



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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0061085
APS ID 827248
Authorization ID 1475390

Applicant and Facility Information

Applicant Name	<u>Glenburn Service Co.</u>	Facility Name	<u>Glenburn Service Co. Wastewater Plant</u>
Applicant Address	<u>1301 Winola Road</u> <u>Clarks Summit, PA 18411-9445</u>	Facility Address	<u>1301 Winola Road</u> <u>Clarks Summit, PA 18411-9445</u>
Applicant Contact	<u>Jeff Colombo</u>	Facility Contact	<u>Jeff Colombo</u>
Applicant Phone	<u>(570) 586-2145</u>	Facility Phone	<u>(570) 587-1152</u>
Client ID	<u>62800</u>	Site ID	<u>250191</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Glenburn Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Lackawanna</u>
Date Application Received	<u>March 1, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>July 31, 2024</u>	If No, Reason	
Purpose of Application	<u>Renewal of NPDES permit to discharge treated sewage effluent.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.033 MGD of treated sewage to Ackerly Creek, a Trout Stocking, Migratory Fishes (TSF, MF) receiving stream in State Water Plan Basin 4-F (Tunkhannock Creek). 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 stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission.

The receiving stream is impaired by Urban Runoff and Pathogens. This facility is not expected to impact this impairment.

The facility reports 10.98 dry tons of sludge is hauled off property annually. 0.70 dry tons gets hauled to WVSA and 10.28 dry tons gets hauled via Rural WW Management to Rogers Farm for beneficial use under beneficial use permit PAG092212.

There are no representative stream gages in the vicinity of the outfall. A standard low flow yield (LFY) of 0.1 cfs/mi² was used to model the discharge. 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.

Limitations for pH, CBOD₅, Total Suspended Solids, and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Ammonia-Nitrogen and Dissolved Oxygen (DO) are water quality-based and carried over from the previous permit. WQM modeling did not recommend stricter limitations for Ammonia-Nitrogen.

Approve	Deny	Signatures	Date
X		<i>William Hon</i> William Hon / Environmental Engineer Specialist	February 12, 2025
X		<i>Edward Dudick</i> Edward Dudick, P.E. / Environmental Engineer Manager	February 14, 2025

Summary of Review

Since the previous permit was issued, TRC technology-based limitation has been updated. The current average monthly limitation is .95mg/L and IMAX is 2.8mg/L. The new TBEL for TRC for this size facility is an average monthly of .5mg/L and IMAX of 1.6mg/L. Modeling for TRC did not recommend more stringent limitations. These new TBELs will come into effect three (3) years after permit issuance. Included in the permit will be a schedule of compliance and TRC minimization.

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.

All self-monitoring requirements for limitations have been updated to reflect Table 6-3 of the Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits Manual. This changes sample type for Ammonia-Nitrogen, CBOD₅, and TSS from an 8-Hour Composite Sample to a Grab sample.

Annual monitoring and sampling requirements for Total Phosphorus, Total Nitrogen, Nitrate-Nitrite as N, and Total Kjeldahl Nitrogen have been carried over from the previous permit.

The existing permit expired on 1/31/2024 and the application for renewal was not received on time. The permit was accepted late on 3/1/2024 due to outstanding circumstances with the operator in charge. The previous impactation at this facility was a compliance evaluation performed on 11/22/2022 that resulted in no NOVs. There are no open violations that would warrant the withholding of the issuance of this permit. Recommend approval.

Modeling Inputs:

Pt1 @ Outfall

Stream: Ackerly Creek, 28829 RMI: 4.5

Clicked Point (Latitude, Longitude):

Time:

41.51671, -75.72391

2025-02-12 13:29:33 -0500



+

> Basin Characteristics

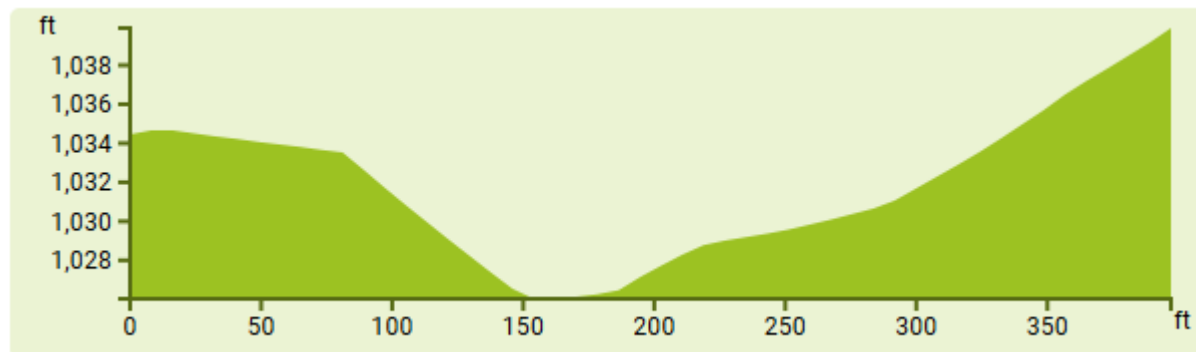
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	6.48	square miles

Summary of Review

Low-Flow Statistics Flow Report [Low Flow Region 5]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error of Prediction, Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	0.212	ft ³ /s	38	38
30 Day 2 Year Low Flow	0.333	ft ³ /s	33	33
7 Day 10 Year Low Flow	0.0568	ft ³ /s	57	57



Pt2 @ conflux w/ South Branch Tunkhannock Creek approx. 4.5 miles away

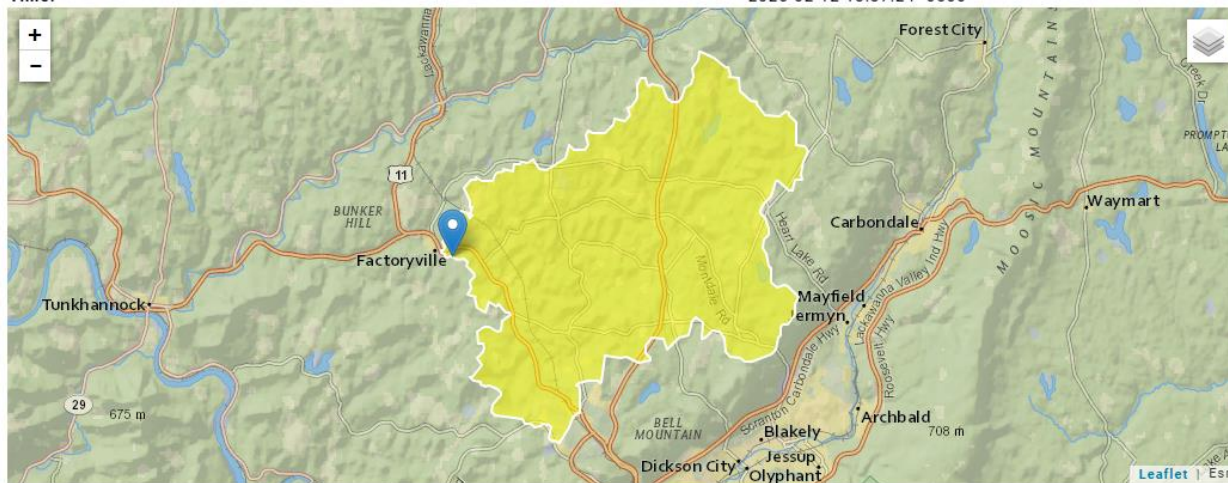
RMI: .01

Clicked Point (Latitude, Longitude):

41.55916, -75.77234

Time:

2025-02-12 13:37:24 -0500



Collapse All

> Basin Characteristics

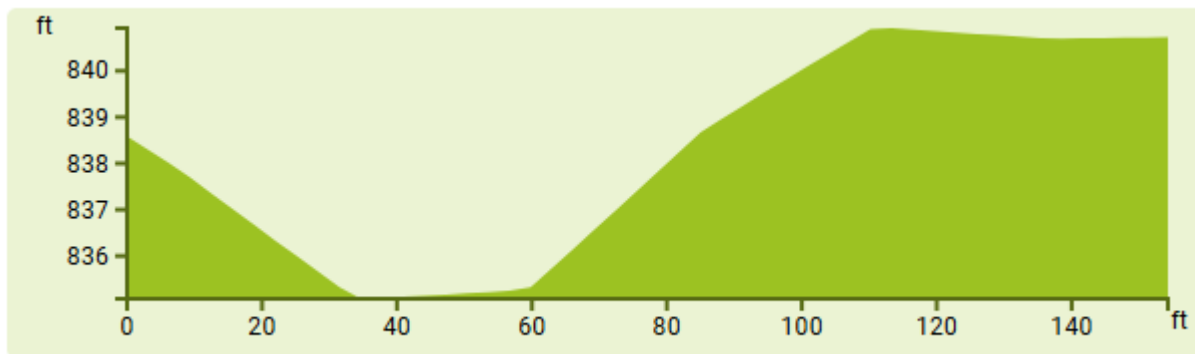
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	69.4	square miles

Summary of Review

Low-Flow Statistics Flow Report [Low Flow Region 5]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Percent Correct, RMSE: Root Mean Squared Error, PseudoR²: Pseudo R Squared (other -- see report)

Statistic	Value	Unit
7 Day 2 Year Low Flow	4.58	ft ³ /s
30 Day 2 Year Low Flow	6.49	ft ³ /s
7 Day 10 Year Low Flow	1.75	ft ³ /s



RMI	Discharge Name	Permit Number	Disc Flow (mgd)
4.50	Glenburn	PA0061085	0.0330

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	4.17	8.34	
Dissolved Oxygen			6

Record: 1 of 1 No Filter Search

Using the state-wide Low-Flow Yield (LFY) of 0.1 cfs/mi²:

$$\frac{0.1 \text{ ft}^3/\text{sec}}{\text{mi}^2} \times 6.8 \text{ mi}^2 = \frac{0.648 \text{ ft}^3}{\text{sec}}$$

Summary of Review

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.648	= Q stream (cfs)	0.5	= CV Daily
0.033	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 4.068	1.3.2.iii	WLA cfc = 3.959
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 1.516	5.1d	LTA_cfc = 2.301

Source	Reference	Effluent Limit Calculations
PENTOXSD TRG	5.1f	AML MULT = 1.231
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500
		INST MAX LIMIT (mg/l) = 1.635
		BAT/BPJ

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.