



Application Type  
Facility Type  
Major / Minor

Renewal  
Municipal  
Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0021555  
APS ID 858232  
Authorization ID 1515268

**Applicant and Facility Information**

Applicant Name	<u>Weatherly Borough</u>	Facility Name	<u>Weatherly Borough WWTP</u>
Applicant Address	<u>61 W. Main Street</u>	Facility Address	<u>Seventh Street</u>
Applicant Contact	<u>Weatherly, PA 18255</u>	Facility Contact	<u>Weatherly, PA 18255-1437</u>
Applicant Phone	<u>(570) 427-8640</u>	Facility Phone	<u>(570) 427-8640</u>
Client ID	<u>65274</u>	Site ID	<u>443322</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Weatherly Borough</u>
Connection Status	<u>No Limitations</u>	County	<u>Carbon</u>
Date Application Received	<u>February 10, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>February 10, 2025</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		

**Summary of Review**

The applicant is requesting renewal of an NPDES permit to discharge 0.6 MGD of treated sewage to Black Creek, a CWF/MF designated receiving stream in state water plan basin 02-B (Middle Lehigh River). As per the Department's current existing use list, the receiving stream does not have an existing use that is more protective than its designated use. The discharge is not expected to affect public water supplies.

Technology-based limits for CBOD<sub>5</sub>, TSS, TRC, and fecal coliform are carried over from the previous permit. Since the facility utilizes ultraviolet radiation for disinfection, the required measurement frequency for TRC is "daily when discharging" and only the IMAX limitation is included in the permit. The permittee shall monitor TRC on days when the facility is utilizing chlorine for backup disinfection, cleaning, or other purposes (See Part C.I.D.). The following template Part C.I.E. condition is added to the permit for UV system monitoring: *The permittee shall report operation of the ultraviolet (UV) disinfection system on a daily basis using the Daily Effluent Monitoring Form (3800-FM-BCW0435) and the parameter named "UV Functional". The permittee shall report values of "1" for Yes (i.e., the UV system is functional) and "< 1" for No (i.e., the UV system is not functional). The UV system shall be considered functional when all components that are necessary for disinfection to achieve effluent limitations in Part A of this permit are operating properly.*

As with the modeling performed during the previous renewal, WQM 7.0 modeling recommended a summertime monthly average limitation (22.3 mg/L) that's near the technology-based standard of 25 mg/L. eDMR data shows that Ammonia-N concentrations in the effluent of this facility are not expected to approach the recommended WQBEL. The monthly monitoring/reporting requirements for Ammonia-N continue in this renewal.

The previously issued permit required 1/month monitoring/reporting of dissolved oxygen. WQM 7.0 modeling didn't recommend water quality-based limitations for dissolved oxygen. Since the beginning of the previous permit term (September 1, 2020), the average concentration of dissolved oxygen in the effluent was 7 mg/L. Low dissolved oxygen is not a concern in this discharge and the monthly reporting requirement is removed from this renewal.

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	May 19, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	May 19, 2025

### Summary of Review

Note: Technology-based pH limitations and flow monitoring requirements were mistakenly removed from the previously issued permit. These standard requirements are included in this renewal.

A Total Maximum Daily Load (TMDL) for the Black Creek Watershed, dated October 31, 2008, was approved by the EPA. The TMDL addresses the three primary metals associated with abandoned mine drainage (iron, manganese, aluminum) and pH. There is no wasteload allocation (WLA) assigned to this facility. The WWTP receives industrial wastewater flow from Weatherly Foundry. Annual monitoring and reporting for Total Iron, Total Manganese and Total Aluminum continues in this renewal. DEP's Toxics Management Spreadsheet (TMS) didn't recommend limitations or monitoring requirements for any of the TMDL metals of concern. The TMS recommended monitoring/reporting for Total Copper, therefore, the annual monitoring/reporting requirements continue in this renewal.

For modeling inputs, RMIs were obtained using the historic streams layer of DEP's eMapPA. Drainage areas and elevations were obtained from USGS's StreamStats interactive map. Since there's no representative stream gages to obtain current data from, the Q<sub>7-10</sub> flow was calculated using StreamStats.

DRBC Docket No. D-93-43 CP was issued for the facility in 1993. There is no current docket available on DRBC's interactive map and the Commission will continue to be copied on all NPDES correspondence. The standard DRBC quarterly monitoring/reporting requirement for Total Dissolved Solids is carried over in this renewal.

The latest available Chapter 94 report for the WWTP shows no current or projected hydraulic/organic overloads. There are no open violations for the client that would warrant withholding issuance of the final permit. The previously issued NPDES permit expires on August 31, 2025 and the renewal application was submitted in a timely manner.

Sludge use and disposal description and location(s): The permit renewal application states 13.7 dry tons of sludge was hauled to the Greater Hazleton Joint Sewer Authority WWTP during the previous year via Environmental Service Corp of PA.



Watershed Information.pdf



WQM Modeling.pdf



TRC Calculation.pdf TMS PA0021555.pdf



### Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.6
Latitude	40° 56' 7"	Longitude	-75° 49' 36"
Quad Name	Weatherly	Quad Code	1139
Wastewater Description:	Sewage Effluent		
Receiving Waters	Black Creek (CWF, MF)	Stream Code	4139
NHD Com ID	26285157	RMI	4.7
Drainage Area	31.6 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	0.238
Q <sub>7-10</sub> Flow (cfs)	7.53	Q <sub>7-10</sub> Basis	USGS StreamStats
Elevation (ft)	1036	Slope (ft/ft)	0.024
Watershed No.	2-B	Chapter 93 Class.	CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	Metals, pH		
Source(s) of Impairment	Acid Mine Drainage		
TMDL Status	Final	Name	Black and Hazle Creek
Background/Ambient Data		Data Source	
pH (SU)	-	-	
Temperature (°F)	-	-	
Hardness (mg/L)	-	-	
Other:	-	-	
Nearest Downstream Public Water Supply Intake		Lehighton Water Authority	
PWS Waters	Lehigh River	Flow at Intake (cfs)	-
PWS RMI	44.2	Distance from Outfall (mi)	~16.5

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Weatherly Borough WWTP				
<b>WQM Permit No.</b>	<b>Issuance Date</b>			
1393402	9/29/1993			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequencing Batch Reactor	UV	0.6
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.6	1400	Not Overloaded	Aerobic Digester	Hauled

**Development of Effluent Limitations**

**Outfall No.** 001  
**Latitude** 40° 56' 7"  
**Wastewater Description:** Sewage Effluent

**Design Flow (MGD)** 0.6  
**Longitude** -75° 49' 36"

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD <sub>5</sub>	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40.0	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	50.0	IMAX	-	-
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45.0	Average Weekly	133.102(b)(2)	92a.47(a)(2)
	60.0	IMAX	-	-
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	1.6	IMAX	-	-

**Anti-Backsliding**

No limitations were removed from the permit or made less stringent.



Pennsylvania  
**Department of**  
Environmental Protection