

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0103543
APS ID 1136243
Authorization ID 1525055

Applicant, Facility and Project Information

| | |
|--|--|
| Applicant Name <u>PA Historical & Museum Commission</u> | Facility Name <u>Pithole Museum</u> |
| Applicant Address <u>202 Museum Lane</u> <u>Titusville, PA 16354-7658</u> | Facility Address <u>14118 Pithole Road</u> <u>Pleasantville, PA 16341</u> |
| Applicant Contact <u>Michael Knecht</u> | Facility Contact _____ |
| Applicant Phone <u>(814) 461-0004</u> | Facility Phone <u>(814) 827-2797</u> |
| Client ID <u>95627</u> | Site ID <u>246566</u> |
| SIC Code <u>8412</u> | Municipality <u>Cornplanter Township</u> |
| SIC Description <u>Services - Museums and Art Galleries</u> | County <u>Venango</u> |
| Date Application Received <u>April 8, 2025</u> | WQM Required <u>Previously issued – NSNMI PA0103543</u> |
| Date Application Accepted _____ | WQM App. No. _____ |
| Project Description <u>Renewal application for an Individual NPDES Permit for a Small Flow Treatment Facility (SFTF)</u> | |

Summary of Review

The permittee is requesting reissuance of Individual Permit No. PA103543 which is set to expire on November 30, 2025. The existing discharge serves a historical museum. Due to the lack of public visitation, the site historically has “no flow”.

The existing facility consists of (WQM Permit No. 6169405): Two septic tank in series – one 1,500-gallon, the one 600 gallons; followed by a siphon chamber. The chamber discharges to two sand filter beds, then any effluent from the sand filter beds is piped to a chlorine contact tank with a tablet chlorination system.

Act 14 notifications were submitted and received.

No AMRs were located.

There are no open violations in WMS for the subject Client ID (95627) as of May 15, 2025.

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 | | Carlee Wilson Carlee Wilson / Environmental Engineering Trainee | May 15, 2025 |
| X | | Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager | June 6, 2025 |

Discharge and Stream Data – 2 - Receiving Waters and PWS

| Discharge, Receiving Waters and Water Supply Information | | | |
|--|----------------------------------|----------------------------|------------------|
| Outfall No. | 001 | Design Flow (MGD) | .0017 |
| Latitude | 41° 31' 9.25" | Longitude | -79° 34' 57.60" |
| Quad Name | - | Quad Code | - |
| Wastewater Description: Sewage Effluent | | | |
| Receiving Waters | Pithole Creek (CWF) | Stream Code | 54745 |
| NHD Com ID | 100474729 | RMI | - |
| Drainage Area | 0.000425 (dry), 25.9 (perennial) | Yield (cfs/mi²) | - |
| Q ₇₋₁₀ Flow (cfs) | 0 (dry) 1.3 (perennial) | Q ₇₋₁₀ Basis | USGS StreamStats |
| Elevation (ft) | - | Slope (ft/ft) | - |
| Watershed No. | 16-E | Chapter 93 Class. | 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 | - | Name | - |
| Background/Ambient Data | | Data Source | |
| pH (SU) | - | | - |
| Temperature (°F) | - | | - |
| Hardness (mg/L) | - | | - |
| Other: | - | | - |
| Nearest Downstream Public Water Supply Intake | - | | |
| PWS Waters | - | Flow at Intake (cfs) | - |
| PWS RMI | - | Distance from Outfall (mi) | - |

Changes Since Last Permit Issuance: N/A

Other Comments:

This SFTF was designed where applicable in accordance with the SFTF Manual, but it does not qualify for coverage under the PAG-04 General Permit due to the use of septic tanks that are not considered proprietary technology with a sand filter.

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" (362-0400-001), SOPs and/or BPJ.

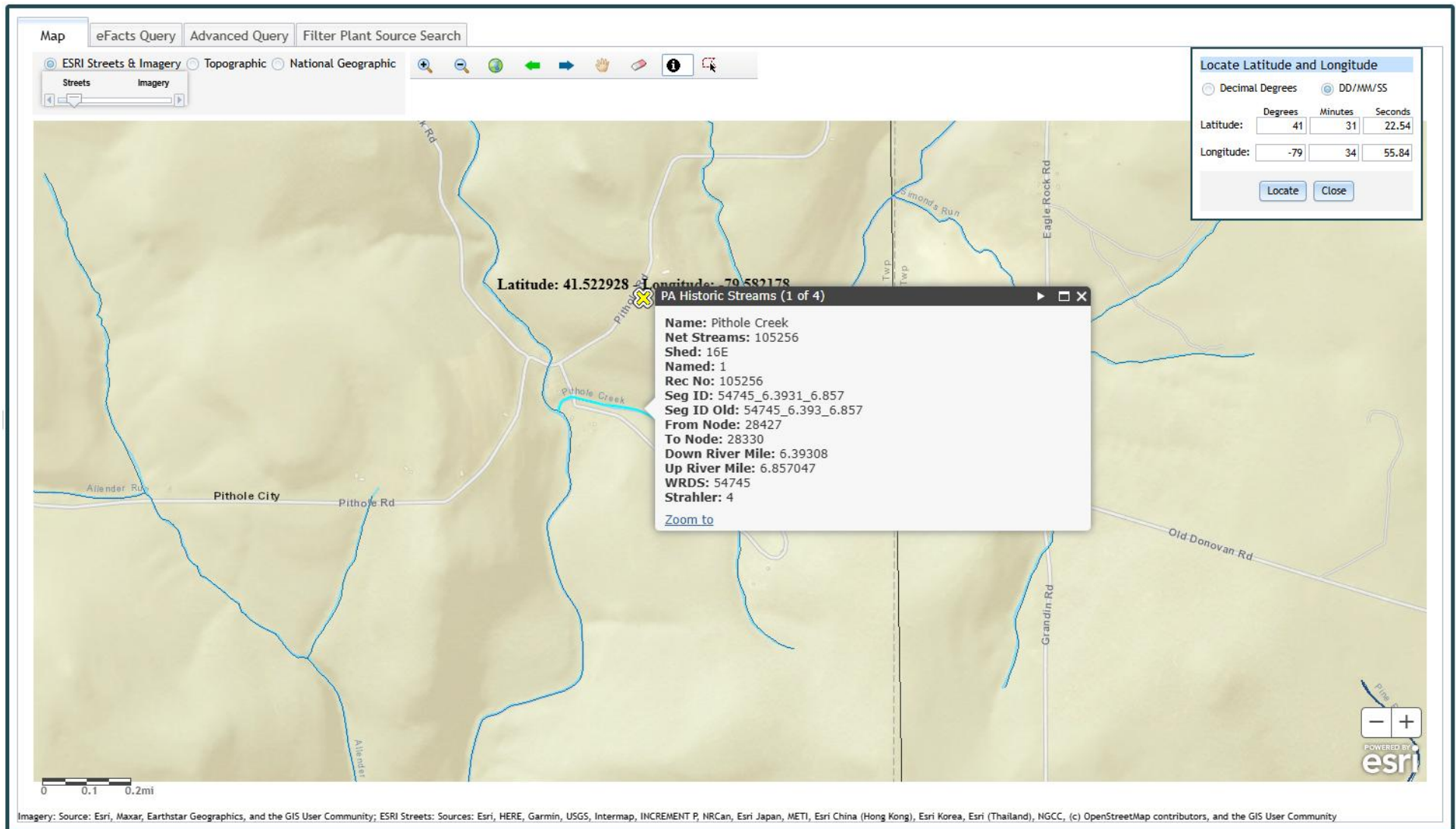
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

| 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 | Semi-Annual Average | Maximum | Instant. Maximum | | |
| Flow (GPD) | Report SEMI AVG | XXX | XXX | XXX | XXX | XXX | 1/6 months | Measured |
| pH (S.U.) | XXX | XXX | 6.0 Inst Min | XXX | XXX | 9.0 | 1/month | Grab |
| TRC | XXX | XXX | XXX | 0.5 Avg Mo | XXX | 1.2 | 1/month | Grab |
| BOD5 | XXX | XXX | XXX | 10.0 | XXX | 20.0 | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | 10.0 | XXX | 20.0 | 1/6 months | Grab |
| Fecal Coliform (No./100 ml) | XXX | XXX | XXX | 200 | XXX | XXX | 1/6 months | Grab |

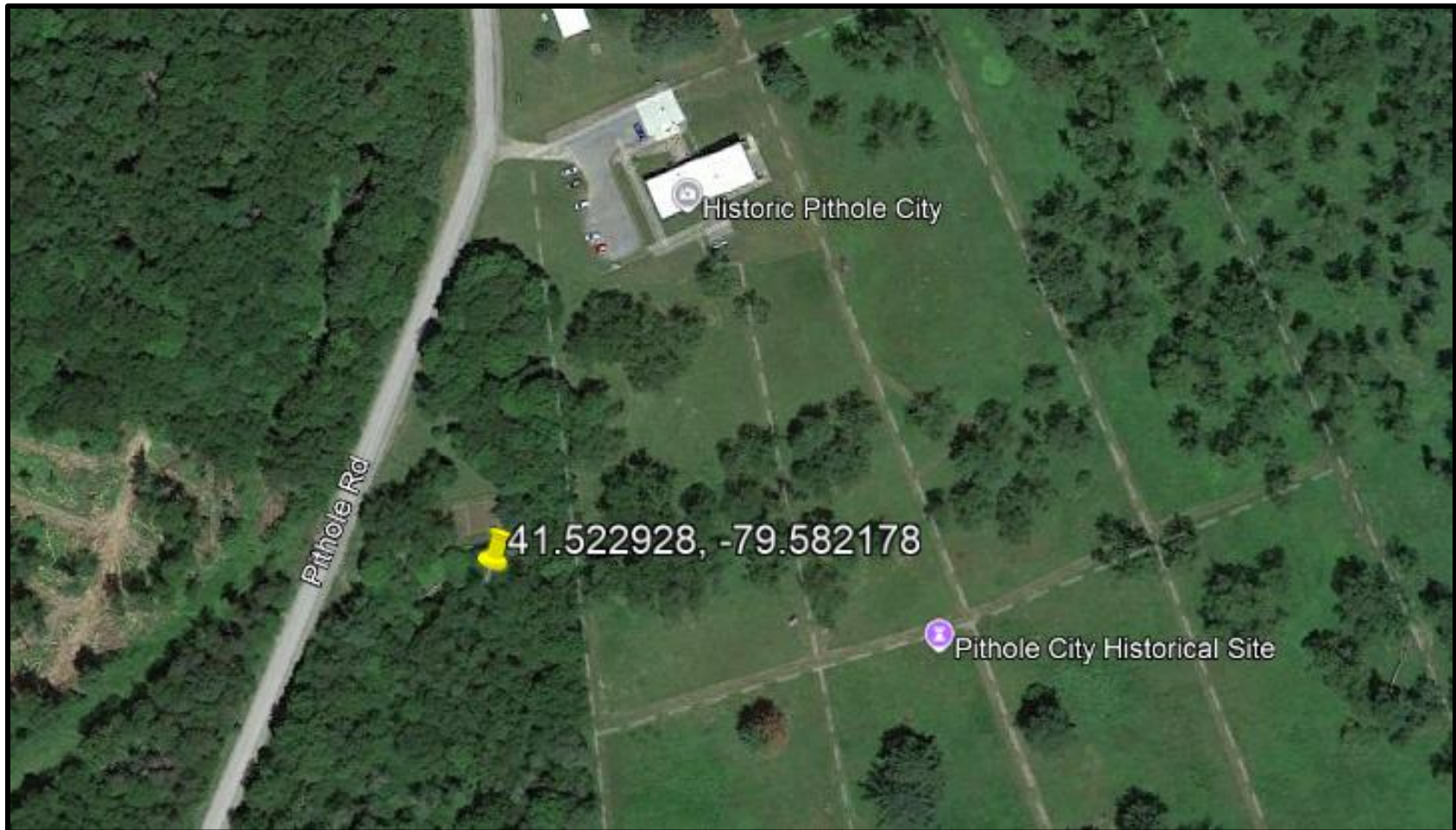
Compliance Sampling Location: Outfall 001 – after disinfection

Other Comments: In accordance with the SOP monitoring frequencies for Flow, BOD5, TSS, and Fecal Coliform will stay 1/6months since the facility is well-maintained and was built before the SOP "Individual NPDES Small flow Sewage Treatment Facility Applications" was published. TRC limits remain the same as shown in the TRC Spreadsheet below.

Attachment 1
eMapPA – Receiving Stream Location and Data



Attachment 2
Google Earth – Aerial Site View



Attachment 3
TRC Spreadsheet

| TRC EVALUATION | | | | |
|----------------|--------------------------------|-------------------------------|--------------------------------------|-----------------------------|
| 1.3 | = Q stream (cfs) | 0.5 | = CV Daily | |
| 0.0017 | = Q discharge (MGD) | 0.5 | = CV Hourly | |
| 4 | = 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) | |
| | = % Factor of Safety (FOS) | | =Decay Coefficient (K) | |
| Source | Reference | AFC Calculations | | Reference CFC Calculations |
| TRC | 1.3.2.iii | WLA afc = 157.706 | | 1.3.2.iii WLA cfc = 153.743 |
| PENTOXSD TRG | 5.1a | LTAMULT afc = 0.373 | | 5.1c LTAMULT cfc = 0.581 |
| PENTOXSD TRG | 5.1b | LTA_afc= 58.765 | | 5.1d LTA_cfc = 89.379 |
| Source | Effluent Limit Calculations | | | |
| PENTOXSD TRG | 5.1f | AML MULT = 1.720 | | |
| PENTOXSD TRG | 5.1g | AVG MON LIMIT (mg/l) = 0.500 | | BAT/BPJ |
| | | INST MAX LIMIT (mg/l) = 1.170 | | |