

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

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0060755
APS ID 494889
Authorization ID 1510963

Applicant and Facility Information

Applicant Name	<u>Wyoming County Housing Authority</u>	Facility Name	<u>Wyoming County Housing Authority</u>
Applicant Address	<u>133 S J Bailey Road</u> <u>Nicholson, PA 18446</u>	Facility Address	<u>Benninger Road</u> <u>Meshoppen, PA 18630</u>
Applicant Contact	<u>Danielle Powell</u>	Facility Contact	<u>Jennifer Galvin</u>
Applicant Phone	<u>(570) 942-6155</u>	Facility Phone	<u>(570) 833-5317</u>
Client ID	<u>27051</u>	Site ID	<u>260050</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Meshoppen Township</u>
Connection Status		County	<u>Wyoming</u>
Date Application Received	<u>December 20, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>December 20, 2024</u>	If No, Reason	
Purpose of Application	<u>Renewal of existing NPDES permit to discharge treated sewage effluent.</u>		

Summary of Review

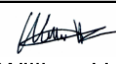
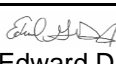
The applicant is requesting the renewal of an NPDES permit to discharge up to 0.0091 MGD of treated sewage to Little Meshoppen Creek, a Cold-Water Fishes, Migratory Fishes (CWF, MF) receiving water located in PA State Water Basin 4-G (Mehoopany-Bowman Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

The facility is located in the Chesapeake Bay Watershed but is not on the Phase 3/4/5 WIP Wastewater Supplement list.

The old system for the facility is primary treatment via bar screen, secondary treatment via extended aeration and clarification and finally uses contact chlorine for disinfection. No dechlorination is implemented at the facility, and thus a new facility has been proposed and approved to be built that includes dechlorination.

A WQM permit (6625102) was issued for a new facility for the site on October 24, 2025. The new facility will consist of a as-built Purestream Model PT-8 plant. Raw sewage influent enters the plant and enters primary treatment. Primary treatment is via a comminutor and bar screen. Following primary treatment, wastewater enters an Aeration Tank, followed by Primary Clarification. The system will contain Waste Activated Sludge (WAS) and Return Activated Sludge (RAS). WAS gets fed to an aerated holding tank and then to a pump and haul hydrant while RAS gets fed back to the aeration tank. Following clarification, secondary effluent gets disinfected with Calcium Hypochlorite tablets (via a feeder system) and dechlorinated via sodium sulfite and finally discharged out of Outfall 001 to the receiving stream. Tablet usage for chlorination and dechlorination will be monitored by the operator. Equalization of the influent flow is not proposed due to the reserve capacity present in the plant.

The proposed WWTP is to be built on the same property the existing one resides on. An area directly to the south of the existing plant will be cleared for the proposed plant. The existing plant will be filled in, but the existing building is to remain. Connections will be made from the existing building to the new plant. The same outfall will be used from the existing plant.

Approve	Deny	Signatures	Date
X		 William Hon / Environmental Engineer Specialist	December 3, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	December 4, 2025

Summary of Review

The old facility was able to discharge up to .0091mgd of treated sewage, while the new approved plant can discharge .008mgd. All modeling performed for both a .0091mgd and .008mgd discharge did not recommend more stringent effluent limits.

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.

Effluent limitations for TRC, pH, CBOD5, Total Suspended Solids, Fecal Coliform, and Ammonia-Nitrogen are TBELS and have been carried over from the previous permit. Effluent limitation for Dissolved Oxygen is a WQBEL and carried over from the previous permit.

Yearly monitoring requirements for Nitrate-Nitrite as N, Total Kjeldahl Nitrogen, and Total Nitrogen have been carried over from the previous permit. The yearly monitoring of Total Phosphorus has been changed to 2/month in accordance with Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001). All monitoring frequencies have been verified against Table 6-3.

The following special conditions were added into the WQM permit:

- A. Within 30 days after completion of the project, the permittee shall submit "as-built" drawings of the project to the Department via Public Upload.
- B. Permittee shall submit a Decommissioning Plan at least 45 days prior to the commencement of work to decommission the existing WTP and outfall. The permittee shall submit the Plan to the Department via Public Upload.

The facility reports .443 dry tons of sludge are hauled offsite via an independent contractor to Hazleton Sewer Authority yearly.

The following special conditions have been added into the permit:

- Part C.2: Chlorine Minimization
- Part C.110A: Solids Management

The most recent inspection performed at this facility occurred on October 30, 2024 and resulted in two (2) NOVs:

- 92A.61(F)1: NPDES - Failure to properly document monitoring activities and results
- 92A.41(A)12B: NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports

These violations do not appear on the current open violations report.

Recommend Approval.

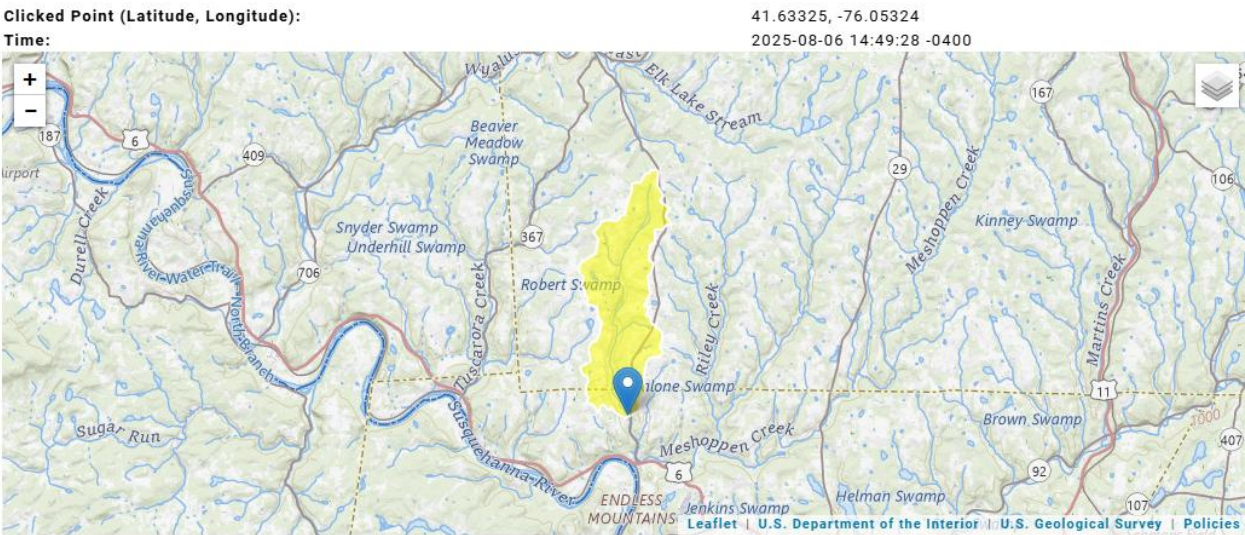
Modeling inputs:

Wyoming County Housing Auth

PT1: At Outfall 001, Little Meshoppen Creek, 29350, 4G, Mehoopany – Bowman Creeks, CWF, MF

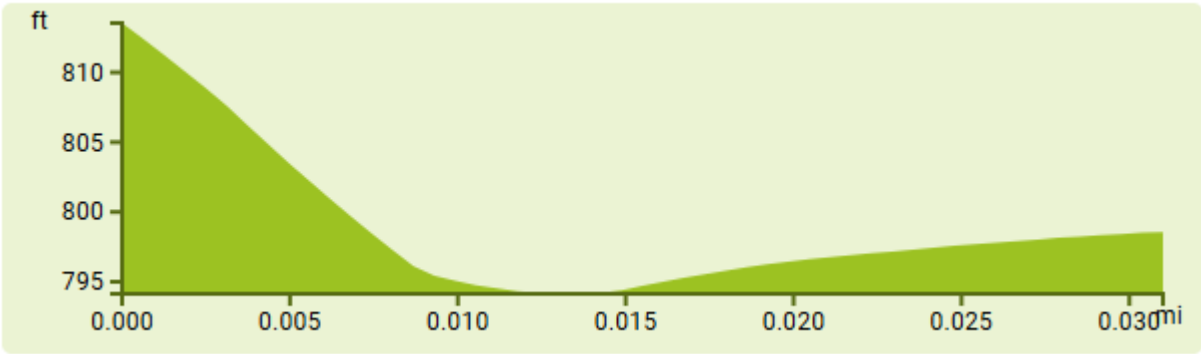
RMI: 1.5 for modeling

Summary of Review



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	11.3	square miles
7 Day 10 Year Low Flow		0.12	ft ³ /s



PT2 @ Conflux w/ Meshoppen Creek
RMI: .01 (For modeling)

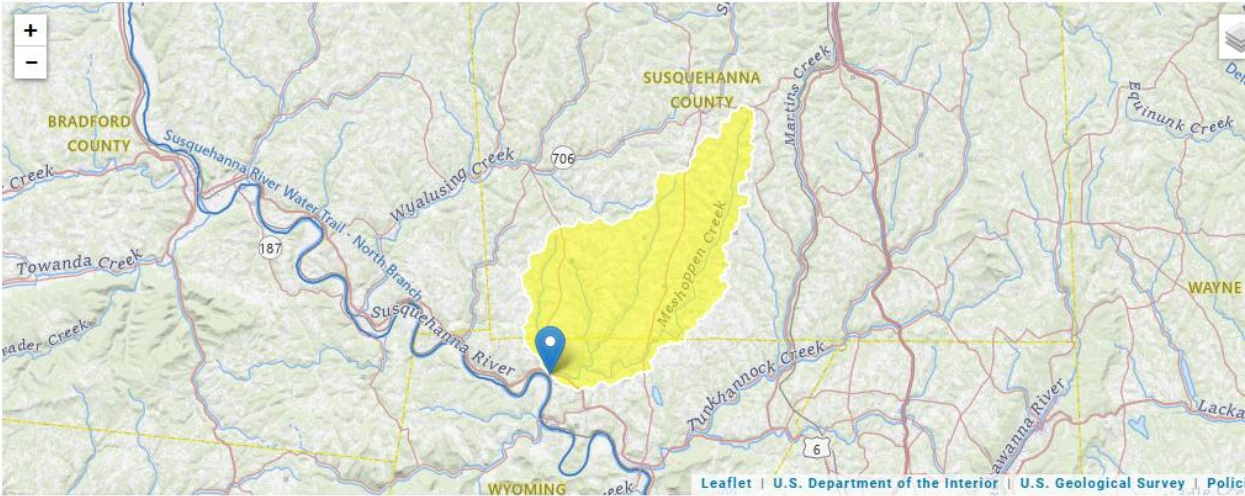
Summary of Review

Clicked Point (Latitude, Longitude):

41.61371, -76.04872

Time:

2025-08-06 14:55:24 -0400

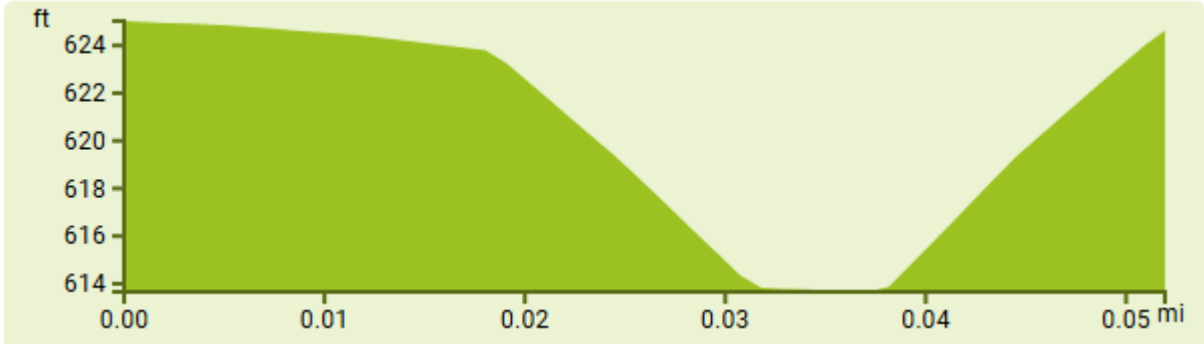


Collapse A

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	114	square miles

7 Day 10 Year Low Flow 2.6 ft³/s



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)

1.50\WHA

PA0060755

0.0080

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	25	50	
Dissolved Oxygen			3

Record: 1 of 1

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TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.12	= Q stream (cfs)	0.5	= CV Daily	
0.0091	= 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 = 2.738	1.3.2.iii	WLA cfc = 2.662
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 1.020	5.1d	LTA_cfc = 1.548
Source	Effluent Limit Calculations			
PENTOXSD TRG	5.1f	AML MULT = 1.231		
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500	BAT/BPJ	
		INST MAX LIMIT (mg/l) = 1.635		

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

Summary of Review

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.



Pennsylvania
**Department of
Environmental Protection**