

Southwest Regional Office CLEAN WATER PROGRAM

Application Type
Renewal
NonFacility Type
Municipal
Major / Minor
Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0255173

1045326

Authorization ID 1365045

APS ID

Applicant and Facility Information								
Applicant Name	Consol	PA Coal Co. LLC	Facility Name	Enlow Fork Mine 8 N 1 Portal				
Applicant Address	1000 C	onsol Energy Drive Suite 100	Facility Address	Archer Road & Penn Hills Road				
	Canons	burg, PA 15317-6506	<u>_</u>	Prosperity, PA 15329				
Applicant Contact	Jaculyn	Duke	Facility Contact	Brian Benson				
Applicant Phone	(724) 4	16-8299	Facility Phone	_(724)-416-8271				
Client ID	259457		Site ID	818894				
Ch 94 Load Status	Not Ove	erloaded	Municipality	Morris Township				
Connection Status	No Limi	tations	County	Washington				
Date Application Rece	eived	July 27, 2021	EPA Waived?	Yes				
Date Application Acce	epted	August 4, 2020	If No, Reason					

Summary of Review

The permittee has applied for a renewal of NPDES Permit No. PA0255173. NPDES Permit No. PA0255173 was previously issued by the PA Department of Environmental Protection (DEP) on January 11, 2017. The permit expires on January 31, 2022.

Sewage from this facility is treated with a comminutor and bar screen, extended aeration, final clarification and UV disinfection.

The applicant is currently enrolled in and will continue to use eDMR.

The Act-14 PL 834 Municipal Notification was provided by the June 22, 2021 letters from Jaculyn Duke at Consol Energy and no comments were received.

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
Х		It al	
		Stephanie Conrad / Environmental Engineering Specialist	September 9, 2021
х		Chke	
		Christopher Kriley, P.E. / Environmental Program Manager	September 13, 2021

Discharge, Receiving	g Waters and Water Supply Informat	ion	
Outfall No. 001		Design Flow (MGD)	0.024
Latitude 40° 1	' 22.10"	Longitude	80° 16' 19.23"
Quad Name Pro	osperity, PA	Quad Code	1803
Wastewater Descrip	ption: Sewage Effluent		
Receiving Waters	Unnamed Tributary to Tenmile Creek (TSF)	Stream Code	40906
NHD Com ID	99412912	_ RMI	1.04
Drainage Area	0.78	Yield (cfs/mi ²)	0.00785
Q ₇₋₁₀ Flow (cfs)	0.00612	Q ₇₋₁₀ Basis	USGS Stream Stats
Elevation (ft)	1140	Slope (ft/ft)	
Watershed No.	19-B	Chapter 93 Class.	TSF
Existing Use		Existing Use Qualifier	
Exceptions to Use		_ Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairr	ment		
Source(s) of Impair			
TMDL Status		Name	
Background/Ambie	nt Data E	Oata Source	
pH (SU)			
Temperature (°F)			
Hardness (mg/L)			
Other:			
		ri County Joint Municipal Aut	hority
-	Monongahela River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance:

Other Comments:

Treatment Facility Summary

Treatment Facility Name: Enlow Fork Mine 8 N 1 Portal

WQM Permit No.	Issuance Date
6317401	June 16, 2017

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
7.		Extended Aeration With		, ,
Sewage	Tertiary	Solids Removal	Ultraviolet Light	0.024
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa
(14100)				

Changes Since Last Permit Issuance:

Other Comments:

	Compliance History								
Summary of DMRs:	Between September 2016 and September 2021, the facility has generally complied with submittal of Discharge Monitoring Reports. During the review period, no violations were issued. Two effluent violations occurred in 2019. On was for Ammonia-Nitrogen in May and the other for Fecal Coliform in August.								
Summary of Inspections:	No inspections of the facility were completed between September 2016 and September 2021.								

Other Comments: The client has numerous open violations with other programs. As these violations, however, are not with clean water and the individual programs do not oppose the permit, the department is proceeding with issuance.

Compliance History

DMR Data for Outfall 001 (from July 1, 2020 to June 30, 2021)

Flow (MGD)	Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
Flow (MGD) Weekly Average 0.009 0.011 0.0057 0.002 0.002 0.0052 0.008 0.0031 0.0031 0.0054 0.008 0.004	Flow (MGD)												
Weekly Average 0.009 0.011 0.0057 0.002 0.002 0.0052 0.008 0.0031 0.0031 0.0054 0.008 0.004	Average Monthly	0.004	0.008	0.0041	0.0016	0.00175	0.00256	0.00457	0.002	0.0017	0.00271	0.0026	0.00104
PH (S.U.)	Flow (MGD)												
Instantaneous Minimum 7.0 6.8 7.0 8.0 8.	Weekly Average	0.009	0.011	0.0057	0.002	0.002	0.0052	0.008	0.0031	0.0031	0.0054	0.008	0.004
Minimum 7.0 6.8 7.0 7.0 7.0 7.0 7.0 6.5 7.0 7.0 7.0 7.0 6.5 7.0	pH (S.U.)												
PH (S.U.) Instantaneous Ration Ra													
Instantaneous Maximum Maximum		7.0	6.8	7.0	7.0	7.0	7.0	6.5	7.0	7.0	7.0	6.5	7.0
Maximum 8.0 7.6 8.0 8.0 8.0 8.0 8.0 8.0 7.5 8.0 8.0 8.0 8.0													
DO (mg/L)													
Minimum 8.1 7.1 8.3 8.2 8.6 8.9 8.2 8.0 8.3 8.0 8.0 8.2 TRC (mg/L)		8.0	7.6	8.0	8.0	8.0	8.0	8.0	7.5	8.0	8.0	8.0	8.0
TRC (mg/L)													
Average Monthly < 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.006 0.01 < 0.01		8.1	7.1	8.3	8.2	8.6	8.9	8.2	8.0	8.3	8.0	8.0	8.2
TRC (mg/L) Instantaneous Maximum 0.01 0.03 0.03 0.01 0.01 0.02 0.03 0.03 0.01 0.03 0.02 0.02													
Instantaneous Maximum		< 0.01	0.01	0.01	< 0.01	< 0.01	0.01	0.01	0.01	0.01	0.006	0.01	< 0.01
Maximum 0.01 0.03 0.03 0.01 0.01 0.02 0.03 0.03 0.01 0.02 0.03 0.03 0.01 0.03 0.02 0.02 CBOD5 (mg/L) Average Monthly < 2.7													
CBOD5 (mg/L)													
Average Monthly < 2.7		0.01	0.03	0.03	0.01	0.01	0.02	0.03	0.03	0.01	0.03	0.02	0.02
CBOD5 (mg/L) Instantaneous Maximum	\ \ \ \ /												
Instantaneous Maximum <3.0 <6.0 8.2 5.6 7.4 <12.0 9.2 <4.8 <3.0 3.3 7.0 5.3		< 2.7	< 6.0	5.3	4.7	5.2	< 7.5	< 6.1	< 3.9	< 3.0	< 3.2	5.5	4.8
Maximum < 3.0 < 6.0 8.2 5.6 7.4 < 12.0 9.2 < 4.8 < 3.0 3.3 7.0 5.3 TSS (mg/L) Average Monthly < 5.0	` ` ,												
TSS (mg/L) Average Monthly < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 TSS (mg/L) Instantaneous Maximum < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 Fecal Coliform (No./100 ml) Geometric Mean							40.0						
Average Monthly < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0		< 3.0	< 6.0	8.2	5.6	7.4	< 12.0	9.2	< 4.8	< 3.0	3.3	7.0	5.3
TSS (mg/L) Instantaneous Maximum		5 0	5.0	5.0	5.0	5.0		5 0	5.0	5.0	5.0	0.0	5.0
Instantaneous Maximum < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 <		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.5	< 5.0	< 5.0	< 5.0	< 5.0	< 9.0	< 5.0
Maximum < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 <	` ` ,												
Fecal Coliform (No./100 ml) Geometric Mean 11 2 < 33 < 1 < 1 < 2 < 6 < 1 5 < 1 4 Fecal Coliform (No./100 ml) Instantaneous Maximum 112 4 1120 < 1 < 1 < 1 2 36 2 13 < 1 16 Total Nitrogen (mg/L) Total Nitroge		. 5.0	. 5.0	. 5.0	. 5.0	. 5.0	6.0	. 5.0	. 5.0	. 5.0	. 5.0	12.0	. 5.0
(No./100 ml) Geometric Mean 11 2 <33 <1 <1 <2 <6 <1 5 <1 4 Fecal Coliform (No./100 ml) Instantaneous Maximum 112 4 1120 <1		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.0	< 5.0	< 5.0	< 5.0	< 5.0	13.0	< 5.0
Geometric Mean 11 2 < 33 < 1 < 1 < 2 < 6 < 1 5 < 1 4 Fecal Coliform (No./100 ml) Instantaneous Maximum 112 4 1120 < 1													
Fecal Coliform (No./100 ml)	,	11	2	. 22	_ 1	_ 1	- 1	- 2	- 6	- 1	5	_ 1	_
(No./100 ml) Instantaneous Maximum 112 4 1120 < 1		11		< 33	<u> </u>	<u> </u>	< I	< 2	< 0	< I	J	< I	4
Instantaneous Maximum 112 4 1120 < 1 < 1 < 2 36 2 13 < 1 16 Total Nitrogen (mg/L) Image: Control of the control of t													
Maximum 112 4 1120 <1 <1 2 36 2 13 <1 16 Total Nitrogen (mg/L) Image: Control of the con	,												
Total Nitrogen (mg/L)		112	4	1120	<u>- 1</u>	<i>z</i> 1	< 1	2	36	2	13	< 1	16
		112	7	1120	_ ` '	_ ` '	` '		- 55		10	_ ` '	10
	Daily Maximum							31.7					

3800-PM-BPNPSM0011 Rev. 10/2014

Permit

Permit No. PA0255173

Ammonia (mg/L) Average Monthly	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1.7	< 0.8	< 0.8
Ammonia (mg/L) Instantaneous												
Maximum	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	2.6	< 0.8	< 0.8
Total Phosphorus (mg/L)												
Daily Maximum							3.7					

	Development of Effluent Limitations									
Outfall No.	001		Design Flow (MGD)	0.024						
Latitude	40° 1' 22.10"		Longitude	-80º 16' 19.23"						
Wastewater D	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
CBOD₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pН	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)

Comments:

Water Quality-Based Limitations

The discharge was modeled using WQM 7.0 to evaluate the CBOD5, Ammonia Nitrogen and Dissolved Oxygen parameters. The modeling results show technology based effluent limitations for CBOD5 are appropriate. The modeling results also confirm that Ammonia-Nitrogen and Dissolved Oxygen limitations are necessary to meet in-stream water quality criterion.

The Winter limit for Ammonia-Nitrogen is becoming more stringent than previously enforced. Based on eDMR data, however, the facility will be able to comply with the new limits.

Parameter	Limit (mg/l)	SBC	Model
Ammonia-Nitrogen May-			
October	2.0	Average Monthly	WQM 7.0
Ammonia-Nitrogen			
November- April	5.0	Average Monthly	WQM 7.0
Dissolved Overgen		Instantaneous	
Dissolved Oxygen	6.0	Minimum	WQM 7.0

Comments:

Anti-Backsliding

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation

3800-PM-BPNPSM0011 Rev. 10/2014 Permit

Permit No. PA0255173

addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Previous limits can be used pursuant to EPA's anti-backsliding regulation 40 CFR 122.44 (I) Reissued permits. (1) Except as provided in paragraph (I)(2) of this section when a permit is renewed or reissued. Interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under §122.62). (2) In the case of effluent limitations established on the basis of Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.

The facility is not seeking to revise the previously permitted effluent limits.

Additional Considerations

The stream is not impaired for nutrients, therefore, annual sampling for phosphorus and nitrogen will again be imposed per 25 PA Code §92a.6.

Sewage discharges will include monitoring, at a minimum, for E. Coli, in new and reissued permits, with a monitoring frequency of 1/year for design flows >= 0.002 and < 0.05 MGD.

The previous permit imposed TRC limits as the facility intended to use chlorination disinfection at the time of issuance. The facility, however, actually uses UV disinfection, so the effluent limitations have been changed to reflect measurement of UV intensity.

For pH, Dissolved Oxygen (DO) and UV, a monitoring frequency 1/day has been imposed. In general, less frequent monitoring may be established only when the permittee demonstrates that there will be no discharge on days where monitoring is not required.

Monitoring frequency for the proposed effluent limits are based upon Table 6-3, Self-Monitoring Requirements for Sewage Dischargers, from the Departments Technical Guidance for the Development and Specification of Effluent Limitations. Please note that Monitoring Requirements were changed for Flow to 1/week Metered to be consistent with the guidance.

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.

			Effluent L	imitations			Monitoring Red	quirements
Parameter	Mass Units (lbs/day) (1)			Concentrat		Minimum (2)	Required	
rarameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	0.024	Report Wkly Avg	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX	1/day	Grab
UV Intensity (mW/cm²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	2/month	Grab
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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	5.0	XXX	10.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4.0	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Compliance Sampling Location: Outfall #001

Other Comments:

Input Data WQM 7.0

	SWP Basin			Stre	eam Name		RMI	Ele	evation (ft)	Drainag Area (sq mi)		lope fvft)	PWS Withdrawal (mgd)	Apply FC
	19B	409	06 Trib 40	906 to Te	enmile Cree	k	1.0	40	1140.00	0	.78 0.0	00000	0.00	v
					St	ream Dat	a							
Design	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Deptr		Tributary	<u>/</u> pH	<u>S</u> Temp	stream pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.008	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	10.0	0.00	0.	00 2	5.00	7.00	0.	00 0.00)
					DI	scharge (Data						\neg	
			Name	Per	mit Number	Disc	Permitt Disc Flow (mgd	DI Fi	sc Res		Disc Temp (°C)	Disc pH		
		Trib t	o Tenmile	PA	255173	0.024	0.000	00 0.	0000	0.000	20.0	0 7	.00	
					Pa	arameter I	Data							
			,	Paramete	r Name			Trib Conc	Stream Conc	Fate Coef				
						(m	g/L) (r	mg/L)	(mg/L)	(1/days)			
			CBOD5			:	25.00	2.00	0.00	1.5	0			
			Dissolved	Oxygen			4.00	8.24	0.00	0.0	0			
			NH3-N				2.00	0.00	0.00	0.7	0		ı	

Input Data WQM 7.0

	SWP Basin	Strea Cod		Stre	eam Name		RMI		ration ft)	Drainage Area (sq ml)	Slop (ft/fi	Withd	vs frawal gd)	Apply FC
	19B	409	06 Trib 40	906 to Te	enmile Cree	k	0.01	10 1	120.00	1.2	6 0.00	000	0.00	y
					St	ream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	Tributary p pi	1	<u>Strear</u> Temp	m pH	
Cona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.008	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	10.0	0.00	0.00	0 2	5.00 7	7.00	0.00	0.00	
					DI	scharge ()ata						1	
			Name	Per	mit Number	Disc	Permitte Disc Flow (mgd)	Disc	Res v Fa	erve Te ctor	olsc emp °C)	Disc pH		
						0.000	0.000	0.0	000	0.000	25.00	7.00		
					Pa	arameter (Data							
				Paramete	r Name			onc :	Stream Conc	Fate Coef				
						(m	g/L) (n	ng/L)	(mg/L)	(1/days)				
			CBOD5			:	25.00	2.00	0.00	1.50				
			Dissolved	Oxygen			3.00	8.24	0.00	0.00				
			NH3-N				25.00	0.00	0.00	0.70				

WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code				Stream	Name				
		19B	4	0906			Trib 40	906 to T	enmile C	reek			
RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (°C)	Analysis pH	
	()	()	()	(/	()	(-7	(-7		(/	()/	(-/		
Q7-1	0 Flow												
1.040	0.01	0.00	0.01	.0371	0.00368	.311	3.73	11.97	0.04	1.689	20.71	7.00	
Q1-1	0 Flow												
1.040	0.00	0.00	0.00	.0371	0.00368	NA	NA	NA	0.04	1.740	20.48	7.00	
Q30-	10 Flow	,											
1.040	0.01	0.00	0.01	.0371	0.00368	NA	NA	NA	0.04	1.643	20.92	7.00	

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	~
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	~
D.O. Saturation	90.00%	Use Balanced Technology	V
D.O. Goal	6		

1.04 Trib to Tenmile

Permit No. PA0255173

WQM 7.0 Wasteload Allocations

	SWP Basin S 19B	tream Code 40906		_	ream Name 6 to Tenmile	Creek		
NH3-N	Acute Allocati	ions						
RMI	Discharge Na	Baseline me Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction	1
1.0	40 Trib to Tenmile	9.34		4 9.34	4	0	0	-
NH3-N RMI	Chronic Alloc	Baseline	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction	-
1.0	40 Trib to Tenmile	1.79		2 1.79		0	0	-
Dissolv	ed Oxygen All	ocations						-
RMI	Discharge I			NH3-N Baseline Mi (mg/L) (m			Cmical	Percent Reductio

25

25

Page 1 of 1

WQM 7.0 Effluent Limits

	SWP Basin St 19B	ream Code 40906					
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
1.040	Trib to Tenmile	PA0255173	0.024	CBOD5	25		
				NH3-N	2	4	
				Dissolved Oxygen			6

Input Data WQM 7.0

				inp	ut Data	a wQ	VI 7.0					
	SWP Basir		Strea	am Name		RMI	Eleva (ft)		Orainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Appl FC
	19B	40906 Trib	40906 to Ter	nmile Cree	k	1.0	40 114	40.00	0.78	0.00000	0.00	· •
				St	ream Dat	ta						
Design	LFY	Trib Stream Flow Flow	Trav	Rch Velocity	WD Ratio	Rch Width	Rch Depth	<u>T</u> Temp	ributary pH	Tem	Stream p pH	
Cond.	(cfsm)	(cfs) (cfs)	Time (days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.016	0.00 0.0 0.00 0.0 0.00 0.0	0.000	0.000 0.000 0.000	10.0	0.00	0.00	5.	00 7.0	0 0	0.00	0
				Di	ischarge l	Data						
		Name	Pem	mit Number	Disc	Permitt Disc Flow (mgd	Flow	Rese Fact		p pł		
		Trib to Tenmi	e PA0	255173	0.024	0.000	0.000	0 0.	000 15	5.00	7.00	
				Pa	arameter	Data						
			Parameter	Name				ream Conc	Fate Coef			
			1 drameter	rvaine	(m	ng/L) (r	mg/L) (n	ng/L)	(1/days)			
		CBOD5				25.00	2.00	0.00	1.50			
		Dissolv	ed Oxygen			4.00	12.51	0.00	0.00			
		NH3-N				5.00	0.00	0.00	0.70			

Input Data WQM 7.0

	SWP Basin			Stre	eam Name		RMI		ation t)	Drainag Area (sq m	ĭ	Slope (ft/ft)	PW Withda (mg	rawal	Apply FC
	19B	409	906 Trib 40	1906 to Te	enmile Cree	k	0.01	10 1	120.00		1.26	0.00000		0.00	✓
					St	ream Dat	a								
Design	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributar</u> ip	pH	Tem	Stream np	<u>p</u> H	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.016	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000	10.0	0.00	0.00		5.00	7.00		0.00	0.00	
					Di	scharge	Data								
			Name	Per	rmit Number	Disc	Permitte Disc Flow (mgd)	Disc Flow	Res Fa	erve	Disc Temp (°C)		sc H		
						0.000	0.000	0.00	00	0.000	25.	00	7.00		
					Pa	rameter	Data								
				Paramete	r Name				tream Conc	Fate Coef					
				aramete	rvame	(m	g/L) (n	ng/L) (mg/L)	(1/days	5)				
			CBOD5				25.00	2.00	0.00	1.5	50				
			Dissolved	Oxygen			3.00	8.24	0.00	0.0	00				
			NH3-N				25.00	0.00	0.00	0.7	70				

WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code				Stream	Name			
		19B	4	0906			Trib 40	906 to T	enmile Cı	reek		
RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (°C)	Analysis pH
07-1	0 Flow											
1.040		0.00	0.01	.0371	0.00368	.318	3.87	12.15	0.04	1.569	12.52	7.00
Q1-1	0 Flow											
1.040	0.01	0.00	0.01	.0371	0.00368	NA	NA	NA	0.04	1.653	13.26	7.00
Q30-	10 Flow	1										
1.040	0.02	0.00	0.02	.0371	0.00368	NA	NA	NA	0.04	1.495	11.90	7.00

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	V
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	~
D.O. Saturation	90.00%	Use Balanced Technology	~
D.O. Goal	6		

WQM 7.0 Wasteload Allocations

	SWP Basin Str 19B	<u>40906</u>			ream Name 6 to Tenmile	Creek		
NH3-N	Acute Allocatio	ns						
RMI	Discharge Nam	Baseline e Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction	1
1.04	0 Trib to Tenmile	16	10	16	10	0	0	-
NH3-N (Chronic Alloca Discharge Name	Baseline	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction	
1.04	0 Trib to Tenmile	3.52	5	3.52	5	0	0	-
Dissolve RMI	ed Oxygen Allo Discharge Na	9		NH3-N Baseline Mu (mg/L) (m			Critical	Percent Reduction
1.0	4 Trib to Tenmile		25 25	5	5 4	4	0	0

WQM 7.0 D.O.Simulation

SWP Basin 19B	Stream Code 40906		Trib 4	Stream Name 0906 to Tenmil	•	
RMI	Total Discharge	e Flow (mgd	i) Ana	lysis Temperatu	re (°C)	Analysis pH
1.040	0.02	24		12.520		7.000
Reach Width (ft)	Reach De	epth (ft)		Reach WDRat	io	Reach Velocity (fps)
3.866	0.31	18		12.150		0.040
Reach CBOD5 (mg/L)	Reach Ko		R	each NH3-N (m	g/L)	Reach Kn (1/days)
19.30	1.40			3.76		0.394
Reach DO (mg/L)	Reach Kr			Kr Equation		Reach DO Goal (mg/L)
6.111	17.5	24		Owens		6
Reach Travel Time (days)	Subreach	Results			
1.569	TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)		
	0.157	16.50	3.53	8.63		
	0.314	14.11	3.32	9.01		
	0.471	12.07	3.12	9.23		
	0.627	10.32	2.94	9.41		
	0.784	8.83	2.76	9.56		
	0.941	7.55	2.60	9.58		
	1.098	6.46	2.44	9.58		
	1.255	5.52	2.29	9.58		
	1.412	4.72	2.16	9.58		
	1.569	4.04	2.03	9.58		

WQM 7.0 Effluent Limits

	SWP Basin S 19B	40906		Stream Name Trib 40906 to Tenmi			
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)		Effl. Limit Minimum (mg/L)
1.040	Trib to Tenmile	PA0255173	0.024	CBOD5	25		
				NH3-N	5	10	
				Dissolved Oxygen			4

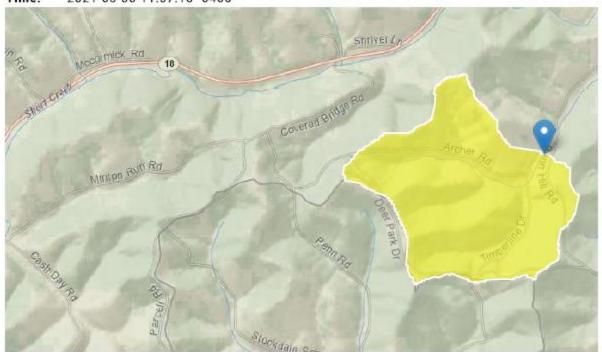
StreamStats Report

Region ID: PA

Workspace ID: PA20210830155657786000

Clicked Point (Latitude, Longitude): 40.02259, -80.27201

Time: 2021-08-30 11:57:18 -0400



Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.78	square miles
ELEV	Mean Basin Elevation	1228	feet

	arameters [Low Flow Regio				
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.78	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1228	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0216	ft^3/s
30 Day 2 Year Low Flow	0.0421	ft^3/s
7 Day 10 Year Low Flow	0.00612	ft^3/s
30 Day 10 Year Low Flow	0.0134	ft^3/s
90 Day 10 Year Low Flow	0.0279	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

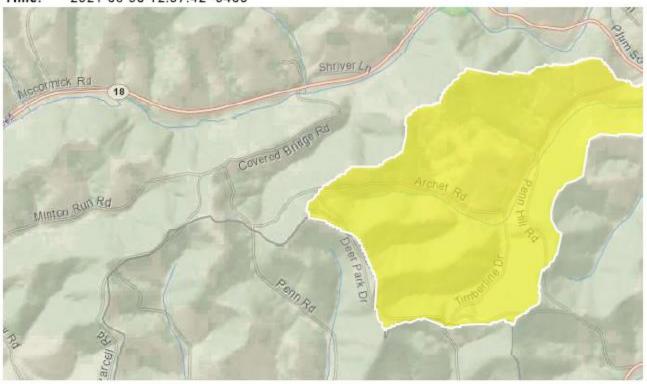
StreamStats Report

Region ID: PA

Workspace |D: PA20210830163721496000

Clicked Point (Latitude, Longitude): 40.02918, -80.25713

Time: 2021-08-30 12:37:42 -0400



Basin Characteristics			
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	1.26	square miles
ELEV	Mean Basin Elevation	1192	feet

_ow-Flow Statistics P					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1,26	square miles	2.26	1400