

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0030996
APS ID 621252
Authorization ID 1417396

Applicant and Facility Information

| | | | |
|---------------------------|---|------------------|--|
| Applicant Name | <u>Bangor Area School District</u> | Facility Name | <u>Bangor High School Sewer</u> |
| Applicant Address | <u>123 Five Points Richmond Road</u> <u>Bangor, PA 18013-5224</u> | Facility Address | <u>123 Five Points Richmond Road</u> <u>Bangor, PA 18013-5224</u> |
| Applicant Contact | <u>Samantha Brenner</u> | Facility Contact | <u>Samantha Brenner</u> |
| Applicant Phone | <u>(800) 858-3111</u> | Facility Phone | <u>(800) 858-3111</u> |
| Client ID | <u>162681</u> | Site ID | <u>270951</u> |
| Ch 94 Load Status | <u>Not Overloaded</u> | Municipality | <u>Upper Mount Bethel Township</u> |
| Connection Status | | County | <u>Northampton</u> |
| Date Application Received | <u>November 14, 2022</u> | EPA Waived? | <u>Yes</u> |
| Date Application Accepted | <u>November 14, 2022</u> | If No, Reason | |
| Purpose of Application | <u>Renewal of an existing NPDES to discharge treated sewage effluent.</u> | | |

Summary of Review

The applicant is requesting renewal of an existing NPDES permit to discharge up to 0.023 MGD of treated sewage into Tributary 04739 of Jacoby Creek, a Cold-Water Fishes, Migratory Fishes (CWF, MF) receiving stream in PA State Water Basin 1-F (Jacoby – Bushkill Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

The system for this facility is primary treatment via fine screens, flow equalization tanks with a blower system, followed by aeration tanks for secondary treatment, a secondary clarifier, and uses UV for disinfection. The applicant did not list any wastewater chemicals added to the process on the application. The DRBC docket associated with this facility indicated alum, caustic soda, and a carbon source are added for phosphorus removal, alkalinity control, nitrification, and denitrification.

The applicant did not list sludge disposal on the application. The last uploaded sludge disposal report indicated the facility has sludge hauled to Lehigh County Authority Wastewater for disposal.

There are no representative stream gages in the vicinity of the outfall. The default LFY of 0.1 cfs/mi² was chosen to model the discharge. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats Interactive Map and elevations were obtained using the elevation profile feature of StreamStats (see Watershed Information attachment). Q₇₋₁₀ for the point of first use was determined using StreamStats.

E. Coli monitoring requirements will be introduced into the new permit according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with less than .05 MGD discharge is found in the SOP for establishing effluent limitations for individual sewage.

| Approve | Deny | Signatures | Date |
|---------|------|--|-----------------|
| X | | <i>William Hon</i> William Hon/ Environmental Engineer Specialist | August 12, 2025 |
| X | | <i>Edward Dudick</i> Edward Dudick, P.E. / Environmental Engineer Manager | August 15, 2025 |

Summary of Review

WQM modeling recommended more stringent limits for Dissolved Oxygen (from minimum of 5.0mg/L to 6.0mg/L). This new effluent limitation will go into effect three (3) years after the permit effective date.

Limitations for pH, CBOD₅, Total Suspended Solids, and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Ammonia-Nitrogen are Water-Quality based and are carried over from the previous permit cycle. Quarterly monitoring of Nitrate-Nitrite as N, Total Kjeldahl Nitrogen, and Total Nitrogen have been switched to monthly monitoring to facilitate DRBC requirements. Quarterly monitoring of Total Phosphorus will be changed to 2/year monitoring to facilitate DRBC requirements.

This facility discharges into the Delaware River Basin and has DRBC Docket D-2018-007 CP-2 associated with it. Effluent Table C-2 displays a list of parameters not currently included in the NPDES Permit. These parameters will be included in the new permit cycle and are as follows:

EFFLUENT TABLE C-2: DRBC Parameters Not Included in NPDES Permit

| OUTFALL 001 (Discharging to an UNT to Jacoby Creek) | | |
|--|----------------------------------|-------------------|
| PARAMETER | LIMIT | MONITORING |
| Total Dissolved Solids* | 1,000 mg/l * | Quarterly |
| CBOD ₅ (at 20° C) | Monitor & Report Percent Removal | Monthly |
| CBOD ₅ (at 20° C) Influent | Monitor & Report | Monthly |
| Nitrate + Nitrite as N | 8.6 lbs/day | Monthly |
| Ammonia Nitrogen | 0.14 lbs/day | Monthly |
| Total Nitrogen | 9.7 lbs/day | Monthly |
| Total Phosphorus | 0.72 lbs/day | 2/Year |

These limits will go into effect upon the permit's effective date.

All monitoring & sampling requirements have been verified against Table 6-3 of the Permit Writer's Manual and the SOP for Establishing Effluent Limits in Individual Sewage Treatment Facilities.

Special conditions added in to the NPDES permit are as follows:

- Part C.3: Dry Streams
- Part C.20: DRBC
- Part C.33: UV Requirements
- Part C.110A: Solids Management
- Part C.119: DO Limits

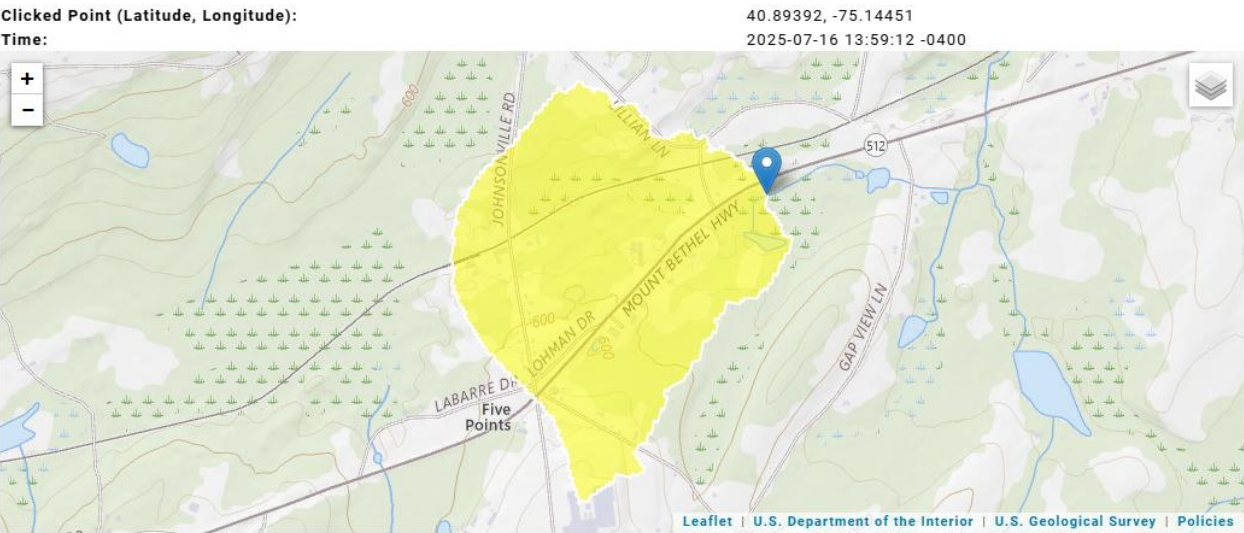
The previous inspection performed at this facility was a Routine/Partial Inspection conducted on 5/7/2025 and resulted in zero (0) NOVs. There are two (2) open violations at this facility:

- 92A.75(A): NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date
- 92A.44: NPDES - Violation of effluent limits in Part A of permit

Recommend Approval.

PT1 @ Outfall 001, Tributary 4739 of Jacoby Creek, 1F, Jacoby – Bushkill Creeks, CWF, MF
RMI: .56 (for modeling purposes)

Summary of Review

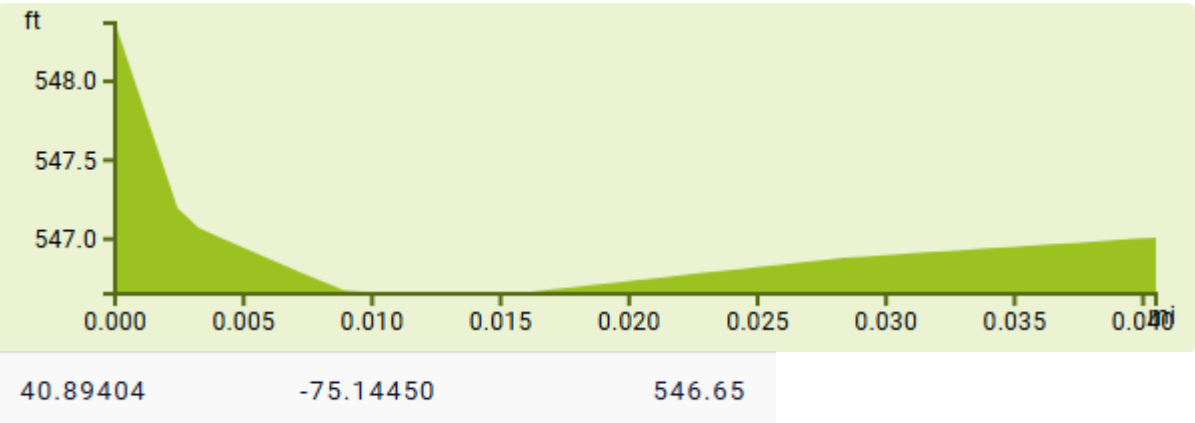


+ Collapse All

Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| CARBON | Percentage of area of carbonate rock | 0 | percent |
| DRNAREA | Area that drains to a point on a stream | 0.28 | square miles |

7 Day 10 Year Low Flow 0.0356 ft³/s

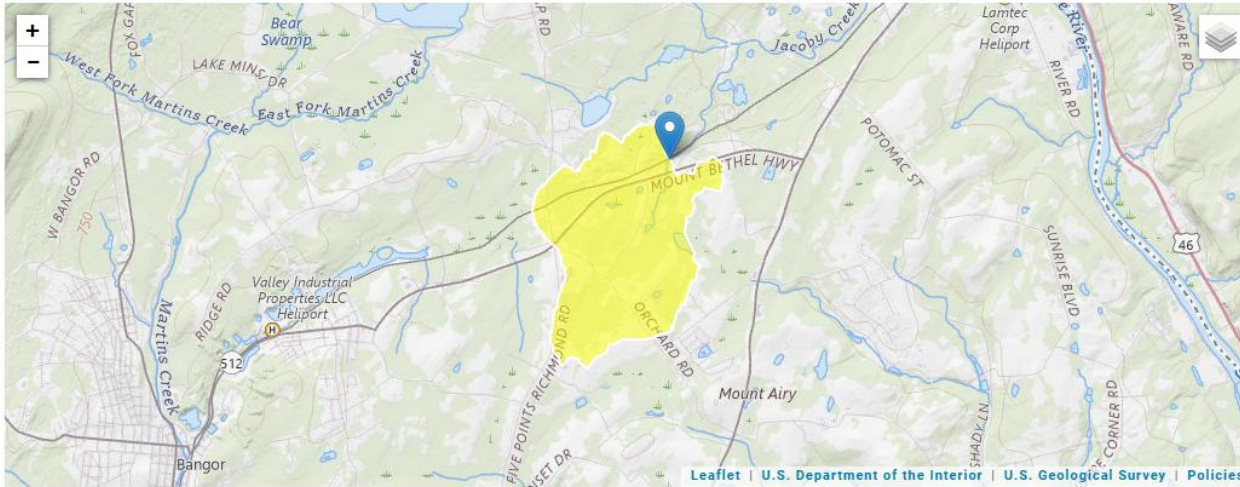


PT2 on stem w/ conflux of Jacoby Creek
RMI: .01 (for modeling purposes)

Clicked Point (Latitude, Longitude):

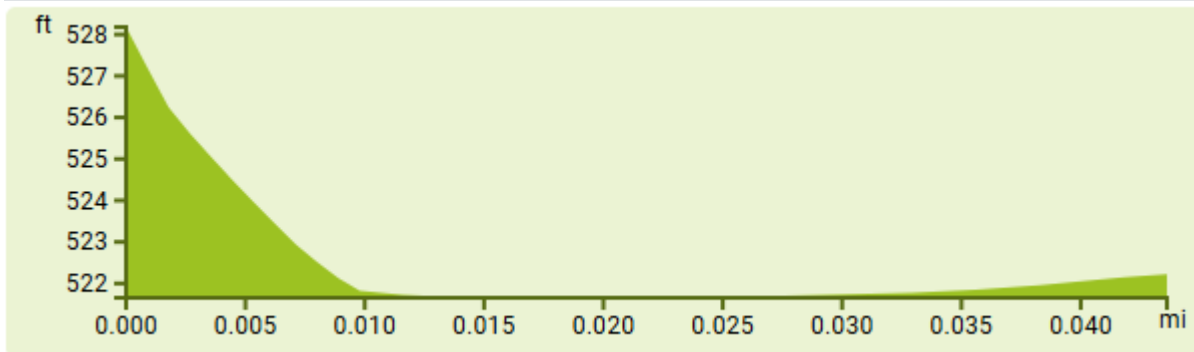
40.89759, -75.13636

2025-07-16 14:29:22 -0400



 Collapse All

| Parameter Code | Parameter Description | Value | Unit |
|------------------------|---|-------|--------------|
| CARBON | Percentage of area of carbonate rock | 0 | percent |
| DRNAREA | Area that drains to a point on a stream | 1.55 | square miles |
| 7 Day 10 Year Low Flow | | 0.158 | ft^3/s |



40.89748

-75.13618

521.67

Summary of Review

Analysis Results WQM 7.0

Hydrodynamics

NH3-N Allocations

D.O. Allocations

D.O. Simulation

Effluent Limitations

RMI

Discharge Name

Permit Number

Disc Flow (mgd)

0.56

Bangor HS

PA0030996

0.0230

Parameter

Effluent Limit 30 Day Average (mg/L)

Effluent Limit Maximum (mg/L)

Effluent Limit Minimum (mg/L)

CBOD5

25

NH3-N

3.89

7.78

Dissolved Oxygen

6

Record: 1 of 1

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