



Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

PA0063827

APS ID

825594

Authorization ID

1464245

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Applicant and Facility Information

| | | | |
|---------------------------|---|------------------|--|
| Applicant Name | Pines At West Penn LLC | Facility Name | West Penn Pines MHP |
| Applicant Address | PO Box 677 | Facility Address | West Penn Pines Mhp 14 All Kings Drive |
| | Morgantown, PA 19543 | | New Ringgold, PA 17960 |
| Applicant Contact | James Perano | Facility Contact | Hank Mengel |
| Applicant Phone | (610) 286-0490 | Facility Phone | (570) 386-3121 |
| Client ID | 238476 | Site ID | 487898 |
| Ch 94 Load Status | Not Overloaded | Municipality | West Penn Township |
| Connection Status | No Exceptions Allowed | County | Schuylkill |
| Date Application Received | December 1, 2023 | EPA Waived? | Yes |
| Date Application Accepted | December 1, 2023 | If No, Reason | |
| Purpose of Application | Renewal of NPDES permit to discharge treated sewage effluent. | | |

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.06 MGD of treated sewage into the Lizard Creek, a Cold-Water Fishes, Migratory Fishes (CWF, MF) receiving stream in State Water Plan Basin 2-B (Middle 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. PA Fish and Boat Commission has designated this a Trout Stocking Stream. Trout stocking has taken place in the spring of 2024 downstream of this facility.

The treatment units consists of the following: comminutor with bar screen, equalization tank, aeration tanks (2), clarifier tanks (2), anoxic tanks (2), post-aeration tanks (2), tertiary sand filter (2 cell) sludge holding tank, chlorine contact tanks, mudwell, clearwell and dechlorination tanks. Air for equalization will be supplied by blower rated at 55 cfm. All other process air will be supplied by three (3) 175 CFM blower (2 run, 1 standby). A control building will be constructed to house blower and sanitary facilities. An alarm device will be provided for equalization tank, mudwell and clearwell. The liquid sludge will be removed a certified septic waste hauler and disposed at a permitted facility.

Permittee indicated 3.618 dry tons of sludge is hauled offsite by an independent contractor to Hazelton WWTP for proper disposal.

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. Q₇₋₁₀ that was used for modeling purposes is listed at .24cfs in accordance with estimations from previous permit and DRBC Docket NO. D-1999-025-4.

TRC modeling recommended more stringent limitations for this facility for average monthly calculation (from .5mg/L to .387mg/L). Previous permit was modeled based on 4 samples per month, while this permit is modeled with 30 samples per

| Approve | Deny | Signatures | Date |
|---------|------|---|-----------------|
| X | | William Hon (s) William Hon / Environmental Engineer Specialist | October 9, 2024 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager | 10-16-24 |

Summary of Review

month. This is in accordance with daily monitoring recommendations from Table 6-3 of the Permit Writers Manual. Limit will go into effect in year 3 of this permit.

Limitations for pH and Fecal Coliform are technology based and are carried over from the previous permit. The CBOD₅, TSS, Nitrite-Nitrate, and NH₃-N limits are water quality-based and are carried over from the previous permit. Dissolved Oxygen and E. Coli limitations have been implemented since the last permit was renewed and will be added to this permit. DO is technology based and has been set to a minimum limit of 4.0mg/l based on BPJ. E. Coli is technology based and has been set to report IMAX 1/quarter. E. Coli monitoring requirements is based on size of facility (1/quarter for design flows ≥ 0.05 and < 1 MGD). Raw sewage influent of CBOD₅ will be maintained in this permit.

The Nitrite-Nitrate daily maximum limit was stipulated in a planning approval letter dated April 27, 1998.

DRBC Docket D-1999-025-4 is effective as of June 5, 2024 and will expire on May 31, 2029. The following limitations will go into effect in this permit renewal that will reflect the docket: Total Nitrogen, Total Phosphorus, Total Dissolved Solids, and Total Kjeldahl Nitrogen are Report on a 1/quarter basis.

The previous permit expired on 5/31/2024. The renewal application was received and processed by the DEP on 12/1/2023. Last inspection at this facility was on 9/18/2024 with 0 reported violations. This was a compliance evaluation inspection. There are no open violations that would withhold the issuance of this permit.

Recommend Approval.

Modeling Inputs:

PT 1 @ Outfall

RMI: 1.4

Stream: Lizard Creek, 3856



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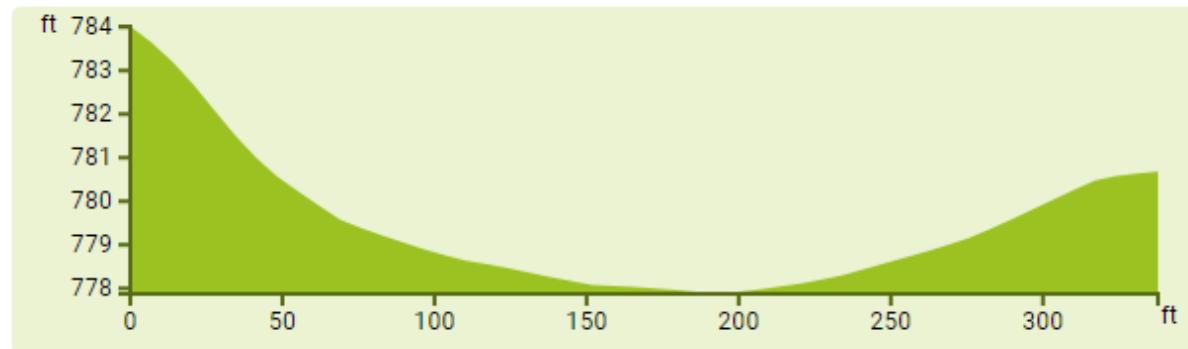
Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| CARBON | Percentage of area of carbonate rock | 0 | percent |
| DRNAREA | Area that drains to a point on a stream | 0.18 | square miles |
| PRECIP | Mean Annual Precipitation | 49 | inches |

Summary of Review

Low-Flow Statistics Flow Report [Low Flow Region 2]

| Statistic | Value | Unit |
|------------------------|--------|--------------------|
| 7 Day 2 Year Low Flow | 0.0518 | ft ³ /s |
| 30 Day 2 Year Low Flow | 0.0682 | ft ³ /s |
| 7 Day 10 Year Low Flow | 0.0227 | ft ³ /s |



PT2: @ conflux with Tributary 3905 to Lizard Creek

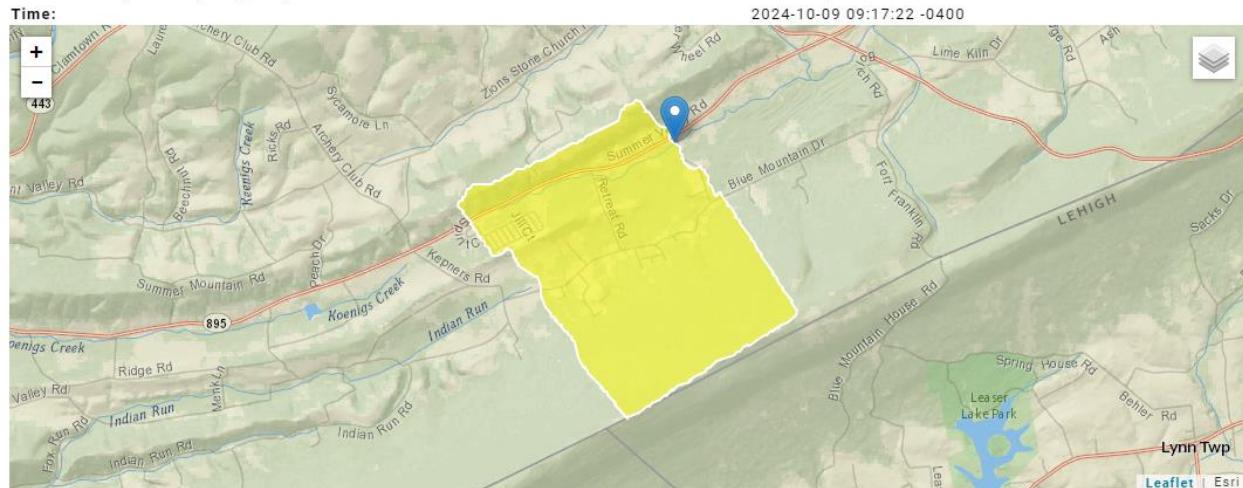
RMI: .01

Clicked Point (Latitude, Longitude):

Time:

40.70896, -75.88154

2024-10-09 09:17:22 -0400



Collapse All

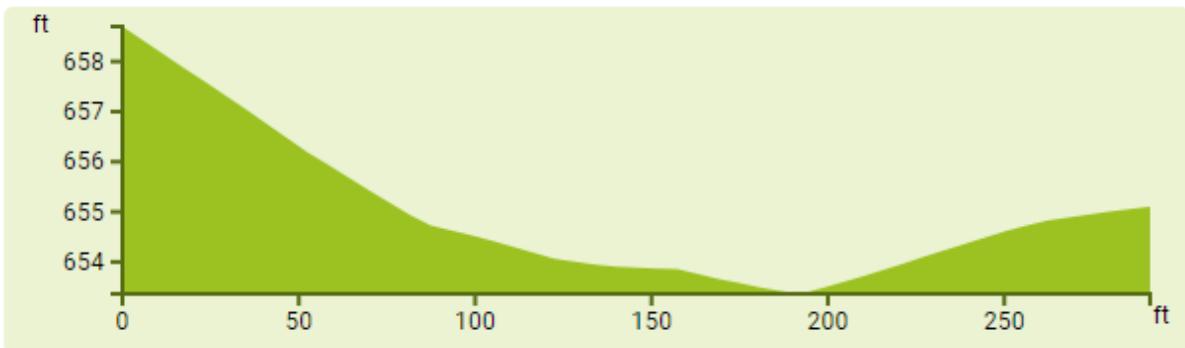
Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| CARBON | Percentage of area of carbonate rock | 4.93 | percent |
| DRNAREA | Area that drains to a point on a stream | 3.25 | square miles |
| PRECIP | Mean Annual Precipitation | 47 | inches |

Summary of Review

Low-Flow Statistics Flow Report [Low Flow Region 2]

| Statistic | Value | Unit |
|------------------------|-------|--------------------|
| 7 Day 2 Year Low Flow | 1.07 | ft ³ /s |
| 30 Day 2 Year Low Flow | 1.35 | ft ³ /s |
| 7 Day 10 Year Low Flow | 0.548 | ft ³ /s |



Analysis Results WQM 7.0

Hydrodynamics NH3-N Allocations D.O. Allocations D.O. Simulation Effluent Limitations

| Permit Number Disc Flow | | | |
|-------------------------|--|-------------------------------------|-------------------------------------|
| RMI | Discharge Name | (mgd) | |
| 1.40 | The Pines | PA0063827 | 0.0600 |
| Parameter | Effluent Limit 30 Day Average (mg/L) | Effluent Limit Maximum (mg/L) | Effluent Limit Minimum (mg/L) |
| CBOD5 | 25 | | |
| NH3-N | 7.94 | 15.88 | |
| Dissolved Oxygen | | | 4 |

Record: 1 of 1 No Filter Search

Print < Back Next > Archive Cancel

Summary of Review

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

| | | | |
|------|--------------------------------|-----|--------------------------------------|
| 0.24 | = Q stream (cfs) | 0.5 | = CV Daily |
| 0.06 | = 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 = 0.844 | 1.3.2.iii | WLA_cfc = 0.815 |
| PENTOXSD TRG | 5.1a | LTAMULT_afc = 0.373 | 5.1c | LTAMULT_cfc = 0.581 |
| PENTOXSD TRG | 5.1b | LTA_afc = 0.314 | 5.1d | LTA_cfc = 0.474 |

| Source | Effluent Limit Calculations | | |
|--------------|-----------------------------|-------------------------------|-----|
| PENTOXSD TRG | 5.1f | AML MULT = 1.231 | |
| PENTOXSD TRG | 5.1g | AVG MON LIMIT (mg/l) = 0.387 | AFC |
| | | INST MAX LIMIT (mg/l) = 1.266 | |

EFFLUENT TABLE C-2: DRBC Parameters Not Included in NPDES Permit

| OUTFALL 001 (UNT Lizard Creek) | | |
|--------------------------------|---------------------|------------|
| PARAMETER | LIMIT | MONITORING |
| Total Dissolved Solids* | 1,000 mg/l * | Quarterly* |
| CBOD ₅ (at 20° C) | 85% Minimum Removal | Monthly |
| Total Nitrogen | Monitor & Report | Quarterly |
| Total Kjeldahl Nitrogen | Monitor & Report | Quarterly |
| Total Phosphorus | Monitor & Report | Quarterly |

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 | | William Hon (s) William Hon / Environmental Engineer Specialist | October 9, 2024 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager | 10-16-24 |