

# ENGINEER'S REPORT

21 August 2025

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

The following is a summary of GHD's activities since the May 27th meeting.

## 1. DEP Consent Order and Annual Report

GHD has prepared a draft 3<sup>rd</sup> CAP for the Beaver Creek Basin. Due to the overall success of the program, the 3<sup>rd</sup> CAP proposes to eliminate a few projects and to extend the construction dates of others. GHD presented the 3<sup>rd</sup> CAP to DEP with the annual report, this is the same document that was included in the May Board Packet. DEP was very pleased with the I/I removal efforts and program progress being ahead of schedule. DEP will review the proposed BC CAP and send a response letter. Lower Paxton requested we begin discussions on post June 2027 Paxton Creek reporting requirements.

**It should be celebrated that there were no overflows in the 2024/2025 water year!**

### 1.1 Modeling

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

- The restrictions in the lower section of the Nyes Road Interceptor
- Removal expectation for projects proposed in the Beaver Creek CAP

The May 30<sup>th</sup>, 2025, wet weather event was perfect to model to show LPTA's sanitary sewer system's hydraulic capacity. This even was ideal because the system did not overflow but surcharged following the completion of BC-7/8 Mini-Basin Project.

## 2. Wet Weather Summary

The wet weather events (WWEs) in April, May, June, and July of 2025 are presented in the following table. There were two (2) flood, two (2) extreme, five (5) significant, and two (2) minor WWEs. There were no overflows reported during this metering period.

**Wet Weather Event Summary Table**

Date	Rainfall (in.) <sup>(1)</sup>	MH 2790 Control Basin Peak (mgd) <sup>(2)</sup>	Pre-Groundwater (ft)	Post-Groundwater (ft)	Storm Category	Weather Summary & Notes	Overflows
4/4/2025	1.2	0.4	444.6	445.1	Significant	-	No
4/13/2025	0.4	0.29	444.9	445.1	Minor	-	No
4/28/2025	0.4	0.22	444.6	444.7	Minor	-	No
5/6/2025	3.2	0.91	444.8	445.3	Extreme	-	No
5/14/2025	2.2	1.2	445.5	445.7	Flood	-	No
5/21/2025	1.2	0.55	445.2	445.5	Significant	-	No
5/31/2025	2.1	1.5	445.1	445.8	Flood	-	Yes
6/10/2025	1.5	0.36	445.1	445.3	Significant	-	No
6/18/2025	1.1	0.33	445.1	445.2	Significant	-	No
7/2/2025	2.9	0.44	444.8	444.9	Significant	Control basin data dropout	No
7/13/2025	3.6	0.74	444.5	445.1	Extreme	-	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 August 14, 2025, with CRW, CDM Smith, and GHD to review a draft revised diagram of flow from all the partners and CRW.

The last legal team meeting was scheduled for May 28, 2025. The following objectives were discussed:

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 municipalities 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.

The date for the next legal team meeting has yet to be determined.

Lower Paxton requested GHD to assist with the CRW rate study RFP.

## 4. Construction Projects

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

DOLI completed the punch list items on August 15, 2025, minus the line painting on Devonshire Heights. Change orders 1 and 2 extended the substantial and final completion dates by 263 days and 226 days, respectively. While DOLI meet the amended substantial completion date of April 30, 2025, they did not meet the amended final completion date of May 27, 2025. The final completion date was missed by 92 calendar days or 64 working days (subtracting weekends and holidays). GHD is preparing the liquidated damages invoice for approval by the Township. The contract allows for \$1,300/day.

An ADA ramp was found to be ponding water and needs to be replaced. HB Engineers are currently evaluating that ramp and will provide the guidance to DOLI to correct this situation, this would be considered a maintenance item and not be included in the calculation for liquidated damages.

### 4.2 PC-2E Trunkline Project

All of the sanitary sewer and storm sewer work is complete, minus final testing and yard restoration. Final paving of Blue Mountain Parkway is also outstanding. The remaining work is scheduled to be complete by October 15, 2025.

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. All of the external repairs have been completed. The lining work and restoration is outstanding. This work is scheduled to be complete by October 15, 2025.

### 4.4 BC-2 Replanting to Comply with DEP Permit

GHD performed a site visit on August 11, 2025 to prepare the annual report that is required under the project permit and to determine the number of trees that need to be replaced due to the original planting dying and not being in compliance. GHD is preparing a map showing where new plants and seeding is required to comply with the permit and will reach out to contractors under COSTARS to get the plants purchased and planted.

## 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 30<sup>th</sup> deadline. The project will be on hold until the Authority hears if they received the grant money or not. **No update since last meeting.**

## 6. Emergency Repairs to the Wastewater and Stormwater Collection System

GHD will issue Work Order number 4 to Rogele shortly. Work Order number 4 will address a broken pipe found in the SC-2A mini-basin. GHD is preparing the project manual to bid the next emergency contract, as the current contract expires in November 2025.

## **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 before the PennDOT paving project is completed in 2026.

### **7.2 Nyes Road Bridge Replacement (MPMS #117189)**

PennDOT will be replacing the bridge on Nyes Road, north of its intersection with Pine Hill Road. Township staff will provide a new frame and cover and cone section to raise one manhole to grade that is affected by the Department's project. PennDOT will include the work in the Department's contract and will pay for the labor costs to retrofit the manhole. GHD prepared the PennDOT paperwork and specifications to include in the project contract. PennDOT will also pay for and incorporate the CCTV work into their project to determine the pre and post construction condition of the adjacent sanitary sewer main to ensure that the construction does not compromise the structural integrity of the pipe.

## **8. Developments**

GHD's activities since the May 27th meeting:

- Cider Press: Construction is underway.
- Union Deposit Road (Ricker Properties): All sanitary sewer comments were addressed in the 2<sup>nd</sup> submission and GHD returned an approval letter on June 2, 2025. GHD will schedule a preconstruction meeting to discuss construction activities.
- Buffalo Wild Wings Go: All sanitary sewer comments were addressed in the 2<sup>nd</sup> submission and GHD returned an approval letter on July 24, 2025.
- Wenrich Street Development: GHD received a preliminary layout of development on July 29, 2025. It is unclear if the entire development will be served by LPTA's sanitary sewer system at this time.