

Southcentral Regional Office CLEAN WATER PROGRAM

Application Type
Wastewater Type
Facility Type

Renewal
Sewage
SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0247499

APS ID 513527

Authorization ID 1338090

Applicant Name	Ruth	Colledge	Facility Name	Colledge Residence
Applicant Address	1180	E Graceville Road	Facility Address	1180 E Graceville Road
	Breez	zewood, PA 15533-8012		Breezewood, PA 15533-8012
Applicant Contact	Ruth	Colledge	Facility Contact	Ruth Colledge
Applicant Phone	(814)	735-3463	Facility Phone	(814) 735-3463
Client ID	2258	27	Site ID	631911
SIC Code	6514		Municipality	East Providence Township
SIC Description		ns & Real Est - Dwelling Operators, ot Apartments	County	Bedford
Date Application Received December 29, 2020		December 29, 2020	WQM Required	
Date Application Accepted		January 11, 2021	WQM App. No.	

Approve	Deny	Signatures	Date
Х		Nicholas Hong, P.E. / Environmental Engineer Nick Hong (via electronic signature)	April 15, 2021
х		Daniel W. Martin, P.E. / Environmental Engineer Manager Maria D. Bebenek for Daniel W. Martin	April 20, 2021
х		Maria Bebenek, P.E. / Environmental Program Manager Maria D. Bebenek	April 20, 2021

Summary of Review

The application submitted by the applicant requests a NPDES renewal permit for the Ruth Colledge residence located at 1180 E. Graceville Road, Breezewood, PA 15533 in Bedford County, municipality of East Providence Township. The existing permit became effective on July 1, 2016 and expires(d) on June 30, 2021. The application for renewal was received by DEP Southcentral Regional Office (SCRO) on December 29, 2020.

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, a description of the facility's receiving waters attainment/non-attainment assessment status, and a description of any changes to the proposed monitoring/sampling frequency. Section 6 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 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. The applicant enclosed a copy the Act 14 letter. But no physical trace that the letter was received by the municipality or county exists. A planning approval letter was not necessary as the facility is neither new or expanding.

Utilizing the DEP's web-based Emap-PA information system, the receiving waters has been determined to be Tub Mill Run. The sequence of receiving streams that the Tub Mill Run discharges into are Raystown Branch Juniata River, the Juniata River, and the Susquehanna River which eventually drains into the Chesapeake Bay. Due to the low flow generated by the facility, the subject site is not subject to the Chesapeake Bay implementation requirements. The receiving water has protected water usage for warm water fishes (WWF) 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.

Tub Mill Run is a Category 2 stream listed in the 2020 Integrated List of All Waters (formerly 303d Listed Streams). This stream is an attaining stream that supports aquatic life. The receiving waters is not subject to a total maximum daily load (TMDL) plan to improve water quality in the subject facility's watershed.

The existing permit and proposed permit differ as follows:

• There are no changes to the monitoring frequency or effluent limits.

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: Ruth Colledge Residence

NPDES Permit # PA0247499

Physical Address: 1180 E. Graceville Road

Breezewood, PA 15533

Mailing Address: 1180 E. Graceville Road

Breezewood, PA 15533

Contact: Ruth Colledge

Homeowner

Email address: The applicant does not have an email address.

Consultant: There was not a consultant utilized for tis NPDES renewal

1.2 Permit History

Description of Facility

On January 28, 2021, a technical deficiency letter was sent to the applicant requesting copies of the Act 14 letter and at least 2 years of AMRs.

On April 5, 2021, DEP contacted the applicant on the status of the items in the technical deficiency letter. Ms. College claimed that the information was submitted in February 2021. As of April 2021, the information requested was not received. Upon consultation from DEP supervisors, the NPDES renewal application was continued for renewal. Future renewals will require a complete NPDES renewal application package for renewal.

2.0 Treatment Facility Summary

2.1.1 Site location

The physical address for the facility is 1180 E. Graceville Road, Breezewood, PA 15533. 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

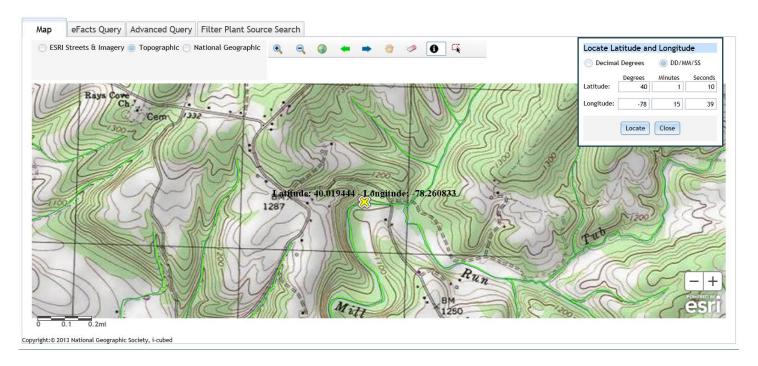
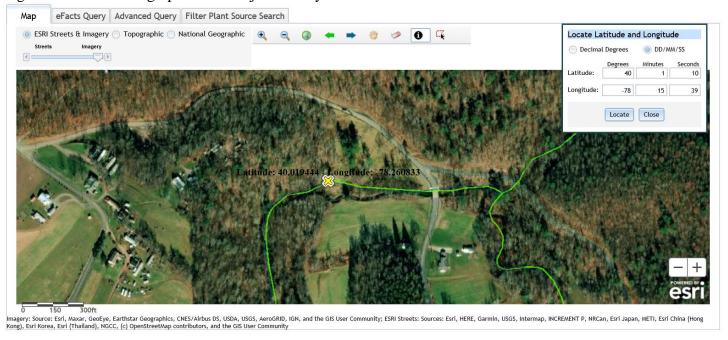


Figure 2: Aerial Photograph of the subject facility



2.2 Description of Wastewater Treatment Process

The subject facility is a 0.0004 MGD (400 GPD) design flow facility. The subject facility treats wastewater using a septic tank(s), a dosing tank (which may or may not exist upon site investigation on 09/24/2019), a free access sand filter(s), a chlorine contact tank for disinfection prior to discharge through the outfall. The facility is being evaluated for flow, TRC, BOD5, TSS, and fecal coliform. The existing permits limits for the facility is summarized in Section 2.4.

The treatment process is summarized in the table.

	Tro	eatment Facility Summar	у	
reatment Facility Nar	ne: Sfs Ruth Colledge			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Septic Tank Sand Filter	Hypochlorite	0.0004
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal
		Not Overloaded	Anaerobic Digestion	Combination of methods

2.3 Facility Outfall Information

The facility has the following outfall information for wastewater.

Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40° 1' 10.00"	Longitude	-78° 15' 39.00"
Wastewater D	escription: Sewage Effluent		

2.3.1 Operational Considerations- Chemical Additives

Chemical additives are chemical products introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. Chemicals excluded are those used for neutralization of waste streams, the production of goods, and treatment of wastewater.

The subject facility utilizes the following chemicals as part of their treatment process.

Chlorine tablets for disinfection

2.4 Existing NPDES Permits Limits

The existing NPDES permit limits are summarized in the table.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS I. A. For Outfall __001 __, Latitude __40° 1' 10" ____, Longitude __78° 15' 39" ____, River Mile Index __2.6 ___, Stream Code __14134 ___ Receiving Waters: ____Tub Mill Run Type of Effluent: _____Treated Sewage

- 1. The permittee is authorized to discharge during the period from <u>July 1, 2016</u> through <u>June 30, 2021</u>.
- 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 Limitations						Monitoring Requirements		
Parameter	Mass Units	(lbs/day) (1)	Concentrations (mg/L)				Minimum (2)	Required	
raidilietei	Average Monthly	Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	2/year	Estimate	
Total Residual Chlorine (TRC)	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab	
Biochemical Oxygen Demand (BOD5)	XXX	XXX	XXX	30.0	XXX	60.0	2/year	Grab	
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	60.0	2/year	Grab	
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	2/year	Grab	

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

at Outfall 001 or at discharge from the treatment facility

Other Comments:

The twice per year sampling shall consist of one sample taken in the summer months and one sample taken in the winter months

3.0 Facility NPDES Compliance History

3.1 Summary of Inspections

A summary of the most recent inspections during the existing permit review cycle is as follows.

The DEP inspector noted the following during the inspection.

09/24/2019:

- The outfall is located a couple hundred feet downhill from the chlorine contact tank near the stream bank.
- The WQM for the treatment system includes a dosing tank prior to the sand filter. However, upon site investigation, the tank does not exist.

3.2 Summary of DMR Data

DEP contacted the applicant for AMR data. The homeowner was not able to make available AMR data.

The off-site laboratory used for the analysis of the parameters was Fairway Laboratories located at 2019 North Avenue, Altoona, PA.

3.3 Non-Compliance

3.3.1 Non-Compliance- NPDES Effluent

A review of the facility's compliance with NPDES permit limits was not possible since no AMR data was submitted.

3.3.2 Non-Compliance- Enforcement Actions

A summary of the non-compliance enforcement actions for the current permit cycle is as follows:

Beginning in July 1, 2016 to April 11. 2021, there were no observed enforcement actions.

3.4 Summary of Biosolids Disposal

A summary of the biosolids disposed of from the facility is as follows.

A receipt confirmed that the biosolids were pumped from the tank on June 7, 2016.

3.5 Open Violations

No open violations existed as of April 2021.

4.0 Receiving Waters and Water Supply Information Detail Summary

4.1 Receiving Waters

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

4.2 Public Water Supply (PWS) Intake

The closest PWS to the subject facility is Saxton Municipal Water Authority (PWS ID # 4050021) located approximately 34 miles downstream of the subject facility on the Raystown Branch Juniata River. Based upon the distance and the flow rate of the facility, the PWS should not be impacted.

4.3 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.

4.4 2020 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 2020 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 (WWF) and migratory fishes (MF).

4.5 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 StreamStats.

The low flow yield is 0.018 ft 3 /s/mi 2 and the Q710 is 0.221 ft 3 /s.

4.6 Summary of Discharge, Receiving Waters and Wa	ater Supply Information	
Outfall No. 001 Latitude 40° 1' 9.97" Quad Name Wastewater Description: Sewage Effluent	Design Flow (MGD) .0004 Longitude -78° 15' 38.9 Quad Code) 9"
Receiving Waters Tub Mill Run (WWF) NHD Com ID 65846913 Drainage Area 12 Q ₇₋₁₀ Flow (cfs) 0.221 Elevation (ft) Watershed No. 11-D Existing Use Same as Chapter 93 class Exceptions to Use Assessment Status Attaining Use(s) supports Cause(s) of Impairment Not app Source(s) of Impairment TMDL Status Not app	Q ₇₋₁₀ Basis StreamStats Slope (ft/ft) Chapter 93 Class. WWF, MF Existing Use Qualifier Exceptions to Criteria	
Background/Ambient Data pH (SU) Not app. Temperature (°F) Not app Hardness (mg/L) Not app Other: Nearest Downstream Public Water Supply Intake PWS Waters Raystown Branch Juniata River PWS RMI 41	Saxton Municipal Water Authority Flow at Intake (cfs) Distance from Outfall (mi) 34	

5.0: Overview of Presiding Water Quality Standards

5.1 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.

5.2.1 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). Available TBEL requirements for the state of Pennsylvania are itemized in PA Code 25, Chapter 92a.47.

The presiding sources for the basis for the effluent limitations are governed by either federal or state regulation. The reference sources for each of the parameters is itemized in the tables. The following technology-based limitations apply, subject to water quality analysis and best professional judgement (BPJ) where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
BOD₅	30	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
Total Suspended				
Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Fecal Coliform				
	200 / 100 ml	Geo Mean	-	SOP

5.3 Water Quality-Based Limitations

The facility is not subject to water quality-based limits.

5.3.1 Water Quality Modeling 7.0

The facility is not subject to WQM.

5.3.2 PENTOXSD Modeling

The facility is not subject to PENTOXSD.

5.3.3 Whole Effluent Toxicity (WET)

The facility is not subject to WET.

5.4 Total Maximum Daily Loading (TMDL)

5.4.1 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.

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.

5.4.1.1 Local TMDL

The subject facility does not discharge into a local TMDL.

5.4.1.2 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 December 17, 2019.

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.

Based upon the supplement the subject facility has been categorized as a Sector C discharger. The supplement defines Sector C as a non-significant discharger that includes sewage facilities (Phase 4 facilities: \geq 0.2 MGD and < 0.4 MGD and Phase 5 facilities: \geq 0.002 MGD and < 0.2 MGD), small flow/single residence sewage treatment facilities (\leq 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.

Since this is a low flow wastewater generating facility, this facility is not subject to Sector C monitoring requirements.

5.5 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.

5.6 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). A review of the existing permit limitations with the proposed permit limitations confirm that the facility is consistent with anti-backsliding requirements. The facility has proposed effluent limitations that are as stringent as the existing permit.

6.0 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;
- b) a summary of changes from the existing NPDES permit to the proposed permit; and
- c) a summary of the proposed NPDES effluent limits.

6.1 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

6.1.1 Conventional Pollutants and Disinfection

Summary of Proposed NPDES Parameter Details for Conventional Pollutants and Disinfection							
Ruth Colledge Residence, PA0247499							
Parameter	Permit Limitation		Recommendation				
rarameter	Required by ¹ :	Neconinendation					
		Monitoring:	The monitoring frequency shall be 2x/yr as a grab sample.				
BOD	TBEL	Effluent Limit:	Effluent limits shall not exceed 30 mg/l as an average monthly.				
	IDEE	Rationale:	The facility predates the Small Flow Manual. Thus the monitoring frequency is set by best				
		rationale.	professional judgement and the effluent limits are set by TBEL in Chapter 92a.47				
		Monitoring:	The monitoring frequency shall be 2x/yr as a grab sample				
TSS	TBEL	Effluent Limit:	Effluent limits shall not exceed 30 mg/l as an average monthly				
133	IDEL	IDEL	Rationale:	The facility predates the Small Flow Manual. Thus the monitoring frequency is set by best			
		Nationale.	professional judgement and the effluent limits are set by TBEL in Chapter 92a.47				
		Monitoring:	The monitoring frequency shall be on a 1x/mo basis as a grab sample (Table 6-3).				
		Effluent Limit:	A peformance effluent limit is not required. However, the optimum TRC is 0.3 mg/l to 0.5 mg/l.				
TRC	There is no effluent	Rationale: Chl	orine in both combined (chloramine) and free form is extremely toxic to freshwater fish and other				
	requirement		tic life (Implementation Guidance Total Residual Chlorine 1).				
		•					
Fecal		Monitoring:	The monitoring frequency shall be 2x/yr as a grab sample (SOP).				
Coliform	TBEL	Effluent Limit:	Effluent limits shall not exceed 200 MPN as a geometric mean (SOP).				
Colliorin		Rationale:	The monitoring frequency and the effluent limits assigned by the SOP.				
Notes:							
1 The NPDES	permit was limited by	y (a) anti-Back	sliding, (b) Anti-Degradation, (c) SOP, (d) TBEL, (e) TMDL, (f) WQBEL, or (g) WET				
2 Monitoring fi	requency based on f	low rate of 0.00	004 MGD.				
3 SOP, New a	nd Reissuance Smal	I Flow Treatme	nt Facility Individual NPDES Permit Applications, Revised January 13, 2015				
4 Water Quali	ty Antidegradation In	nplementaton G	Suidance (Document # 391-0300-002)				
5 Phase 2 Wa	atershed Implementat	ion Plan Waste	ewater Supplement, Revised September 6, 2017				

6.2 Summary of Changes From Existing Permit to Proposed Permit

A summary of how the proposed NPDES permit differs from the existing NPDES permit is summarized as follows.

• There are no changes to the monitoring frequency or effluent limits.

6.3.1 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 LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS				
I. A. For Outfall 001	, Latitude _40° 1' 10.00", Longitude _78° 15' 39.00", River Mile Index _2.8, Stream Code _14134			
Receiving Waters:	Tub Mill Run (WWF)			
Type of Effluent:	Sewage Effluent			

^{1.} 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 Limitations						Monitoring Requirements	
Parameter	Mass Units	(lbs(day) (1)	Concentrations (mg/L)				Minimum (2)	Required
i arameter	Average Monthly	Average Weekly	Minimum	Semi-Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report SEMI AVG	XXX	XXX	XXX	XXX	XXX	2/year	Estimate
TRC	XXX	XXX	xxx	Report Avg Mo	XXX	XXX	1/month	Grab
BOD5	XXX	XXX	xxx	30.0	XXX	60.0	2/year	Grab
TSS	XXX	XXX	xxx	30.0	XXX	60.0	2/year	Grab
Fecal Coliform (No./100 ml)	xxx	XXX	xxx	200	XXX	XXX	2/year	Grab

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

at Outfall 001

6.3.2 Summary of Proposed Permit Part C Conditions

The subject facility has the following Part C conditions.

- SFTF Maintenance
- Chlorine Minimization

		Tools and References Used to Develop Permit
	1	WOM for Windows Model (see Attachment
	<u>. </u>	WQM for Windows Model (see Attachment) PENTOXSD for Windows Model (see Attachment)
	<u>]</u>]	TRC Model Spreadsheet (see Attachment)
	<u>. </u>	Temperature Model Spreadsheet (see Attachment)
	<u>]</u>]	Toxics Screening Analysis Spreadsheet (see Attachment)
	<u>. </u>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
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