

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0216101
APS ID 1000823
Authorization ID 1286827

Applicant, Facility and Project Information

Applicant Name	<u>Kerry Beener</u>	Facility Name	<u>Kerry Beener SRSTP</u>
Applicant Address	<u>144 Berry Road</u> <u>Rockwood, PA 15557-6928</u>	Facility Address	<u>144 Berry Road</u> <u>Rockwood, PA 15557-6928</u>
Applicant Contact	<u>Kerry Beener</u>	Facility Contact	<u>***same as applicant***</u>
Applicant Phone	<u>(814) 926-3469</u>	Facility Phone	<u>***same as applicant***</u>
Client ID	<u>44576</u>	Site ID	<u>1546</u>
SIC Code	<u>4952</u>	Municipality	<u>Milford Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Somerset</u>
Date Application Received	<u>September 3, 2019</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>September 27, 2019</u>	WQM Permit No.	<u>5693405 (issued October 19, 1993)</u>
Project Description	<u>Renewal of an NPDES permit for a single residence sewage treatment plant.</u>		

Summary of Review

On September 3, 2019, DEP received an application from Mr. Kerry Beener to renew NPDES Permit PA0216101 for discharges of treated sewage from a single residence sewage treatment plant (SRSTP). The current NPDES permit was issued on February 12, 2015 with an effective date of March 1, 2015 and an expiration date of February 29, 2020. Mr. Beener was notified by letter dated September 4, 2019 that the permit application was deficient due to a missing Act 14 notification. The missing Act 14 notification was submitted on September 27, 2019.

WQM Permit No. 5693405 was issued on October 19, 1993 to authorize construction and operation of the SRSTP. The plant replaced a malfunctioning on-lot system. The existing SRSTP consists of two 1000-gallon septic tanks, one 300-gallon dosing tank with a pump, a 600-square foot subsurface sand filter, an erosion-fed tablet chlorinator for disinfection using calcium hypochlorite tablets, and a 200-gallon chlorine contact tank. The plant was designed for a three-bedroom home and is rated for 400 gpd.

The receiving stream — South Glade Creek designated for warm water fishes — is identified as a perennial stream. Effluent limits based on secondary treatment were imposed in previous permits based on 25 Pa. Code § 92.2c(a) and 40 CFR § 133.102 (see attached Pollution Report from 1993). The effluent limits included 25 mg/L average monthly and 50 mg/L maximum daily limits for CBOD5; 30 mg/L average monthly and 60 mg/L maximum daily limits for Total Suspended Solids; effluent limits for pH (6.0 minimum and 9.0 maximum); and effluent limits for fecal coliform bacteria (200/100mL average and 1000/100mL maximum from October 1 through April 30 and 2000/100mL average and 10000/100mL maximum from May 1 through September 30). Quarterly reporting for Total Residual Chlorine (TRC) was added to the permit in 2015.

When the NPDES permit was first issued on October 19, 1993, secondary treatment limits were considered appropriate by the regional office for SRSTPs discharging to perennial streams.

The Department's *Standard Operating Procedure for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications* (SOP No. BCW-PMT-003) states that existing effluent limitations can be

Approve	Deny	Signatures	Date
X		<i>Ryan C. Decker</i> Ryan C. Decker, P.E. / Environmental Engineer	March 11, 2021
X		<i>Donald J. Leone</i> Donald J. Leone, P.E. / Environmental Engineer Manager	March 12, 2021

Summary of Review

maintained instead of tertiary limits (10 mg/L average for BOD and TSS) if the treatment facilities are not capable of meeting tertiary treatment limits and if there are no documented compliance concerns.

Violations for the Kerry Beener SRSTP were last identified in response to an August 22, 2013 inspection of the facility. The Department issued a Notice of Violation (NOV) to Mr. Beener on October 2, 2013 for discharging without a permit and for failing to collect samples and submit Discharge Monitoring Reports in accordance with the permit.

A review of the DMR file after 2013 revealed that DEP does not have the following on file:

- Quarterly results for TRC from the first, second, and third quarters of 2014 (no DMRs on file)
- Yearly results for CBOD5, TSS, and Fecal Coliform from 2014
- Yearly results for pH from 2015
- Quarter results for TRC from the four quarter of 2016 (a DMR was submitted, but it is not clear whether there was a discharge)
- Yearly results for CBOD5, TSS, and Fecal Coliform from 2016
- Quarterly results for TRC from the first and third quarters of 2017 (no DMRs on file)
- Quarterly results for TRC from the second, third, and fourth quarters of 2019 (no DMRs on file)
- Yearly results for CBOD5, TSS, and Fecal Coliform from 2019
- Quarterly and yearly DMRs from 2020
- Annual Maintenance Reports from at least the last five years (2015 to 2020)

Rather than transmit a deficiency letter and delay publication of the draft permit, the cover letter for the draft permit will request that the permittee submit the missing DMRs and AMRs during the 30-day draft permit comment period.

Since the existing SRSTP was not designed to achieve tertiary limits and since there have been no effluent violations (only apparent violations of the permit's sampling and DMR submission requirements), existing monitoring requirements for TRC and effluent limits for flow, pH, CBOD-5, TSS based on secondary treatment will be maintained in accordance with current Department regulations (25 Pa. Code § 92a.47(a)) and DEP's Standard Operating Procedure for Small Flow Treatment Facilities.

Fecal coliform limits will be changed to eliminate the 2000/100mL and 10000/100mL limits from October 1 to April 30 and the 1000/100mL limit from May 1 through September 30. The current permit requires fecal coliform analyses 1/year with two sets of limits in two separate limiting periods. Once per year sampling with two limiting periods per year allows the permittee to sample 1/year and always choose to collect the yearly fecal coliform samples within the October 1 to April 30 limiting period that has the less stringent limits, effectively having to never demonstrate compliance with the 200/100mL limit, which is the baseline limit for SRSTPs in DEP's Standard Operating Procedure for Small Flow Treatment Facilities (SOP No. BCW-PMT-003).

Flow must be estimated 1/year. TRC will require 1/quarter grab sampling. All other parameters will require 1/year grab sampling. The measurement frequencies and sample types are the same as those in the previous NPDES permit.

Stream Impairment

The aquatic life use of South Glade Creek (warm water fishes) is listed as impaired due to siltation from agriculture. The discharges covered by NPDES Permit PA0216101 are not from an agricultural source and TSS in the Kerry Beener SRSTP's discharges is already subject to technology-based effluent limits for TSS. When TSS results were reported in 2015, 2017, and 2018, the concentrations were low (5 mg/L, 12 mg/L, and <2 mg/L, respectively) indicating that the SRSTP's discharges are not contributing to the siltation-based impairment.

If a TMDL is developed to address the siltation-based impairment of South Glade Creek, then NPDES Permit PA0216101 will be updated to be consistent with that TMDL. In the meantime, the existing TSS limits will control the SRSTP's load contributions to the watershed.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*,

Summary of Review

DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>39° 55' 50.00"</u>	Longitude	<u>-79° 10' 27.00"</u>
Quad Name	<u>Rockwood</u>	Quad Code	<u>1912</u>
Wastewater Description: <u>Sewage effluent</u>			
Receiving Waters	<u>South Glade Creek (WWF)</u>	Stream Code	<u>38914</u>
NHD Com ID	<u>69918859</u>	RMI	<u>3.60</u>
Drainage Area	<u>5.7</u>	Yield (cfs/mi ²)	<u>0.01689</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0963</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1,993.44</u>	Slope (ft/ft)	<u>0.0054</u>
Watershed No.	<u>19-F</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>Siltation</u>		
Source(s) of Impairment	<u>Agriculture</u>		
TMDL Status	<u></u>	Name	<u></u>
Nearest Downstream Public Water Supply Intake	<u>Indian Creek Valley Water Authority (PWS ID 5260011)</u>		
PWS Waters	<u>Youghiogheny River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>63.26</u>	Distance from Outfall (mi)	<u>34.44</u>

Changes Since Last Permit Issuance: None

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality 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.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Annual Average	Average Weekly	Instant. Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	0.0004	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/year	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	25.0	XXX	50.0	1/year	Grab
Total Suspended Solids (TSS)	XXX	XXX	XXX	30.0	XXX	60.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments:

POLLUTION REPORT

(I) Project Description New Discharge Change
Existing Discharge Preliminary

A. NPDES Application/Permit No. PA 0216101
Part II Permit Nos. 5698405

B. Applicant, Case Name or Permittee: Kerry Beener
Municipality: Milford Township
County: Somerset County

C. Type Waste Sewage
 Industrial
 Mine
D. Source and characteristics domestic sewage from a residential
3 bedroom home

E. USGS Quad: Rockwood, PA

F. Latitude (or in. N) 39° 55' 50"
Longitude (or in. W) 79° 10' 21"

(II) Water Uses and Criteria

A. Receiving waters South Glade Creek Stream code 38914
Chapter 93 classification WWF R.M.I. 3.60
D.A. - sq.mi. Yield - cfs/sq.mi.
Flow see "fact sheet" cfs. Based on data from Chap 93-186, PA Gazette (12/15/7)
Elevation - ft.

Exceptions to standard water use lists: - Water Quality Criteria-Exceptions to Specific Criteria: -
Add - Delete -

Impoundment -
Special Downstream Uses: -

B. Secondary Waters Casselman River R.M.I. 20.50
Distance from discharge - mi. Ch. 93 classification WWF
D.A. - sq.mi. Yield - cfs/sq.mi.
Flow - cfs. Based on data from Sum 4 - above
Elevation - ft. Stream Code 38579

Exceptions to standard water use lists: - Water Quality Criteria-Exceptions to Specific Criteria: -
Add - Delete -

Impoundment -
Special Downstream Uses: -

Downstream PWS: location -
distance from discharge - mi. intake - mgd.
stream flow at intake - cfs.

III. Effluent Limitations:

A. Outfall 001

B. Discharge Volume 400 gpd

Parameter (Sewage) (Industrial Waste)	lbs/day			mg/l		
	Monthly Avg.	Weekly Avg.	Daily Max.	Monthly Avg.	Weekly Avg.	Instan. Max.
	<u>Daily Avg.</u>		<u>Daily Max.</u>	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Instan. Max.</u>
1. CBODs				25		50
2. Total Suspended Solids				30		60
3. Fecal Coliform	5/1 - 9/30			200/100ml		1000/100 ml
4.	10/1 - 4/30			2000/100 ml		
5. pH	within	the range of		6.0 to 9.0	standard	units
6.						
7.						
8.						
9.						
10.						
11.						
12.						

Effluent Limitation Rational

- EPA Guidelines _____
- Regulation: _____
- Water Quality Criteria secondary limits - Regional Office single residence treatment policy for full flowing streams
exception: Fecal coliform is limited to the standard condition

Approvals

Reviewer, Planning/WQ [Signature] Date 05/17/93
 Geologist or Aquatic Biologist _____ Date _____
 Chief, Planning/WQ [Signature] 8/11/93 Date 10/14/93
 Chief, Division of WQ _____ Date _____

PERMIT # 0216101
APPLICANT Kerry Beener
RECEIVING WATERS South Glade Creek

The discharge limits are based on the Pittsburgh Regional Office's Single Residence Sewage Treatment Policy as formulated on December 10, 1987. Discharges to a full flowing stream will receive secondary limits. Therefore, impose the following limitations:

CBOD-5DAY	- 25 / 50
TOTAL SUSPENDED SOLIDS	- 30 / 60
FECAL COLIFORM (5/1-9/30)	- 200/100 MG/L
(10/1-4/30)	- 2000/100 MG/L
PH	Within range of 6.0-9.0 standard units

COMMENTS -
