

Application Type Amendment, Major
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0082589 A-1
APS ID 884473
Authorization ID 1343242

Applicant and Facility Information

Applicant Name	<u>PA American Water Co.</u>	Facility Name	<u>PA American Water Fairview Township South STP</u>
Applicant Address	<u>852 Wesley Drive</u> <u>Mechanicsburg, PA 17055</u>	Facility Address	<u>612 Wyndamere Road</u> <u>Etters, PA 17319</u>
Applicant Contact	<u>Jon Prawdzik</u>	Facility Contact	<u>Dave Boore</u>
Applicant Phone	<u>(717) 790-3047</u>	Facility Phone	<u>(717) 790-3047</u>
Client ID	<u>87712</u>	Site ID	<u>257972</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Fairview Township</u>
Connection Status	<u>Self Imposed Connection Prohibition</u>	County	<u>York</u>
Date Application Received	<u>January 22, 2021</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>February 23, 2021</u>	If No, Reason	<u>Significant CB Discharge</u>
Purpose of Application	<u>.</u>		

Summary of Review

Sludge use and disposal description and location(s):

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
		Aaron Baar / Environmental Engineering Specialist	February 24, 2021
		Daniel W. Martin, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.5</u>
Latitude	<u>40° 10' 0.22"</u>	Longitude	<u>-76° 49' 13.11"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Fishing Creek (CWF (existing use))</u>	Stream Code	_____
NHD Com ID	<u>56406195</u>	RMI	_____
Drainage Area	_____	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	_____	Q ₇₋₁₀ Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>7-E</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	<u>CWF(COLD WATER FISHES)</u>	Existing Use Qualifier	<u>Use Attainability Analysis</u>
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>HABITAT ALTERATIONS, SILTATION</u>		
Source(s) of Impairment	<u>CONSTRUCTION, HABITAT MODIFICATION - OTHER THAN</u>		
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)	_____

Changes Since Last Permit Issuance:

Other Comments:

DEP has evaluated information indicating that the existing use of the receiving waters is different than the designated use under 25 Pa. Code § 93.9. In developing the draft NPDES permit, DEP is proposing to protect the existing use of the receiving waters. Following DEP's notice of the receipt of the application and the draft permit in the Pennsylvania Bulletin, DEP will accept written comments during the public comment period regarding DEP's tentative determination to protect the existing use. DEP will make a final determination on existing use protection for the receiving waters as part of the final permit action.

Treatment Facility Summary
Treatment Facility Name: Fairview Township - WWTP South

WQM Permit No.	Issuance Date			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Phosphorus Reduction	Sequencing Batch Reactor	Gas Chlorine	0.5
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.94	1700	Not Overloaded	Dewatering	Landfill

Changes Since Last Permit Issuance:

Other Comments:

Compliance History

DMR Data for Outfall 001 (from January 1, 2020 to December 31, 2020)

Parameter	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20
Flow (MGD) Average Monthly	0.558	0.5052	0.5552	0.5947	0.6104	0.6105	0.6677	0.6562	0.6807	0.6326	0.6195	0.6182
Flow (MGD) Daily Maximum	0.9762	0.6980	0.5739	0.7564	0.7661	0.6910	0.7920	0.8552	0.9918	1.0	0.8078	1.0084
pH (S.U.) Minimum	7.02	6.92	6.99	7.00	6.98	6.87	7.00	6.96	6.99	6.67	6.95	6.97
pH (S.U.) Instantaneous Maximum	7.91	7.59	7.45	7.53	7.39	8.21	7.39	7.45	7.38	7.21	7.57	7.52
DO (mg/L) Minimum	7.77	7.36	7.29	7.07	6.86	7.02	7.21	7.69	8.00	8.05	7.92	8.00
TRC (mg/L) Average Monthly	0.16	0.15	0.08	0.07	0.17	0.18	0.18	0.18	0.18	0.16	0.17	0.18
TRC (mg/L) Instantaneous Maximum	0.29	0.35	0.24	0.30	0.24	0.39	0.30	0.28	0.43	0.30	0.46	0.34
CBOD5 (lbs/day) Average Monthly	< 11	< 11	18	19	23	< 19	19	< 13	< 23	21	17	< 11
CBOD5 (lbs/day) Weekly Average	14	14	22	26	28	31	28	17	29	27	19	15
CBOD5 (mg/L) Average Monthly	< 2.0	< 3.0	4.0	4.0	4.0	< 4.0	3.0	< 2.0	< 4.0	4.0	3.0	< 2.0
CBOD5 (mg/L) Weekly Average	3.0	4.0	4.0	5.0	5.0	6.0	5.0	3.0	6.0	5.0	4.0	3.0
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	619	665	741	858	600	776	714	1070	1293	1073	1117	771
BOD5 (lbs/day) Raw Sewage Influent Daily Maximum	941	885	977	1155	1264	961	1130	1608	1652	1839	1864	928
BOD5 (mg/L) Raw Sewage Influent Average Monthly	133	159	158	168	107	148	120	197	223	197	207	153

**NPDES Permit Fact Sheet
PA American Water Fairview Township South STP**

NPDES Permit No. PA0082589 A-1

TSS (lbs/day) Average Monthly	< 23	< 21	< 23	< 26	< 28	< 29	< 29	< 33	< 29	< 27	< 27	< 25
TSS (lbs/day) Raw Sewage Influent Average Monthly	806	618	552	560	537	773	601	807	951	910	644	490
TSS (lbs/day) Raw Sewage Influent Daily Maximum	1424	1075	879	1131	955	867	1067	1024	1154	1436	953	774
TSS (lbs/day) Weekly Average	< 26	< 23	< 25	< 29	< 32	36	< 32	43	< 33	< 28	< 28	< 28
TSS (mg/L) Average Monthly	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 6.0	< 5.0	< 6.0	< 5.0	< 5.0	< 5.0	< 5.0
TSS (mg/L) Raw Sewage Influent Average Monthly	172	147	119	114	95	147	100	147	167	166	118	97
TSS (mg/L) Weekly Average	< 5.0	< 5.0	5.0	< 5.0	< 5.0	7.0	5.0	7.0	< 5.0	< 5.0	< 5.0	< 5.0
Fecal Coliform (CFU/100 ml) Geometric Mean	60	40	9	< 10	11	8.0	38	8.0	22	13	31	17
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	2500	440	15	49	68	15	260	21.0	320	74	105	58
Nitrate-Nitrite (mg/L) Average Monthly	< 2.75	< 2.53	< 3.3	< 2.53	< 2.25	< 1.99	< 2.88	< 3.85	< 1.98	< 2.2	< 1.85	< 2.39
Nitrate-Nitrite (lbs) Total Monthly	< 403.4	< 328.5	< 502.6	< 386.5	< 364.9	< 320.3	< 500	< 670	< 372.4	< 371.3	< 285.6	< 380.6
Total Nitrogen (mg/L) Average Monthly	< 4.59	< 4.4	< 4.7	< 4.21	< 3.53	< 3.47	< 4.29	< 5.48	< 3.91	< 4.51	< 4.1	< 5.13
Total Nitrogen (lbs) Effluent Net Total Monthly	< 667.7	< 568.7	< 714	< 645.6	< 573.7	< 561.3	< 744	< 951.4	< 711.4	< 763	< 634.8	< 820
Total Nitrogen (lbs) Total Monthly	< 667.7	< 568.7	< 714	< 645.6	< 573.7	< 561.3	< 744	< 951.4	< 711.4	< 763	< 634.8	< 820
Total Nitrogen (lbs) Effluent Net Total Annual				< 9086								
Total Nitrogen (lbs) Total Annual				< 8678								
Ammonia (lbs/day) Average Monthly	< 2.0	< 0.9	< 0.6	< 1.0	< 0.8	< 1.0	< 0.6	< 0.8	< 3.0	2	< 3	< 5

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NPDES Permit No. PA0082589 A-1

Ammonia (mg/L) Average Monthly	< 0.5	< 0.2	< 0.1	< 0.3	< 0.1	< 0.2	< 0.10	< 0.1	< 0.6	0.4	< 0.6	< 1.0
Ammonia (lbs) Total Monthly	< 68.1	< 26.1	< 18.4	< 44.7	< 23.3	< 37.8	< 17.5	< 23.8	< 97.7	70.70	< 94.9	< 157.7
Ammonia (lbs) Total Annual				< 717								
TKN (mg/L) Average Monthly	1.8	1.9	< 1.4	1.7	1.3	1.5	< 1.4	1.6	< 1.9	< 2.3	2.3	2.7
TKN (lbs) Total Monthly	264.3	240.3	< 211.5	259	208.8	< 241	< 244	281.4	< 339	< 391.7	349.3	439.4
Total Phosphorus (lbs/day) Average Monthly	< 0.8	1.1	1.1	1.1	< 1.2	< 1.3	1.4	1.7	< 1.1	< 0.8	< 0.6	1.0
Total Phosphorus (mg/L) Average Monthly	< 0.2	0.3	0.2	0.2	< 0.2	< 0.3	< 0.2	0.30	< 0.2	< 0.2	< 0.1	0.2
Total Phosphorus (lbs) Effluent Net Total Monthly	< 23.1	34.5	35.3	33	< 36.7	< 39	< 42.4	52.5	< 32.3	< 25.1	< 17.7	31.5
Total Phosphorus (lbs) Total Monthly	< 23.1	34.5	35.3	33	< 36.7	< 39	42.4	52.5	< 32.3	< 25.1	< 17.7	31.5
Total Phosphorus (lbs) Effluent Net Total Annual				< 398								
Total Phosphorus (lbs) Total Annual				398								
Total Copper (lbs/day) Average Monthly	0.02	0.06	0.02	0.02	< 0.02	< 0.01	0.02	0.02	0.02	0.02	0.02	0.03
Total Copper (lbs/day) Daily Maximum	0.02	0.06	0.02	0.02	0.02	< 0.01	0.02	0.02	0.02	0.02	0.02	0.04
Total Copper (mg/L) Average Monthly	0.004	0.015	0.003	0.003	< 0.003	< 0.003	0.003	0.003	0.003	0.003	0.004	0.006
Total Copper (mg/L) Daily Maximum	0.0037	0.017	0.0034	0.0038	0.0027	< 0.0025	0.0031	0.0037	0.0028	0.0031	0.0039	0.008
Total Zinc (lbs/day) Average Monthly	0.3	0.2	0.2	0.2	0.3	0.2	0.4	0.3	0.3	0.3	0.3	0.4
Total Zinc (lbs/day) Daily Maximum	0.30	0.20	0.20	0.20	0.30	0.20	0.40	0.30	0.30	0.30	0.03	0.50
Total Zinc (mg/L) Average Monthly	0.06	0.05	0.05	0.04	0.04	0.04	0.06	0.06	0.05	0.06	0.06	0.07
Total Zinc (mg/L) Daily Maximum	0.06	0.051	0.053	0.045	0.044	0.046	0.068	0.057	0.053	0.061	0.064	0.084

Compliance History

Development of Effluent Limitations

Outfall No. 001 Design Flow (MGD) .5
 Latitude 40° 9' 59.00" Longitude -76° 49' 13.00"
 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 ₅	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)

Comments:

Water Quality-Based Limitations

A "Reasonable Potential Analysis" (Attachment) determined the following parameters were candidates for limitations:

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

Parameter	Limit (mg/l)	SBC	Model
			

Comments:

Best Professional Judgment (BPJ) Limitations

Comments:

Anti-Backsliding


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
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum		
BOD5 Raw Sewage Influent	Report	Report	XXX	Report	XXX	XXX	1/week	8-Hr Composite
TSS Raw Sewage Influent	Report	Report	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Nitrate-Nitrite (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Total Nitrogen (lbs) Effluent Net	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Nitrogen (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Ammonia (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
TKN	XXX	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
TKN (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Total Phosphorus (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Phosphorus (lbs) Effluent Net	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation

Compliance Sampling Location: 

Other Comments: 


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: Phase 1 through Completion of Construction.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.20	XXX	0.64	1/day	Grab
CBOD5	104	167	XXX	25.0	40.0	50	1/week	8-Hr Composite
TSS	125	187	XXX	30.0	45.0	60	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Ammonia Nov 1 - Apr 30	23	XXX	XXX	5.7	XXX	11	2/week	8-Hr Composite
Ammonia May 1 - Oct 31	7.9	XXX	XXX	1.9	XXX	3.8	2/week	8-Hr Composite
Total Phosphorus	8.3	XXX	XXX	2.0	XXX	4	2/week	8-Hr Composite
Total Copper	0.06	0.08 Daily Max	XXX	0.015	0.02 Daily Max	XXX	2/month	8-Hr Composite
Total Zinc	0.5	0.79 Daily Max	XXX	0.12	0.19 Daily Max	XXX	2/month	8-Hr Composite
UV Dosage (mWsec/cm ²)	XXX	XXX	Report	Report	XXX	XXX	1/day	Recorded

Compliance Sampling Location: 

Other Comments: 


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 Phase 1.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.20	XXX	0.64	1/day	Grab
CBOD5	104	167	XXX	25.0	40.0	50	1/week	8-Hr Composite
TSS	125	187	XXX	30.0	45.0	60	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Ammonia Nov 1 - Apr 30	23	XXX	XXX	5.7	XXX	11	2/week	8-Hr Composite
Ammonia May 1 - Oct 31	7.9	XXX	XXX	1.9	XXX	3.8	2/week	8-Hr Composite
Total Phosphorus	8.3	XXX	XXX	2.0	XXX	4	2/week	8-Hr Composite
Total Copper	0.06	0.08 Daily Max	XXX	0.015	0.02 Daily Max	XXX	2/month	8-Hr Composite
Total Zinc	0.5	0.79 Daily Max	XXX	0.12	0.19 Daily Max	XXX	2/month	8-Hr Composite

Compliance Sampling Location:

Other Comments: 


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: Completion of Construction through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
CBOD5	104	167	XXX	25.0	40.0	50	1/week	8-Hr Composite
TSS	125	187	XXX	30.0	45.0	60	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Ammonia Nov 1 - Apr 30	23	XXX	XXX	5.7	XXX	11	2/week	8-Hr Composite
Ammonia May 1 - Oct 31	7.9	XXX	XXX	1.9	XXX	3.8	2/week	8-Hr Composite
Total Phosphorus	8.3	XXX	XXX	2.0	XXX	4	2/week	8-Hr Composite
Total Copper	0.06	0.08 Daily Max	XXX	0.015	0.02 Daily Max	XXX	2/month	8-Hr Composite
Total Zinc	0.5	0.79 Daily Max	XXX	0.12	0.19 Daily Max	XXX	2/month	8-Hr Composite
UV Dosage (mWsec/cm ²)	XXX	XXX	Report	Report	XXX	XXX	1/day	Recorded

Compliance Sampling Location:

Other Comments: 

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, to comply with Pennsylvania's Chesapeake Bay Tributary Strategy.

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
	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum		
Total Nitrogen (lbs) Effluent Net	XXX	9132 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Nitrogen (lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Ammonia (lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Phosphorus (lbs) Effluent Net	XXX	1218 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Phosphorus (lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation

Compliance Sampling Location:

Other Comments:

Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 385-2000-011, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
<input type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 391-2000-023, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input type="checkbox"/>	SOP: [redacted]
<input type="checkbox"/>	Other: [redacted]