Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0239771**
Facility Type	**Non-Municipal**	APS ID	**1102879**
Major / Minor	**Minor**	Authorization ID	**1465506**

Applicant and Facility Information

Applicant Name	**Hemlock Hills MHP LLC**	Facility Name	**Hemlock Hills MHP**
Applicant Address	225 Hall Street	Facility Address	Glen Kirk Road
	Phoenixville, PA 19460-3510		New Galilee, PA 16141
Applicant Contact	Brandon Dietrich	Facility Contact	Brandon Dietrich
Applicant Phone	(610) 850-2524	Facility Phone	(610) 850-2524
Client ID	362105	Site ID	263567
Ch 94 Load Status	Not Overloaded	Municipality	New Beaver Borough
Connection Status	No Limitations	County	Lawrence
Date Application Received	November 28, 2022	EPA Waived?	Yes
Date Application Accepted	April 22, 2025	If No, Reason	
Purpose of Application	NPDES Renewal.		

Summary of Review

Hemlock Hills MHP (Hemlock) has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The permit was last reissued on May 16, 2018, and became effective on June 1, 2018. The permit expired on May 31, 2023. During the permit term, the permit was amended on July 18, 2019, to reduce the monitoring frequency and on November 17, 2021, to reflect a change in ownership from Allen Porter & James A. Mims, Jr. to the Hemlock Hills Mobile Home Community, LLC.

Based on the review, it is recommended that the permit be drafted.

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.

Approve	Deny	Signatures	Date
X		*Jinsu Kim* Jinsu Kim / Environmental Engineering Specialist	April 25, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	May 2, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0044
Latitude	40º 54' 21.00"	Longitude	-80º 22' 10.00"
Quad Name	-	Quad Code	-
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to the Jenkins Run (WWF)	Stream Code	N/A
NHD Com ID	123918785	RMI	0.3
Drainage Area	0.36	Yield (cfs/mi^2)	0.1 (default)
Q_{7-10} Flow (cfs)	0.036	Q_{7-10} Basis	calculated
Elevation (ft)	829	Slope (ft/ft)	0.01830
Watershed No.	20-B	Chapter 93 Class.	WWF
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	Beaver Falls Municipal Authority - Eastvale		
PWS Waters	Beaver River	Flow at Intake (cfs)	561
PWS RMI	3.5	Distance from Outfall (mi)	9.6

Drainage Area
The discharge is to Unnamed Tributary to the Jenkins Run at RM 0.3. A drainage area upstream of the point of discharge is estimated to be 0.36 sq.mi according to USGS StreamStats available at https://streamstats.usgs.gov/ss/.

Streamflow
Historically, DEP had used 0.1 cfs/sq.mi as the low flow yield to calculate the Q7-10 flow for this facility as StreamStats is not accurately producing the Q7-10 data due to unknown errors (see attached StreamStats).

Public Water Supply Intake
The fact sheet developed for the last permit renewal indicates that the nearest downstream public water supply intake is Beaver Falls Municipal Authority located on Beaver River approximately 9.6 miles downstream from the discharge point. Given the distance and nature of discharge, the intake is not expected to be adversely affected by this discharge.

Treatment Facility Summary				
Treatment Facility Name: Hemlock Hills MHP				
WQM Permit No.	**Issuance Date**			
3707401	July 6, 2007			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Secondary	Extended Aeration	Hypochlorite	0.0044
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.0044	14.6	Not Overloaded	Sludge Holding Tank	Other WWTP

Hemlock operates an on-site sanitary wastewater treatment facility serving mobile home park. This facility rated for 0.0044 MGD is an integrated fixed-film (IFAS) treatment system consisting of a manual screening basket, a 2,400 gallon flow equalization/pump tank, a Bio-wheel integrated fixed-film aerator system (IFAS) consisting of a 2,800 gallon aeration tank, a 1,200 gallon aerated sludge digestion tank, and a 2,000 gallon clarifier, followed by tablet chlorine disinfection with a 1,000 gallon contact tank. Calcium hypochlorite (tablets) is used for disinfection.

Compliance History	
Summary of DMRs:	A summary of 12-month past DMR data is presented on the next page.
Summary of Inspections:	02/19/2020: DEP conducted a routine inspection and noted that the facility has failed to conduct the effluent monitoring that is required by the permit (i.e., 1/week v. 3/week). DEP recognized this is a permit violation at the time of inspection.
Other Comments:	Since the last permit reissuance, the facility has a number of permit violations mostly related to failure to conduct the effluent monitoring less frequent than required. These violations are listed on pages 5 thru 8 of this fact sheet. DEP's database shows there is no open violation associated with this permittee or facility.

Effluent Data

DMR Data for Outfall 001 (from March 1, 2024 to February 28, 2025)

Parameter	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24
Flow (MGD) Average Monthly	0.0012	0.0013	0.0011	0.0007	0.0009	0.0008	0.0008	0.0012	0.0014	0.0014	0.0013	0.0011
Flow (MGD) Daily Maximum	0.0015	0.0017	0.0015	0.0011	0.0013	0.0012	0.0013	0.0014	0.0017	0.0016	0.0019	0.0015
pH (S.U.) Instantaneous Minimum	6.8	6.9	6.9	6.9	7.0	7.0	6.9	7.0	7.1	7.1	7.1	7.1
pH (S.U.) Instantaneous Maximum	7.5	7.5	7.6	7.9	7.6	7.9	7.8	7.5	7.8	7.9	7.7	7.7
DO (mg/L) Instantaneous Minimum	6.8	6.9	6.5	5.6	6.6	6.7	5.9	6.0	5.7	6.8	5.5	5.6
TRC (mg/L) Average Monthly	0.27	0.24	0.2	0.24	0.25	0.27	0.28	0.2	0.21	0.23	0.29	0.21
TRC (mg/L) Instantaneous Maximum	0.38	0.36	0.43	0.50	0.45	0.53	0.57	0.54	0.54	0.50	0.50	0.56
CBOD5 (mg/L) Average Monthly	12.0	9.1	11.7	7.8	9.4	10.0	3.7	< 2.7	4.9	< 3.68	29.3	2.53
TSS (mg/L) Average Monthly	9.0	6.0	7.0	< 4.0	7.0	< 5.0	< 1.0	< 3.0	5.0	< 5.7	17.2	< 5.0
Fecal Coliform (No./100 ml) Geometric Mean	< 1	< 1	< 1	< 1	< 1	< 1	< 30	< 2	< 12	< 1	< 2	< 1
Fecal Coliform (No./100 ml) Instantaneous Maximum	1	1	< 1	2	2	< 1	921	5.2	71	< 1	< 2	< 1
Total Nitrogen (mg/L) Average Quarterly			33.4			E			23.6			9.32
Ammonia (mg/L) Average Monthly	1.2	0.53	5.4	2.5	0.89	1.2	0.6	0.54	0.44	1.058	24.8	< 0.5
Total Phosphorus (mg/L) Average Quarterly			3.1			E			6.17			1.43

Permit Violations

Date	Description	Parameter	Results	Limits	Units	SBC
8/6/2018	Late DMR Submission					
8/6/2018	Sample collection less frequent than required					
7/24/2018	Other					
7/24/2018	Sample collection less frequent than required	Dissolved Oxygen				
7/24/2018	Sample collection less frequent than required	pH				
7/24/2018	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
8/27/2018	Sample collection less frequent than required	Dissolved Oxygen				
8/27/2018	Sample collection less frequent than required	pH				
8/27/2018	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
9/25/2018	Sample collection less frequent than required	Dissolved Oxygen				
9/25/2018	Sample collection less frequent than required	pH				
9/25/2018	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
10/24/2018	Sample collection less frequent than required	Dissolved Oxygen				
10/24/2018	Sample collection less frequent than required	pH				
10/24/2018	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
10/24/2018	Sample type not in accordance with permit	Fecal Coliform				
10/24/2018	Violation of permit condition	Ammonia-Nitrogen	< 4.7	2.5	mg/L	Average Monthly
10/24/2018	Violation of permit condition	Fecal Coliform	5000	1000	No./100 ml	Instantaneous Maximum
11/27/2018	Sample collection less frequent than required	Dissolved Oxygen				
11/27/2018	Sample collection less frequent than required	pH				
11/27/2018	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
12/27/2018	Sample collection less frequent than required	Dissolved Oxygen				
12/27/2018	Sample collection less frequent than required	pH				
12/27/2018	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
1/28/2019	Sample collection less frequent than required	Dissolved Oxygen				
1/28/2019	Sample collection less frequent than required	pH				
1/28/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
2/21/2019	Sample collection less frequent than required	Dissolved Oxygen				
2/21/2019	Sample collection less frequent than required	pH				
2/21/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
3/26/2019	Sample collection less frequent than required	Dissolved Oxygen				
3/26/2019	Sample collection less frequent than required	pH				
3/26/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
4/25/2019	Sample collection less frequent than required	Dissolved Oxygen				
4/25/2019	Sample collection less frequent than required	pH				
4/25/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
6/17/2019	Late DMR Submission					
5/28/2019	Sample collection less frequent than required	Dissolved Oxygen				
5/28/2019	Sample collection less frequent than required	pH				
5/28/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				

6/25/2019	Sample collection less frequent than required	Dissolved Oxygen				
6/25/2019	Sample collection less frequent than required	pH				
6/25/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
7/24/2019	Sample collection less frequent than required	Dissolved Oxygen				
7/24/2019	Sample collection less frequent than required	pH				
7/24/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
8/26/2019	Sample collection less frequent than required	Dissolved Oxygen				
8/26/2019	Sample collection less frequent than required	pH				
8/26/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
8/26/2019	Violation of permit condition	Fecal Coliform	6900	1000	No./100 ml	Instantaneous Maximum
9/24/2019	Sample collection less frequent than required	Dissolved Oxygen				
9/24/2019	Sample collection less frequent than required	pH				
9/24/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
10/24/2019	Sample collection less frequent than required	Dissolved Oxygen				
10/24/2019	Sample collection less frequent than required	pH				
10/24/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
11/21/2019	Sample collection less frequent than required	Dissolved Oxygen				
11/21/2019	Sample collection less frequent than required	pH				
11/21/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
12/23/2019	Sample collection less frequent than required	Dissolved Oxygen				
12/23/2019	Sample collection less frequent than required	pH				
12/23/2019	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
1/27/2020	Sample collection less frequent than required	Dissolved Oxygen				
1/27/2020	Sample collection less frequent than required	pH				
1/27/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
2/26/2020	Sample collection less frequent than required	Dissolved Oxygen				
2/26/2020	Sample collection less frequent than required	pH				
2/26/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
4/30/2020	Late DMR Submission					
3/25/2020	Sample collection less frequent than required	Dissolved Oxygen				
3/25/2020	Sample collection less frequent than required	pH				
3/25/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
4/23/2020	Sample collection less frequent than required	Dissolved Oxygen				
4/23/2020	Sample collection less frequent than required	pH				
4/23/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
4/23/2020	Sample type not in accordance with permit	Flow				
5/28/2020	Sample collection less frequent than required	Dissolved Oxygen				
5/28/2020	Sample collection less frequent than required	pH				
5/28/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
8/4/2020	Late DMR Submission					
6/24/2020	Sample collection less frequent than required	Dissolved Oxygen				
6/24/2020	Sample collection less frequent than required	pH				
6/24/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				

8/26/2020	Sample collection less frequent than required	Dissolved Oxygen				
8/26/2020	Sample collection less frequent than required	pH				
8/26/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
9/24/2020	Sample collection less frequent than required	Dissolved Oxygen				
9/24/2020	Sample collection less frequent than required	pH				
9/24/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
10/27/2020	Sample collection less frequent than required	Dissolved Oxygen				
10/27/2020	Sample collection less frequent than required	pH				
10/27/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
11/24/2020	Sample collection less frequent than required	Dissolved Oxygen				
11/24/2020	Sample collection less frequent than required	pH				
11/24/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
12/24/2020	Sample collection less frequent than required	Dissolved Oxygen				
12/24/2020	Sample collection less frequent than required	pH				
12/24/2020	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
1/25/2021	Sample collection less frequent than required	Dissolved Oxygen				
1/25/2021	Sample collection less frequent than required	pH				
1/25/2021	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
2/23/2021	Sample collection less frequent than required	Dissolved Oxygen				
2/23/2021	Sample collection less frequent than required	pH				
2/23/2021	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
3/25/2021	Sample collection less frequent than required	Dissolved Oxygen				
3/25/2021	Sample collection less frequent than required	pH				
3/25/2021	Sample collection less frequent than required	Total Residual Chlorine (TRC)				
8/24/2021	Sample collection less frequent than required	Total Suspended Solids				
2/24/2022	Violation of permit condition	Dissolved Oxygen	2.7	4.0	mg/L	Instantaneous Minimum
8/24/2022	Violation of permit condition	Dissolved Oxygen	3.9	4.0	mg/L	Instantaneous Minimum
8/24/2022	Violation of permit condition	Fecal Coliform	> 6000	1000	No./100 ml	Instantaneous Maximum
3/23/2023	Violation of permit condition	Dissolved Oxygen	2.4	4.0	mg/L	Instantaneous Minimum
4/26/2023	Violation of permit condition	Dissolved Oxygen	3.6	4.0	mg/L	Instantaneous Minimum
7/25/2023	Violation of permit condition	Total Suspended Solids	42.0	30.0	mg/L	Average Monthly
9/26/2023	Violation of permit condition	Fecal Coliform	> 6000	1000	No./100 ml	Instantaneous Maximum
9/26/2023	Violation of permit condition	Fecal Coliform	> 62	200	No./100 ml	Geometric Mean
1/24/2024	Violation of permit condition	Ammonia-Nitrogen	7.92	7.5	mg/L	Average Monthly
3/25/2024	Violation of permit condition	Ammonia-Nitrogen	8.98	7.5	mg/L	Average Monthly
5/28/2024	Violation of permit condition	Ammonia-Nitrogen	24.8	7.5	mg/L	Average Monthly
5/28/2024	Violation of permit condition	Carbonaceous Biochemical Oxygen Demand (CBOD5)	29.3	25.0	mg/L	Average Monthly
11/27/2024	Late DMR Submission					

Existing Effluent Limits and Monitoring Requirements

The table below summarizes effluent limits and monitoring requirements specified in the existing permit.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	3/week	Grab
Dissolved Oxygen	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	3/week	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.4	XXX	0.94	3/week	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	25.0	XXX	50	2/month	8-Hr Composite
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	8-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	7.5	XXX	15	2/month	8-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	XXX	2.5	XXX	5	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	8-Hr Composite

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .0044
Latitude 40º 54' 21.00" **Longitude** -80º 22' 10.00"
Wastewater Description: Sewage Effluent

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
$CBOD_5$	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Water Quality-Based Limitations

CBOD5, NH3-N and Dissolved Oxygen (DO)
WQM 7.0 version 1.0b is a water quality model designed to assist DEP to determine appropriate permit requirements for CBOD5, NH3-N and DO. DEP's technical guidance no. 391-2000-007 describes the technical methods contained in the model for conducting wasteload allocation analyses and for determining recommended limits for point source discharges. The model output indicated that all existing effluent limits are still protective of water quality. No change is therefore recommended.

Toxics
This is a minor sewage facility receiving domestic wastewater only and the current application does not require sampling of toxic pollutants (or heavy metals) for those facilities with design flows less than 0.1 MGD. Therefore, no reasonable potential analysis for toxic pollutants has been performed for this permit renewal.

Total Residual Chlorine
Since chlorine is used for disinfection, Total Residual Chlorine (TRC) effluent levels must be regulated in accordance with 25 Pa Code §92a.48(b). DEP's TRC_CALC worksheet indicates that existing limits are still protective of water quality.

Best Professional Judgment (BPJ) Limitations

Dissolved Oxygen
The existing permit requires a daily minimum of 4.0 mg/L for Dissolved Oxygen. This was based on the minimum desired in effluent to protect all aquatic life. However, a minimum of 5.0 mg/L for DO is a current water quality criterion for warm water fishery waters taken directly from 25 Pa. Code § 93.7(a). The effluent limit will therefore be changed from 4.0 mg/L to 5.0 mg/L to ensure that the discharge does not violate the water quality standards. This approach is consistent with DEP's SOP and the similar requirement has also been assigned to other sewage facilities throughout the state. Based on the past DMR, the facility is able to meet this new effluent limit.

Additional Considerations

Flow Monitoring
The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii).

Nutrient Monitoring Requirements
DEP's SOP no. BCW-PMT-033 recommends a routine monitoring of Total Phosphorus and Total Nitrogen for sewage facilities greater than 0.002 MGD. Therefore, the existing quarterly monitoring requirement for nutrients will remain unchanged in the permit.

E. Coli Monitoring Requirement
DEP's SOP no. BPNPSM-PMT-033 recommends an annual routine monitoring of E. Coli for all sewage facilities that have design flow less than 0.05 MGD but greater than 0.002 MGD. An annual monitoring for E. Coli will therefore be included in the permit.

pH, DO, & TRC Monitoring Frequency
The existing permit requires 3/week for pH, DO & TRC effluent monitoring. However, during the permit transfer review, DEP has determined that the next permit renewal should include 1/day monitoring requirement for these parameters. In 2020 inspection report, DEP also specified that the monitoring frequency to be changed to 1/day for these parameters. This 1/day monitoring frequency is consistent with DEP's SOP as well as DEP's Permit Writer's Manual; therefore, it is recommended that the monitoring frequency for pH, DO and TRC be changed from 3/week to 1/day.

Commented [A1]: [Mention was removed] Their flows are generally really low. Do you know if there was a reason in the transfer and inspection report that we were adamant about going to 1/day sampling? Was this a compliance issue?

Monitoring Frequency and Sample Type
Unless otherwise specified throughout this fact sheet, existing monitoring frequencies and sample types will remain unchanged in the permit.

Anti-Degradation Requirements
All effluent limitations and monitoring requirements have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Anti-Backsliding Requirements
Unless stated otherwise in this fact sheet, all permit requirements proposed in this fact sheet are at least as stringent as existing permit requirements in accordance with 40 CFR §122.44(l)(1).

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.4	XXX	0.94	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	7.5	XXX	15	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.5	XXX	5	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	8-Hr Composite
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
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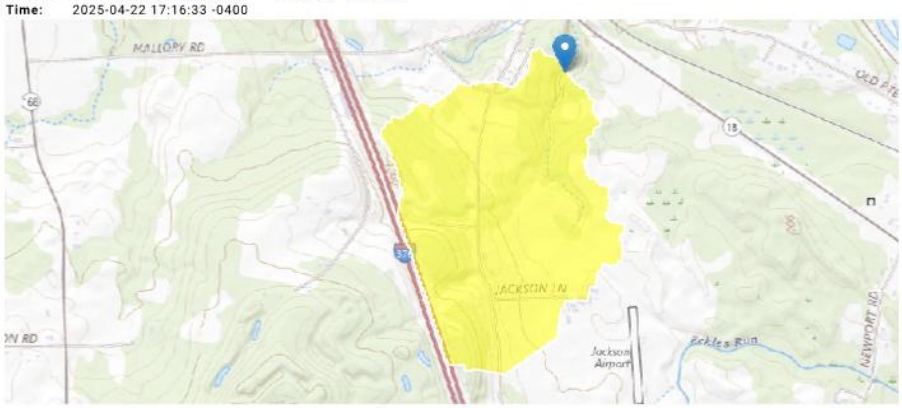
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☐	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
☐	Design Stream Flows, 386-2000-003, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other:

StreamStats Report

Region ID: PA
Workspace ID: PA20250422211600506000
Clicked Point (Latitude, Longitude): 40.90600, -80.36956
Time: 2025-04-22 17:16:33 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.36	square miles
ELEV	Mean Basin Elevation	918	feet

General Disclaimers

Parameter values have been edited, computed flows may not apply.

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.36	square miles	2.26	1400
ELEV	Mean Basin Elevation	918	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00701	ft^3/s
30 Day 2 Year Low Flow	0.014	ft^3/s
7 Day 10 Year Low Flow	0.002	ft^3/s
30 Day 10 Year Low Flow	0.00452	ft^3/s
90 Day 10 Year Low Flow	0.00915	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

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Application Version: 4.28.1
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
20B	35376	JENKINS RUN	0.300	829.00	0.36	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.100	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Hemslock MHP	PA0239771	0.0044	0.0044	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	5.00	8.24	0.00	0.00
NH3-N	2.50	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
20B	35376	JENKINS RUN	0.000	800.00	5.64	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.100	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70