet the CAP requirements. The results will be included with the Annual Report to DEP.

2. Wet Weather Summary

The wet weather events (WWEs) in January, February, and March of 2025 are presented in the following table. There was zero (0) extreme, five (5) significant, and five (5) minor WWEs. There were no overflows reported during this metering period and no IMA limits were exceeded.

Wet Weather Event Summary Table							
Date	Rainfall (in.) ⁽¹⁾	MH 2790 Control Basin Peak (mgd) ⁽²⁾	Pre-Groundwater (ft)	Post-Groundwater (ft)	Storm Category	Weather Summary & Notes	Overflows
1/31/25	0.3	0.17	444.2	444.4	Minor	-	No
2/6/25	0.3	0.21	443.6	444.4	Minor	-	No
2/9/25	0.4	0.25	443.7	444.6	Minor	-	No
2/13/25	0.3	0.31	444.6	445.0	Significant	-	No
2/16/25	0.7	0.61	444.7	445.1	Significant	-	No
2/27/25	0.1	0.19	444.8	444.9	Minor	-	No
3/5/25	1.00	0.34	444.8	445.1	Significant	-	No
3/16/25	1.4	0.43	444.9	445.5	Significant	-	No
3/24/25	0.1	0.31	445.1	444.5	Significant	-	No
3/31/25	0.3	0.26	444.8	444.9	Minor	-	No

(1) Rainfall data from Koons Park Rain Gauge (RG 753).

(2) Control basin flow reduced by a correction factor of 0.13 mgd to account for growth in the basin @ 850 gpd/EDU.

3. CRW Intermunicipal Agreement

A meeting was held on the morning of April 30, 2025, with CRW, CDM Smith, and GHD to review a draft diagram of flow from all the partners and CRW. A secondary afternoon meeting was held between the municipal partners and CRW to discuss the status of the cost of service. The next pair of meetings are scheduled for May 28, 2025. The objectives are as follows:

1. Consultants work together to develop multiple approaches to distribute cost allocation for CRW's Capital Improvement Projects and then present them to the group.
2. Completion of a limited cost of service study and wholesale rates development.
3. Allocate a limited cost of service / rate study will result in separate rates for each of the municipals as if they were separate rate classes and the balance of CRW customers, the retail sector, will be treated as one customer class.
4. Development on memorandum of understanding.

4. Construction Projects

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

The sanitary sewer work was substantially complete as of July 9, 2024. The storm sewer work was substantially complete as of April 21, 2025. During this period, the contractor was completing punch list items including temporary and final paving, ADA ramp installations, curb and sidewalk replacement. Only paving and punch list items remain.

Change Order No. 2 was approved by the Board of Supervisors with the understanding that the proposed time extension would be adjusted if PPL did not meet the 4/1/2025 deadlines, as DOLI could not finish the storm sewer work until PPL removed the electrical line. PPL completed their work on 4/10/2025. As PPL was not onsite 4/1/2025, the substantial and final completion dates are as follows per Change Order No. 2:

- Substantial Completion: 4/30/2025 (Substantial completion was achieved on 4/21/2025)
- Final Completion: 5/27/2025

DOLI has indicated that the punch list should be completed by June 6th but that date is weather dependant. DOLI also stated that the paving crew would be back onsite June 23rd and they estimate two weeks to finish the paving, rolled curbs and overlays.

4.2 PC-2E Trunkline Project

PACT One started work on the replacement project on January 20th. All of the sanitary sewer work is complete, minus the testing and some restoration and all of the storm sewer and stream restoration work is complete except for the storm sewer crossing Blue Mountain Parkway. This work is excepted to be completed after school is out for the summer due to the required road closure and detour.

GHD is currently reviewing applications for payment and performing misc. construction engineering services.

4.3 Misc. External Mainline Repairs

The Misc. External Mainline Repairs were bid with the PC-2E Trunkline Project and awarded to PACT One. LLC. PACT One is currently completing these repairs. Repairs No. 2, 5, 10 and 12 have been completed. Final completion of all repairs is scheduled for August 11, 2025. The Township Construction Crew is also completing several additional repairs that where determined to be well suited for the crew and were not part of the bid documents. These repairs are scheduled to be completed by August 2025.

4.4 Annual Township Paving Project– Sewer Repairs

Township Staff have been televising sanitary sewer mains, ahead of the Township's Annual Paving Project, to determine if any external sanitary sewer repairs are needed prior to paving. The videos are reviewed by Township Staff and GHD. The Township Construction Crew is currently in the process of replacing several defective sewer sections prior to the start of the paving project, which is currently scheduled to begin in June 2025.

5. Wilshire Road Request for Sanitary Sewer Extension

GHD prepared the DCED Small Water grant application and submitted it to the funding agency by the April 30th deadline. The project will be on hold until the Authority hears if they received the grant money or not.

6. Emergency Repairs to the Wastewater and Stormwater Collection System

No Work Orders were issued this period. Three work orders have been issued to Rogele to date under the current contract. Work Order number 1 was to repair 20 LF of broken pipe on Kalla Drive, Work Order number 2 was to repair a force main break at the Colonial Road pumping station and Work Order number 3 was to repair a collapsed pipe located on Stradford Drive that consisted of replacing approximately 10 LF of sewer main.

7. PennDOT Projects

7.1 Locust Lane (MPMS #108527)

The time extension to the Locust Lane HOP was approved by PennDOT. Township staff will raise the manhole frame and covers in the summer of 2025 before the PennDOT paving project is completed in the fall of 2025.

7.2 Nyes Road Bridge Replacement (MPMS #117189)

GHD attended a meeting with PennDOT on January 30th. PennDOT will be replacing the bridge on Nyes Road north of its intersection with Pin Hill Road. Township staff will provide risers and new frame and covers for two manholes that will need to be adjusted. PennDOT will televise the adjacent sanitary sewer main before and after construction to ensure that the construction did not compromise the structural integrity of the pipe.

8. Developments

GHD's activities since the February 20th meeting:

- Cider Press: Construction is underway.
- Raising Canes: the sampling manhole and connection to the existing manhole did not pass. Their contractor is working on these repairs and will contact Staff to view the follow-up testing.
- Union Deposit Road (Ricker Properties): GHD reviewed the first drawing submission and provided a review letter on April 15, 2025.