

Application Type Renewal  
Facility Type Non-Municipal  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0102181  
APS ID 687258  
Authorization ID 1285269

**Applicant and Facility Information**

Applicant Name	<u>Venango County</u>	Facility Name	<u>Two Mile Run County Park</u>
Applicant Address	<u>1174 Elk St Courthouse Annex PO Box 831</u> <u>Franklin, PA 16323</u>	Facility Address	<u>471 Beach Road</u> <u>Franklin, PA 16323-7519</u>
Applicant Contact	<u>Sam Breene, Chairman</u>	Facility Contact	<u>Luke Kauffman, Park Director</u>
Applicant Phone	<u>814-432-9501</u>	Facility Phone	<u>(814) 676-6116</u>
Applicant E-Mail	<u>sbreene@co.venango.pa.us</u>	Facility E-Mail	<u>lkauffman@co.venango.pa.us</u>
Client ID	<u>24051</u>	Site ID	<u>450406</u>
Municipality	<u>Sugarcreek Borough</u>	County	<u>Venango</u>
Ch 94 Status	<u>Not Overloaded</u>	Connection Status	<u>No Limitations</u>
SIC Code	<u></u>	SIC Code	<u>4952</u>
SIC description	<u></u>	SIC description	<u>Sewage facilities</u>
Received	<u>August 1, 2019</u>	EPA Waived?	<u>Yes</u>
Accepted	<u>August 11, 2019</u>	If No, Reason	<u></u>

Purpose of Application NPDES permit renewal

**Summary of Review**

No current open violations filed. Site Name is Two Mile Run County Park.

Proposed changes are a technology based 4.0-mg/L daily minimum dissolved oxygen limitation and daily dissolved oxygen, pH and total residual chlorine monitoring,

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.

Approve	Deny	Signatures	Date
X		William H. Mentzer William H. Mentzer, P.E. Environmental Engineering Specialist	June 29, 2020
X		Justin C. Dickey Justin C. Dickey, P.E. Environmental Engineer Manager	July 17, 2020

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.02</u>
Latitude NHD	<u>41° 27' 56.43"</u>	Longitude NHD	<u>-79° 46' 17.56"</u>
Latitude DP	<u>41° 27' 55.86"</u>	Longitude DP	<u>-79° 46' 18.73"</u>
Quad Name	<u>Franklin</u>	Quad Code	<u>0707</u>
Wastewater:	<u>Sewage Effluent</u>		

Receiving Waters	<u>Twomile Run</u>	Stream Code	<u>54094</u>
NHD Com ID	<u>100475937</u>	RMI	<u>5.07</u>
Drainage Area	<u>8.6</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.1</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.86</u>	Q <sub>7-10</sub> Basis	<u>default</u>
Elevation (ft)	<u>1170.25</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>16-E</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>Statewide</u>	Existing Use Qualifier	<u>none</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>none</u>
Comments	<u>Outfall is below the reservoir and 0.45 mile above an unnamed tributary</u>		

Assessment Status Attaining Use(s)

Cause(s) of Impairment \_\_\_\_\_

Source(s) of Impairment \_\_\_\_\_

TMDL Status \_\_\_\_\_ Name \_\_\_\_\_

Background/Ambient Data		Data Source	
pH (SU)	<u></u>		<u></u>
Temperature (°C)	<u>20</u>	<u>CWF default</u>	<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>

Nearest Downstream Public Water Supply Intake	<u>Aqua Pa (Emlenton Water Co)</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>NA</u>
PWS RMI	<u>90.57</u>	Distance from Outfall (mi)	<u>32</u>

Changes Since Last Permit Issuance: none

Other Comments: No downstream water supply impairments are expected

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Two Mile Run County Park				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
6172414-T4				
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary	Activated Sludge	Hypochlorite	0.02
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.02	90	Not Overloaded	Aerobic Digestion	Off-site

Changes Since Last Permit Issuance: none

The facility is located in Oakland Township and the discharge is located in Sugarcreek Borough.

Other Comments: Comminutor w/ bypass bar screen, Extended Aeration, Final Settling & Chlorination.

**Compliance History**

**DMR Data for Outfall 001 (from August 1, 2018 to July 31, 2019)**

Parameter	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18
Flow (MGD) Average Monthly	0.002	0.0018	0.00085	0.0017	0.00025	0.0008	0.00049	0.0065	0.0011	0.012	0.0014	0.0032
pH (S.U.) Minimum	6.37	6.72	7.17	7.46	7.53	7.69	7.48	7.65	7.36	6.89	6.46	6.14
pH (S.U.) Maximum	7.48	7.31	7.57	7.62	7.63	7.81	7.7	7.85	7.81	7.82	7.54	7.1
TRC (mg/L) Average Monthly	0.2	0.3	0.5	0.4	0.3	0.1	0.6	1.3	0.5	0.07	0.6	0.7
TRC (mg/L) InstMaximum	0.4	1.08	0.72	1.06	0.51	0.2	2.15	2.2	0.79	0.95	0.95	1.5
CBOD5 (mg/L) Average Monthly	< 3	< 3	< 2.0	< 2.0	< 2	< 2	< 2.0	< 2	< 2	< 2	< 2	< 3
TSS (mg/L) Average Monthly	< 12	11	< 7	16	19	16	9	< 10	20	10	< 10	8
Fecal (CFU/100 ml) Geometric Mean	< 100	< 75	< 10	< 10	< 10	< 30	< 10	9	< 18	< 10	< 10	38
Fecal (CFU/100 ml) Instant Maximum	460	2600	< 10	< 10	< 10	90	< 10	9	32	< 10	< 10	105
Total Nitrogen (mg/L) Average Monthly								9.7				
Total Phosphorus (mg/L) Average Monthly								0.68				

**Compliance History**

**Effluent Violations for Outfall 001, from: September 1, 2018 to: July 31, 2019**

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Fecal Coliform	06/30/19	IMAX	2600	CFU/100 ml	1000	CFU/100 ml

**Development of Effluent Limitations**

Outfall No. 001 Design Flow (MGD) .02  
 Latitude 41° 27' 55.86" Longitude -79° 46' 18.73"  
 Wastewater Description: Sewage Effluent

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
DO	4.0 mg/L	Daily Minimum		BPJ

Comments: DO added

**Water Quality-Based Limitations**

A "Reasonable Potential Analysis" Nbased on the Sewerage Program determined the following parameters were candidates for limitations: CBOD<sub>5</sub>, TSS, phosphorus, nitrogen, ammonia, pH, DO and TRC. Nitrogen and phosphorus are to be monitored. CBOD<sub>5</sub>, DO, and ammonia evaluated with WQM7. The TRC spreadsheet used to evaluate chlorine. PH is limited to between 6.0 to 9.0 SU by water quality and secondary treatment.

The following limitations were determined through water quality modeling (output files attached):

Parameter		Limit (mg/l)			SBC	Model		
Name	Period	minimum	average	maximum		minimum	average	maximum
CBOD <sub>5</sub>			25.0	50.0			25.0	50.0
ammonia	summer						25.0	50.0
DO		4.0				4.0		
TRC			0.5	1.6			0.480	1.57

The water quality-based requirements are essential the TRC BAT requirements. *No compliance schedule is being proposed as part of the draft permit considering that the facility appears to be able to achieve the final limits.*

**Best Professional Judgment (BPJ) Limitations**

Comments: 4.0-mg/L DO

**Anti-Backsliding**

Not appropriate

**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	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
DO	XXX	XXX	4.0	XXX	XXX	XXX	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60.0	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 – Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 – Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Ammonia as Nitrogen	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite

Compliance Sampling Location: Outfall 001 after disinfection