

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SFTF

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

Application No. PA0058548  
APS ID 1081113  
Authorization ID 1427265

**Applicant, Facility and Project Information**

Applicant Name	<u>Keelersville Club</u>	Facility Name	<u>Keelersville Club STP</u>
Applicant Address	<u>2522 Ridge Road</u> <u>Perkasie, PA 18944</u>	Facility Address	<u>2522 Ridge Road</u> <u>Perkasie, PA 18944</u>
Applicant Contact	<u>Alan Gerhart</u>	Facility Contact	<u>Daniel Wurst</u>
Applicant Phone	<u>(215) 920-9782</u>	Facility Phone	<u>(267) 718-3861</u>
Client ID	<u>39272</u>	Site ID	<u>251388</u>
SIC Code	<u>4952</u>	Municipality	<u>East Rockhill Township</u>
SIC Description	<u>Trans. &amp; Utilities - Sewerage Systems</u>	County	<u>Bucks</u>
Date Application Received	<u>February 15, 2023</u>	WQM Required	<u></u>
Date Application Accepted	<u></u>	WQM App. No.	<u></u>
Project Description	<u>Permit Renewal.</u>		

**Summary of Review**

The applicant request renewal of an NPDES permit to discharge 1,000 gallons per day (GPD) of treated sewage into unnamed tributary to Three Mile Run from a sewage treatment plant serving Keelersville Club.

The treatment plant consists of a BioMicrobics System with a grease trap, two equalization tanks, a denitrification unit, two sand filters, and UV disinfection. The effluent limits are based on southeast region BAT limits for headwater discharges that will protect groundwater since the discharge is into dry/intermittent swale. The discharge is located upstream of Lake Nockamixon and the Phosphorus limit of 0.5 mg/l is consistent with the wasteload allocation contained in "Total Maximum Daily Load (TMDL) for Lake Nockmixon date March 10, 2003, to address nutrient impairment. This permit was amended on April 13, 2011 to revise effluent limit for Phosphorus to 0.9 mg/l from 0.5 mg/l. The department had initiated this amendment to address the issues with meeting loading and concentration limits for Total Phosphorous. The TMDL was based on the discharge flow of 0.0018 mgd and WLA of 0.234 lbs/mo as listed in approved TMDL. However, the provided data indicated the average flow from the facility is 0.001 mgd. Department recalculated concentration and average monthly loading for Total Phosphorus as 0.9 mg/l (av. mo) and 0.008 lbs/day (av. mo) based on corrected flow of 0.001 mgd. The discharge flow varies from 200 GPD to 500 GPD. Discharge is generally in compliance with effluent limits in the current permit. Effluent limits for all the parameters will remain the same in this permit. Effluent limit of 15 mg/l for Oil and Grease was included in the previous permit renewal. Grease Tank is used for pretreatment of sewage, therefore it is expected that the discharge should meet the effluent limit for Oil & Grease. We have included quarterly monitoring for E. Coli which is consistent with our SOP. We have also included UV Monitoring for this permit renewal.

East Rockhill Township received written notification on January 30, 2023, by certified mail regarding this application to the Department.

Bucks County Commissioners received written notification on January 30, 2023, by certified mail regarding this application to the Department.

Approve	Deny	Signatures	Date
X		<i>Ketan Thaker</i> Ketan Thaker / Project Manager	6/14/2023
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	06/14/2023

**Summary of Review**

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.001</u>
Latitude	<u>40° 24' 47.74"</u>	Longitude	<u>-75° 15' 37.85"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Threemile Run (TSF)</u>	Stream Code	<u>03170</u>
NHD Com ID	<u>26053510</u>	RMI	<u>0.66</u>
Drainage Area	_____	Yield (cfs/mi <sup>2</sup> )	_____
Q <sub>7-10</sub> Flow (cfs)	_____	Q <sub>7-10</sub> Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-D</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____
Background/Ambient Data		Data Source	
pH (SU)	_____	_____	
Temperature (°F)	_____	_____	
Hardness (mg/L)	_____	_____	
Other:	_____	_____	
Nearest Downstream Public Water Supply Intake			
PWS Waters	_____	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	_____

<b>Treatment Facility Summary</b>				
<b>Treatment Facility Name:</b> Keelersville Club STP				
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary with Total Nitrogen Reduction	Extended Aeration	Ultraviolet	0.001
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.001		Not Overloaded	Aerobic Digestion	Other WWTP

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Instantaneous Minimum	Average Quarterly	Maximum	Instant. Maximum		
Flow (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/week	Grab
DO	XXX	XXX	6.0	XXX	XXX	XXX	1/week	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	1/quarter	8-Hr Composite
TSS	XXX	XXX	XXX	10.0	XXX	20	1/quarter	8-Hr Composite
Oil and Grease	XXX	XXX	XXX	15.0 Avg Mo	XXX	30.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	50 Geo Mean	XXX	1000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	50 Geo Mean	XXX	1000	1/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
UV Intensity (mW/cm <sup>2</sup> )	XXX	XXX	Report	XXX	XXX	XXX	1/month	Metered
Nitrate-Nitrite	XXX	XXX	XXX	10.0	XXX	20	1/quarter	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	8-Hr Composite
Ammonia	XXX	XXX	XXX	3.0	XXX	6	1/quarter	8-Hr Composite
Total Phosphorus	0.008 Avg Qrtly	XXX	XXX	0.9	XXX	1.8	1/quarter	8-Hr Composite