

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0060330
APS ID 548016
Authorization ID 1320150

Applicant and Facility Information

Applicant Name	<u>Hawley Borough Area Authority</u>	Facility Name	<u>Hawley Area Authority WWTP</u>
Applicant Address	<u>1010 Hudson Street</u> <u>Hawley, PA 18428-0145</u>	Facility Address	<u>1010 Hudson Street</u> <u>Hawley, PA 18428</u>
Applicant Contact	<u>David Hawk, Chairman</u>	Facility Contact	<u>John Witte, Manager</u>
Applicant Phone	<u>(570) 226-2279</u>	Facility Phone	<u>(570) 226-2279</u>
Client ID	<u>66142</u>	Site ID	<u>239919</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Lackawaxen Township</u>
Connection Status	<u>-</u>	County	<u>Pike</u>
Date Application Received	<u>July 7, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>July 21, 2020</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Application for renewal of an NPDES permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.20 MGD of treated sewage into, the Lackawaxen River, a High-Quality, Trout Stocking, Migratory Fish (HQ-TSF, MF) receiving stream in State Water Plan Basin 1-B (Lackawaxen River). 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. This discharge is not expected to affect public water supplies.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), Dissolved Oxygen (DO), and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Ammonia-Nitrogen are water quality-based and carried over from the previous permit. Monthly monitoring and reporting for Copper will remain in this permit. WQM 7.0 and the Toxics Management Spreadsheet did not recommend any stricter limits.

Influent monitoring requirements for TSS and CBOD₅ has been carried over from the previous permit. The monthly influent monitoring frequency has been updated to weekly to be consistent with the discharge sampling frequency.

Sewage discharges now require monitoring and reporting for E. Coli. A monitoring frequency of 1/month for design flows >= 1 MGD, 1/quarter for design flows >= 0.05 and < 1 MGD, 1/year for design flows of 0.002 – 0.05 MGD will be utilized.

UV is the approved disinfection method. Where the permittee does not use chlorine for primary or backup disinfection, but proposes the use of chlorine for emergency disinfection, cleaning or other purposes, the monitoring and reporting requirements found in Part C.I.D. of the permit will pertain. The TRC Calculation Spreadsheet did not recommend stricter limitations than the previous permit.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	May 21, 2021
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	5-25-21

Summary of Review

The latest DRBC Docket No. D-1981-029 CP-3 requires an 85% minimum removal of CBOD₅ (at 20° C) of the raw sewage influent. Limitations/reporting for Nitrate-Nitrite as N, Total Nitrogen, Total Kjeldahl Nitrogen, and Total Phosphorus as required by the previous DRBC docket and Chapter 92a.61. have all been carried over.

24-hour composite sampling is now required for every pollutant except pH, DO, TRC, and Fecal Coliform.

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

Stream gage 1431500 (Lackawaxen River at Hawley, PA) was used as a reference gage to develop the low flow yield (LFY) of 0.0786 cfs/mi², which was used to model the discharge. The Q₇₋₁₀ and drainage area at gage 1431500 was obtained from USGS's Open File Report 2011-1070. River Mile Index (RMI) values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

The existing permit expired on December 31, 2020. The application for renewal was received on July 7, 2020.

A Water Management System Inspection query indicated that on September 10, 2020 a Compliance Evaluation was performed.

There are currently two open violations for this client that need to be resolved before issuance of the final permit:

1. 02/13/2020 - Violation ID 876891 – Violation Code 92A.44 – NPDES- Violation of effluent limits in Part A of permit. (WPC NPDES - Program Specific ID: PA0060330).
2. 02/13/2020 - Violation ID 876892 – Violation Code CSL611 – CSL- Failure to comply with terms and conditions of a WQM permit. (WPC NPDES - Program Specific ID: PA0060330).

Sludge use and disposal description and location(s): As per the permittee's permit renewal application, sludge is hauled to the Keystone Sanitary Landfill in Dunmore, PA by Koberlein Environmental Services.

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)	0.2
Latitude	41° 28' 32.57"	Longitude	-75° 9' 53.71"
Quad Name	Hawley	Quad Code	0744
Wastewater Description: Sewage Effluent			
Receiving Waters	Lackawaxen River (HQ-TSF, MF)	Stream Code	5449
NHD Com ID	25924160	RMI	15.8
Drainage Area	516 mi ²	Yield (cfs/mi ²)	0.0786
Q ₇₋₁₀ Flow (cfs)	22.8	Q ₇₋₁₀ Basis	USGS Stream Gage 1431500
Elevation (ft)	868.5	Slope (ft/ft)	-
Watershed No.	1-B	Chapter 93 Class.	HQ-TSF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	- Name -		
Nearest Downstream Public Water Supply Intake	Easton Area Water System		
PWS Waters	Delaware River	Flow at Intake (cfs)	-
PWS RMI	110.4	Distance from Outfall (mi)	~ 109

Treatment Facility Summary				
Treatment Facility Name: Hawley Area Authority				
WQM Permit No.	Issuance Date	Scope		
6481401	12/11/1981	Original STP and collection system		
5293401	7/6/1993	Four Reed sludge drying beds (total bed area of 6,000 square feet). Reeds were to be harvested once per year per application narrative.		
5215403	12/11/2015	Upgrades to treatment process		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Ultraviolet	0.112 (2017-2019)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.20	480	-	Aerobic Digestion	Hauled

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.2</u>
Latitude <u>41° 28' 33.00"</u>	Longitude <u>-75° 9' 54.00"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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
Flow (MGD)	Report	Maximum Daily	-	92a.27, 92a.61
CBOD ₅	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40.0	Average Weekly		
	50.0	IMAX	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45.0	Average Weekly		
	60.0	IMAX	133.102(b)(2)	92a.47(a)(2)
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)
Fecal Coliform (5/1 – 9/30)	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)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
E. Coli	Report	IMAX	-	92a.61
Dissolved Oxygen	5.0	Minimum	-	BPJ

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model	
Ammonia-Nitrogen Nov 1 - Apr 30	12.0	Average Monthly	Previous Modeling	
	24.0	IMAX		
Ammonia-Nitrogen May 1 - Oct 31	4.0	Average Monthly		
	8.0	IMAX		
Total Residual Chlorine	0.5	Average Monthly	Previous TRC Calculation Spreadsheet	
	0.75	IMAX		
Total Dissolved Solids	1,000	Average Quarterly	DRBC Docket Requirements	
	2,000	IMAX		
CBOD ₅ Minimum % Removal (%)	85	Minimum Monthly Average		
Nitrate-Nitrite as N	14.8 lbs/day	Monthly Average		
Total Nitrogen	Report	Monthly Average		
Total Kjeldahl Nitrogen	Report	Monthly Average		
Total Phosphorus	5.0 lbs/day	Monthly Average		
Copper, Total	Report	Monthly Average		
CBOD ₅ – Raw Sewage Influent	Report	Monthly Average		DRBC Docket and Municipal Sewage Requirements
Total Suspended Solids – Raw Sewage Influent	Report	Monthly Average		

Anti-Backsliding

No limitations were made less stringent.

Modeling

At Outfall 001 on Lackawaxen River:

RMI	Elevation (ft)	Drainage Area (mi ²)	Q ₇₋₁₀ Flow (cfs)
15.8	868.5	516	47.8

Stream Gage: USGS Stream Gage 1431500 – Lackawaxen River at Hawley, PA

- Drainage Area = 290 mi²
- Q₇₋₁₀ = 22.8 ft³/sec

$$\text{Low Flow Yield using Stream Gage} = \frac{22.8 \text{ ft}^3/\text{sec}}{290 \text{ mi}^2} = 0.0786 \frac{\text{ft}^3/\text{sec}}{\text{mi}^2}$$

StreamStats Report

Region ID: PA
 Workspace ID: PA20210519144310189000
 Clicked Point (Latitude, Longitude): 41.47567, -75.16500
 Time: 2021-05-19 10:43:29 -0400



Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	516	square miles
Statistic		Value	Unit
7 Day 2 Year Low Flow		86	ft ³ /s
30 Day 2 Year Low Flow		110	ft ³ /s
7 Day 10 Year Low Flow		47.8	ft ³ /s

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name					
01B	5449	LACKAWAXEN RIVER					
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
15.800	Hawley Auth	PA0060330	0.200	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			3



WQM 7.0 -
Hawley.pdf



TMS Results -
PA0060330.pdf



TRC_CALC_Hawley.p
df



DRBC Docket
1981-029CP-3.pdf