



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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0032999
 APS ID 12779
 Authorization ID 1468097

Applicant and Facility Information

Applicant Name	<u>PA DCNR</u>	Facility Name	<u>Hickory Run State Park WWTP</u>
Applicant Address	<u>RR 1 Box 81</u> <u>White Haven, PA 18661-9712</u>	Facility Address	<u>3 Family Camp Road</u> <u>White Haven, PA 18661</u>
Applicant Contact	<u>Rex Bradish</u>	Facility Contact	<u>Rex Bradish</u>
Applicant Phone	<u>(570) 443-0400</u>	Facility Phone	<u>(570) 443-0400</u>
Client ID	<u>52524</u>	Site ID	<u>249800</u>
Ch 94 Load Status	<u>N/A</u>	Municipality	<u>Kidder Township</u>
Connection Status	<u>N/A</u>	County	<u>Carbon</u>
Date Application Received	<u>January 8, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 8, 2024</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 up to 0.06 MGD of treated sewage into Hickory Run, a High Quality - Cold Water and Migratory Fish (HQ-CWF, MF) receiving stream in State Water Plan Basin 2-A (Upper Lehigh 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 stream segment is designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Limitations for pH and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Total Dissolved Solids, CBOD₅, Total Suspended Solids (TSS), Ammonia-Nitrogen, Total Phosphorus, and Nitrate-Nitrite as N are water quality-based and carried over from the previous permit. The Dissolved Oxygen BPJ limitation is carried over from the previous permit.

Since the facility currently utilizes ultraviolet radiation for disinfection, the existing monthly average limitation for TRC is removed from the permit. The IMAX limitation of 1.54 mg/L remains in the permit and the minimum monitoring frequency is updated to "Daily When Discharging". The permittee is required to monitor for TRC in the effluent only on days where the permittee utilizes chlorine at the WWTP for backup disinfection, cleaning, or any other purposes (See Part C.I.E.).

The following Part C.I.F. special condition for UV system monitoring is included in this renewal:

The permittee shall report operation of the ultraviolet (UV) disinfection system on a daily basis between May 1 – September 30, and 3/week between October 1 – April 30 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.

WQM 7.0 modeling and the TRC Calculation Spreadsheet (attached) do not recommend more stringent limitations. Since there are no nearby representative stream gages, the state-wide default 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 (see Watershed Information attachment).

Summary of Review

Monitoring/reporting requirements for Total Nitrogen and Total Kjeldahl Nitrogen are carried over from the previous permit. As per current DEP guidance, quarterly monitoring/reporting for E. Coli is added to the permit.

pH and DO have 1/day monitoring/ reporting requirements between May 1 and September 30 and 3/week monitoring/ reporting requirements between October 1 and April 30 (as per previous agreement between DCNR and DEP Central Office).

A Total Maximum Daily Load (TMDL) exists for the Lehigh River Watershed. The TMDL addresses metals (iron, manganese, and aluminum) and depressed pH associated with acid mine drainage (AMD). There are no approved Waste Load Allocations (WLA) for this facility. Since this is a sewage discharge with no industrial contributors, no appreciable quantities of these metals are expected to be present in the effluent.

The latest DRBC Docket No. D-2005-008 CP-3 doesn't include any additional requirements to incorporate into the NPDES permit.

Sludge use and disposal description and location(s): The permit renewal application indicates no sludge was hauled from the WWTP during the previous year.



WQM
Modeling.pdf



TRC Calculation.pdf



Watershed
Information.pdf



2005-008 CP-3.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.	<u>001</u>	Design Flow (MGD)	<u>0.06</u>
Latitude	<u>41° 1' 17"</u>	Longitude	<u>-75° 42' 45"</u>
Quad Name	<u>Hickory Run</u>	Quad Code	<u>1040</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Hickory Run (HQ-CWF, MF)</u>	Stream Code	<u>4205</u>
NHD Com ID	<u>26282249</u>	RMI	<u>1.4</u>
Drainage Area	<u>8.74 mi²</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.874</u>	Q ₇₋₁₀ Basis	<u>State-wide default</u>
Elevation (ft)	<u>1,124</u>	Slope (ft/ft)	<u>0.0162</u>
Watershed No.	<u>2-A</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>Final</u>	Name	<u>Lehigh River TMDL</u>
Nearest Downstream Public Water Supply Intake		<u>Hazleton City Authority</u>	
PWS Waters	<u>Lehigh River</u>	Flow at Intake (cfs)	<u>43</u>
PWS RMI	<u>62.9</u>	Distance from Outfall (mi)	<u>6.42</u>

Treatment Facility Summary				
Treatment Facility Name: Hickory Run State Park WWTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequencing Batch Reactor	Ultraviolet	0.015 (2022)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.06	135	Not Overloaded	Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. 001
Latitude 41° 1' 17"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.06
Longitude -75° 42' 45"

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
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)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
CBOD ₅	18.2	Average Monthly	2004 Pollution Report
	36.4	IMAX	
Total Suspended Solids	21.0	Average Monthly	
	42.0	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	5.7	Average Monthly	
	11.4	IMAX	
Ammonia-Nitrogen May 1 - Oct 31	1.9	Average Monthly	
	3.8	IMAX	
Total Residual Chlorine	1.54	IMAX	
Total Phosphorous	3.0	Average Monthly	
	6.0	IMAX	
Nitrate-Nitrite as N	15.0	Average Monthly	
	30.0	IMAX	
Total Dissolved Solids	1,000	Average Quarterly	

Best Professional Judgment (BPJ) Limitations

Parameter	Limit (mg/l)	SBC
Dissolved Oxygen	5.0	Minimum