

Northwest Regional Office CLEAN WATER PROGRAM

Application Type

Facility Type

Major / Minor

Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0252638

 APS ID
 1045022

 Authorization ID
 1364489

Applicant Name	Perry	Township Municipal Authority	Facility Name	Perry Township Municipal Authority STF				
Applicant Address	P.O. B	30x 306	Facility Address	290 Wickhaven Hollow Road				
	Star J	unction, PA 15482-0306		Wickhaven, PA 15492				
Applicant Contact	Janet	Galla	Facility Contact	Edgar Harris				
Applicant Phone	(724)	736-8157	Facility Phone	(724) 966-2278				
Client ID	27587	1	Site ID	626810				
Ch 94 Load Status	Projec	ted Hydraulic Overload	Municipality	Perry Township				
Connection Status	No Lin	nitations	County	Fayette				
Date Application Rece	eived	July 22, 2021	EPA Waived?	Yes				
Date Application Acce	pted	August 9, 2021	If No, Reason					

Summary of Review

This is a municipal sewage treatment plant serving approximately 353 EDUs in Perry Township, Fayette County. There are no industrial users. The Authority subcontracts the operation of the plant to H&H Water Controls, based out of Carmichaels, PA.

The facility has been using the eDMR system for reporting since June 2016.

There are currently no open violations listed in EFACTS for this permittee (10/19/2021).

Sludge use and disposal description and location(s): Sewage sludge is hauled offsite by Liquid Assets Disposal in Wheeling, WV.

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.

Approv	/e Deny	Signatures	Date
Х		Adam Pesek Adam J. Pesek, E.I.T. / Environmental Engineer	October 19, 2021
Х		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	November 7, 2021

ischarge, Receiving Waters and Water Supply I	nformation					
Outfall No. 001	Design Flow (MGD)	0.1				
Latitude 40° 7' 16"	Longitude	-79° 45' 18"				
	Quad Code	1807				
	Quad Code	1807				
Wastewater Description: Domestic sewage						
Receiving Waters Youghiogheny River	Stream Code	37456				
NHD Com ID 69915549	RMI	27.85				
Drainage Area 1410	Yield (cfs/mi²)	0.1315 (accrued)				
		ACOE Q7-10 @				
Q ₇₋₁₀ Flow (cfs) 470.5 (460+10.5)	Q ₇₋₁₀ Basis	Connellsville (2017)				
Elevation (ft) 1008	Slope (ft/ft)					
Watershed No. 19-D	Chapter 93 Class.	WWF				
Existing Use	Existing Use Qualifier					
Exceptions to Use None	Exceptions to Criteria	Delete Temp ₂ , Add Temp ₁				
Assessment Status Impaired						
Cause(s) of Impairment METALS, PH						
Source(s) of Impairment ACID MINE DRAINAGE	GE					
TMDL Status	Name					
Dealers and Archient Date	Data Cauras					
Background/Ambient Data	Data Source	and the same of December December 1				
pH (SU) <u>8.02</u>	6/18/2018 stream sample above co	onliuence of Browneller Run				
Temperature (°C) 25	Default (WWF)					
Hardness (mg/L) 125	-					
Other: NH ₃ -N 0.1	Default					
Nearest Downstream Public Water Supply Intake	Municipal Authority of Westmorela	nd County - McKeesport				
PWS Waters Youghiogheny River	Flow at Intake (cfs) 510					
PWS RMI 1.36	Distance from Outfall (mi) 26.5					

Changes Since Last Permit Issuance:

Other Comments: A D.O. goal of 6.0 will be used in WQM modeling due to the exceptions to criteria listed in 25 Pa Code Chapter 93 for this stream segment.

	Tre	eatment Facility Summa	ry	
Treatment Facility Na	me: Perry Township Munic	ipal Authority STP		
WQM Permit No.	Issuance Date			
2604401	5/05/2005			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequential Batch Reactors	UV light	0.1
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal
0.1	167	Projected Hydraulic Overload	Other STP	•

Changes Since Last Permit Issuance:

Other Comments: The plant has been in a condition of projected hydraulic overload since 2018.

	Compliance History
Summary of DMRs:	No effluent limit violations reported in the last five years.
Summary of Inspections:	NOV issued on 8/9/2017 for raw sewage discharge into Browneller Run. NOV issued 11/6/2019 for an unauthorized bypass of sewage which occurred on 10/30/2019.

Other Comments:

Compliance History

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

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)												
Average Monthly	0.05713	0.08198	0.06847	0.09433	0.10541	0.09765	0.10055	0.05758	0.03938	0.03940	0.04372	0.04831
Flow (MGD)												
Daily Maximum	0.12260	0.13840	0.09627	0.17925	0.21103	0.17560	0.17560	0.13795	0.10090	0.11035	0.10670	0.09310
pH (S.U.)												
Minimum	6.8	6.7	6.8	6.7	6.8	6.4	6.7	6.8	6.3	6.8	6.7	6.5
pH (S.U.)												
Maximum	7.3	7.2	7.2	7.2	7.2	7.2	7.8	7.2	7.4	7.1	7.2	7.4
DO (mg/L)												
Minimum	4.3	5.8	5.2	5.6	5.1	5.1	6.0	4.5	5.1	4.8	4.5	5.0
CBOD5 (lbs/day)												
Average Monthly	1.6	3.9	1.3	2.8	5.1	2.6	5.7	2.1	1.8	1.0	0.6	1.2
CBOD5 (lbs/day)												
Weekly Average	2.6	9.7	1.4	5.2	13.4	4.0	16.5	4.7	4.9	1.8	0.8	2.1
CBOD5 (mg/L)												
Average Monthly	3.2	4.9	2.3	3.7	5.3	3.4	6.5	4.8	3.4	2.7	2.0	3.2
CBOD5 (mg/L)												
Weekly Average	6.9	8.4	3.2	5.3	9.6	5.0	17.0	13.1	5.8	5.7	2.0	6.8
BOD5 (lbs/day)												
Influent br/> Average	400.0	4= 0	40.0		40.0			0=0	00.4	0= 0		
Monthly	128.9	17.9	49.2	28.2	46.0	30.7	54.6	35.8	80.1	65.2	52.6	30.7
BOD5 (lbs/day)												
Influent br/> Weekly	250.0	20.0	400.0	45.4	74.0	40.0	400.7	40.0	4.44.0	400.0	05.0	50.4
Average	350.2	22.3	108.3	45.1	74.9	42.2	168.7	49.0	141.6	168.2	95.9	50.4
BOD5 (mg/L) Influent Average												
Monthly	213.9	87.4	99.5	47.2	60.8	40.3	75.3	89.6	208.3	149.6	170.2	85.6
BOD5 (mg/L)	213.9	07.4	99.5	41.2	00.0	40.3	75.5	09.0	200.3	149.0	170.2	65.0
Influent bobs (mg/L)												
Average	342.5	166.4	251.1	64.2	102.3	55.0	173.6	137.1	320.0	230.8	236.7	160.0
TSS (lbs/day)	U72.U	100.4	201.1	07.2	102.0	55.0	170.0	107.1	020.0	200.0	200.7	100.0
Average Monthly	2.7	3.5	2.8	3.3	4.1	4.2	3.7	2.7	2.2	2.0	1.5	2.0
TSS (lbs/day)	2.1	0.0	2.0	0.0	7.1	7.2	5.7	2.1	۷.۷	2.0	1.0	2.0
Influent br/> Average												
Monthly	137.3	26.3	42.7	41.9	43.8	43.3	71.7	34.6	45.6	76.5	43.4	220
y	107.0	20.0	12.1	11.0	10.0	10.0	, , , , ,	01.0	10.0	7 0.0	10.1	220

NPDES Permit Fact Sheet Perry Township Municipal Authority STP

NPDES Permit No. PA0252638

TSS (lbs/day)												
Influent br/> Weekly Average	306.7	41.5	63.8	69.6	67.2	70.6	121.1	50.3	65.6	243.0	72.7	32.7
TSS (lbs/day)	300.7	71.0	00.0	05.0	07.2	70.0	121.1	30.5	00.0	240.0	12.1	52.1
Weekly Average	5.1	5.8	3.5	4.9	7.0	5.6	4.9	5.0	4.2	4.6	2.1	2.6
TSS (mg/L)	<u> </u>	0.0	0.0			0.0		0.0				
Average Monthly	5.0	5.0	5.0	5.0	5.0	5.5	5.0	5.0	5.5	5.0	5.0	5.0
TSS (mg/L)												
Influent br/> Average												
Monthly	243.6	109.5	81.5	62.8	54.5	57.0	104.4	81.5	137.5	152.4	143.0	59.6
TSS (mg/L)												
Influent Veekly												
Average	576.0	180.0	148.0	76.0	84.0	92.0	176.0	124.0	228.0	264.0	204.0	104.0
TSS (mg/L)												
Weekly Average	5.0	5.0	5.0	5.0	5.0	7.0	5.0	5.0	7.0	5.0	5.0	5.0
Fecal Coliform												
(No./100 ml)												
Geometric Mean	1	1	1	1	1	1	1	4	1	1	1	1
Fecal Coliform												
(No./100 ml)												
Instantaneous			_									
Maximum			1	2	1	1	2	56	2			
UV Transmittance (%)	00.0	00.4	00.7	70.4	70.0	70	740	70.5	7.4	70.5	77.0	70.4
Average Monthly	68.6	69.1	66.7	73.1	70.6	76	74.9	73.5	74	76.5	77.2	70.1
UV Transmittance (%)	00.0	70.0	70.0	04.0	70.0	00	00.0	00.0	0.7	00.0	00.0	04.0
Weekly Average	80.0	78.0	79.0	84.0	79.0	86	86.0	80.0	87	82.0	83.0	84.0
Total Nitrogen (mg/L)	7.4	7.00	GG	10.1	GG	GG	3.56	GG	GG	2.00	GG	GG
Daily Maximum	7.4	7.20	GG	10.1	GG	GG	3.56	GG	GG	2.96	GG	GG
Ammonia (lbs/day)	1 5	3.5	2.5	4.3	3.5	5.8	2.9	7.4	3.8	0.1	0.4	1.0
Average Monthly Ammonia (mg/L)	1.5	ა.5	∠.5	4.3	ა.5	5.8	2.9	7.4	ა.ზ	U. I	0.1	1.0
Ammonia (mg/L) Average Monthly	3.2	4.0	3.7	7.1	3.3	7.5	3.1	12.1	4.7	0.2	0.3	2.4
Ammonia (mg/L)	J.Z	7.0	5.1	7.1	5.5	7.5	J. I	12.1	7.7	0.2	0.5	2.4
Instantaneous												
Maximum	11.5	9.3	8.4	9.7	7.7	14.2	7.3	28.7	17.8	0.4	0.5	5.1
Total Phosphorus	11.0	0.0	0.1	0.7	,	11.2	7.0	20.7	17.0	0.1	0.0	0.1
(mg/L)												
Daily Maximum	1.1	1.1	GG	1.09	GG	GG	0.90	GG	GG	2.10	GG	GG

		Development	of Effluent Limitations	
Outfall No.	001		Design Flow (MGD)	0.1
Latitude	40° 7' 16.00"		Longitude	-79° 45' 18.00"
Wastewater D	escription:	Treated domestic sewage		

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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: The facility uses UV light for disinfection. Therefore, technology-based TRC limits are not applicable.

Water Quality-Based Limitations

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

Parameter	Limit (mg/l)	SBC	Model
N/A			

Comments: No WQBELs were calculated as a result of water quality modeling.

Best Professional Judgment (BPJ) Limitations

A dissolved oxygen limit of 4.0 mg/l as a daily minimum is placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Other Considerations

Comments: Monitoring for influent BOD₅ and influent TSS is placed in the permit in accordance with the Department's SOP entitled "New and Reissuance Individual Sewage NPDES Permit Applications."

Monitoring for E. coli, total nitrogen, total phosphorus, and UV transmittance is placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Anti-Backsliding

N/A

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	ions (mg/L)		Minimum ⁽²⁾	Required
Parameter	Average	Weekly		Average	Weekly	Instant.	Measurement	Sample
	Monthly	Average	Minimum	Monthly	Average	Maximum	Frequency	Type
		Report						
Flow (MGD)	Report	Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
			6.0		9.0			
pH (S.U.)	XXX	XXX	Daily Min	XXX	Daily Max	XXX	1/day	Grab
			4.0					
DO	XXX	XXX	Daily Min	XXX	XXX	XXX	1/day	Grab
								8-Hr
CBOD5	20.9	31.3	XXX	25	37.5	50	1/week	Composite
BOD5		Report					., .	8-Hr
Influent	Report	Daily Max	XXX	Report	XXX	XXX	1/week	Composite
		0= 0	2004				., .	8-Hr
TSS	25.0	37.6	XXX	30	45	60	1/week	Composite
TSS	Damant	Report	VVV	Danam	VVV	VVV	4 /	8-Hr
Influent	Report	Daily Max	XXX	Report	XXX	XXX	1/week	Composite
Fecal Coliform (No./100 ml)	XXX	XXX	xxx	2000	xxx	10000	1 hyook	Crob
Oct 1 - Apr 30 Fecal Coliform (No./100 ml)	^^^	^^^	^^^	Geo Mean 200	^^^	10000	1/week	Grab
May 1 - Sep 30	xxx	XXX	xxx	Geo Mean	xxx	1000	1/week	Grab
Way 1 - Sep 30				Geo Mean		1000	1/WEEK	Glab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
UV Transmittance (%)	XXX	XXX	XXX	Report	Report	XXX	1/day	Measured
OV Hansiilitarice (76)		^^^	^^^	Report	Кероп	^^^	1/uay	8-Hr
Total Nitrogen	xxx	XXX	xxx	Daily Max	xxx	xxx	1/quarter	Composite
	1					2 22 22	., -	8-Hr
Ammonia	Report	XXX	XXX	Report	XXX	XXX	1/week	Composite
				Report				8-Hr
Total Phosphorus	XXX	XXX	XXX	Daily Max	XXX	XXX	1/quarter	Composite

Compliance Sampling Location: Outfall 001 (after disinfection)

Other Comments: N/A

Input Data WQM 7.0

	SWP Basin	10702000	Stream Code Stream Name			e	RMI		ration ft)	Drainage Area (sq mi)	Slope (ft/ft)	PW Withd (mg	Irawal	Apply FC
	19D	374	456 YOUG	HIOGHE	NY RIVEF	₹	27.85	i 0 1	008.00	1410.00	0.00000	0	0.00	~
					į	Stream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> np pH	Te	<u>Strear</u> mp	<u>n</u> pH	
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)	(%	C)		
Q7-10 Q1-10 Q30-10	0.132	470.50 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000)	360.00	0.00) 2	5.00 8.	02	0.00	0.00	
Discharge Data]		
			Name	Per	mit Numb	Disc	Permitte Disc Flow (mgd)	ed Desig Disc Flow (mgc	Res v Fa	Dis erve Ter ctor (°C	np	Disc pH		
		Perry	Twp MA	PAC	252638	0.100	0.000	0 0.00	000	0.000 :	20.00	7.00		
						Parameter l	Data							
			1	Parametei	r Name			rib S onc	Stream Conc	Fate Coef				
				500000000000000000000000000000000000000	0017000000	(m	g/L) (m	ng/L)	(mg/L)	(1/days)				
			CBOD5				25.00	2.00	0.00	1.50		_		
			Dissolved	Oxygen			4.00	7.54	0.00	0.00				
			NH3-N				25.00	0.10	0.00	0.70				

Input Data WQM 7.0

					(a)(m)(a)	out Duti	A PP COCI							
	SWP Basin	Strea Cod		Stre	eam Name	e)	RMI		ation ft)	Drainage Area (sq mi)	Slope (ft/ft)	Witho	VS drawal gd)	App FC
	19D	374	156 YOUG	HIOGHE	NY RIVER	1	27.00	00 1	005.00	1420.00	0.0000	0	0.00	✓
					5	Stream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> np pH	Te	<u>Strear</u> emp	<u>n</u> pH	
Cona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)	(6	PC)		
27-10 21-10 230-10	0.132	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000		0.00	0.0	0 2	5.00 8.0	02	0.00	0.00	
)	Discharge I	Data						1	
			Name	Per	mit Numb	Disc	Permitte Disc Flow (mgd)	Disc Flo	Res V Fa	Dis erve Ten ctor	np	Disc pH		
)				0.000	0.000	0.0	000	0.000 2	25.00	7.00		
					3	Parameter	Data							
			1	Paramete	r Name			Trib : Conc	Stream Conc	Fate Coef				
					(0.4.50.00.00)	(m	ıg/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				
	1												1	

WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code				Stream	<u>Name</u>			
		19D	3	7456			YOU	GHIOGH	ENY RIVE	ER		
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
27.850	470.50	0.00	470.50	.1547	0.00067	1.151	360	312.84	1.14	0.046	25.00	8.02
Q1-1	0 Flow											
27.850	301.12	0.00	301.12	.1547	0.00067	NA	NA	NA	0.88	0.059	25.00	8.02
Q30-	10 Flow	v										
27.850	639.88	0.00	639.88	.1547	0.00067	NA	NA	NA	1.35	0.038	25.00	8.02

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	✓
D.O. Goal	6		

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
19D	37456	YOUGHIOGHENY RIVER

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
27.85	0 Perry Twp MA	2.49	50	2.49	50	0	0
ILIO NI A	Phrania Allacati	one					
	Chronic Allocati	Baseline	Baseline	Multiple	Multiple	Critical	Percent
IH3-N (Chronic Allocati		Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction

Dissolved Oxygen Allocations

		CBC	DD5	<u>NH</u>	<u>3-N</u>	Dissolved	d Oxygen	Critical	Percent
RMI	Discharge Name	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Reach	Reduction
27.85	Perry Twp MA	25	25	25	25	4	4	0	0

WQM 7.0 D.O.Simulation

SWP Basin St	ream Code			Stream Name				
19D	37456		YOU	GHIOGHENY RIVE	R			
<u>RMI</u> 27.850	Total Discharge	ALC ADV	l) <u>Ana</u>	lysis Temperature (° 24.998	<u>C) Analysis pH</u> 8.019			
Reach Width (ft)		ch Depth (ft) Reach WDRatio		Reach Velocity (fps)				
360.000	1.15	1.151 312.840		.151 312.840		1.151		1.136
Reach CBOD5 (mg/L)	Reach Kc ((1/days) Reach NH3-N (mg/L)						
2.01	0.00			0.11	1.028 Reach DO Goal (mg/L)			
Reach DO (mg/L) 7.539	<u>Reach Kr (</u> 3.98			Kr Equation Tsivoglou	6			
Reach Travel Time (days)		Subreach	n Results					
0.046	Tra∨Time	CBOD5	NH3-N	D.O.				
	(days)	(mg/L)	(mg/L)	(mg/L)				
	0.005	2.01	0.11	7.54				
	0.009	2.01	0.11	7.54				
	0.014	2.01	0.11	7.54				
	0.018	2.01	0.11	7.54				
	0.023	2.01	0.11	7.54				
	0.027	2.01	0.11	7.54				
	0.032	2.01	0.10	7.54				
	0.037	2.01	0.10	7.54				
	0.041	2.01	0.10	7.54				
	0.046	2.01	0.10	7.54				

WQM 7.0 Effluent Limits

	SWP Basin Str	eam Code		Stream Name	<u>e</u>		
	19D	37456		YOUGHIOGHENY	RIVER		
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)
27.850	Perry Twp MA	PA0252638	0.100	CBOD5	25		*
				NH3-N	25	50	
				Dissolved Oxygen			4

Perry Township MA STP Perry Township, Fayette County NPDES# PA025238

Ave (10^pH min

<u>Date</u>	pH min	pH max
Jul-18	6.7	7.7
Aug-18	7.0	7.9
Sep-18	7.0	7.9
Jul-19	6.9	7.2
Aug-19	7.0	7.3
Sep-19	6.9	7.6
Jul-20	6.5	7.4
Aug-20	6.7	7.2
Sep-20	6.8	7.1
Jul-21	6.7	7.3

10^ -pH min	10^ -pH max	& pH max)	-Log (Ave pH)
2E-07	2E-08	1.1E-07	7.0
1E-07	1.26E-08	5.63E-08	7.2
1E-07	1.26E-08	5.63E-08	7.2
1.26E-07	6.31E-08	9.45E-08	7.0
1E-07	5.01E-08	7.51E-08	7.1
1.26E-07	2.51E-08	7.55E-08	7.1
3.16E-07	3.98E-08	1.78E-07	6.7
2E-07	6.31E-08	1.31E-07	6.9
1.58E-07	7.94E-08	1.19E-07	6.9
2E-07	5.01E-08	1.25E-07	6.9
		Median:	7.0