



Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. **PA0255157**
APS ID **1127969**
Authorization ID **1510579**

Applicant, Facility and Project Information

| | | | |
|---------------------------|--|------------------|-----------------------------|
| Applicant Name | <u>Allegheny County Parks Department</u> | Facility Name | <u>Deer Lakes Park</u> |
| Applicant Address | <u>542 Forbes Avenue Suite 107</u> | Facility Address | <u>1090 Bailey Run Road</u> |
| Applicant Contact | <u>Pittsburgh, PA 15219-2906</u> | Facility Contact | <u>Pittsburgh, PA 15076</u> |
| Applicant Phone | <u>Melissa Sweedish</u> | Facility Phone | <u>412-582-9642</u> |
| Client ID | <u>(412) 530-4636</u> | Site ID | <u>562719</u> |
| SIC Code | <u>23985</u> | Municipality | <u>West Deer Township</u> |
| SIC Description | <u>8811</u> | County | <u>Allegheny</u> |
| Date Application Received | <u>Services - Private Households</u> | WQM Required | <u>Yes</u> |
| Date Application Accepted | <u>December 24, 2024</u> | WQM App. No. | <u>January 16, 2025</u> |
| Project Description | <u>NPDES Permit Renewal</u> | | |

Summary of Review

The applicant has applied for a renewal of NPDES Permit No. PA0255157, which was previously issued by the Department on April 1, 2017 and expired on March 31, 2022.

The discharge is to UNT to Little Deer Creek, which is classified as a TSF located in State Watershed 18-A.

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 | | Jordan Coldsmith / Environmental Engineering Specialist | February 25, 2025 |
| X | | Christopher Kriley, P.E. / Environmental Program Manager | March 3, 2025 |

Discharge and Stream Data – 2 - Receiving Waters and PWS

| Discharge, Receiving Waters and Water Supply Information | | | |
|--|--|--------------------------------|-----------------------------|
| Outfall No. | 001 | Design Flow (MGD) | 0.002 |
| Latitude | 40° 37' 6.51" | Longitude | -79° 49' 48.53" |
| Quad Name | | Quad Code | |
| Wastewater Description: | Sewage Effluent | | |
| Receiving Waters | Unnamed Tributary to Little Deer Creek (TSF) | Stream Code | 42298 |
| NHD Com ID | 123972726 | RMI | 0.2000 |
| Drainage Area | 0.62 | Yield (cfs/mi ²) | 0.007 |
| Q ₇₋₁₀ Flow (cfs) | 0.00439 | Q ₇₋₁₀ Basis | USGS Stream Stat |
| Elevation (ft) | 1125 | Slope (ft/ft) | |
| Watershed No. | 18-A | Chapter 93 Class. | TSF |
| 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 | Little Deer Creek Watershed |
| Background/Ambient Data | | Data Source | |
| pH (SU) | | | |
| Temperature (°F) | | | |
| Hardness (mg/L) | | | |
| Other: | | | |
| Nearest Downstream Public Water Supply Intake | | WILKINSBURG-PENN JT WATER AUTH | |
| PWS Waters | Allegheny River (WWF) | Flow at Intake (cfs) | |
| PWS RMI | | Distance from Outfall (mi) | 12.7 |

Changes Since Last Permit Issuance: None

Other Comments: N/A

| Treatment Facility Summary | | | | |
|--|-----------------------------------|---------------------|----------------------------|-------------------------------|
| Treatment Facility Name: Deer Lakes Park SFTF | | | | |
| WQM Permit No. | Issuance Date | | | |
| 0217403 | 02/14/2008 | | | |
| Waste Type | Degree of Treatment | Process Type | Disinfection | Avg Annual Flow (MGD) |
| Sewage | Secondary | Artificial Wetlands | Ultraviolet | 0.002 |
| Hydraulic Capacity (MGD) | Organic Capacity (lbs/day) | Load Status | Biosolids Treatment | Biosolids Use/Disposal |
| 0.002 | 3 | Not Overloaded | Holding Tank | Other WWTP |

Changes Since Last Permit Issuance: None

Other Comments: The Treatment facility currently consists of:

- A 2,000 GPD NEWT (Naturally Engineered Wetlands Treatment) sewage treatment plant
- UV Disinfection

Compliance History

Compliance History

DMR Data for Outfall 001 (from January 1, 2024 to December 31, 2024)

| Parameter | DEC-24 | NOV-24 | OCT-24 | SEP-24 | AUG-24 | JUL-24 | JUN-24 | MAY-24 | APR-24 | MAR-24 | FEB-24 | JAN-24 |
|--|--------|--------|--------|--------|--------------|--------------|---------|--------------|--------|--------|--------|--------|
| Flow (MGD) Average Monthly | | | | | 0.00030 8 | 0.00003 1 | 0.00004 | 0.00009 1 | | | | |
| pH (S.U.) Minimum | | | | | 6.8 | 6.9 | 6.8 | 6.9 | | | | |
| pH (S.U.) Maximum | | | | | 6.8 | 6.9 | 6.8 | 6.9 | | | | |
| BOD5 (mg/L) Average Monthly | | | | | < 2.0 | 6.7 | 4.6 | < 2.0 | | | | |
| TSS (mg/L) Average Monthly | | | | | < 5.0 | < 5.0 | < 5.0 | < 5.0 | | | | |
| Fecal Coliform (No./100 ml) Geometric Mean | | | | | 6 | 7 | < 1 | 8 | | | | |
| Fecal Coliform (No./100 ml) Instantaneous Maximum | | | | | 6 | 7 | < 1 | 8 | | | | |

Development of Effluent Limitations

Outfall No. 001
Latitude 40° 37' 7.30"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.002
Longitude -79° 49' 48.80"

Technology-Based Limitations

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF permits based on the requirements of DEP's "Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application" (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

| Parameter | Avg | IMAX | Sample Type | Frequency: SFTFs | Frequency: SRSTPs |
|-----------------------------|---|----------|---------------------------------------|------------------|-------------------|
| Flow (GPD) | Report | XXX | Estimate (SRSTPs) Measured (SFTFs) | 1/month | 1/year |
| BOD5 (mg/L) | 10 | 20 | Grab | 1/month | 1/year |
| TSS (mg/L) | 10 | 20 | Grab | 1/month | 1/year |
| pH* | 6.0 S.U. Inst. Min. | 9.0 S.U. | Grab | 1/month | 1/year |
| TRC (mg/L) | Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs | | Grab | 1/month | 1/year |
| Fecal Coliform (No./100 ml) | 200 Geometric Mean (SFTFs) / Average (SRSTPs) | | Grab | 1/month | 1/year |

* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

Additional Considerations:

SFTFs/SRSTPs are not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits.

Ultraviolet (UV) disinfection is used, and therefore, Total Residual Chlorine (TRC) limits are not applicable. Current policy does not require SFTFs to monitor for UV Intensity.

The receiving stream is not impaired for nutrients.

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.

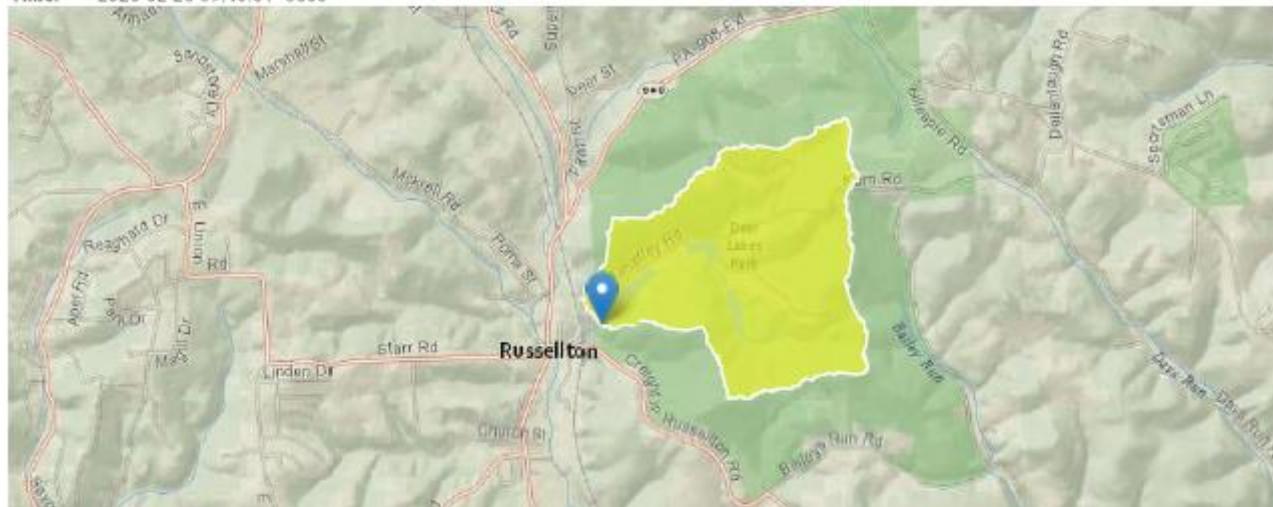
| Parameter | Effluent Limitations | | | | | | Monitoring Requirements | |
|-----------------------------|-------------------------------------|----------------|-----------------------|-----------------|---------|------------------|---|----------------------|
| | Mass Units (lbs/day) ⁽¹⁾ | | Concentrations (mg/L) | | | | Minimum ⁽²⁾ Measurement Frequency | Required Sample Type |
| | Average Monthly | Average Weekly | Minimum | Average Monthly | Maximum | Instant. Maximum | | |
| Flow (MGD) | Report | XXX | XXX | XXX | XXX | XXX | 1/month | Estimate |
| pH (S.U.) | XXX | XXX | 6.0 Inst Min | XXX | XXX | 9.0 | 1/month | Grab |
| BOD5 | XXX | XXX | XXX | 10.0 | XXX | 20 | 1/month | Grab |
| TSS | XXX | XXX | XXX | 10.0 | XXX | 20 | 1/month | Grab |
| Fecal Coliform (No./100 ml) | XXX | XXX | XXX | 200 Geo Mean | XXX | 1000 | 1/month | Grab |

Compliance Sampling Location: Outfall 001

Other Comments: None

StreamStats Report

Region ID: PA
Workspace ID: PA20250226144000262000
Clicked Point (Latitude, Longitude): 40.61853, -79.83018
Time: 2025-02-26 09:40:31 -0500



[Collapse All](#)

► Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.62 | square miles |
| ELEV | Mean Basin Elevation | 1125 | feet |

► Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

| Parameter Code | Parameter Name | Value | Units | Min Limit | Max Limit |
|----------------|----------------------|-------|--------------|-----------|-----------|
| DRNAREA | Drainage Area | 0.62 | square miles | 2.26 | 1400 |
| ELEV | Mean Basin Elevation | 1125 | 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 | 0.0154 | ft^3/s |
| 30 Day 2 Year Low Flow | 0.0303 | ft^3/s |
| 7 Day 10 Year Low Flow | 0.00439 | ft^3/s |
| 30 Day 10 Year Low Flow | 0.0097 | ft^3/s |

| Statistic | Value | Unit |
|--|-------|--------------------|
| 90 Day 10 Year Low Flow | 0.02 | ft ³ /s |
| <i>Low-Flow Statistics Citations</i> | | |
| 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: 4.27.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1