

## Southcentral Regional Office CLEAN WATER PROGRAM

Application Type

Wastewater Type

Facility Type

Sewage

SRSTP

# NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0265977

 APS ID
 854551

 Authorization ID
 1291867

Applicant Name	Richa	ard R Stone	_ Facility Name	Stone Residence
Applicant Address	5260	Pinchtown Road	_ Facility Address	5260 Pinchtown Road
	Dove	r, PA 17315-4024	<del>_</del>	Dover, PA 17315-4024
Applicant Contact	Richa	ard Stone	_ Facility Contact	Richard Stone
Applicant Phone	(717)	880-2101	_ Facility Phone	(717) 880-2101
Client ID	3152	20	Site ID	787352
SIC Code	4952		_ Municipality	Dover Township
SIC Description	Trans	s. & Utilities - Sewerage Systems	County	York
Date Application Rec	eived	October 7, 2019	WQM Required	
Date Application Accepted October		October 16, 2019	WQM App. No.	

#### **Summary of Review**

Approve	Deny	Signatures	Date
		Nicholas Hong, P.E. / Environmental Engineer	
X		Nick Hong (via electronic signature)	July 29, 2020
		Daniel W. Martin, P.E. / Environmental Engineer Manager	
		Maria Bebenek, P.E. / Environmental Program Manager	

#### **Summary of Review**

The application submitted by the applicant requests a NPDES renewal permit for the Stone Residence located at 5260 Pinchtown Road, Dover, PA 17315 in York County, municipality of Dover Township. The existing permit became effective on March 1, 2015 and expired on February 29, 2020. The application for renewal was received by DEP Southcentral Regional Office (SCRO) on October 7, 2019.

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 disclosed the Act 14 requirement to York County Board of Commissioners and Dover Township and the notice was received by the parties on July 16, 2019. 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 a Tributary 08751 to Conewago Creek. The sequence of receiving streams that the Tributary 08751 to Conewago Creek discharges into are the Conewago Creek, 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 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.

The Tributary 08751 to Conewago Creek is a Category 4c stream listed in the 2018 Integrated List of All Waters (formerly 303d Listed Streams). This stream is an impaired stream for aquatic life due to water/flow variability. 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 in the monitoring frequency or effluent limits in the proposed permit.

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: Stone Residence

NPDES Permit # PA0265977

Physical Address: 5260 Pinchtown Road

Dover, PA 17315

Mailing Address: 5260 Pinchtown Road

Dover, PA 17315

Contact: Richard Stone

Homeowner

No email address on file

Consultant: There was not a consultant utilized for this NPDES renewal.

#### **1.2 Permit History**

Description of Facility

In the application dated for October 4, 2018, the homeowner notes that the treatment system has not been installed.

Per phone conversation with the homeowner on July 24, 2020, the homeowner states that the system should complete the installation within a few weeks.

The discharge is to a dry stream that ultimately discharges to Tributary 08751 to Conewago Creek.

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 5260 Pinchtown Road, Dover, PA 17315. A topographical and an aerial photograph of the facility are depicted as Figure 1 and Figure 2.

## NPDES Permit Fact Sheet Stone Residence

Figure 1: Topographical map of the subject facility

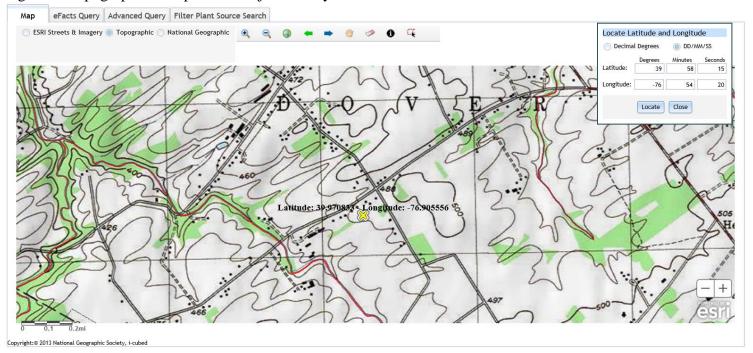


Figure 2: Aerial Photograph of the subject facility



#### NPDES Permit Fact Sheet Stone Residence 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 1,500-gal two compartment septic tank with an effluent filter, an Ecoflo Peat Filter (STB-570PR), and UV disinfection prior to discharge through the outfall. The facility is being evaluated for flow, pH, CBOD5, 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.

	Treatment Facility Summary							
Treatment Facility Na	me: Stone SRSTP							
WQM Permit No.	Issuance Date							
6714402	02/20/2015							
	Degree of			Avg Annual				
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)				
Sewage	Secondary	Ecoflo Peat Filter	Ultraviolet	0.0004				
Hydraulic Capacity	Organic Capacity			Biosolids				
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal				
0.0004		Not Overloaded		Other WWTP				

#### 2.3 Facility Outfall Information

The facility has the following outfall information for wastewater.

Outfall No.	001		Design Flow (MGD)	.0004
Latitude	39° 58' 15.00	)"	Longitude	-76° 54' 20.00"
Wastewater D	escription:	Sewage Effluent		

#### **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 <u>39° 58' 15.00"</u> , Longitude <u>76° 54' 20.00"</u> , River Mile Index <u>0.5600</u> , Stream Code <u>08751</u>	_
	Receiving Waters:	Unnamed Tributary to Conewago Creek	
	Type of Effluent:	Treated Sewage	

- 1. The permittee is authorized to discharge during the period from March 1, 2015 through February 29, 2020
- 2. 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)		Concentrat	ions (mg/L)		Minimum (2)	Required
raiametei	Average Monthly		Minimum	Average Monthly		Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	xxx	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/year	Grab
CBOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Total Suspended Solids	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	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 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.

In the application dated for October 4, 2018, the homeowner notes that the treatment system has not been installed.

There was not available inspection notes in DEP files.

#### 3.2 Summary of DMR Data

There was not any available DMR data.

In the application dated for October 4, 2018, the homeowner notes that the treatment system has not been installed.

Per phone conversation with the homeowner on July 24, 2020, the homeowner states that the system should complete the installation within a few weeks.

#### 3.3 Non-Compliance

#### 3.3.1 Non-Compliance- NPDES Effluent

A summary of the non-compliance to the permit limits for the existing permit cycle is as follows.

In the application dated for October 4, 2018, the homeowner notes that the treatment system has not been installed.

Thus, there the non-compliance with NDPES effluent limits is not applicable.

#### 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 March 1, 2015 and ending July 23, 2020, there were the following observed enforcement actions.

## Summary of Enforcement Actions Beginning March 1, 2015 and Ending July 23, 2020

ENF ID	ENF TYPE	ENF TYPE DESC	DATE	EXECUTED DATE	INITIATED DATE	VIOLATIONS	ENF FINALSTATUS	DATE
<u>379156</u>	NOV	Notice of Violation	09/26/2019	09/26/2019	09/01/2019	92A.75(A)	Comply/Closed	10/07/2019

#### 3.4 Summary of Biosolids Disposal

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

In the application dated for October 4, 2018, the homeowner notes that the treatment system has not been installed.

Thus, there are no biosolids disposal.

#### 3.5 Open Violations

No open violations existed as of July 2020.

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

#### **4.1 Receiving Waters**

The receiving waters has been determined to be a Tributary 08751 to Conewago Creek. The sequence of receiving streams that the Tributary 08751 to Conewago Creek discharges into are the Conewago Creek, 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 the Wrightsville Borough Municipal Authority (PWS ID #7670097) located approximately 45 miles downstream of the subject facility on the Susquehanna 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 2018 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.

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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 2018 Pennsylvania Integrated Water Quality Monitoring and Assessment Report as a Category 2 waterbody. The surface waters is an impaired stream for aquatic life due to water/flow variability. 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 as shown below.

The discharge will be to a dry stream which ultimately discharges to Tributary 08751 of Conewago Creek. No Q710 or drainage area was determined at the point of discharge.

6 Summary of Disc	charge, r	Receiving waters and v	vater Supply information	
0 (6.11.11.			D (MOD)	0004
Outfall No. 001		<u> </u>	_ Design Flow (MGD)	.0004
	58' 4.99		_ Longitude	-76º 54' 30.19""
Quad Name	. ,.	0 5" .	Quad Code	-
Wastewater Descr	iption: _	Sewage Effluent		
	Unnan	ned Tributary to Conewa	αo	
Receiving Waters		(WWF, MF)	0	8751
NHD Com ID	57469	323	RMI	0.5600
Drainage Area	Dry St	ream	Yield (cfs/mi²)	Dry Stream
Q <sub>7-10</sub> Flow (cfs)	Dry St	ream	Q <sub>7-10</sub> Basis	Dry Stream
Elevation (ft)	476		Slope (ft/ft)	
				Warm Water Fishes,
Watershed No.	07F		Chapter 93 Class.	Migratory Fishes
Existing Use	Same	as Chapter 93 class	Existing Use Qualifier	
Exceptions to Use	-		Exceptions to Criteria	
Assessment Status	-	Impaired		
Cause(s) of Impair	-	FLOW REGIME MODIF		
Source(s) of Impai	rment		ROSTRUCTURE FLOW REGULA	TION/MODIFICATION
TMDL Status	-	Not applicable	Name	
Background/Ambie	ent Data		Data Source	
pH (SU)		Not appl.		
Temperature (°F)		Not appl.		
Hardness (mg/L)		Not appl.		
Other:		Not appl.		
Nearest Downstrea	am Public	: Water Supply Intake	Wrightsville Borough Municipa	al Authority
		anna River	Flow at Intake (cfs)	
<del>-</del>	43	·	Distance from Outfall (mi)	45

#### 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).

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)	Report fo	or SRSTPs	Grab	1/month	
Fecal Coliform (No/100 ml)	200 Geometric Mean		Grab	1/year	

NPDES Permit Fact Sheet Stone Residence 5.3 Water Quality-Based Limitations

The facility is not subject to WQBEL.

#### 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.

### NPDES Permit Fact Sheet Stone Residence

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: > 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.

Due to the low flow rate generated by this 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**

			Stone Residence, PA0265977
Parameter	Permit Limitation		Recommendation
rarameter	Required by <sup>1</sup> :		Reconfinentiation
		Monitoring:	The monitoring frequency shall be 1x/yr as a grab sample (SOP)
CBOD	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.
		Monitoring:	The monitoring frequency shall be 1x/yr as a grab sample.
рН	Antibacksliding	Effluent Limit:	Effluent limits shall range between 6.0 and 9.0.
		Rationale:	Due to anti-backsliding regulations, this parameter will remain in the proposed permit.
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).
Comorni		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 Implementaton Guidance (Document # 391-0300-002)
- 5 Phase 2 Watershed Implementation Plan Wastewater 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 in the monitoring frequency or effluent limits in the proposed permit.

#### **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.

PAR	ART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS									
I. A.	For Outfall 001	_, Latitude <u>39° 58' 15.00"</u> , Longitude <u>76° 54' 20.00"</u> , River Mile Index <u>0.5600</u> , Stream Code <u>8751</u>								
	Receiving Waters:	Unnamed Tributary to Conewago Creek (WWF, MF)								
	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)		Concentrat	tions (mg/L)		Minimum (2)	Required
Farameter	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
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	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/vear	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