

Application Type
Facility Type
Major / Minor

Renewal
Non-
Municipal
Minor

Application No. **PA0030996**
APS ID **621252**
Authorization ID **1417396**

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Applicant and Facility Information

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

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		William Hon William Hon/ Environmental Engineer Specialist	August 12, 2025
X		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)

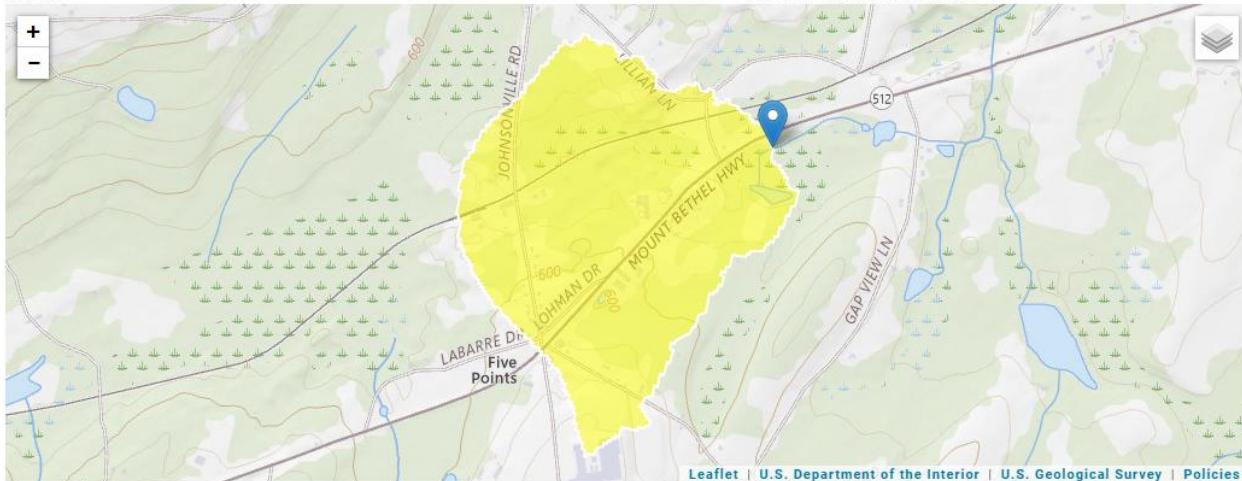
Summary of Review

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Time:

2025-07-16 13:59:12 -0400

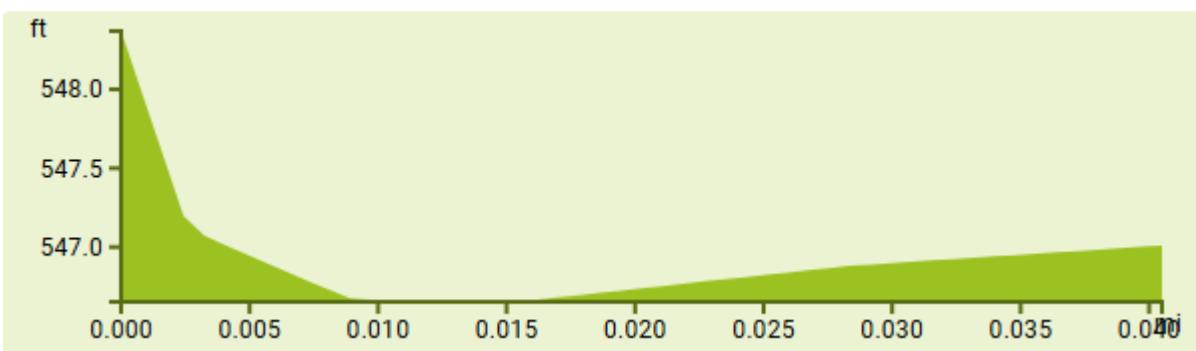


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Basin Characteristics

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



40.89404 -75.14450 546.65

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

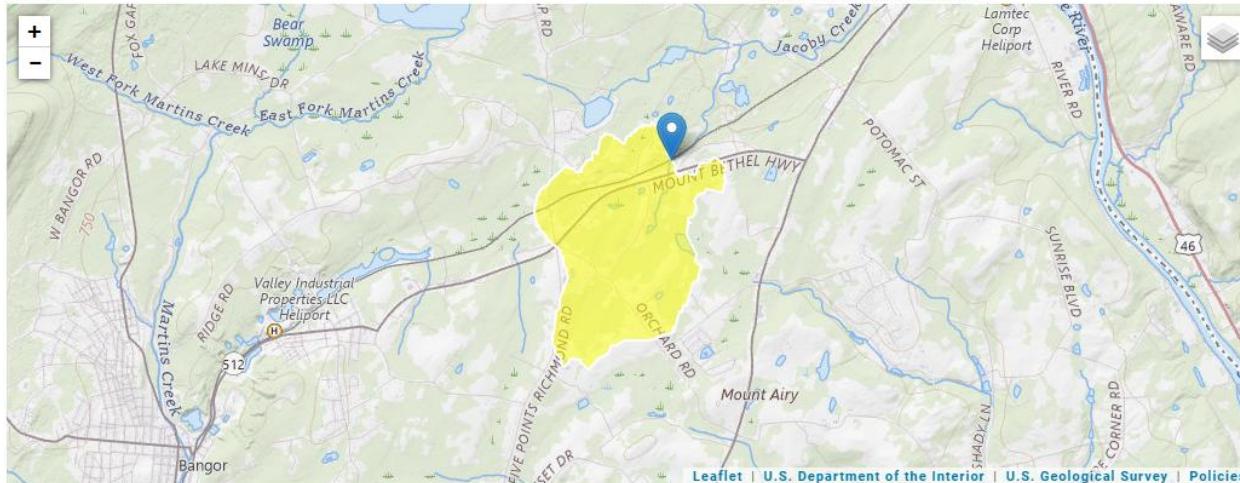
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2025-07-16 14:29:22 -0400

Time:



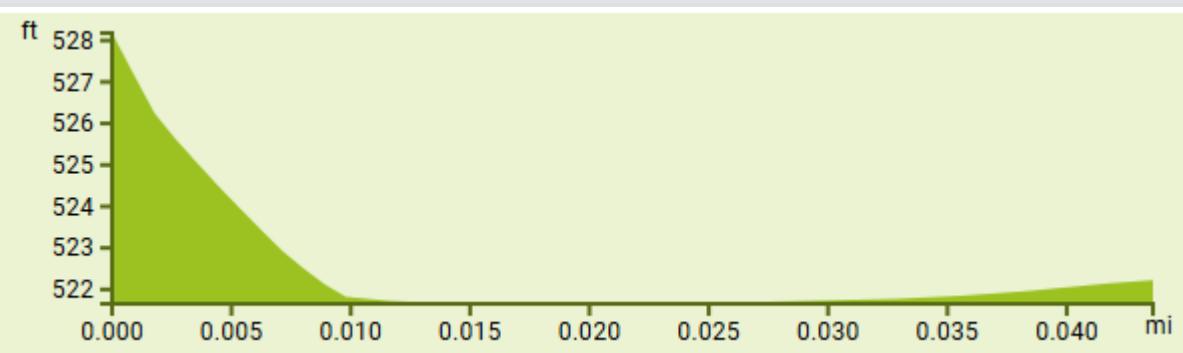
[+ Collapse All](#)

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	1.55	square miles

7 Day 10 Year Low Flow

0.158 ft³/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)
CBOD ₅	25		
NH ₃ -N	3.89	7.78	
Dissolved Oxygen			6

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