

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0086550  
APS ID 506551  
Authorization ID 1514211

**Applicant, Facility and Project Information**

Applicant Name	<u>Jeffrey &amp; Rose Siddens</u>	Facility Name	<u>18 Michael Lane SRSTP</u>
Applicant Address	<u>65 Stonewall Lane</u> <u>Alburtis, PA 18011-2608</u>	Facility Address	<u>18 Michael Lane</u> <u>Alburtis, PA 18011-2610</u>
Applicant Contact	<u>Jeffrey &amp; Rose Siddens</u> <u>(610) 641-8957 /</u> <u>lonewolfsiddens1@windstream.net</u>	Facility Contact	<u>Jeffrey &amp; Rose Siddens</u>
Applicant Phone	<u>216708</u>	Facility Phone	<u>(484) 866-5476</u>
Client ID	<u>8811</u>	Site ID	<u>665</u>
SIC Code	<u>Services - Private Households</u>	Municipality	<u>Longswamp Township</u>
SIC Description	<u>January 27, 2025</u>	County	<u>Berks</u>
Date Application Received	<u>August 11, 2025</u>	WQM Required	<u>(WQM 0694420, issued)</u>
Date Application Accepted	<u>(after receipt of recent AMR)</u>	WQM App. No.	<u></u>
Project Description	<u>Renewal of existing permit</u>		

**Summary of Review**

The existing permit was issued December 16, 2020 with an expiration date of December 31, 2025. The permit was administratively extended past the December 31, 2025 date. AMRs have been submitted and reviewed. Pumping records were provided with the renewal application. The current owners have held the NPDES and WQM permits since February 2004.

The facility is not eligible for DEP's general permit for Small Flow Treatment Facilities (SFTFs), known as the PAG-04, because it discharges to a waterway designated as "High Quality (HQ)".

**Background:**

The 1994 Protection Report (PR) explaining the development of the first NPDES permit states that it was a new sewage system to replace a malfunctioning on-lot such that a "Social or Economic Justification" report was not necessary, consistent with 25 PA Code Chapter 93.4c(c). A DEP soil scientist visited the property during the project's planning and confirmed that the depth to water table did not allow for spray irrigation as a non-discharge alternative for sewage disposal, again per the 1994 PR. The 1994 PR states that the **CBOD5, TSS, and Ammonia (NH3)** limits imposed in the permit were BAT (Best Achievable Technology) from the Special Protection Waters Implementation Handbook, Appendix I.

Modeling was performed in 1994 for the NPDES permit. The source of some of the background concentrations was noted to be Water Quality Network Station (WQN) 178. The modeling indicated that Water Quality Based Effluent Limitations (WQBELs) for this facility were not more stringent than the Technology-Based Effluent Limits (TBELs) that were imposed as permit limits.

Approve	Deny	Signatures	Date
x		<i>Bonnie Boylan</i> Bonnie Boylan / Environmental Engineering Specialist	February 24, 2026
x		<i>Maria D. Bebenek for</i> Daniel W. Martin, P.E. / Environmental Engineer Manager	February 25, 2026
x		<i>Maria D. Bebenek</i> Maria D. Bebenek, P.E. / Environmental Program Manager	February 25, 2026

According to the Fact Sheet associated with the 2014 NPDES permit renewal:

Chlorine tablets are used for disinfection at this facility. Because it is a SRSTP [Single Residence Sewage Treatment Plant] with an Annual Maintenance Report (AMR) and has been in place for many years prior to the DEP's Standard Operating Procedure (SOP) for Small Flow Treatment Facilities, a test kit to measure **Total Residual Chlorine (TRC)** has been allowed rather than lab analysis. The existing permit includes a permit limit for TRC of "Non-detect" with no minimum detection limit or analysis method specified in the permit. The AMRs submitted have consistently indicated TRC levels at 0 mg/l.

The existing permit limits for **pH** and **Fecal Coliform** are regulatory standards [25 Pa Code Chapter 92a.47]. The existing permit limits have been carried forward.

DEP's Water Quality Antidegradation Implementation Guidance (386-2000-013) requires the more stringent of ABACT (Antidegradation Best Available Combination of Technologies) or treatment technology that will achieve Water Quality Based Effluent Limitations (WQBELs).

For this draft renewal permit, modeling with DEP's WQM 7.0 model was conducted to ensure that updated WQBELs are not more stringent than the existing permit limits for **CBOD5, TSS, and Ammonia**. For model input values, the last 10 years of data from Water Quality Network (WQN) station 0178 were downloaded from the Water Quality Portal (<https://www.waterqualitydata.us/>) to estimate background concentration for Ammonia and stream Temperature and stream pH. (See the attached.) Only data collected during July through September were used because those are the months that correspond to the Q7-10 stream low-flow period, the design flow from which any other stream flows in the WQM 7.0 model are derived. [DEP Technical Guidance Documents 386-2000-016 and 386-2000-003]. WQN 0178 is the closest such monitoring station, located on an Exceptional Value (EV) water approximately 9 miles away from this location. It is the same station that was selected by DEP Water Quality staff as appropriate for the antidegradation analysis in 1994. The River Mile Indices, stream codes, and elevations used in the model were sourced from DEP's eMapPA. The Drainage Areas, estimated Q7-10 stream low-flow, and Low-Flow Yield model input values were sourced from USGS / PA Stream Stats (<https://streamstats.usgs.gov/ss/>.) See the attached. Default values were used in the WQM 7.0 model for discharge temperature, discharge pH, and fate coefficients. The model results (attached) indicate that WQBELs are not more stringent than the existing permit limits for CBOD5, TSS, and Ammonia. These existing permit limits will be carried forward.

DEP's Water Quality Antidegradation Implementation Guidance (386-2000-013) states: "Disinfection should be accomplished using a method that leaves no detectable residual. Disinfection using ultra-violet light or other non-chlorine based systems is encouraged and must be considered." However, this facility was approved by DEP in 1994 with **chlorine disinfection and dechlorination**. That treatment was then installed and is still in use.

DEP's SOP 'New and Reissuance SFTF Individual NPDES Permit Applications' recommends a TRC limit of 0.02 mg/l for SFTFs instead of "non-detect", however, it does not recommend the same for SRSTPs. The SOP does not require that the TRC spreadsheet be used for SRSTPs. It states: "... the "TRC Spreadsheet" will be used to determine TRC limits for *nonSRSTPs*, unless UV disinfection is used or proposed."

The existing permit's limits (and previous permits' limits) for **TRC** are "non-detect". These limits have been carried forward. However, if there is an upgrade to the treatment system in the future or if it is replaced, the permittee may be required to use UV disinfection or install treatment adequate to achieve 0.02 mg/l TRC.

DEP's Water Quality Antidegradation Implementation Guidance (386-2000-013) does not require limits on **Total Phosphorus**; instead it says "as needed". A Phosphorus limit is not included in the ABACT limits for HQ water. The parameters used to qualify as an HQ water, per Chapter 93.4b(a), do not include Phosphorus. State regulations only require Phosphorus limits when the receiving water is threatened [Chapter 96.5(c)]:

"When it is determined that the discharge of phosphorus, alone or in combination with the discharge of other pollutants, contributes or threatens to impair existing or designated uses in a free flowing surface water, phosphorus discharges from point source discharges shall be limited to an average monthly concentration of 2 mg/l. More stringent controls on point source discharges may be imposed, or may be otherwise adjusted as a result of a TMDL which has been developed."

The receiving stream in this case and the downstream waterway have not been assessed as impaired for Phosphorus and there is no TMDL. The monitoring requirement for Total Phosphorus has been eliminated.

Anti-backsliding:

No limits have been made less stringent.

Monitoring frequencies:

The existing permit's minimum monitoring frequencies have been carried forward with the exception of **pH** (and Total Phosphorus, as already discussed). The minimum monitoring frequency for pH has been reduced from once per month to twice per year for the following reasons: (1) in recognition that the measurement is more accurate in the field whereas homeowners do not typically have a pH meter to take field measurements and it would be expensive to hire a consultant to visit the site monthly to measure pH; and (2) the AMRs have not shown the pH to be outside of the permit limits range. (Nor does DEP's SOP 'New and Reissuance SFTF Individual NPDES Permit Applications', revised November 9, 2023, require once per month pH reporting for SRSTPs.)

Delaware River Basin Commission (DRBC)

This facility discharges to a waterway within the Delaware River watershed. The fact sheet and draft permit will therefore be forwarded to the Delaware River Basin Commission (DRBC) in accordance with State regulations and an interagency agreement. Any comments by the DRBC will be considered.

Note: The Swabia Creek is designated by the DRBC as a "Special Protection Water (SPW)", but because the facility discharges less than 10,000 gpd, it is not a DRBC "reviewable project".

Unresolved Violations

There are no open violations for this client according to DEP's Client History Summary Report.  
There are no unpaid Chapter 92a annual fees according to DEP's Chapter 92a/NOI Annual Fees Unpaid report.

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° 29' 23.28"</u>	Longitude	<u>-75° 36' 36.76"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Swabia Creek (HQ-CWF)</u>	Stream Code	<u>3590</u>
NHD Com ID	<u>26297099</u>	RMI	<u>0.4</u>
Drainage Area	<u>1.14</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.08, rounded to 0.1</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.0911, rounded to 0.1</u>	Q <sub>7-10</sub> Basis	<u><a href="https://streamstats.usgs.gov/ss/">StreamStats</a> <a href="https://streamstats.usgs.gov/ss/">https://streamstats.usgs.gov/ss/</a></u>
Elevation (ft)	<u>515' approx.</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>2-C</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Impaired for Recreational Use (Assessment 16903)</u>		
Cause(s) of Impairment	<u>Pathogens</u>		
Source(s) of Impairment	<u>Source Unknown</u>		
TMDL Status	<u>None</u>	Name	<u></u>
Secondary Waters:			
-UNT empties into Swabia Creek (HQ-CWF) at RMI 6, a Trout Natural Reproduction water;			
-Swabia Creek empties into Little Lehigh Creek (HQ-CWF) at RMI 11.7, a Trout Natural Reproduction water.			
- Little Lehigh Creek enters Lehigh river at 16.1 RMI which empties into the Delaware River			
Background/Ambient Data		Data Source:	
pH (SU)	<u>7.7</u>	<u>WQN 178, Pine Creek, EV, 9 miles away, 2015-2025</u>	
Temperature (°F)	<u>20.1</u>	<u>WQN 178, Pine Creek, EV, 9 miles away, 2015-2025</u>	
Hardness (mg/L)	<u></u>	<u></u>	
Other:	<u>0.02 mg/l Ammonia</u>	<u></u>	
Nearest Downstream Public Water Supply Intake	<u>None nearby</u>		

Other Comments:

UNT Swabia Creek is **not** a Class A Trout Water, and is **not** a Trout Natural Reproduction water

<b>Compliance History</b>	
<b>Summary of Inspections:</b>	8/28/2025 – No violations. Effluent was clear. Upstream and Downstream of outfall was observed to be clear.  2/10/2021 – Administrative Inspection. No violations.

**EXISTING PERMIT LIMITS: (issued 2020)**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Annual Average	Average Weekly	Instant. Minimum	Annual Average	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	2/year	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/month	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	Non-detect Monthly Avg.	XXX	Non-detect	1/month	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	XXX	XXX	XXX	10.0	XXX	20.0	2/year *	Grab
Total Suspended Solids (TSS)	XXX	XXX	XXX	10.0	XXX	20.0	2/year *	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	2/year *	Grab
Ammonia - Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	4.5	XXX	9.0	1/year	Grab
Ammonia - Nitrogen May 1 - Oct 31	XXX	XXX	XXX	1.5	XXX	3.0	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	Report	2/year *	Grab

\*The twice per year samples must be spaced during the year with one sample collected during the months of May-Oct and one sample collected during Nov-April

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
at discharge from the facility

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**Proposed Effluent Limitations and Monitoring Requirements**

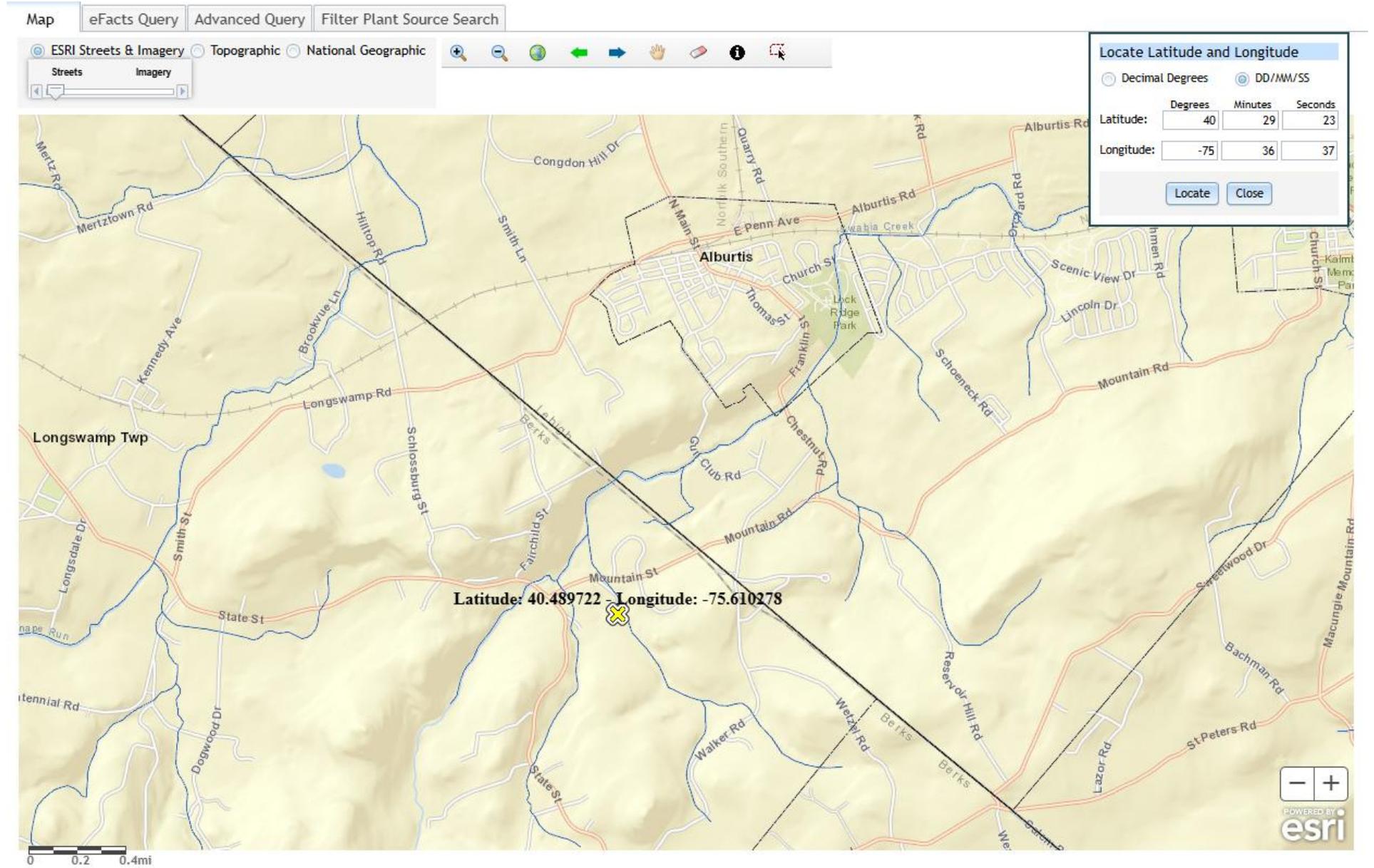
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality as needed and BPJ. Instantaneous Maximum (IMAX) limits are generally determined using multipliers of 2 (conventional pollutants) 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.**

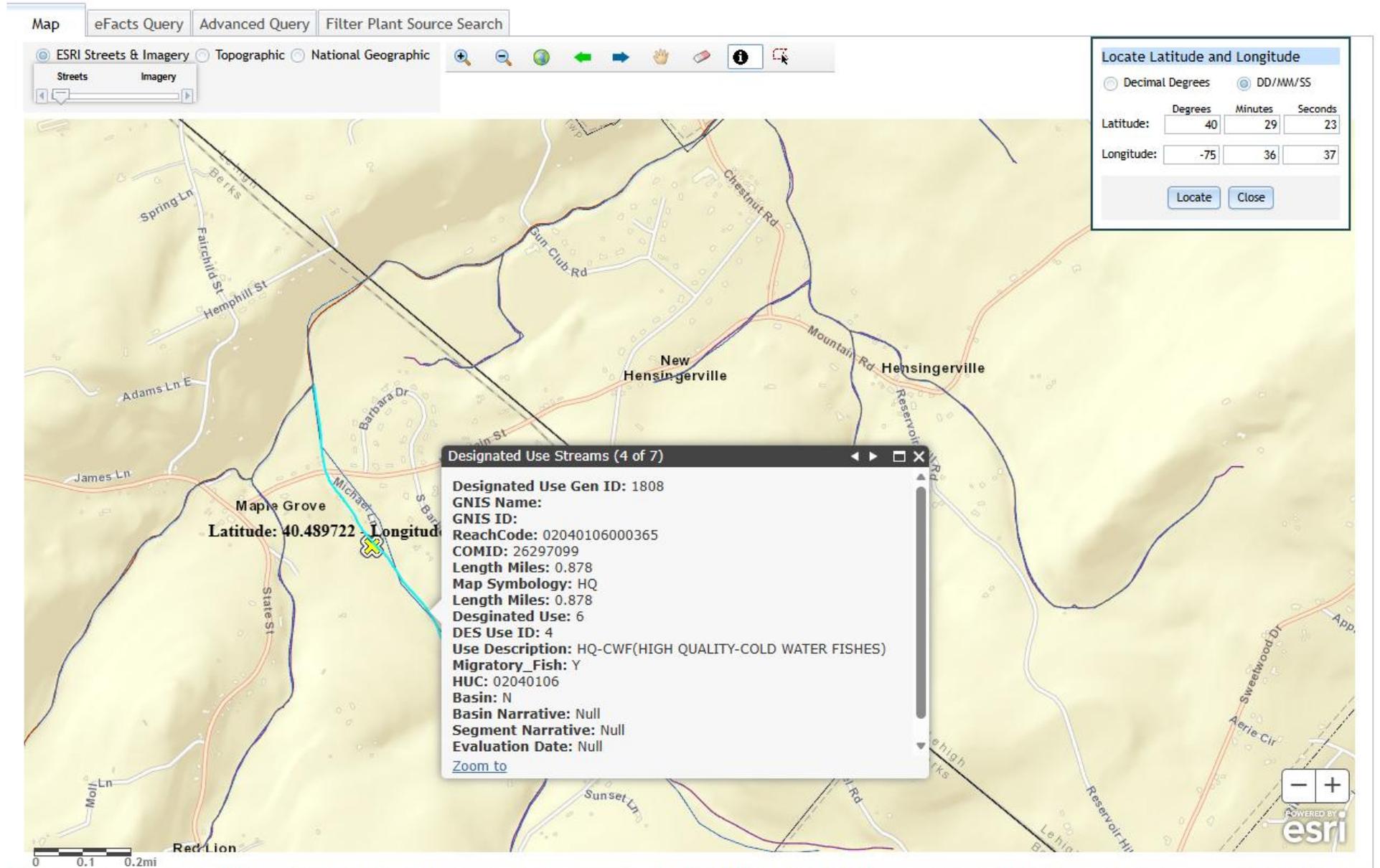
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Annual Average	Average Weekly	Instant. Minimum	Annual Average	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	2/year	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	2/year*	Grab
TRC	XXX	XXX	XXX	Non-detect (Monthly Avg.)	XXX	Non-detect	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	2/year*	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	2/year*	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	2/year*	Grab
Ammonia Nov 1 – Apr 30	XXX	XXX	XXX	4.5	XXX	9.0	1/year	Grab
Ammonia May 1 – Oct 31	XXX	XXX	XXX	1.5	XXX	3.0	1/year	Grab

\*The twice per year samples should be spaced out during the year, with one sample collected during the months of May through October and one sample collected during the months of November through April.

Compliance Sampling Location: at discharge from the facility



Imagery: Source: Esri, Vantor, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



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Background concentrations, during July-September (to correlate with Q7-10 conditions) past 10 years:

ActivityMe	ActivityStartDate	MonitoringLocationIdentifier	ResultDetectionC	MethodSpeciation	CharacteristicName	ResultSan	ResultMez	ResultMez	MeasureQ	ResultStat	Statistical	ResultVal
	7/25/2011	21PA_WQX-WQN0178		as N	Ammonia	Total	0.02	mg/L		Final		Actual
	9/26/2011	21PA_WQX-WQN0178		as N	Ammonia	Total	0.02	mg/L		Final		Actual
	8/25/2015	21PA_WQX-WQN0178		as N	Ammonia	Total	0.03	mg/L		Final		Actual
	9/29/2015	21PA_WQX-WQN0178		as N	Ammonia	Total	0.02	mg/L		Final		Actual
	8/23/2017	21PA_WQX-WQN0178		as N	Ammonia	Total	0.02	mg/L		Final		Actual
	7/23/2018	21PA_WQX-WQN0178		as N	Ammonia	Total	0.03	mg/L		Final		Actual
	9/12/2018	21PA_WQX-WQN0178		as N	Ammonia	Total	0.02	mg/L		Final		Actual
	9/23/2019	21PA_WQX-WQN0178		as N	Ammonia	Total	0.1	mg/L		Final		Actual
	8/19/2019	21PA_WQX-WQN0178		as N	Ammonia	Total	0.05	mg/L		Final		Actual
	7/8/2019	21PA_WQX-WQN0178		as N	Ammonia	Total	0.02	mg/L		Final		Actual
	7/10/2024	21PA_WQX-WQN0178		as N	Ammonia	Total	0.03	mg/L		Final		Actual
							0.02	Median				
	7/28/2015	21PA_WQX-WQN0178			pH		7.68	None		Final		Actual
	8/25/2015	21PA_WQX-WQN0178			pH		7.98	None		Final		Actual
	9/29/2015	21PA_WQX-WQN0178			pH		8	None		Final		Actual
	8/25/2015	21PA_WQX-WQN0178			pH		8.1	None		Final		Actual
	9/29/2015	21PA_WQX-WQN0178			pH		7.87	None		Final		Actual
	7/28/2015	21PA_WQX-WQN0178			pH		8	None		Final		Actual
	8/30/2016	21PA_WQX-WQN0178			pH		7.4	None		Final		Actual
	8/30/2016	21PA_WQX-WQN0178			pH		7.89	None		Final		Actual
	7/19/2016	21PA_WQX-WQN0178			pH		8.1	None		Final		Actual
	7/19/2016	21PA_WQX-WQN0178			pH		7.93	None		Final		Actual
	9/20/2016	21PA_WQX-WQN0178			pH		7.8	None		Final		Actual
	9/20/2016	21PA_WQX-WQN0178			pH		7.89	None		Final		Actual
	9/19/2017	21PA_WQX-WQN0178			pH		7.8	None		Final		Actual
	7/31/2017	21PA_WQX-WQN0178			pH		8	None		Final		Actual
	7/31/2017	21PA_WQX-WQN0178			pH		7.7	None		Final		Actual
	8/23/2017	21PA_WQX-WQN0178			pH		7.7	None		Final		Actual
	9/19/2017	21PA_WQX-WQN0178			pH		7.35	None		Final		Actual
	8/23/2017	21PA_WQX-WQN0178			pH		7.23	None		Final		Actual
	7/23/2018	21PA_WQX-WQN0178			pH		7.48	None		Final		Actual
	9/12/2018	21PA_WQX-WQN0178			pH		7.6	None		Final		Actual
	9/12/2018	21PA_WQX-WQN0178			pH		7.51	None		Final		Actual
	8/27/2018	21PA_WQX-WQN0178			pH		7.84	None		Final		Actual
	7/23/2018	21PA_WQX-WQN0178			pH		7.6	None		Final		Actual
	8/27/2018	21PA_WQX-WQN0178			pH		7.8	None		Final		Actual

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8/19/2019	21PA_WQX-WQN0178			pH		7.6	None		Final		Actual
8/19/2019	21PA_WQX-WQN0178			pH		7.75	None		Final		Actual
7/8/2019	21PA_WQX-WQN0178			pH		7.61	None		Final		Actual
7/8/2019	21PA_WQX-WQN0178			pH		7.9	None		Final		Actual
9/23/2019	21PA_WQX-WQN0178			pH		7.91	None		Final		Actual
9/23/2019	21PA_WQX-WQN0178			pH		7.8	None		Final		Actual
9/14/2020	21PA_WQX-WQN0178			pH		8.02	None		Final		Actual
8/12/2020	21PA_WQX-WQN0178			pH		7.74	None		Final		Actual
9/14/2020	21PA_WQX-WQN0178			pH		7.9	None		Final		Actual
8/12/2020	21PA_WQX-WQN0178			pH		7.6	None		Final		Actual
7/7/2020	21PA_WQX-WQN0178			pH		7.7	None		Final		Actual
7/7/2020	21PA_WQX-WQN0178			pH		7.9	None		Final		Actual
7/15/2021	21PA_WQX-WQN0178			pH		6.3	None		Final		Actual
9/21/2021	21PA_WQX-WQN0178			pH		7	None		Final		Actual
9/21/2021	21PA_WQX-WQN0178			pH		8.34	None		Final		Actual
8/17/2021	21PA_WQX-WQN0178			pH		8.02	None		Final		Actual
8/17/2021	21PA_WQX-WQN0178			pH		6.3	None		Final		Actual
7/15/2021	21PA_WQX-WQN0178			pH		7.74	None		Final		Actual
7/15/2021	21PA_WQX-WQN0178			pH		7.3	None		Final		Actual
8/17/2021	21PA_WQX-WQN0178			pH		7.2	None		Final		Actual
9/7/2022	21PA_WQX-WQN0178			pH		6.6	None		Final		Actual
8/31/2022	21PA_WQX-WQN0178			pH		7.7	None		Final		Actual
8/31/2022	21PA_WQX-WQN0178			pH		7.94	None		Final		Actual
9/7/2022	21PA_WQX-WQN0178			pH		7.1	None		Final		Actual
7/27/2022	21PA_WQX-WQN0178			pH		7.69	None		Final		Actual
7/27/2022	21PA_WQX-WQN0178			pH		6.3	None		Final		Actual
7/27/2022	21PA_WQX-WQN0178			pH		7.4	None		Final		Actual
9/7/2022	21PA_WQX-WQN0178			pH		7.82	None		Final		Actual
8/14/2023	21PA_WQX-WQN0178			pH		7.83	None		Final		Actual
7/10/2023	21PA_WQX-WQN0178			pH		7	None		Final		Actual
9/12/2023	21PA_WQX-WQN0178			pH		7.5	None		Final		Actual
7/10/2023	21PA_WQX-WQN0178			pH		7.64	None		Final		Actual
8/14/2023	21PA_WQX-WQN0178			pH		6.8	None		Final		Actual
9/12/2023	21PA_WQX-WQN0178			pH		7.84	None		Final		Actual
7/10/2024	21PA_WQX-WQN0178			pH		7.2	None		Final		Actual
9/11/2024	21PA_WQX-WQN0178			pH		7	None		Final		Actual
9/11/2024	21PA_WQX-WQN0178			pH		7.7	None		Final		Actual
8/20/2024	21PA_WQX-WQN0178			pH		7	None		Final		Actual
8/20/2024	21PA_WQX-WQN0178			pH		7.58	None		Final		Actual
7/10/2024	21PA_WQX-WQN0178			pH		7.08	None		Final		Actual
						7.7	Median				

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ActivityStartDate	MonitoringLocationIdentifier	ResultDetectionC	MethodSpeciationI	CharacteristicName	ResultSan	ResultMea	ResultMea	MeasureC	ResultStat	Statistical	ResultVal
7/28/2015	21PA_WQX-WQN0178			Temperature, water		21.6	deg C		Final		Actual
9/29/2015	21PA_WQX-WQN0178			Temperature, water		18.28	deg C		Final		Actual
8/25/2015	21PA_WQX-WQN0178			Temperature, water		20.4	deg C		Final		Actual
8/30/2016	21PA_WQX-WQN0178			Temperature, water		20.39	deg C		Final		Actual
7/19/2016	21PA_WQX-WQN0178			Temperature, water		21.81	deg C		Final		Actual
9/20/2016	21PA_WQX-WQN0178			Temperature, water		19.96	deg C		Final		Actual
9/19/2017	21PA_WQX-WQN0178			Temperature, water		17.61	deg C		Final		Actual
8/23/2017	21PA_WQX-WQN0178			Temperature, water		20.1	deg C		Final		Actual
7/31/2017	21PA_WQX-WQN0178			Temperature, water		17.82	deg C		Final		Actual
8/27/2018	21PA_WQX-WQN0178			Temperature, water		14.1	deg C		Final		Actual
9/12/2018	21PA_WQX-WQN0178			Temperature, water		17.77	deg C		Final		Actual
7/23/2018	21PA_WQX-WQN0178			Temperature, water		20	deg C		Final		Actual
9/23/2019	21PA_WQX-WQN0178			Temperature, water		19.43	deg C		Final		Actual
7/8/2019	21PA_WQX-WQN0178			Temperature, water		19.64	deg C		Final		Actual
8/19/2019	21PA_WQX-WQN0178			Temperature, water		20.83	deg C		Final		Actual
8/12/2020	21PA_WQX-WQN0178			Temperature, water		23.07	deg C		Final		Actual
9/14/2020	21PA_WQX-WQN0178			Temperature, water		19.44	deg C		Final		Actual
7/7/2020	21PA_WQX-WQN0178			Temperature, water		21.23	deg C		Final		Actual
7/15/2021	21PA_WQX-WQN0178			Temperature, water		21.94	deg C		Final		Actual
8/17/2021	21PA_WQX-WQN0178			Temperature, water		22.17	deg C		Final		Actual
9/21/2021	21PA_WQX-WQN0178			Temperature, water		18.98	deg C		Final		Actual
7/27/2022	21PA_WQX-WQN0178			Temperature, water		20.09	deg C		Final		Actual
8/31/2022	21PA_WQX-WQN0178			Temperature, water		21.08	deg C		Final		Actual
9/7/2022	21PA_WQX-WQN0178			Temperature, water		19.55	deg C		Final		Actual
9/12/2023	21PA_WQX-WQN0178			Temperature, water		24.016	deg C		Final		Actual
7/10/2023	21PA_WQX-WQN0178			Temperature, water		23.71	deg C		Final		Actual
8/14/2023	21PA_WQX-WQN0178			Temperature, water		21.05	deg C		Final		Actual
8/20/2024	21PA_WQX-WQN0178			Temperature, water		17.2	deg C		Final		Actual
7/10/2024	21PA_WQX-WQN0178			Temperature, water		22.4	deg C		Final		Actual
9/11/2024	21PA_WQX-WQN0178			Temperature, water		15.5	deg C		Final		Actual
						20.1	Median				

USGS /PA Streams Stats, Online tool:

Report-outfall 001					
State/Region ID	PA				
Latitude	40.48981				
Longitude	-75.61036				
Time	2/19/2026 4:09:18 PM				
Basin Characteristics					
Parameter Code	Parameter Description	Value	Unit		
CARBON	Percentage of area of carbo	0	percent		
DRNAREA	Area that drains to a point c	1.14	square miles		
PRECIP	Mean Annual Precipitation	45.8	inches		
ROCKDEP	Depth to rock	5.1	feet		
STRDEN	Stream Density -- total lengt	1.671	miles per square mile		
Low-Flow Statistics Para 100.0 Percent Low Flow Region 2					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
CARBON	Percent Carbonate	0	percent	0	99
DRNAREA	Drainage Area	1.14	square mi	4.93	1280
PRECIP	Mean Annual Precipitation	45.8	inches	35	50.4
ROCKDEP	Depth to Rock	5.1	feet	3.32	5.65
STRDEN	Stream Density	1.671	miles per	0.51	3.1
Low-Flow Statistics Flow 100.0 Percent Low Flow Region 2					
Statistic	Value	Unit			
7 Day 2 Year Low Flow	0.189	ft^3/s			
30 Day 2 Year Low Flow	0.249	ft^3/s			
7 Day 10 Year Low Flow	0.0911	ft^3/s			
30 Day 10 Year Low Flow	0.116	ft^3/s			
90 Day 10 Year Low Flow	0.172	ft^3/s			

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considere  
 USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (U  
 USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes o

Application Version: 4.31.0
SSHydro Services Version: 1.1.0
SSDelineate Services Version: 1.0.1
NSS Services Version: 2.2.1
GageStats Services Version: 1.2.1
Pourpoint Services Version: 1.2.0
Batch Processor Services Version: 1.6.1

StreamStats Output Report-at confl UNT and Swabia Creek					
State/Region ID	PA				
Latitude	40.49448				
Longitude	-75.61263				
Time	2/19/2026 4:13:11 PM				
Basin Characteristics					
Parameter Code	Parameter Description	Value	Unit		
CARBON	Percentage of area	0.56	percent		
DRNAREA	Area that drains to	1.26	square miles		
PRECIP	Mean Annual Prec	45.7	inches		
ROCKDEP	Depth to rock	5.1	feet		
STRDEN	Stream Density -- t	1.794	miles per square mile		
Low-Flow Statistics Par 100.0 Percent Low Flow Region 2					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
CARBON	Percent Carbonate	0.56	percent	0	99
DRNAREA	Drainage Area	1.26	square mi	4.93	1280
PRECIP	Mean Annual Prec	45.7	inches	35	50.4
ROCKDEP	Depth to Rock	5.1	feet	3.32	5.65
STRDEN	Stream Density	1.794	miles per	0.51	3.1
Low-Flow Statistics Flow 100.0 Percent Low Flow Region 2					
Statistic	Value	Unit			
7 Day 2 Year Low Flow	0.198	ft^3/s			
30 Day 2 Year Low Flow	0.261	ft^3/s			
7 Day 10 Year Low Flow	0.0953	A			
30 Day 10 Year Low Flow	0.121	ft^3/s			
90 Day 10 Year Low Flow	0.179	ft^3/s			

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards of the USGS National Water Research Institute (NWRI) National Water Information System (NWIS) Data Users Guide (DUG).  
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 USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement.

Application Version: 4.31.0
SSHydro Services Version: 1.1.0
SSDelineate Services Version: 1.0.1
NSS Services Version: 2.2.1
GageStats Services Version: 1.2.1
Pourpoint Services Version: 1.2.0
Batch Processor Services Version: 1.6.1

Input Data WQM 7.0

### General Data

General		Stream			Discharge and Parameters			
Stream Code	RMI	Elevation (ft)	Drainage Area (sq mi)	LFY (cfsm)	Slope (ft/ft)	PWS With (mgd)	Apply FC	
▶ 3590	0.400	515	1.14	0.08	0	0	<input checked="" type="checkbox"/>	
3590	0.000	475	1.26	0.08	0	0	<input checked="" type="checkbox"/>	

Add Record  
Delete Record

Input Data WQM 7.0

### Stream Data

General		Stream			Discharge and Parameters							
Design Condition												
<input checked="" type="radio"/> Q7-10		<input type="radio"/> Q1-10		<input type="radio"/> Q30-10								
RMI	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	pH	Stream Temp (°C)	pH	
▶ 0.400	0.00	0.00	0.000	0.00	0	0.00	0.00	20.10	7.70	20.100	7.70	
0.000	0.00	0.00	0.000	0.00	0	0.00	0.00	20.10	7.70	20.100	7.70	

Input Data WQM 7.0

### Discharge and Parameter Data

General		Stream			Discharge and Parameters				
Discharge Data									
RMI	Name	Permit Number	Existing Disc (mgd)	Permitted Disc (mgd)	Design Disc (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH	
0.400	Siddens SRSTP	PA0086550	0.0000	0.0004	0.0000	0.000	25.00	7.00	

Parameter Data					
Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/day)	
▶ CBOD5	10.00	2.00	0.00	1.50	
NH3-N	1.50	0.02	0.00	0.70	
Dissolved Oxygen	5.00	8.24	0.00	0.00	

Record: 1 of 2 | No Filter | Search

Current permit limits used as Discharge Concentrations input values, consistent with Technical Guidance Document for model.

Input Data WQM 7.0

### Discharge and Parameter Data

General      Stream      **Discharge and Parameters**

Discharge Data								
RMI	Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
0.000	confl Swabia Cr		0.0000	0.0000	0.0000	0.000	20.00	7.00

Parameter Data				
Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/day)
▶ CBOD5	25.00	2.00	0.00	1.50
NH3-N	25.00	0.02	0.00	0.70
Dissolved Oxygen	5.00	8.24	0.00	0.00

Record: 2 of 2      No Filter      Search

Modeling Specifications WQM 7.0

**Select Parameters**

NH3-N

Dissolved Oxygen

Both

**Select WLA Method**

Uniform Treatment

EMPR

D.O. Simulation

**Q1-10 and Q30-10 Data**

Use input Q1-10 and Q30-10 data

Q1-10/Q7-10 ratio:

Q30-10/Q7-10 ratio:

**WQAM 6.3 Comparison**

Input reach W/D ratios \*     Input reach travel times \*

Temperature Adjust Kr\*\*

\* Check to duplicate WQAM 6.3 results  
\*\* Uncheck to duplicate WQAM 6.3 results

**Dissolved Oxygen**

DO Goal:

DO Saturation Percent:

Use Balanced Technology

Print      Next >      Cancel

Analysis Results WQM 7.0

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

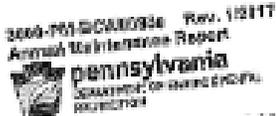
RMI	Discharge Name	Permit Number	Disc Flow (mgd)
0.40	Siddens SRSTP	PA0086550	0.0000

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	10		
NH3-N	1.5	3	
Dissolved Oxygen			5

Record: 1 of 1 | No Filter | Search

No new WQBELs needed: model defaulted to the existing permit limits.

From DEP's OnBase electronic upload and document storage:



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**ANNUAL MAINTENANCE REPORT (AMR) - MODIFIED**  
**SMALL FLOW TREATMENT FACILITIES**

Reporting Period: June 1, 2024 to May 31, 2025

Name: Jeffrey Siddons & Rosa Siddons Permit No.: PA0086550  
Mailing Address: 65 Stonewall Ln Municipality: Langswamp Township  
Altoona, PA 16811-2608 County: Berks  
Phone: (810) 641-8957 Email Address: jonsidd@addens1@winds@earth.net

This SFTF Serves (a):  Single Home  Multiple Homes  Commercial Establishment  Other  
No. of People Served by SFTF: 1 SFTF Use Frequency:  Daily  Periodic (Describe:     )

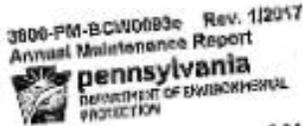
Submission of a complete AMR by June 30 of each year is a requirement of the NPDES PA0-04 General Permit and most individual NPDES permits for small flow treatment facilities (SFTFs). AMRs must be mailed to the DEP office identified below and, if required by the permit, to the municipality in which the facility is located.

**MONTHLY MONITORING AND MAINTENANCE**

For SFTFs covered by the PA0-04 General Permit, record effluent monitoring data in the table below. For SFTFs covered by individual NPDES permits in which a Discharge Monitoring Report (DMR) has been issued with the permit, this table may remain blank and effluent monitoring results must be reported on a DMR that is submitted to the DEP office identified below.

Parameter (units)	Effluent Monitoring Data											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TRC (mg/l) <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-	-
UV <sub>254</sub>												
COD <sub>5</sub> (mg/l) <sup>(2)</sup>												
pH (S.U.) <sup>(3)</sup>	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
TSS (mg/l) <sup>(3)</sup>												
Fecal Coliform (No./100 mL) <sup>(1)</sup>												
Flow (GPD) <sup>(3)</sup>												
NH <sub>3</sub> -N (mg/l) <sup>(3)</sup>												
NH <sub>3</sub> -N (mg/l) <sup>(3)</sup> May 1 - Oct 31												
NH <sub>3</sub> -N (mg/l) <sup>(3)</sup> May 1 - Oct 31												
Total Phosphorus <sup>(3)</sup> (mg/l)												

- If the SFTF uses chlorine for disinfection, Total Residual Chlorine (TRC) must be monitored monthly, at a minimum. Collect an effluent sample after chlorination (and if applicable after dechlorination). Report the result for each month in the table.
- If ultraviolet light (UV) is used for disinfection, place a checkmark in the field if the UV contact surface was cleaned during the month. If the permit does not require contact surface cleaning, write "N/A" in the field.
- For COD<sub>5</sub>, pH, TSS, Fecal Coliform, NH<sub>3</sub>-N, Total Phosphorus, and Flow, record results in this table if DEP requested monitoring and analyzed by a laboratory, if samples or measurements were collected voluntarily, or if collected on a routine basis and does not include a DMR.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

**ANNUAL MAINTENANCE REPORT (AMR) - MODIFIED  
SMALL FLOW TREATMENT FACILITIES**

Reporting Period: June 1, 2023 to May 31, 2024

Name: Jeffrey Siddens & Rose Siddens Permit No.: PA0086550  
Mailing Address: 65 Stonewall Ln Municipality: Longswamp Township  
Alburtis, PA 18011-2608 County: Berks  
Phone: (610) 641-8857 Email Address: tonewolfsiddens1@windstream.net

This SFTF Serves (a):  Single Home  Multiple Homes  Commercial Establishment  Other  
No. of People Served by SFTF: 1 SFTF Use Frequency:  Daily  Periodic (Describe:     )

Submission of a complete AMR by June 30 of each year is a requirement of the NPDES PAG-04 General Permit and most individual NPDES permits for small flow treatment facilities (SFTFs). AMRs must be mailed to the DEP office identified below and, if required by the permit, to the municipality in which the facility is located.

**MONTHLY MONITORING AND MAINTENANCE**

For SFTFs covered by the PAG-04 General Permit, record effluent monitoring data in the table below. For SFTFs covered by individual NPDES permits in which a Discharge Monitoring Report (DMR) has been issued with the permit, this table may remain blank and effluent monitoring results must be reported on a DMR that is submitted to the DEP office identified below.

Parameter (units)	Effluent Monitoring Data											
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
TRC (mg/l) (1)	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-
UV (2)												
CBOD5 (mg/l) (3)	7.0	7.2	7.0	2.0	7.2	7.2	7.0	7.0	7.0	7.0	7.0	7.0
pH (S.U.) (3)				2.1							6.2	
TSS (mg/l) (3)				25								
Fecal Coliform (No./100 mL) (3)												
Flow (GPD) (5)				1.02								
NH <sub>3</sub> -N (mg/l) (3)											.04	
May 1 - Oct 31												
NH <sub>3</sub> -N (mg/l) (3)												
May 1 - Oct 31												
Total Phosphorus (mg/l) (3)				.96							.32	

- If the SFTF uses chlorine for disinfection, Total Residual Chlorine (TRC) must be monitored monthly, at a minimum. Collect an effluent sample after chlorination (and if applicable after dechlorination). Report the result for each month in the table.
- If ultraviolet light (UV) is used for disinfection, place a checkmark in the field if the UV contact surface was cleaned during the month. If the permit does not require contact surface cleaning, write "N/A" in the fields.
- For CBOD5, pH, TSS, Fecal Coliform, NH<sub>3</sub>-N, Total Phosphorus, and Flow, report results in this table if DEP requested that a sample be collected and analyzed by a laboratory. If samples or measurements were collected voluntarily, or otherwise if the permit requires such monitoring on a routine basis and does not include a DMR.