

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0060542  
APS ID 634733  
Authorization ID 1272444

**Applicant and Facility Information**

|                           |   |                  |   |
|---------------------------|---|------------------|---|
| Applicant Name            | <u>Wallenpaupack Lake Estates</u>                                   | Facility Name    | <u>Wallenpaupack Lake Estates STP</u>                               |
| Applicant Address         | <u>1005 Wallenpaupack Drive</u><br><u>Lake Ariel, PA 18436-8138</u> | Facility Address | <u>Najavd Road</u><br><u>Lake Ariel, PA 18436</u>                   |
| Applicant Contact         | <u>Brian Schan,</u><br><u>Director of Water and Sewer/ Operator</u> | Facility Contact | <u>Brian Schan,</u><br><u>Director of Water and Sewer/ Operator</u> |
| Applicant Phone           | <u>(570) 689-7007</u>   | Facility Phone   | <u>(570) 689-7007</u>   |
| Client ID                 | <u>39495</u>  | Site ID          | <u>450323</u>   |
| Ch 94 Load Status         | <u>Not Overloaded</u>   | Municipality     | <u>Paupack Township</u>   |
| Connection Status         | <u>-</u>  | County           | <u>Wayne</u>  |
| Date Application Received | <u>May 6, 2019</u>  | EPA Waived?      | <u>No</u>   |
| Date Application Accepted | <u>July 12, 2019</u>  | If No, Reason    | <u>Lake Wallenpaupack TMDL</u>                                      |
| Purpose of Application    | <u>Renewal of NPDES permit for discharge of treated sewage.</u>     |                  |   |

**Summary of Review**

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.65 MGD of treated sewage into an Unnamed Tributary to Wallenpaupack Creek, a High-Quality, Cold-Water Fishery, Migratory Fish (HQ-CWF, MF) receiving stream in State Water Plan Basin 1-C (Wallenpaupack 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. 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 CBOD<sub>5</sub>, Total Suspended Solids (TSS), Dissolved Oxygen (DO), Nitrate-Nitrite as N, and Total Phosphorus are water quality-based and carried over from the previous permit.

WQM modeling recommended stricter summertime limitations for Ammonia-Nitrogen (1.4 mg/L monthly average, 2.8 mg/L IMAX). These limitations will come into effect three (3) years after the permit effective date (see Part C.III.). Wintertime monitoring/reporting for Ammonia-Nitrogen has also been updated to three times the new summertime limitations (4.2 mg/L monthly average, 8.4 mg/L IMAX). The limitations for Ammonia-Nitrogen from the previously issued permit will be in effect the first three (3) years of the permit.

The previously issued permit did not contain Total Residual Chlorine (TRC) limitations because the wastewater treatment plant utilizes ultraviolet light for disinfection. In the event the facility uses chlorine for cleaning purposes or as a back-up disinfection option, an IMAX water quality-based limitation of 0.05 mg/L has been added to the permit and is to be sampled "daily when discharging" (see requirements under Part C.I.E). The Total Residual Chlorine (TRC) Calculation Spreadsheet was used to develop this IMAX limitation.

| Approve | Deny | Signatures   | Date            |
|---------|------|--|-----------------|
| X       |      | /s/<br>Allison Seyfried / Environmental Engineering Specialist | August 27, 2019 |
| X       |      | /s/<br>Amy M. Bellanca, P.E. / Environmental Engineer Manager  | August 27, 2019 |

### Summary of Review

The annual monitoring and reporting for Total Nitrogen and Total Kjeldahl Nitrogen has been maintained in this permit.

The Lake Wallenpaupack Total Maximum Daily Load (TMDL) was approved by EPA on April 9, 2005 with a September 2007 addendum. A Waste Load Allocation (WLA) for Total Phosphorus exists for this facility (449 kg/year (989.9 lbs/year)). See requirements under Part C.I.F. The TMDL also addresses Total Suspended Solids (TSS) and Mercury. No targets have been established for TSS, so the technology-based limitations of 30 mg/L average monthly will apply. The TMDL also states that Mercury is assumed to originate outside the boundaries of the watershed because there are no point sources found in the Lake Wallenpaupack watershed. Mercury is a naturally occurring element which enters the atmosphere due to natural events and human activities. Distant and local sources of Mercury air emissions are expected to contribute a significant amount to the Mercury air deposition within the Lake Wallenpaupack watershed. Therefore, Mercury is not included as a parameter in this permit.

For this permit renewal, all monitoring frequencies for parameters with limitations are consistent with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (document no. 362-0400-001).

There are no representative stream gages in the vicinity of the outfall. The state-wide default low flow yield (LFY) of 0.1 cfs/mi<sup>2</sup> 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.

As per the permittee's Sewage Sludge and Biosolids Supplemental Report forms, sludge is hauled to Wyoming Valley Sanitation by Koberline, Inc.

The existing permit expired on May 31, 2019. The original permit application package was received on December 6, 2018; however, the permit application was not accepted until May 6, 2019 due to incompleteness.

A Water Management System Inspection query indicated that January 4, 2018 a Compliance Evaluation was performed.

There are no open violations for this client that warrant withholding issuance of this permit.



Watershed Info -  
Wallenpaupack Lake



WQM -  
Wallpaupack Lake E



TRC\_CALC -  
Wallenpaupack Lake

### 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.  | 001   | Design Flow (MGD)            | 0.65               |
| Latitude   | 41° 23' 26.29"                                    | Longitude                    | -75° 16' 54.88"    |
| Quad Name  | East Greenville                                   | Quad Code                    | 1541               |
| Wastewater Description: Sewage Effluent                  |   |                              |                    |
| Receiving Waters   | Unnamed Tributary to Wallenpaupack Creek (HQ-CWF) | Stream Code                  | 5548               |
| NHD Com ID   | 25930512  | RMI                          | 1.37               |
| Drainage Area  | 0.39 mi <sup>2</sup>                              | Yield (cfs/mi <sup>2</sup> ) | 0.10               |
| Q <sub>7-10</sub> Flow (cfs)                             | 0.039   | Q <sub>7-10</sub> Basis      | State-wide default |
| Elevation (ft)   | 1,290.50  | Slope (ft/ft)                | -                  |
| Watershed No.  | 1-C   | Chapter 93 Class.            | HQ-CWF             |
| 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  | Final   | Name                         | Lake Wallenpaupack |
| Nearest Downstream Public Water Supply Intake            | Easton Area Water System                          |                              |                    |
| PWS Waters   | Delaware River                                    | Flow at Intake (cfs)         | -                  |
| PWS RMI  | 110.4   | Distance from Outfall (mi)   | ~ 121              |

| Treatment Facility Summary                                     |                            |                 |                     |                        |
|--|----------------------------|-----------------|---------------------|------------------------|
| <b>Treatment Facility Name:</b> Wallenpaupack Lake Estates STP |                            |                 |                     |                        |
| Waste Type   | Degree of Treatment        | Process Type    | Disinfection        | Avg Annual Flow (MGD)  |
| Sewage   | Secondary                  | Aeration Basins | Ultraviolet         | 0.205                  |
| Hydraulic Capacity (MGD)                                       | Organic Capacity (lbs/day) | Load Status     | Biosolids Treatment | Biosolids Use/Disposal |
| 0.65   | -                          | Not Overloaded  | Holding Tank        | Hauled                 |

**Development of Effluent Limitations**

**Outfall No.** 001  
**Latitude** 41° 23' 26.26"  
**Wastewater Description:** Sewage Effluent

**Design Flow (MGD)** 0.65  
**Longitude** -75° 16' 54.90"

**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<br>(5/1 – 9/30)  | 200 / 100 ml    | Geo Mean  | -                  | 92a.47(a)(4)     |
| Fecal Coliform<br>(5/1 – 9/30)  | 1,000 / 100 ml  | IMAX      | -                  | 92a.47(a)(4)     |
| Fecal Coliform<br>(10/1 – 4/30) | 2,000 / 100 ml  | Geo Mean  | -                  | 92a.47(a)(5)     |
| Fecal Coliform<br>(10/1 – 4/30) | 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                   |                             |
|------------------------------------|--------------|-------------------------|-------------------------|-----------------------------|
| Ammonia-Nitrogen<br>May 1 - Oct 31 | 1.4<br>2.8   | Average Monthly<br>IMAX | WQM 7.0                 |                             |
| Ammonia-Nitrogen<br>Nov 1 - Apr 30 | 4.2<br>8.4   | Average Monthly<br>IMAX |                         |                             |
| Total Residual Chlorine            | 0.05         | IMAX                    |                         | TRC Calculation Spreadsheet |
| Dissolved Oxygen                   | 7.0          | Minimum                 |                         | Previous Modeling           |
| CBOD <sub>5</sub>                  | 10.0         | Average Monthly         |                         |                             |
|                                    | 20.0         | IMAX                    |                         |                             |
| Total Suspended Solids             | 30.0         | Average Monthly         |                         |                             |
|                                    | 60.0         | IMAX                    |                         |                             |
| Nitrate-Nitrite as N               | 12.0         | Average Monthly         |                         |                             |
|                                    | 24.0         | IMAX                    |                         |                             |
| Total Phosphorus                   | 0.5          | Average Monthly         | Lake Wallenpaupack TMDL |                             |
|                                    | 1.0          | IMAX                    |                         |                             |

**Anti-Backsliding**

No limitations were made less stringent.