

Southcentral Regional Office
CLEAN WATER PROGRAM

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0247421
APS ID 1021719
Authorization ID 1444753

Applicant, Facility and Project Information

Applicant Name	<u>Adrienne A & Steven W Hawkins II</u>	Facility Name	<u>Hawkins Residence</u>
Applicant Address	<u>7723 Wertzville Road</u> <u>Carlisle, PA 17013-9021</u>	Facility Address	<u>7723 Wertzville Road</u> <u>Carlisle, PA 17013-9021</u>
Applicant Contact	<u>Steven Hawkins II</u>	Facility Contact	<u>Steven Hawkins II</u>
Applicant Phone	<u>(717) 258-5585</u>	Facility Phone	<u>(717) 258-5585</u>
Client ID	<u>357969</u>	Site ID	<u>625938</u>
SIC Code	<u>6514</u>	Municipality	<u>Middlesex Township</u>
SIC Description	<u>Fin, Ins & Real Est - Dwelling Operators, Except Apartments</u>	County	<u>Cumberland</u>
Date Application Received	<u>June 22, 2023</u>	WQM Required	<u>Not applicable</u>
Date Application Accepted	<u>July 26, 2023</u>	WQM App. No.	
Project Description	<u>This is an application for NPDES renewal.</u>		

Summary of Review

The above referenced applicant has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The permit was last reissued on December 20, 2018 and became effective on January 1, 2019. The permit was amended via Amendment 1, which was issued February 25, 2021 as a result of a Transfer from the previous Owner, Francine & Rodney Groff, to Adrienne A & Steven W Hawkins II. The permit expired on December 31, 2023. It has been administratively extended since that time.

Correction of the last name of applicant and permittee: The name on NPDES Permit PA0247421 Amendment 1 is "**Adrienne A & Steven W Hawkins III**". This current application listed the name of the applicant as "**Adrienne A & Steven W Hawkins II**". Steve Roselle from DEP confirmed via email communication with Mr. Hawkins II, that "Hawkins II" is the correct name, and will be corrected as such.

The purpose of this Fact Sheet is to present the basis of information used for establishing the proposed NPDES permit effluent limitations. The Fact Sheet includes the following information:

1. Description of the Facility
2. Type and Quantity of Wastewater or Pollutants Evaluated in the Permit
3. Facility NPDES Compliance History
4. Receiving Waters and Water Supply Information
5. Development of Effluent Limitations and Monitoring Requirements
6. NPDES Parameter Details

The subject facility is a 0.0005 MGD (500 GPD) treatment facility. The applicant does not anticipate any proposed upgrades to the treatment facility in the next five years. The NPDES application has been processed as a Small Flow Treatment Facility due to the type of sewage and the design flow rate for the facility.

Approve	Deny	Signatures	Date
X		Steven C. Roselle, P.E. / Environmental Engineer <i>Steven C. Roselle</i>	May 29, 2024
x		Daniel W. Martin, P.E. / Environmental Engineering Manager <i>Maria D. Bebenek for</i>	June 25, 2024
x		Maria Bebenek, P.E./ Environmental Program Manager <i>Maria D. Bebenek</i>	June 25, 2024

The applicant disclosed the Act 14 requirement to Cumberland County Planning Department and to Middlesex Township. The notice was received by Middlesex Township on May 2, 2023, and by the Cumberland County Planning Department on May 21, 2024. A planning approval letter was not necessary as the facility is neither new nor expanding.

DEP has prepared this report for the NPDES permit application. Based on the review outlined in this report, it is recommended that the NPDES permit be drafted and published in the Pennsylvania Bulletin for public comments for 30 days.

The proposed permit will expire five (5) years from the effective date.

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.

Any additional information or public review of documents associated with the discharge or facility may be available at PA DEP Southcentral Regional Office (SCRO), 909 Elmerton Avenue, Harrisburg, PA 17110. To make an appointment for file review, contact the SCRO File Review Coordinator at 717.705.4700.

1. Description of the Facility

1.1 Consultant

A consultant was not used to assist in the preparation of the NPDES Permit renewal application.

1.2 Site location

A topographical and an aerial photograph of the facility are depicted as Figure 1 and Figure 2.

Figure 1: Topographical map of the subject facility

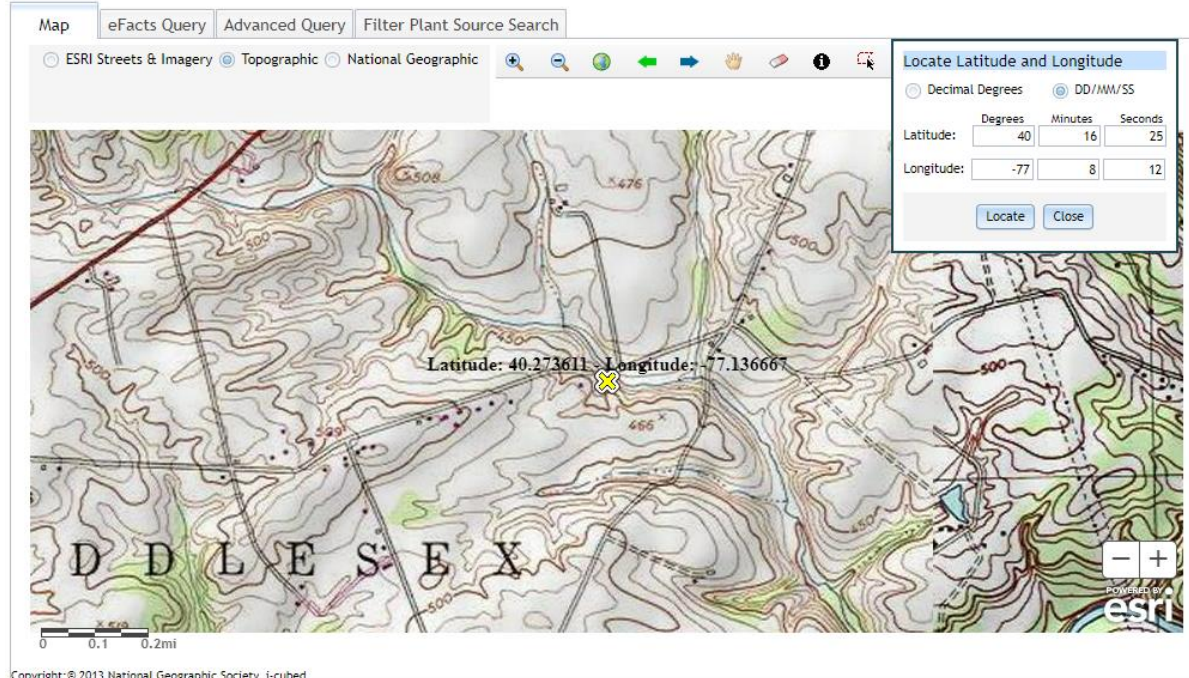
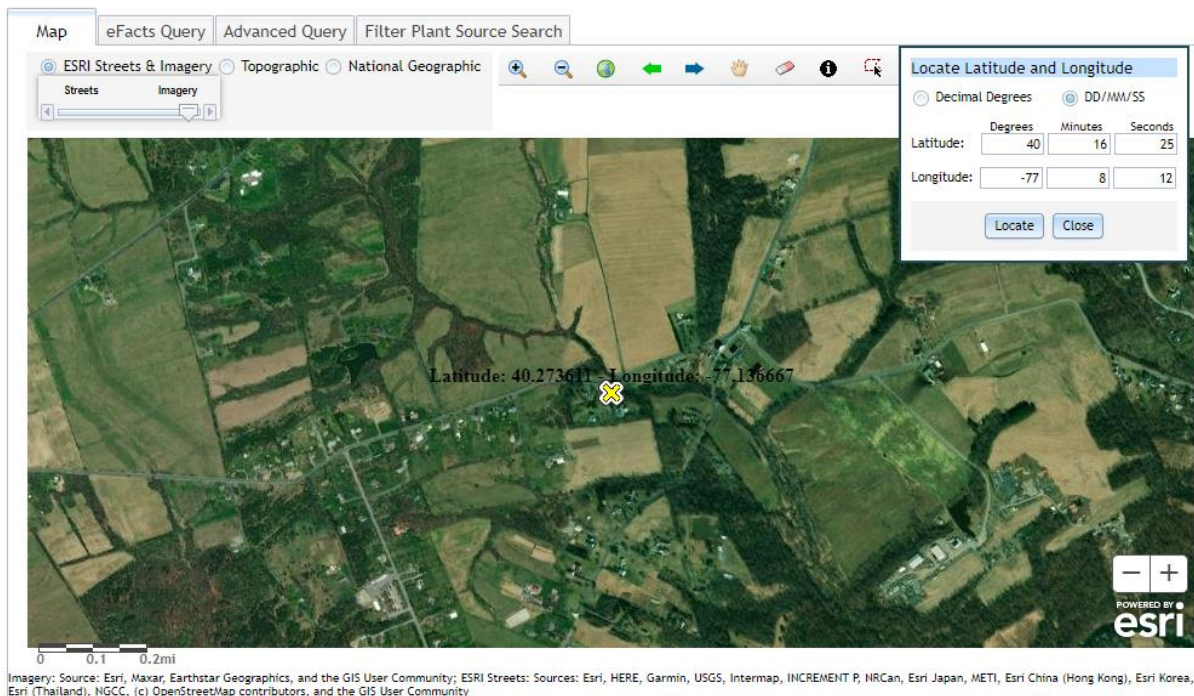


Figure 2: Aerial Photograph of the subject facility



1.3 Description of Wastewater Treatment Process

The Hawkins residence is a 4-bedroom facility generating 500 GPD design flow. Treatment consists of a two-compartment 1,500-gallon septic tank, Ecoflo peat biofilter, 415-gallon chlorine contact tank with tablet chlorinator and outfall structure. The WQM permit no. 2104403 was issued on July 24, 2004. The facility is being evaluated for flow, TRC, CBOD5, TSS, and fecal coliform.

2. Type and Quantity of Wastewater or Pollutants Evaluated in the Permit

2.1 Facility Outfall Information

The facility has the following outfall information.

Outfall No.	001	Design Flow (MGD)	0.0005
Latitude	40° 16' 25.00"	Longitude	77° 8' 12.00"
Wastewater Description: Sewage Effluent			

2.2 Existing NPDES Permits Limits

The existing NPDES permit limits are summarized in the table.

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	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	Grab
CBOD5	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	XXX	XXX	1/year	Grab

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

at Outfall 001

3.0 Facility NPDES Compliance History

3.1 AMR Data, and Inspections

Compliance History	
Summary of AMRs:	AMRs have been submitted annually by the current Owner, Mr. Steven W Hawkins II.
Summary of Inspections:	<p>Two (2) DEP inspections were conducted during the permit cycle:</p> <ol style="list-style-type: none"> 1) <u>January 16, 2020</u>. A field compliance inspection was conducted by Michael Benham, DEP Water Quality Specialist. Mr. Benham met with the previous Owner, Mr. Rodney Groff. No violations or significant issues were identified. Mr. Benham noted that the facility and corresponding documentation were well maintained. 2) <u>June 11, 2020</u>. An administrative inspection was conducted by Michael Benham, DEP Water Quality Specialist, by telephone and email communications with the previous Owner, Mr. Rodney Groff. Mr. Groff noted that the property was unoccupied and is for sale. No violations or significant issues were identified.
Other Comments:	<ol style="list-style-type: none"> 1. DEP's database shows there are no open violations associated with this facility or permittee. 2. Mr. Hawkins II reports that most recent pumping of the septic tank occurred on June 12, 2023.

3.2 Summary of Data Available

Data shown in the table below were included in the application, as reported by Microbac, Harrisburg, PA. Per the applicant, the data is from July 8, 2022. Based on the data available, the facility has demonstrated capability to meet the NPDES Permit limits.

	CBOD5 (mg/l)	TSS (mg/l)	Fecal (MPN/100 mL)	TRC
Permit Limit	20 (Inst. Maximum)	20 (Inst. Maximum)	200 (Annual Average)	Report
No. Samples	1	1	1	12
Average Value	<3.00	3.67	<1	0.4

4.0 Receiving Waters and Water Supply Information

4.1 Receiving Waters and Water Supply Information

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0005
Latitude	40° 16' 25.00"	Longitude	-77° 8' 12.00"
Quad Name	Shermans Dale	Quad Code	1628
Wastewater Description: Sewage Effluent			
Receiving Waters	UNT to Conodoguinet Creek	Stream Code	10252
NHD Com ID	56403975	RMI	1.22
Drainage Area	1.45	Yield (cfs/mi ²)	
Q ₇₋₁₀ Flow (cfs)	0.0217	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft)		Slope (ft/ft)	
Watershed No.	07B	Chapter 93 Class.	Warm Water Fishes
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		
Nearest Downstream Public Water Supply Intake	PA American Water, Silver Spring Township		
PWS Waters	Conodoguinet Creek	Flow at Intake (cfs)	72.82
PWS RMI	18.38	Distance from Outfall (mi)	12.24

Notes:

- The nearest downstream public water supply intake is the PA American Water, Silver Spring Township located approximately 12 miles downstream of the subject facility on the Conodoguinet Creek. Considering dilution and the distance from the intake, the discharge is not expected to significantly affect the water supply.
- The discharge is to an Unnamed Tributary 10252 of Conodoguinet Creek at RMI 1.22 utilizing DEP's web-based Emap-PA information system. A drainage area upstream of the point of discharge is estimated to be 1.45 sq.mi., according to USGS StreamStats available at <https://streamstats.usgs.gov/ss/>.

4.2 Class A Wild Trout Streams

Class A Wild Trout Streams are waters that support a population of naturally produced trout of sufficient size and abundance to support long-term and rewarding sport fishery. DEP classifies these waters as high-quality coldwater fisheries.

The sequence of receiving streams that receiving waters discharges into are the Conodoguinet Creek and then to the Susquehanna River which eventually drains into the Chesapeake Bay. Under 25 Pa Code §93.90, all tributaries of Conodoguinet Creek from PA 997 at Roxbury to Mouth are designated as warm water and migratory fishes. No special protection water is

impacted by this discharge, and no Class A Wild Trout fisheries are impacted by this discharge. Due to the flow rate of the subject facility, the subject site is not subject to the Chesapeake Bay implementation requirements. The absence of high quality and/or exceptional value surface waters removes the need for an evaluation of anti-degradation requirements.

4.3 Integrated List of All Waters (303d Listed Streams):

Section 303(d) of the Clean Water Act requires States to list all impaired surface waters not supporting uses even after appropriate and required water pollution control technologies have been applied. The 303(d) list includes the reason for impairment which may be one or more point sources (i.e. industrial or sewage discharges) or non-point sources (i.e. abandoned mine lands or agricultural runoff and the pollutant causing the impairment such as metals, pH, mercury or siltation).

States or the U.S. Environmental Protection Agency (EPA) must determine the conditions that would return the water to a condition that meets water quality standards. As a follow-up to listing, the state or EPA must develop a Total Maximum Daily Load (TMDL) for each waterbody on the list. A TMDL identifies allowable pollutant loads to a waterbody from both point and non-point sources that will prevent a violation of water quality standards. A TMDL also includes a margin of safety to ensure protection of the water.

The water quality status of Pennsylvania's waters uses a five-part categorization (lists) of waters per their attainment use status. The categories represent varying levels of attainment, ranging from Category 1, where all designated water uses are met to Category 5 where impairment by pollutants requires a TMDL for water quality protection.

The receiving waters is listed in the Pennsylvania Integrated Water Quality Monitoring and Assessment Report as a Category 2 waterbody. The surface waters is an attaining stream that supports aquatic life. The designated use has been classified as protected waters for warm water fishes and migratory fishes.

4.4 Low Flow Stream Conditions:

Water quality modeling estimates are based upon conservative data inputs. The data are typically estimated using either a stream gauge or through USGS web based StreamStats program. The NPDES effluent limits are based upon the combined flows from both the stream and the facility discharge.

A conservative approach to estimate the impact of the facility discharge using values which minimize the total combined volume of the stream and the facility discharge. The volumetric flow rate for the stream is based upon the seven-day, 10-year low flow (Q710) which is the lowest estimated flow rate of the stream during a 7 consecutive day period that occurs once in 10 year time period. USGS StreamStats was used to produce a Q710 of 0.0217 cfs at the point of discharge.

5. Development of Effluent Limitations and Monitoring Requirements

The proposed effluent limitations and monitoring requirements listed in section 6 of this fact sheet are unchanged from the current permit limits. The permit limits are derived from DEP's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003). Based on a review of available data, the system is capable of meeting these effluent limits if proper maintenance and operation is performed (i.e., periodic septic tank pumping, unit cleaning, and annual inspection).

The permittee will be required to submit a completed Annual Maintenance Report (AMR) as part of the permit requirements. No DMR is necessary for any facilities that are required to report effluent monitoring results on AMRs annually.

Chapter 93.4a(b) of the Department's rules and regulations require that, "*existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.*" The discharge will be to non-special protection waters/watershed. No high-quality waters will be impacted by this discharge. No exceptional value waters will be impacted by this discharge. All effluent limitations and monitoring requirements have been developed to ensure that existing instream level of water quality necessary to protect the existing uses are maintained and protected.

Facilities that are designed based on a flow of less than 2,000 gpd or are considered as SRSTPs are exempt from the Bay requirements. Accordingly, it is not necessary for the permittee to perform nutrient monitoring.

6.0 NPDES Parameter Details

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	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	Grab
CBOD5	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	XXX	XXX	1/year	Grab

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

at Outfall 001