

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

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0041912
APS ID 573328
Authorization ID 1275181

Applicant and Facility Information

Applicant Name <u>Deer Haven, LLC</u>	Facility Name <u>Deer Haven WWTP</u>
Applicant Address <u>41 Elm Street</u> <u>Morristown, NJ 07960</u>	Facility Address <u>RT 507</u> <u>Greentown, PA 18426</u>
Applicant Contact <u>Sam Shahar</u>	Facility Contact <u>Sam Shahar</u>
Applicant Phone <u>(973) 610-1661</u>	Facility Phone <u>(973) 610-1661</u>
Client ID <u>237007</u>	Site ID <u>4394</u>
Ch 94 Load Status <u>-</u>	Municipality <u>Palmyra Township</u>
Connection Status <u>-</u>	County <u>Pike</u>
Date Application Received <u>May 30, 2019</u>	EPA Waived? <u>No</u>
Date Application Accepted <u>May 30, 2019</u>	If No, Reason <u>Lake Wallenpaupack TMDL</u>
Purpose of Application <u>Renewal of NPDES permit.</u>	

Summary of Review


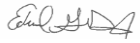
A draft NPDES permit was issued for this facility on June 24, 2019. No comments were received during the 30-day comment period. Numerous open violations prevented issuance of the final permit and another draft permit will be issued.

An order was entered March 7, 2025 by the Pennsylvania Public Utility Commission (PUC) resulting from a joint application by Deer Haven, LLC and PL Utilities, LLC for 1.) the acquisition of certain wastewater system assets by PL Utilities, LLC, 2.) abandonment by Deer Haven, LLC of wastewater service to the public in Palmyra Township, and 3.) authorization of PL Utilities, LLC to offer, render, furnish, or supply wastewater service to the public in a portion of Palmyra Township. A permit transfer / amendment application shall be submitted to PA DEP by PL Utilities upon final acquisition.

Most of the wording below is copied from the previous fact sheet. The latest revised permit template from August 2021 was utilized for this draft permit.

The applicant is requesting renewal of their NPDES permit to discharge up to 0.07 MGD of treated sewage to Lake Wallenpaupack (stream code is 5519 for Wallenpaupack Creek), a high-quality cold water and migratory fish (HQ-CWF, MF) designated receiving water in state water plan basin 01-C (Wallenpaupack Creek). As per the Department's current existing use list, the receiving water does not have an existing use classification that is more protective than its designated use.

The Lake Wallenpaupack TMDL was approved by EPA on 4/9/05, with an addendum approved on 10/9/07. (Note: in the TMDL, the facility is listed as "(White Beauty) Edwin, Inc.") The permit was transferred from Edwin, Inc. to Deer Haven, LLC in July 2005. The Waste Load Allocation table in the TMDL expresses the Total Phosphorus WLA for the facility as both an annual load of 48 kg/yr and a concentration limit of 0.5 mg/L. Like other permits that are part of the TMDL, the limit was originally applied as a concentration limit only. A special condition is carried over from the previous permit, referencing the facility's waste load allocation of 48 kg/yr (106 lb/yr) for TP, and adding a reporting mechanism for monthly and annual loads using the TMDL supplemental report.

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	March 10, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	March 11, 2025

Summary of Review

Effluent limits for CBOD₅, Dissolved Oxygen, Ammonia-Nitrogen and Total Phosphorus are water quality-based and carried over from the previous permit. Effluent limitations for pH, TSS, and Fecal Coliform are technology-based and carried over from the previous permit. WQM modeling did not recommend more stringent limitations for any parameters (see WQM Modeling attachment).

Since this facility discharges directly into Lake Wallenpaupack, a few assumptions were made for the modeling inputs. Using the assumption that 10% of the lake volume is available for dilution and dividing that value by the lake residence time of 231 days (volume and residence time both obtained from TMDL) resulted in a flow of 36.6 cfs (see Watershed Information attachment). 36.6 cfs was added as tributary flow to the first node and the low flow yield (LFY) was set to 0. The second and final node (at the confluence with the Lackawaxen River) utilizes the default LFY of 0.1 cfs/mi² to calculate the flow using the drainage area to that point. For modeling purposes, the first node is located at the Lake Wallenpaupack outlet. RMI values for modeling inputs 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). Note: A specific DEP model to determine CBOD₅, Ammonia-N or DO limitations for direct lake discharges is not currently available.

The TRC limitations have been revised in accordance with technology-based requirements in PA Code 92a.48(b)(2); 0.5 mg/L monthly average and 1.6 mg/L IMAX (see attached TRC calculation spreadsheet). The revised limitations will come into effect one year after the effective date of the permit. Water quality-based limitations were not recommended through water quality modeling. The monitoring frequency for TRC is updated from 1/week to 1/day in accordance with DEP guidance.

Quarterly monitoring and reporting requirements are added to the permit for Total Nitrogen to monitor total nutrient loading values. To calculate Total Nitrogen, quarterly monitoring and reporting requirements are added to the permit for Total Kjeldahl Nitrogen and Nitrate+Nitrite-Nitrogen. As per current DEP guidance, quarterly monitoring and reporting for E. Coli is also added to the permit.

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 (doc. no. 362-0400-001).

DRBC Docket No. D-1974-091 CP-2 requires quarterly monitoring/reporting for Total Dissolved Solids (TDS) and influent CBOD₅ monitoring/reporting at a frequency that's aligned with CBOD₅ effluent monitoring in the NPDES permit. Both requirements are included in this draft permit.

Since this WWTP serves portions of Palmyra Township, the permittee is subject to Chapter 94 reporting requirements (see Part B.I.C.4). The following Part C condition is added to the final permit as a reminder of these requirements:

"The permittee shall comply with the requirements of Chapter 94, Municipal Wasteload Management. The permittee shall submit a complete and accurate Wasteload Management Annual Report to the Department by March 31st of each year via electronic upload. The Report shall contain the information under Section 94.12 of the Department's wasteload management regulations, Title 25, Chapter 94."

Sewage Sludge / Biosolids Production and Disposal supplemental reports indicate solids are hauled away by Environmental Services Corporation for disposal at Wyoming Valley Sanitary Authority's WWTP in Hanover Twp., Luzerne County.

Antibacksliding requirements have been met since no effluent limitations were made less stringent or removed from the permit. An antidegradation analysis was not required since the facility is not increasing its flow. EPA waiver is not in effect.



WQM
Modeling.pdf



TRC Calculation.pdf



Watershed
Information.pdf



1974-091 CP-2.pdf

Summary of Review

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>0.07</u>
Latitude	<u>41° 22' 52"</u>	Longitude	<u>-75° 15' 5"</u>
Quad Name	<u>Lakeville</u>	Quad Code	<u>0743</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Lake Wallenpaupack (HQ-CWF/MF)</u>	Stream Code	<u>5519</u>
NHD Com ID	<u>25944200</u>	RMI	<u>N/A (lake discharge)</u>
Drainage Area	<u>N/A (lake discharge)</u>	Yield (cfs/mi ²)	<u>N/A (lake discharge)</u>
Q ₇₋₁₀ Flow (cfs)	<u>36.6 (see above reasoning)</u>	Q ₇₋₁₀ Basis	<u>0.1 used downstream</u>
Elevation (ft)	<u>1183</u>	Slope (ft/ft)	<u>Default</u>
Watershed No.	<u>1-C</u>	Chapter 93 Class.	<u>0 (lake discharge)</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>HQ-CWF/MF</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>Active</u>	Name	<u>Lake Wallenpaupack TMDL</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>	<u>-</u>	
Temperature (°F)	<u>-</u>	<u>-</u>	
Hardness (mg/L)	<u>-</u>	<u>-</u>	
Other:	<u>-</u>	<u>-</u>	
Nearest Downstream Public Water Supply Intake		<u>Easton Area Water System</u>	
PWS Waters	<u>Delaware River</u>	Flow at Intake (cfs)	<u>1105</u>
PWS RMI	<u>109.8</u>	Distance from Outfall (mi)	<u>~120</u>

Treatment Facility Summary				
Treatment Facility Name: Deer Haven WWTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration / Filtration	Chlorine Contact	0.07
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.07	240	Not Overloaded	Settled	Hauled

Changes Since Last Permit Issuance: Issuance of 5215401 to another entity to replace the existing WWTP. A permit amendment application for 5215401 was received by DEP on 4/12/2022 and is currently pending.

Development of Effluent Limitations

Outfall No. 001
Latitude 41° 22' 52"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.07
Longitude -75° 15' 5"

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
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	-	-
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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
	1.6	IMAX	-	-

Comments: TRC limitations will come into effect 1 year from the permit effective date.

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model / Basis
CBOD ₅	10.0	Average Monthly	Previous permit
	20.0	IMAX	
Ammonia-Nitrogen (5/1 – 10/31)	3.0	Average Monthly	Previous permit
	6.0	IMAX	
Ammonia-Nitrogen (11/1 – 4/30)	9.0	Average Monthly	Previous permit
	18.0	IMAX	
Total Phosphorus	0.5	Average Monthly	Lake Wallenpaupack TMDL
	1.0	IMAX	
Dissolved Oxygen	6.0	Minimum	Previous permit