

# Southcentral Regional Office CLEAN WATER PROGRAM

Application Type
Wastewater Type
Facility Type
SRSTP

# NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0291722

APS ID 1076087

Authorization ID 1418270

		Applicant, Facili	ty and Project Informati	ion
Applicant Name	8418	Properties LLC	Facility Name	Cody Smith Properties
Applicant Address	1539	W Graceville Road	Facility Address	154 Long Bend Beach Road
	Evere	ett, PA 15537-5652		Hopewell, PA 16650-9049
Applicant Contact	Cody	Smith	Facility Contact	Cody Smith
Applicant Phone	(814)	585-5954	Facility Phone	(814) 585-5954
Client ID	3737	93	Site ID	860306
SIC Code	8811		Municipality	Broad Top Township
SIC Description	Servi	ces - Private Households	County	Bedford
Date Application Rec	eived	November 14, 2022	WQM Required	
Date Application Accepted November 23, 2022		WQM App. No.	0522402	
Project Description		This is an application for a new	v NPDES/WQM permit.	

Summary of Review

Approve	Deny	Signatures	Date
Х		Nicholas Hong, P.E. / Environmental Engineer  Nick Hong (via electronic signature)	December 1, 2022
Х		Daniel W. Martin, P.E. / Environmental Engineer Manager  Daniel W. Martin	December 13, 2022

## **Summary of Review**

The application submitted by the applicant requests a new NPDES and WQM permit for the Smith Residence DBA 8418 Properties LLC located at 154 Long Bend Beach Road, Hopeville, PA 16650 in Bedford County, municipality of Broad Top Township. The application was received by DEP Southcentral Regional Office (SCRO) on November 14, 2022.

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 a description of the facility, a description of the facility's receiving waters, and a description of the facility's receiving waters attainment/non-attainment assessment status. Section 5 provides the justification for the proposed NPDES effluent limits derived from technology based effluent limits (TBEL), water quality based effluent limits (WQBEL), total maximum daily loading (TMDL), antidegradation, anti-backsliding, and/or whole effluent toxicity (WET). A brief summary of the outlined descriptions has been included in the Summary of Review section.

The subject facility is a 0.0004 MGD (400 gpd) treatment facility. 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. The applicant disclosed the Act 14 requirement to Bedford County Planning Commission and Broad Top Township and the notice was received by the parties on August 15, 2022. A planning approval letter was issued by DEP on November 8, 2022.

Utilizing the DEP's web-based Emap-PA information system, the receiving waters has been determined to be the Raystown Branch Juniata River. The sequence of receiving streams that the Raystown Branch Juniata River discharges into are the Juniata River, and the Susquehanna River which eventually drains into the Chesapeake Bay. Due to the low flow rate generated by the facility, the subject site is not subject to the Chesapeake Bay implementation requirements. The receiving water has protected water usage for trout stocking fish (TSF) and migratory fishes (MF). No Class A Wild Trout fisheries are impacted by this discharge. The absence of high quality and/or exceptional value surface waters removes the need for an additional evaluation of anti-degradation requirements.

The Raystown Branch Juniata River is a Category 2 stream listed in the 2022 Integrated List of All Waters (formerly 303d Listed Streams). This stream is an attaining stream that supports aquatic life, fish consumption, and potable water supply. The receiving waters is not subject to a total maximum daily load (TMDL) plan to improve water quality in the subject facility's watershed.

Sludge use and disposal description and location(s): The facility is a new discharge. Future renewals will itemize sludge use and disposal.

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

Based on the review in this report, it is recommended that the permit be drafted. 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.

## 1.0 Applicant

# **1.1 General Information**

This fact sheet summarizes PA Department of Environmental Protection's review for the NPDES renewal for the following subject facility.

Facility Name: Smith Residence DBA 8418 Properties LLC

NPDES Permit # PA0291722

Physical Address: 154 Long Bend Beach Road

Hopeville, PA 16650

Mailing Address: 1539 West Graceville Road

Everett, PA 15537

Contact: Cody Smith

codysmith@juniatarealty.com

Consultant: John DeLacio

Advanced Treatment, Inc. Delacio.john@gmail.com

#### **1.2 Permit History**

Permit submittal included the following information.

NPDES Application

#### 2.0 Treatment Facility Summary

# 2.1.1 Site location

The physical address for the facility is 154 Long Bend Beach Road, Hopeville, PA 16650. 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

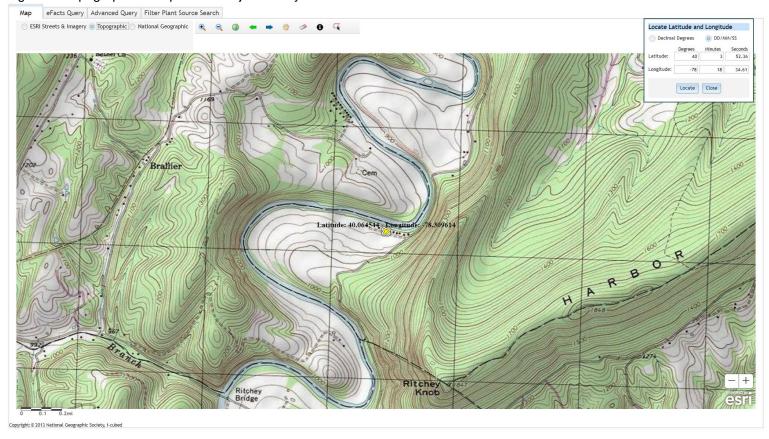
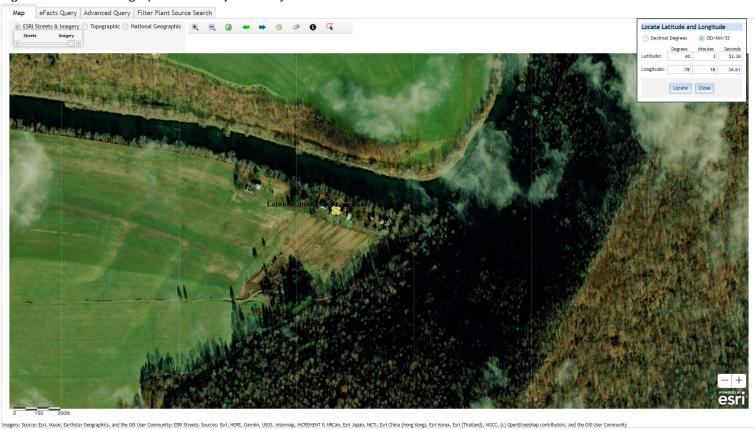


Figure 2: Aerial Photograph of the subject facility



## 2.2 Description of Wastewater Treatment Process

The subject facility is a 0.0004 MGD design flow facility. The subject facility treats wastewater using a Premier Tech Ecoflo EC7-500-P-P-pack coco filter.

The treatment process is summarized in the table.

	Tr	eatment Facility Summar	У	
Treatment Facility Na	<b>me:</b> Smith Residence DBA	A 8418 Properties LLC		
WQM Permit No.	Issuance Date			
0522402	TBD			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	ECOFLO PACK Coco Filter	Ultraviolet	0.0004
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal
0.0004		Not Overloaded		

#### 2.3 Facility Outfall Information

The facility has the following outfall information for wastewater.

Outfall No.	001		Design Flow (MGD)	.0004
Latitude	40° 3' 53.00"	1	Longitude	-78° 18' 35.00"
Wastewater D	escription:	Sewage Effluent		_

#### 3.0 Receiving Waters and Water Supply Information Detail Summary

#### 3.1 Receiving Waters

The receiving waters has been determined to be the Raystown Branch Juniata River. The sequence of receiving streams that the Raystown Branch Juniata River discharges into are the Juniata River, and the Susquehanna River which eventually drains into the Chesapeake Bay.

#### 3.2 Public Water Supply (PWS) Intake

The closest PWS to the subject facility is the Saxton Municipal Water Authority (PWS ID #4050021) located approximately 17 miles downstream of the subject facility on the Juniata River. Based upon the distance and the flow rate of the facility, the PWS should not be impacted.

#### 3.3 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 information obtained from EMAP suggests that no Class A Wild Trout Fishery will be impacted by this discharge.

#### 3.4 2022 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 2022 Pennsylvania Integrated Water Quality Monitoring and Assessment Report as a Category 2 waterbody. The surface waters is an attaining stream that supports aquatic life, fish consumption, and potable water supply. The designated use has been classified as protected waters for trout stocking fishes (TSF) and migratory fishes (MF).

#### 3.5 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. The facility discharge is based upon a known design capacity of the subject facility.

The low flow yield and the Q710 for the subject facility was estimated using Stream Stats.

The low flow yield is 0.045 ft<sup>3</sup>/s/mi<sup>2</sup> and the Q710 is 26.8 ft<sup>3</sup>/s.

Outfall No. 001			Design Flow (MGD)	.0004
	' 55.18'	r	_ Longitude	-78° 18' 38.47"
Quad Name	00110		_ Quad Code	70 10 00111
Wastewater Descrip	otion:	Sewage Effluent		
D		town Branch Juniata River		400.40
Receiving Waters	(TSF	•	Stream Code	13349
NHD Com ID	65840	5061	RMI	59.2
Drainage Area	589		Yield (cfs/mi²)	0.045
Q <sub>7-10</sub> Flow (cfs)	26.8		Q <sub>7-10</sub> Basis	StreamStats
Elevation (ft)	915			
Watershed No.	11-D	01 1 00 1	Chapter 93 Class.	TSF, MF
Existing Use	Same	e as Chapter 93 class	Existing Use Qualifier	
Exceptions to Use		A (( - ' - '   1   / - \) (	Exceptions to Criteria	
Assessment Status			atic life, fish consumption, potable	e water supply
Cause(s) of Impairr		Not appl.		
Source(s) of Impair	ment	Not appl.		
TMDL Status		Not appl.	Name	
Background/Ambie	nt Data		Data Source	
pH (SU)		Not appl.		
Temperature (°C)		Not appl.		
Hardness (mg/L)		Not appl.		
Other:				
Nearest Downstrea	m Publ	ic Water Supply Intake	Saxton Municipal Water Author	ority
PWS Waters	Juniata	River	Flow at Intake (cfs)	
PWS RMI 4	<del>1</del> 1		Distance from Outfall (mi)	17

# 4.0: Overview of Presiding Water Quality Standards

#### 4.1 General

There are at least six (6) different policies which determines the effluent performance limits for the NPDES permit. The policies are technology based effluent limits (TBEL), water quality based effluent limits (WQBEL), antidegradation, total maximum daily loading (TMDL), anti-backsliding, and whole effluent toxicity (WET) The effluent performance limitations enforced are the selected permit limits that is most protective to the designated use of the receiving waters. An overview of each of the policies that are applicable to the subject facility has been presented in Section 6.

#### 4.2.1 Technology-Based Limitations

TBEL treatment requirements under section 301(b) of the Act represent the minimum level of control that must be imposed in a permit issued under section 402 of the Act (40 CFR 125.3). The presiding sources for the basis for the effluent limitations are governed by either federal or state regulation. Small flow treatment facilities are confined to permit limitations promulgated by the Small Flow Treatment Facilities Manual (Document # 36-0300-002) and the SOP- New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application (Revised May 17, 2019).

Parameter	Avg Mo	IMAX	Sample Type	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate	1/year
BOD5 (mg/l)	10	20	Grab	1/year
TSS (mg/l)	10	20	Grab	1/year
TRC (mg/l)	Repo SRS		Grab	1/month
Fecal Coliform (No/100 ml)	200 Ge Me	ometric ean	Grab	1/year

#### 4.3 Water Quality-Based Limitations

WQBEL are based on the need to attain or maintain the water quality criteria and to assure protection of designated and existing uses (PA Code 25, Chapter 92a.2). The subject facility that is typically enforced is the more stringent limit of either the TBEL or the WQBEL.

#### 4.3.1 Water Quality Modeling 7.0

The facility is not subject to water quality modeling.

#### 4.3.2 Toxics Modeling

The facility is not subject to toxics modeling.

# 4.3.3 Whole Effluent Toxicity (WET)

The facility is not subject to WET.

#### 4.4 Total Maximum Daily Loading (TMDL)

#### 4.4.1 TMDL

The goal of the Clean Water Act (CWA), which governs water pollution, is to ensure that all of the Nation's waters are clean and healthy enough to support aquatic life and recreation. To achieve this goal, the CWA created programs designed to regulate and reduce the amount of pollution entering United States waters. Section 303(d) of the CWA requires states to assess their waterbodies to identify those not meeting water quality standards. If a waterbody is not meeting standards, it is listed as impaired and reported to the U.S. Environmental Protection Agency. The state then develops a plan to clean up the impaired waterbody. This plan includes the development of a Total Maximum Daily Load (TMDL) for the pollutant(s) that were found to be the cause of

the water quality violations. A Total Maximum Daily Load (TMDL) calculates the maximum amount of a specific pollutant that a waterbody can receive and still meet water quality standards.

A TMDL for a given pollutant and waterbody is composed of the sum of individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for nonpoint sources and natural background levels. In addition, the TMDL must include an implicit or explicit margin of safety (MOS) to account for the uncertainty in the relationship between pollutant loads and the quality of the receiving waterbody. The TMDL components are illustrated using the following equation:

TMDL = 
$$\Sigma WLAs + \Sigma LAs + MOS$$

Pennsylvania has committed to restoring all impaired waters by developing TMDLs and TMDL alternatives for all impaired waterbodies. The TMDL serves as the starting point or planning tool for restoring water quality.

#### 4.4.1.1 Local TMDL

The subject facility does not discharge into a local TMDL.

#### 4.4.1.2 Chesapeake Bay TMDL Requirement

The Chesapeake Bay Watershed is a large ecosystem that encompasses approximately 64,000 square miles in Maryland, Delaware, Virginia, West Virginia, Pennsylvania, New York and the District of Columbia. An ecosystem is composed of interrelated parts that interact with each other to form a whole. All of the plants and animals in an ecosystem depend on each other in some way. Every living thing needs a healthy ecosystem to survive. Human activities affect the Chesapeake Bay ecosystem by adding pollution, using resources and changing the character of the land.

Most of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the federal Water Pollution Control Act ("Clean Water Act"), 33 U.S.C. § 1313(d). While the Chesapeake Bay is outside the boundaries of Pennsylvania, more than half of the State lies within the watershed. Two major rivers in Pennsylvania are part of the Chesapeake Bay Watershed. They are (a) the Susquehanna River and (b) the Potomac River. These two rivers total 40 percent of the entire Chesapeake Bay watershed.

The overall management approach needed for reducing nitrogen, phosphorus and sediment are provided in the Bay TMDL document and the Phase I, II, and III WIPs which is described in the Bay TMDL document and Executive Order 13508.

The Bay TMDL is a comprehensive pollution reduction effort in the Chesapeake Bay watershed identifying the necessary pollution reductions of nitrogen, phosphorus and sediment across the seven Bay watershed jurisdictions of Delaware, Maryland, New York, Pennsylvania, Virginia, West Virginia and the District of Columbia to meet applicable water quality standards in the Bay and its tidal waters.

The Watershed Implementation Plans (WIPs) provides objectives for how the jurisdictions in partnership with federal and local governments will achieve the Bay TMDL's nutrient and sediment allocations.

Phase 3 WIP provides an update on Chesapeake Bay TMDL implementation activities for point sources and DEP's current implementation strategy for wastewater. The latest revision of the supplement was September 13, 2021.

The Chesapeake Bay TMDL (Appendix Q) categorizes point sources into four sectors:

- Sector A- significant sewage dischargers;
- Sector B- significant industrial waste (IW) dischargers;
- Sector C- non-significant dischargers (both sewage and IW facilities); and
- Sector D- combined sewer overflows (CSOs).

All sectors contain a listing of individual facilities with NPDES permits that were believed to be discharging at the time the TMDL was published (2010). All sectors with the exception of the non-significant dischargers have individual wasteload allocations (WLAs) for TN and TP assigned to specific facilities. Non-significant dischargers have a bulk or aggregate allocation for TN and TP based on the facilities in that sector that were believed to be discharging at that time and their estimated nutrient loads.

Cap Loads will be established in permits as Net Annual TN and TP loads (lbs/yr) that apply during the period of October 1 – September 30. For facilities that have received Cap Loads in any other form, the Cap Loads will be modified accordingly when the permits are renewed.

Offsets have been incorporated into Cap Loads in several permits issued to date. From this point forward, permits will be issued with the WLAs as Cap Loads and will identify Offsets separately to facilitate nutrient trading activities and compliance with the TMDL.

Based upon the supplement the subject facility has been categorized as a Sector C discharger. The supplement defines Sector C as a non-significant dischargers include sewage facilities (Phase 4 facilities: ≥ 0.2 MGD and < 0.4 MGD and Phase 5 facilities: > 0.002 MGD and < 0.2 MGD), small flow/single residence sewage treatment facilities (≤ 0.002 MGD), and non-significant IW facilities, all of which may be covered by statewide General Permits or may have individual NPDES permits.

At this time, there are approximately 850 Phase 4 and 5 sewage facilities, approximately 715 small flow sewage treatment facilities covered by a statewide General Permit, and approximately 300 non-significant IW facilities.

Due to the low flow wastewater generation for this facility, this facility is not subject to Sector C monitoring requirements.

#### 4.5 Anti-Degradation Requirement

Chapter 93.4a of the PA regulations requires that surface water of the Commonwealth of Pennsylvania may not be degraded below levels that protect the existing uses. The regulations specifically state that *Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.* Antidegradation requirements are implemented through DEP's guidance manual entitled Water Quality Antidegradation Implementation Guidance (Document #391-0300-02).

The policy requires DEP to protect the existing uses of all surface waters and the existing quality of High Quality (HQ) and Exceptional Value (EV) Waters. Existing uses are protected when DEP makes a final decision on any permit or approval for an activity that may affect a protected use. Existing uses are protected based upon DEP's evaluation of the best available information (which satisfies DEP protocols and Quality Assurance/Quality Control (QA/QC) procedures) that indicates the protected use of the waterbody.

For a new, additional, or increased point source discharge to an HQ or EV water, the person proposing the discharge is required to utilize a nondischarge alternative that is cost-effective and environmentally sound when compared with the cost of the proposed discharge. If a nondischarge alternative is not cost-effective and environmentally sound, the person must use the best available combination of treatment, pollution prevention, and wastewater reuse technologies and assure that any discharge is nondegrading. In the case of HQ waters, DEP may find that after satisfaction of intergovernmental coordination and public participation requirements lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. In addition, DEP will assure that cost-effective and reasonable best management practices for nonpoint source control in HQ and EV waters are achieved.

The subject facility's discharge will be to a non-special protection waters and the permit conditions are imposed to protect existing instream water quality and uses. Neither HQ waters or EV waters is impacted by this discharge.

#### 4.6 Anti-Backsliding

Anti-backsliding is a federal regulation which prohibits a permit from being renewed, reissued, or modified containing effluent limitations which are less stringent than the comparable effluent limitations in the previous permit (40 CFR 122.I.1 and 40 CFR 122.I.2).

This is a new NPDES and WQM permit. Thus, anti-backsliding does not apply. However, future renewals may be subject to anti-backsliding.

#### **5.0 NPDES Parameter Details**

The basis for the proposed sampling and their monitoring frequency that will appear in the permit for each individual parameter are itemized in this Section. The final limits are the more stringent of technology based effluent treatment (TBEL) requirements, water quality based (WQBEL) limits, TMDL, antidegradation, anti-degradation, or WET.

The reader will find in this section:

- a) a justification of recommended permit monitoring requirements and limitations for each parameter in the proposed NPDES permit; and
- b) a summary of the proposed NPDES effluent limits.

#### 5.1 Recommended Monitoring Requirements and Effluent Limitations

A summary of the recommended monitoring requirements and effluent limitations are itemized in the tables. The table is categorized by Conventional Pollutants and Disinfection.

#### 5.1.1 Conventional Pollutants and Disinfection

	Summary of Proposed NPDES Parameter Details for Conventional Pollutants and Disinfection						
	Smith residence DBA 8118 Properties LLC, PA0291722						
Parameter	Permit Limitation		Recommendation				
Parameter	Required by <sup>1</sup> :		Reconlinendation				
		Monitoring:	The monitoring frequency shall be 1x/yr as a grab sample (SOP)				
BOD	TBEL	Effluent Limit:	Effluent limits shall not exceed 10 mg/l as an average monthly (SOP)				
		Rationale:	The monitoring frequency and the effluent limits assigned by the SOP.				
	TBEL	Monitoring:	The monitoring frequency shall be 1x/yr as a grab sample (SOP)				
TSS		Effluent Limit:	Effluent limits shall not exceed 10 mg/l as an average monthly (SOP)				
		Rationale:	The monitoring frequency and the effluent limits assigned by the SOP.				
Fecal		Monitoring:	The monitoring frequency shall be 1x/yr as a grab sample (SOP)				
Coliform	TBEL	Effluent Limit:	Effluent limits shall not exceed 200 MPN as a geometric mean (SOP).				
Comorm		Rationale:	The monitoring frequency and the effluent limits assigned by the SOP.				
Notes:							

- 1 The NPDES permit was limited by (a) anti-Backsliding, (b) Anti-Degradation, (c) SOP, (d) TBEL, (e) TMDL, (f) WQBEL, or (g) WET
- 2 Monitoring frequency based on flow rate of 0.0004 MGD.
- 3 SOP, New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications, Revised January 13, 2015
- 4 Water Quality Antidegradation Implementation Guidance (Document # 391-0300-002)
- 5 Phase 2 Watershed Implementation Plan Wastewater Supplement, Revised September 6, 2017

# 5.2.1 Summary of Proposed NPDES Effluent Limits

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.

The proposed NPDES effluent limitations are summarized in the table below.

PART	A - EFFLUENT LIMITA	ATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS
I. A.	For Outfall 001	_, Latitude _40° 3′ 53.00" _, Longitude _78° 18′ 35.00" _, River Mile Index _59.2 _, Stream Code _13349
	Receiving Waters:	Raystown Branch Juniata River (TSF, MF)
	Type of Effluent:	Sewage Effluent

<sup>1.</sup> The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.

Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

			Effluent L	imitations			Monitoring Red	quirements
Parameter	Mass Units	([bs/day) (1)		Concentrat	tions (mg/L)		Minimum (2)	Required
raiametei	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
BOD5	xxx	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	xxx	XXX	XXX	10.0	XXX	20.0	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

# 5.3 Summary of Proposed Permit Part C Conditions

The subject facility has the following Part C conditions.

SFTF Maintenance

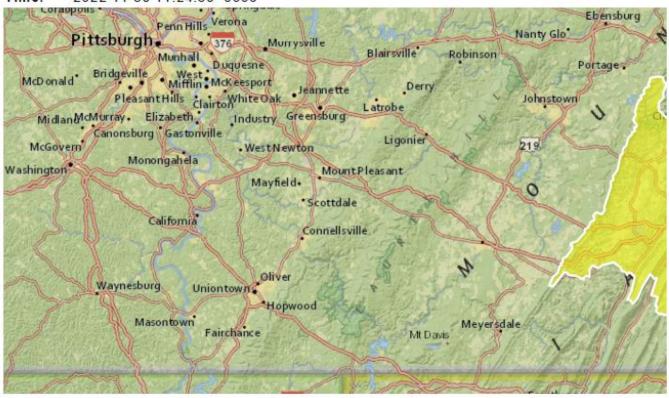
# StreamStats Report

Region ID: PA

Workspace ID: PA20221130162406913000

Clicked Point (Latitude, Longitude): 40.06517, -78.30937

Time: 2022-11-30 11:24:30 -0500



Smith Residence DBA 8418 Properties LLC PA0291722 Modeling Point #1 November 2022

Collapse All

Parameter			
Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	11.57	percent
DRNAREA	Area that drains to a point on a stream	589	square miles
ELEV	Mean Basin Elevation	1519	feet
FOREST	Percentage of area covered by forest	65.3059	percent

Parameter Code	Parameter Description	Value	Unit
PRECIP	Mean Annual Precipitation	38	inches
ROCKDEP	Depth to rock	4.1	feet
STRDEN	Stream Density total length of streams divided by drainage area	2.36	miles per square mile
URBAN	Percentage of basin with urban development	2.0267	percent

# Low-Flow Statistics

Low-Flow Statistics Parameters [99.9 Percent (589 square miles) Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	589	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	38	inches	35	50.4
STRDEN	Stream Density	2.36	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4.1	feet	3.32	5.65
CARBON	Percent Carbonate	11.57	percent	0	99

Low-Flow Statistics Flow Report [99.9 Percent (589 square miles) Low Flow Region 2]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	51.9	ft^3/s	38	38
30 Day 2 Year Low Flow	69.1	ft^3/s	33	33
7 Day 10 Year Low Flow	26.8	ft^3/s	51	51
30 Day 10 Year Low Flow	36.4	ft^3/s	46	46
90 Day 10 Year Low Flow	54.5	ft^3/s	36	36

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/)

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Application Version: 4.11.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1