

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0255149 A-2  
APS ID 919744  
Authorization ID 1455953

**Applicant, Facility and Project Information**

Applicant Name	<u>Ian L Semple</u>	Facility Name	<u>Semple Properties SRSTP</u>
Applicant Address	<u>2436 Henry Road</u> <u>Sewickley, PA 15143-9151</u>	Facility Address	<u>2436 Henry Road</u> <u>Sewickley, PA 15143-9151</u>
Applicant Contact	<u>Ian Semple</u>	Facility Contact	<u>Same as Applicant</u>
Applicant Phone	<u>(412) 715-2073</u>	Facility Phone	<u>Same as Applicant</u>
Client ID	<u>379961</u>	Site ID	<u>817072</u>
SIC Code	<u>8811</u>	Municipality	<u>Bell Acres Borough</u>
SIC Description	<u>Private Households</u>	County	<u>Allegheny</u>
Date Application Received	<u>February 1, 2023</u>	WQM Required	<u>Yes, transfer application</u>
Date Application Accepted	<u>September 26, 2023</u>	WQM App. No.	<u>0216405 T-2</u>
Purpose of Application	<u>Application for a renewal NPDES permit to discharge a treated Sewage from a SRSTP.</u>		

**Summary of Review**

The applicant has applied for a renewal of NPDES Permit No. PA0255149 A-1, this permit was previously issued by the PA Department of Environmental Protection (DEP) on April 5, 2017, the Department already received a transfer application by the applicant and it's under review. Both Permits will be issued concurrently by the Department.

The NPDES permit expired on January 31, 2022, both applications were received on February 1<sup>st</sup>, 2023 therefore, the renewal application considered late.



WQM No. 0216405 T-1 was issued by the Department concurrently on April 5, 2017 under the existing permittee name (Susan R Sour).

WQM Permit No. 0216405 was issued on January 26, 2017 and authorized construction of the sewage treatment facility with a hydraulic design capacity of 0.0004 MGD.

The existing SRSTP consists of the following: Solids Settling tank, Norweco Singulair model 960 Aerobic unit, A Norweco Bio Film Reactor filter, A Salcor Inc. Model 3G UV Disinfection Unit, Contact tank/ sampling tank, and an Outfall pipe. Received application doesn't proposing any changes to the existing treatment facility.

The discharge is to an existing 8" DI pipe on the owner's property, which is used to drain an existing spring that flows to an UNT of Rippling Run and is classified as a TSF located in PA State Watershed No. 20G.

The facility is not registered for eDMR reporting. DEP's current policy does not require eDMR to be used for SRSTP.

Approve	Deny	Signatures	Date
X		 Hazim Aldalli / Environmental Engineering Specialist	December 28, 2023
X		 Christopher Kriley, P.E. / Program Manager	December 28, 2023

### Summary of Review

There are no open violations or DMRs exceedances by Operation's Compliance Report (see page 4). ACHD inspection report on May 18, 2023 noted that this facility is not working properly due to solids were passing the bio filter and all the sample results were exceeding current permit limits. The permit writer recommending that Operations and ACHD do a joint inspection to investigate this matter.

A proper evidence of the Act – 14 PL 834 Municipal Notification was provided by the applicant on December 7, 2023. No comments were received.

#### 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>0.0004</u>
Latitude	<u>40° 35' 24"</u>	Longitude	<u>-80° 8' 18"</u>
Quad Name	<u>Ambridge</u>	Quad Code	<u>40080E2</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of Rippling Run (TSF)</u>	Stream Code	<u>36624</u>
NHD Com ID	<u>99681574</u>	RMI	<u>0.40</u>
Drainage Area	<u>0.075</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.0043</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.000326</u>	Q <sub>7-10</sub> Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1133</u>	Slope (ft/ft)	<u>0.005</u>
Watershed No.	<u>20-G</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u>None.</u>	Exceptions to Criteria	<u>None.</u>
Assessment Status	<u>Attaining Use(s):Aquatic Life, Fishing</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></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>DUQUESNE LIGHT CO-PHILLIPS P S</u>		
PWS Waters	<u>Ohio River</u>	Flow at Intake (cfs)	<u>4730</u>
PWS RMI	<u>25.6</u>	Distance from Outfall (mi)	<u>&gt;9.0</u>

Changes Since Last Permit Issuance:

- Q7-10 flow, elevation, drainage area, and low flow yield were all updated to match USGS Stream Stats new data (see page 7).

Other Comments: None.

## Operations Compliance Check Summary Report

**Facility:** Semple Properties SRSTP

**NPDES Permit No.:** PA0255149 A-2

**Compliance Review Period:** 11/2018 – 11/2023

**Inspection Summary:**

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC	UPDATE DATE
<a href="#">3564092</a>	05/18/2023	Compliance Evaluation	County Health Dept	Violation(s) Noted	06/21/2023

**Violation Summary:**

VIOL ID	VIOLATION DATE	VIOLATION TYPE DESC	RESOLVED DATE	INSP ID
997287	05/18/2023	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	06/14/2023	3564092
997288	05/18/2023	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	06/14/2023	3564092
998385	05/18/2023	NPDES - Violation of effluent limits in Part A of permit	06/14/2023	3564092

**Open Violations by Client ID:**

No open violation for client ID #33314

**Enforcement Summary:**

ENF ID	ENF TYPE	ENF CREATION DATE	ENF FINALSTATUS	ENF CLOSED DATE
416959	NOV	06/21/2023	Administrative Close Out	06/14/2023

**DMR Violation Summary:**

No DMR exceedances

**Compliance Status:**

Permittee in compliance

**Completed by:** John Murphy

**Completed date:** 11/3/2023

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>0.0004</u>
<b>Latitude</b> <u>40° 35' 24.00"</u>	<b>Longitude</b> <u>-80° 8' 18.00"</u>
<b>Wastewater Description:</b> <u>Treated Sewage Effluent</u>	

**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).

\*\* Use the Geometric Mean if the Sampling Frequency is at least 1/month. Use Annual Average, Semi-Annual Average or Quarterly Average if the Sampling Frequency is less than 1/month.

**Additional Considerations:**

BOD<sub>5</sub>, TSS, and Fecal Coliform limitations were imposed based upon the Department's SOP – New and Reissuance Individual SRSTP NPDES Permits.

Technology-based effluent limits for pH will be imposed based upon State Regulation 95.2(1).

BOD<sub>5</sub> limitations were imposed instead of CBOD<sub>5</sub> which reflect the most stringent limitation amongst the Technology-Based Effluent Limitations and based upon the Department's SOP – *New and Reissuance Individual SRSTP NPDES Permits*, and per DEP's *Small Flow Treatment Facilities Manual* (Nov. 2003).

Per DEP's SOP No. BCW-PMT-003 on page 8 "For SFTFs / SRSTPs with UV systems, it is not necessary to require UV intensity or transmittance monitoring in the permit." Part C150 for UV cleaning and maintenance will be included in the renewal permit.

According to SOP No. BCW-PMT-003 revised on May 17, 2019, effluent limits and monitoring requirements are established on page 6 of this fact sheet. Sampling frequency for all parameters is 1/year which is consistent with the Department's SOP - *New and Reissuance of SFTF Individual NPDES Permit Applications* and Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations.

Sewage discharges with design flows < 2,000 gpd do not require monitoring for Total Nitrogen and Total Phosphorus in new and reissued permits.

**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.

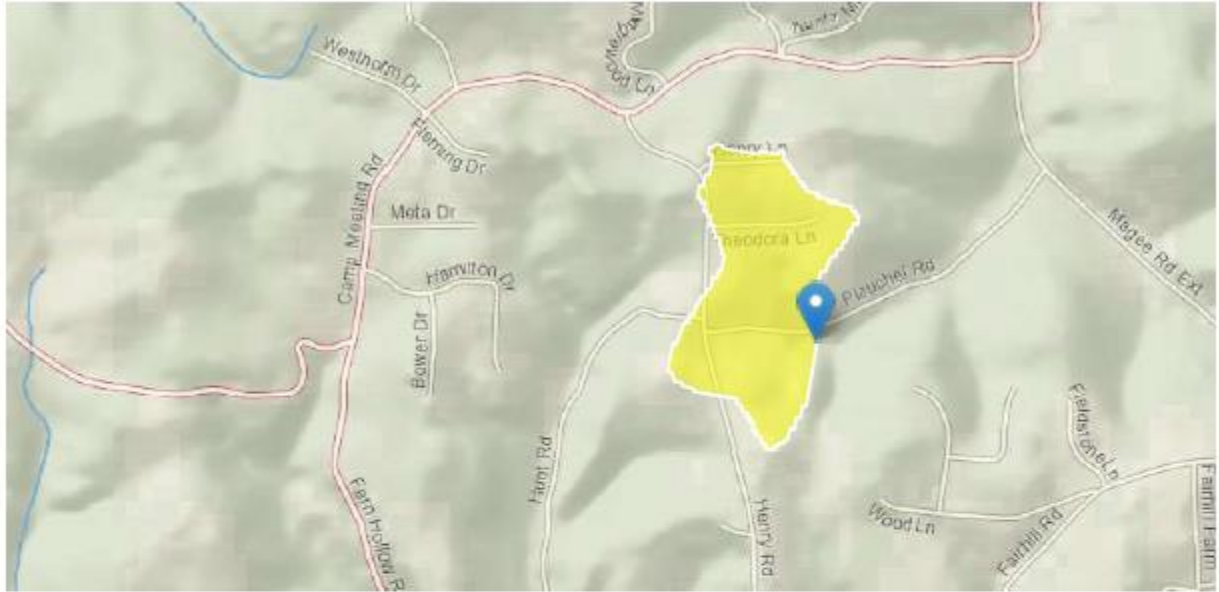
**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

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

Compliance Sampling Location: at Outfall 001.

## StreamStats Report

Region ID: PA  
 Workspace ID: PA20231211193941575000  
 Clicked Point (Latitude, Longitude): 40.59013, -80.13561  
 Time: 2023-12-11 14:40:02 -0500



Collapse All

### > Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.075	square miles
ELEV	Mean Basin Elevation	1133	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	0.075	square miles	2.26	1400
ELEV	Mean Basin Elevation	1133	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	0.0014	ft <sup>3</sup> /s
30 Day 2 Year Low Flow	0.00304	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.000326	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.000844	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.00193	ft <sup>3</sup> /s

*Low-Flow Statistics Citations*

**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/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.19.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.3.2