

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0081566
APS ID 1125751
Authorization ID 1553408

Applicant and Facility Information

Applicant Name	<u>The York Water Co.</u>	Facility Name	<u>York Haven STP</u>
Applicant Address	<u>130 East Market Street</u> <u>York, PA 17401</u>	Facility Address	<u>Front Street</u> <u>York Haven, PA 17370</u>
Applicant Contact	<u>Matt Scarpato</u>	Facility Contact	<u>Vaughn Wenger</u>
Applicant Phone	<u>(717) 845-3601</u>	Facility Phone	<u>(717) 577-4177</u>
Client ID	<u>69800</u>	Site ID	<u>451913</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>York Haven Borough</u>
Connection Status		County	<u>York</u>
Date Application Received	<u>December 26, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 12, 2026</u>	If No, Reason	
Purpose of Application	<u>Renewal and transfer of existing NPDES permit</u>		

Summary of Review

The York Water Company has applied to the Pennsylvania Department of Environmental Protection (DEP) for the transfer and reissuance of the NPDES permit for the York Haven STP. The permit was last reissued on July 1, 2021 and became effective on July 1 2021. The permit will expire on June 30, 2026.

Based on the review outlined in this fact sheet, it is recommended that the permit be drafted, and a notice of the draft permit be published in the *Pennsylvania Bulletin* for public comments for 30 days. A file review of documents associated with the discharge or permittee may be available at the PA DEP southcentral regional office (SCRO), 909 Elmerton Avenue, Harrisburg, PA 17110. To make an appointment for file reviews, contact the SCRO file review coordinator at 717.705.4700.

Sludge use and disposal description and location(s): Last disposal site not documented in application (biosolids last removed in 2022).

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		<i>Aaron Baar</i> Aaron Baar / Project Manager	February 3, 2026
x		<i>Maria D. Bebenek</i> for Daniel W. Martin, P.E. / Environmental Engineer Manager	February 25, 2026

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.08</u>
Latitude	<u>40° 6' 38.46"</u>	Longitude	<u>-76° 42' 42.31"</u>
Quad Name	<u>York Haven</u>	Quad Code	<u>1832</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Conewago Creek (WWF)</u>	Stream Code	<u>8303</u>
NHD Com ID	<u>57463999</u>	RMI	<u>0.1</u>
Drainage Area	<u>515</u>	Yield (cfs/mi ²)	<u>0.0753</u>
Q ₇₋₁₀ Flow (cfs)	<u>38.8</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>257.86</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>7-F</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>Name</u>		
Nearest Downstream Public Water Supply Intake	<u>PP&L Bruner Island</u>		
PWS Waters	<u>Susquehanna River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Drainage Area

The discharge is to Conewago Creek at RMI 0.1. The drainage area upstream of the discharge point is determined to be 515 sq.mi. according to USGS PA StreamStats available at <https://streamstats.usgs.gov/ss/>.

Stream Flow

According to StreamStats, the watershed has a Q₇₋₁₀ of 38.8 cfs and a Q₃₀₋₁₀ of 51.6 cfs. This information was used to obtain a Low Flow Yield (LFY) and Q₃₀₋₁₀/Q₇₋₁₀ ratio as follows (Guidance No. 391-2000-023).

$$Q_{7-10} = 38.8 \text{ cfs}$$

$$LFY = 38.8 \text{ cfs}/515 \text{ mi}^2 = 0.0753 \text{ cfs}/\text{mi}^2$$

$$Q_{30-10}/Q_{7-10} = 51.6 \text{ cfs}/38.8 \text{ cfs} = 1.3299$$

Conewago Creek

25 Pa Code §93.9 classifies the receiving water, Conewago Creek, with a Warm Water Fishery (WWF) Existing Use designation. Effluent limits for this discharge have been developed to ensure that existing in-stream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. The discharge is in a stream segment listed as attaining uses.

Local Watershed Total Maximum Daily Loads (TMDLs)

According to PA's 2024 Integrated Water Quality Monitoring and Assessment Report, Conewago Creek in the vicinity of the point of discharge is not impaired. The waterway's is listed as Category 2 in the 2024 Integrated Report, indicating that some but not all uses are met. The assessment status of the remaining uses may be unknown because data are insufficient to assess the water, or it may be impaired.

Public Water Supply Intake

The nearest downstream public water supply intake is the PP&L Bruner Island intake located on the Susquehanna River. Considering the distance and nature of the discharge, the discharge is not expected to significantly affect the water supply.

Class A Wild Trout Streams

The receiving stream is not a Class A Wild Trout stream.

Treatment Facility Summary				
Treatment Facility Name: York Haven STP				
WQM Permit No.	Issuance Date			
6784405				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Gas Chlorine	0.08
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.08	136	Not Overloaded	Aerobic Digestion	Other WWTP

The York Water Company proposes to own and operate the York Haven sanitary wastewater treatment facility located in York Haven Borough, York County. The York Water Company took possession of the facilities and began operating them on December 9, 2024 (Planning approval pending as of February 3, 2026).

The facility serves only York Haven Borough, all wastes are residential in nature, and all sewer systems are 100% separated. Having an annual average design flow of 0.08 MGD and a hydraulic design capacity of 0.08 MGD, this facility consists of a comminutor, an EQ tank, aeration tank x2, secondary clarification x2, chlorine disinfection and the outfall (Outfall 001). Aluminum Sulfate is added to the aeration tank to facilitate phosphorus precipitation.

Wasted solids are treated in an onsite aerobic digester.

Compliance History	
Summary of DMRs:	DMR results for the past year are presented below.
Summary of Inspections:	<p>Since the last renewal of the facility's NPDES permit, the following inspections have been logged in WMS:</p> <p>March 5, 2025: A routine CEI was conducted by Shawn Lesitsky. The following violation was noted:</p> <p style="padding-left: 40px;">25 Pa. Code 92a.44: NPDES - Violation of effluent limits in Part A of permit The instantaneous max (IMAX) on York Haven's NDPEs Permit is 1.6 mg/L. A TRC grab sample taken at 09:35 yeilded a result of 1.78 mg/L. A second TRC test was conducted at 09:55 with Mr. Buracker also taking a reading. The second test yielded the result of 0.91 mg/L, with Mr. Buracker getting a result of 1.08 mg/L</p> <p>A recommend was made to ensure laboratory tests are conducted within the permit limit for fecal coliform with the correct dilution and to modify the WQM Part II Permit application if liquid chlorine is chosen as the means of disinfection.</p> <p>May 2, 2024: A routine CEI was conducted by Shawn Lesitsky. No violations were noted. Recommendations were made to repair the clarifier's baffle wall, repair or replace generator to ensure emergency power is available, routinely test and document chlorine alarm on a set schedule, and to review and update Emergency Response plan annually.</p>

Other Comments: As of February 3, 2026, there are no open violations associated with this facility.

Existing Effluent Limitations and Monitoring Requirements

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	0.5	XXX	1.6	1/day	Grab
CBOD5	17	27	XXX	25	40	50	2/month	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	8-Hr Composite
TSS	20	30	XXX	30	45	60	2/month	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Nitrate-Nitrite	Report	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Nitrogen	Report	Report Total Mo	XXX	Report	XXX	XXX	1/month	Calculation
Ammonia Nov 1 - Apr 30	Report	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	10	XXX	XXX	15	XXX	30	2/month	8-Hr Composite
TKN	Report	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite

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		
Total Phosphorus	1.3	Report Total Mo	XXX	2.0	XXX	4	1/month	8-Hr Composite

Compliance Sampling Location: Outfall 001

Compliance History

DMR Data for Outfall 001 (from January 1, 2025 to December 31, 2025)

Parameter	DEC-25	NOV-25	OCT-25	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25
Flow (MGD) Average Monthly	0.025	0.025	0.023	0.022	0.025	0.031	0.035	0.036	0.032	0.026	0.026	0.025
Flow (MGD) Daily Maximum	0.050	0.036	0.037	0.029	0.042	0.066	0.078	0.078	0.057	0.038	0.041	0.035
pH (S.U.) Instantaneous Minimum	6.7	6.54	6.36	6.18	6.2	6.83	6.59	6.79	6.49	6.26	6.85	6.76
pH (S.U.) Instantaneous Maximum	7.86	7.68	7.90	7.84	7.85	7.88	7.65	7.78	7.64	7.86	8.41	7.93
DO (mg/L) Instantaneous Minimum	7.0	6.98	6.68	6.57	5.95	5.25	5.57	5.54	6.17	6.47	6.73	6.71
TRC (mg/L) Average Monthly	0.31	0.38	0.33	0.31	0.28	0.29	0.33	0.21	0.25	0.33	0.34	< 0.27
TRC (mg/L) Instantaneous Maximum	0.79	1.28	0.85	0.85	0.96	0.78	0.84	0.59	0.82	1.29	1.29	0.97
CBOD5 (lbs/day) Average Monthly	0.7	0.9	0.5	0.6	< 1.1	< 0.9	< 0.8	< 1.0	1.4	1.1	< 0.5	0.8
CBOD5 (lbs/day) Weekly Average	0.9	1.2	0.5	0.6	1.8	1.0	1.1	< 1.1	1.6	1.6	< 0.5	1.0
CBOD5 (mg/L) Average Monthly	3.3	4.7	3.5	3.6	< 4.4	< 2.6	< 2.6	< 2.8	4.5	4.5	< 2.6	3.7
CBOD5 (mg/L) Weekly Average	3.9	5.1	4.6	4.0	6.3	2.7	2.8	3.2	5.6	6.3	2.8	4.6
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	46	43	19	31	62	37	37	48	49	55	31	46
BOD5 (lbs/day) Raw Sewage Influent Daily Maximum	57	48	23	37	98	37	47	65	68	56	38	53
BOD5 (mg/L) Raw Sewage Influent Average Monthly	213	228	137	188	232	111	118	120	138	223	172	211

**NPDES Permit Fact Sheet
York Haven STP**

NPDES Permit No. PA0081566

TSS (lbs/day) Average Monthly	1.9	1.8	0.3	0.7	2.2	1.0	2.8	7.5	2.4	1.4	1.1	3.7
TSS (lbs/day) Raw Sewage Influent Average Monthly	26	33	19	25	76	29	32	43	44	32	19	48
TSS (lbs/day) Raw Sewage Influent Daily Maximum	26	43	19	31	130	31	48	57	57	35	22	62
TSS (lbs/day) Weekly Average	3.3	2.1	0.5	0.9	3.7	1.4	5.3	13.0	2.9	2.0	2.1	4.3
TSS (mg/L) Average Monthly	10	10	2.5	5	8.0	3.0	7.5	7.5	8.5	5.5	5.5	17.0
TSS (mg/L) Raw Sewage Influent Average Monthly	126	190	140	148	282	84	96	110	128	130	106	220
TSS (mg/L) Weekly Average	18	14	3.0	7	13.0	4.0	14.0	13.0	13.0	8.0	10.0	19.0
Fecal Coliform (No./100 ml) Geometric Mean	61	177	112	51	< 2	< 1	25	1207	64	1824	< 64	2107
Fecal Coliform (No./100 ml) Instantaneous Maximum	313	461	236	135	6	< 1	157	1300	816	17330	4110	7270
E. Coli (No./100 ml) Instantaneous Maximum	91			2			27			5170		
Nitrate-Nitrite (lbs/day) Average Monthly	7.6	6.0	6.5	6.8	46.0	10.0	8.8	13.2	13.8	< 3.8	< 0.4	2
Nitrate-Nitrite (mg/L) Average Monthly	36.5	31.0	48.5	39.3	39.5	29.5	28.0	33.0	38.5	< 15.8	< 2.0	10
Total Nitrogen (lbs/day) Average Monthly	< 8	< 6	< 7	< 7	< 10	< 10	< 9	< 13	< 14	< 11	< 5	4
Total Nitrogen (lbs/day) Total Monthly	< 240	< 182	< 206	< 206	< 298	< 315	< 270	< 416	< 419	< 341	< 131	130
Total Nitrogen (mg/L) Average Monthly	< 37.0	< 31.5	< 50.0	< 39.8	< 40.0	< 30.0	< 28.5	< 33.5	< 39.0	< 44.5	< 27.5	19.3
Ammonia (lbs/day) Average Monthly	< 0.03	0.04	< 0.02	< 0.03	< 0.05	< 0.04	< 0.04	< 0.04	< 0.04	5.79	3.41	1.83
Ammonia (mg/L) Average Monthly	< 0.1	0.2	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	23.2	20.5	8.5

**NPDES Permit Fact Sheet
York Haven STP**

NPDES Permit No. PA0081566

TKN (lbs/day) Average Monthly	< 0.11	< 0.1	< 0.19	< 0.08	< 0.12	< 0.17	< 0.15	< 0.20	< 0.18	< 7.21	4.29	2.12
TKN (mg/L) Average Monthly	< 0.5	< 0.5	< 1.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 28.8	25.5	9.8
Total Phosphorus (lbs/day) Average Monthly	0.2	0.2	0.3	0.5	0.5	0.6	0.5	0.6	0.4	0.4	0.3	0.3
Total Phosphorus (lbs/day) Total Monthly	7	7	8	14	16	18	14	19	13	13	7	8
Total Phosphorus (mg/L) Average Monthly	1.1	1.1	1.9	2.7	2.1	1.7	1.4	1.6	1.2	1.7	1.5	1.3

Compliance History

Effluent Violations for Outfall 001, from: February 1, 2025 To: December 31, 2025

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Fecal Coliform	05/31/25	Geo Mean	1207	No./100 ml	200	No./100 ml
Fecal Coliform	03/31/25	IMAX	17330	No./100 ml	10000	No./100 ml
Fecal Coliform	05/31/25	IMAX	1300	No./100 ml	1000	No./100 ml
Total Phosphorus	08/31/25	Avg Mo	2.1	mg/L	2.0	mg/L
Total Phosphorus	09/30/25	Avg Mo	2.7	mg/L	2.0	mg/L

Other Comments: SCRO Operations will determine if further action is needed or not.

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.08</u>
Latitude <u>40° 6' 37.47"</u>	Longitude <u>-76° 42' 44.42"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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: These standards apply, subject to water quality analysis and BPJ where applicable.

Water Quality-Based Limitations

CBOD₅, NH₃-N and Dissolved Oxygen (DO)

WQM 7.0 version 1.0b is a water quality model designed to assist DEP to determine appropriate permit requirements for CBOD₅, NH₃-N and DO. DEP's guidance no. 391-2000-007 provides the technical methods contained in WQM 7.0 for conducting wasteload allocation and for determining recommended NPDES effluent limits for point source discharges. The model was utilized using data derived by USGS StreamStats and the model output indicated that existing WQBELs for CBOD₅ and ammonia are still protective of water quality.

The model also determined that the facility's existing DO limits of 5 mg/L is still protective of water quality.

See attached for model inputs and outputs.

Toxics

DEP's NPDES permit application for minor sewages (less than 0.1 MGD) does not require sampling for heavy metals including Total Copper, Total Lead, and Total Zinc.

E. Coli Monitoring

In conformity with the Department's *Establishing Effluent Limitations for Individual Sewage Permits* (SOP No. BCW-PMT-033) and as authorized by § 92a.61 of the PA Code, annual E. Coli monitoring is proposed to continue quarterly in this permit. The collection method will be via grab sample.

Best Professional Judgment (BPJ) Limitations

Total Residual Chlorine

Since chlorine is used for disinfection, Total Residual Chlorine (TRC) effluent levels must be regulated in accordance with 25 Pa Code §92a.48(b). DEP's TRC_CALC worksheet is utilized to determine if the existing BAT TBEL is still appropriate. The worksheet indicates that the existing limits of 0.5 mg/L (average monthly) and 1.6 mg/L (IMAX) are still protective of water quality.

The Department's TRC_CALC worksheet is presented at the end of this report.

Total Phosphorus & Total Nitrogen

DEP's SOP no. BPNPSM-PMT-033 (Establishing Effluent Limitations for Individual Sewage Permits) recommends monitoring requirements for Total Phosphorus and Total Nitrogen for all sewage facilities. The existing TP concentration limits (2.0 mg/L average monthly and 4.0 mg/L instantaneous max) and mass limits (1.3 lbs/day average monthly) will continue in this permit. The sampling frequency for both Total Phosphorus and Total Nitrogen is currently required 1/month. Due to the occurrence of multiple exceedances of the facility's TP limits, the sampling frequency of TP is proposed to increase to 2/month in conformity with SOP No. BCW-PMT-033 and Table 6.3 in Guidance Doc. 362-0400-001. Sampling requirements for nitrogenous species are proposed to remain 1/month.

Additional Considerations

Flow Monitoring

The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii).

Chesapeake Bay TMDL

The Department formulated a strategy in April 2007, to comply with the EPA's and Chesapeake Bay Foundation's requirements to reduce point source loadings of Total Nitrogen (TN) and Total Phosphorus (TP) to the Bay. In the Strategy, sewage dischargers have been prioritized by Central Office based on their delivered TN loadings to the Bay. The highest priority (Phases 1, 2, and 3) dischargers received annual loading caps based on their design flow on August 29, 2005 and concentrations of 6 mg/l TN and 0.8 mg/l TP. Phase 4 (0.2 -0.4mgd) and Phase 5 (below 0.2mgd) facilities were required to monitor and report TN and TP during permit renewal at a monitoring frequency following Table 6-3 of DEP's Technical Guidance for Development and Specification of effluent Limitations (No. 362-0400-001).

EPA published the Chesapeake Bay Total Maximum Daily Load (TMDL) in December of 2010. Despite extensive restoration efforts during the past 25 years, the TMDL was prompted by insufficient progress and continued poor water quality in the Chesapeake Bay and its tidal tributaries.

In order to address the TMDL, Pennsylvania developed, in addition to the Bay Strategy, a Chesapeake Watershed Implementation Plan (WIP) Phase 1 in January 2011, Phase 2 in March 2012, and Phase 3 in December 2019.

The Phase 3 WIP categorizes this facility as a phase 5 non-significant sewage facility that has a design flow less than 0.2 MGD but greater than 0.002 MGD. The WIP recommends monitoring and reporting for Total Nitrogen and Total Phosphorus throughout the permit term at a frequency no less than annual. The monitoring of these pollutants is proposed as previously discussed.

Monitoring Frequency and Sample Type

Unless discussed otherwise above, the permit's monitoring frequency and sample type for all parameters will remain unchanged from the last permit renewal.

Antidegradation Requirements

All effluent limitations and monitoring requirements have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Anti-backsliding Requirement

All effluent limits proposed in this fact sheet are as stringent as effluent limits specified in the existing permit renewal unless noted otherwise above. This approach is in accordance with 40 CFR §122.44(l)(1).

Annual Fees

An annual fee clause is continued in the permit in accordance with 25 Pa. Code § 92a.62. The facility covered by the permit is classified in the Minor Sewage Facility ≥ 0.05 and < 1 MGD fee category, which has an annual fee of \$1,000.

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" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

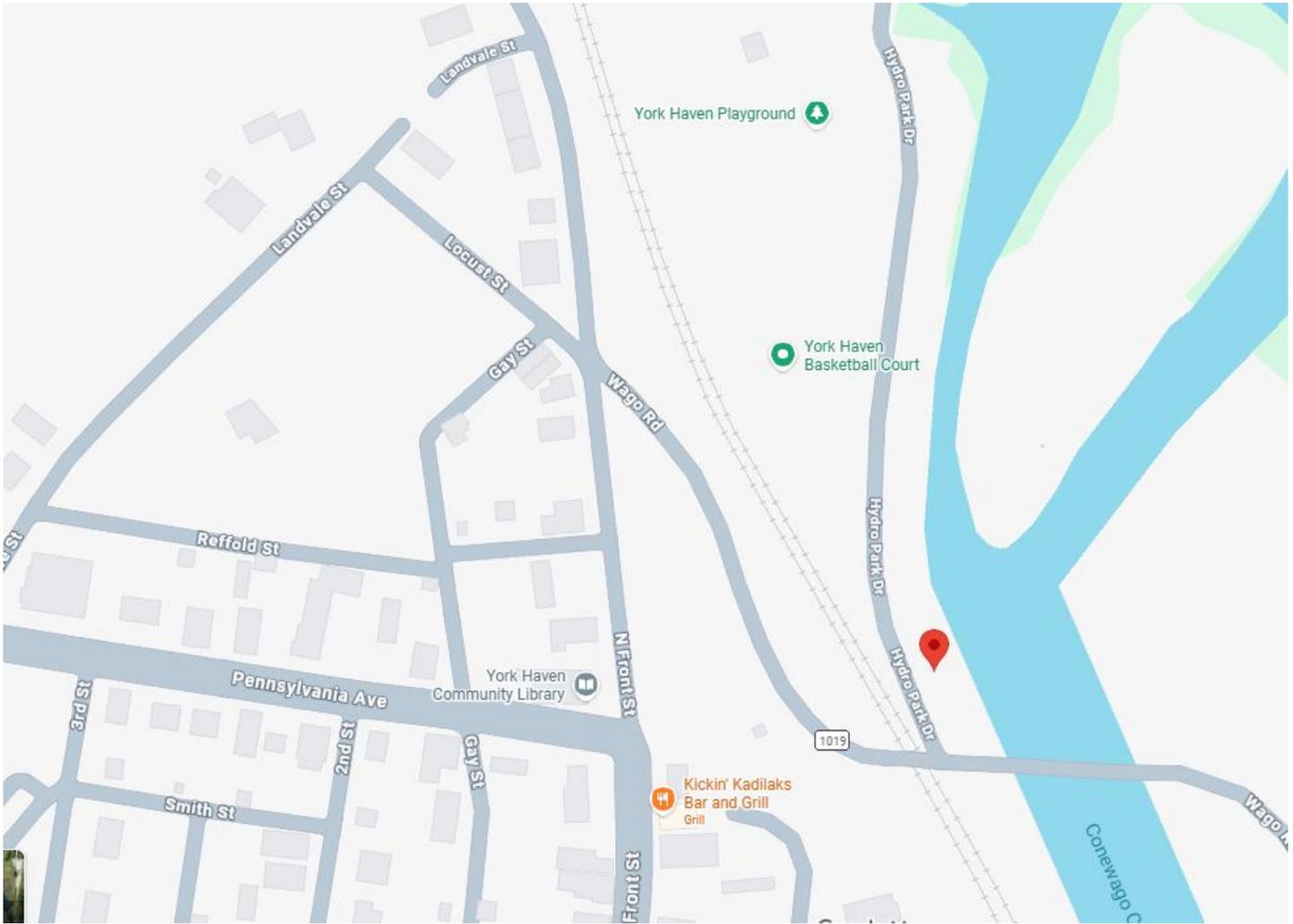
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	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	0.5	XXX	1.6	1/day	Grab
CBOD5	17	27	XXX	25	40	50	2/month	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	8-Hr Composite
TSS	20	30	XXX	30	45	60	2/month	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Nitrate-Nitrite	Report	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Nitrogen	Report	Report Total Mo	XXX	Report	XXX	XXX	1/month	Calculation

Outfall 001 , Continued (from 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	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Ammonia Nov 1 - Apr 30	Report	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	10	XXX	XXX	15	XXX	30	2/month	8-Hr Composite
TKN	Report	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Phosphorus	1.3	Report Total Mo	XXX	2.0	XXX	4	2/month	8-Hr Composite

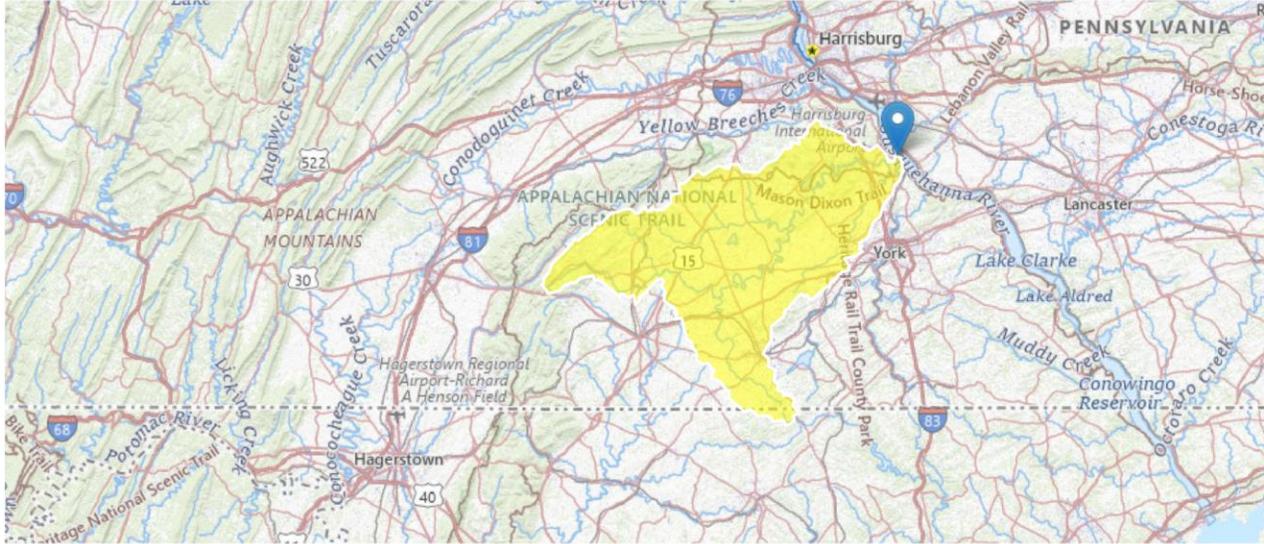
Compliance Sampling Location: Outfall 001

Tools and References Used to Develop Permit	
<input checked="" type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [redacted])
<input checked="" 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 checked="" type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 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, 386-2000-008, 4/97.
<input checked="" type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 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, 386-2000-016, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 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, 386-2000-020, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 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, 386-2000-010, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 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, 386-2000-006, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 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]



StreamStats Report

Region ID: PA
Clicked Point (Latitude, Longitude): 40.11090, -76.71126
Time: 2026-02-02 10:06:18 -0500



StreamStats Update

Starting with version 4.30.0, the StreamStats application uses services that were redeveloped with open-source software components. Users may observe minor variations in computed results when compared to those from previous versions. These differences are expected and do not reflect errors in the underlying data or analytical methods. Users are advised to consider these potential variations when interpreting or comparing results

Low-Flow Statistics Flow Report [Low Flow Region 1]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	76.1	ft ³ /s	46	46
30 Day 2 Year Low Flow	102	ft ³ /s	38	38
7 Day 10 Year Low Flow	38.8	ft ³ /s	51	51
30 Day 10 Year Low Flow	51.6	ft ³ /s	46	46
90 Day 10 Year Low Flow	83.5	ft ³ /s	41	41

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/>)

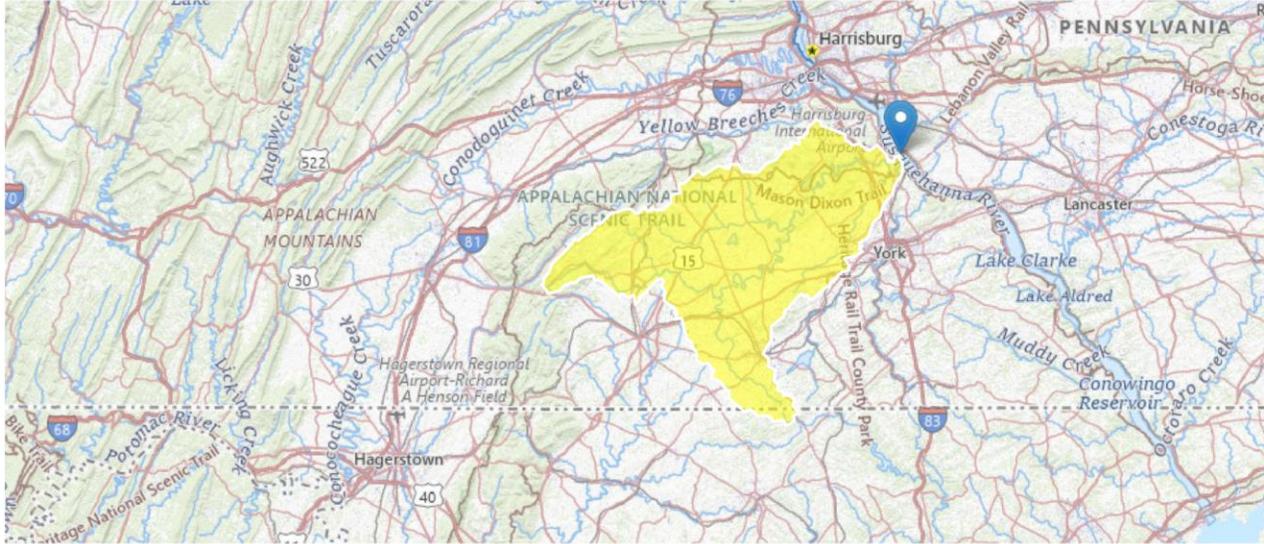
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StreamStats Report

Region ID: PA
Clicked Point (Latitude, Longitude): 40.11405, -76.70729
Time: 2026-02-02 10:08:00 -0500



StreamStats Update

Starting with version 4.30.0, the StreamStats application uses services that were redeveloped with open-source software components. Users may observe minor variations in computed results when compared to those from previous versions. These differences are expected and do not reflect errors in the underlying data or analytical methods. Users are advised to consider these potential variations when interpreting or comparing results

Low-Flow Statistics Flow Report [Low Flow Region 1]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	76.3	ft ³ /s	46	46
30 Day 2 Year Low Flow	102	ft ³ /s	38	38
7 Day 10 Year Low Flow	38.9	ft ³ /s	51	51
30 Day 10 Year Low Flow	51.7	ft ³ /s	46	46
90 Day 10 Year Low Flow	83.7	ft ³ /s	41	41

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/>)

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WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>	<u>Stream Name</u>				
07F		8303	CONEWAGO CREEK				
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)
0.100	York Haven STP	PA0081566	0.080	CBOD5	25		
				NH3-N	15	30	
				Dissolved Oxygen			5

WQM 7.0 Wasteload Allocations

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>
07F	8303	CONEWAGO CREEK

NH3-N Acute Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
0.100	York Haven STP	11.23	30	11.23	30	0	0

NH3-N Chronic Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
0.100	York Haven STP	1.37	15	1.37	15	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
0.10	York Haven STP	25	25	15	15	5	5	0	0

WQM 7.0 D.O.Simulation

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
07F	8303	CONEWAGO CREEK		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>	<u>Analysis pH</u>	
0.100	0.080	25.000	6.989	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>	<u>Reach Velocity (fps)</u>	
126.575	1.143	110.779	0.269	
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>	<u>Reach Kn (1/days)</u>	
2.07	0.056	0.05	1.029	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>	<u>Reach DO Goal (mg/L)</u>	
8.233	0.027	Tsivoglou	5	
<u>Reach Travel Time (days)</u>	Subreach Results			
0.022	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.002	2.07	0.05	7.54
	0.004	2.07	0.05	7.54
	0.007	2.07	0.05	7.54
	0.009	2.07	0.05	7.54
	0.011	2.07	0.05	7.54
	0.013	2.07	0.05	7.54
	0.016	2.07	0.05	7.54
	0.018	2.07	0.05	7.54
	0.020	2.07	0.05	7.54
	0.022	2.07	0.05	7.54

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.3299	Temperature Adjust Kr	<input checked="" type="checkbox"/>
D.O. Saturation	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	5		

WQM 7.0 Hydrodynamic Outputs

<u>SWP Basin</u>		<u>Stream Code</u>				<u>Stream Name</u>						
07F		8303				CONEWAGO CREEK						
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
Q7-10 Flow												
0.100	38.80	0.00	38.80	.1238	0.00002	1.143	126.57	110.78	0.27	0.022	25.00	6.99
Q1-10 Flow												
0.100	24.83	0.00	24.83	.1238	0.00002	NA	NA	NA	0.21	0.029	25.00	6.98
Q30-10 Flow												
0.100	51.60	0.00	51.60	.1238	0.00002	NA	NA	NA	0.32	0.019	25.00	6.99

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
07F	8303	CONEWAGO CREEK	0.100	257.87	515.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.100	38.80	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
York Haven STP	PA0081566	0.0800	0.0800	0.0800	0.000	25.00	6.05

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	5.00	8.24	0.00	0.00
NH3-N	15.00	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
07F	8303	CONEWAGO CREEK	0.001	257.86	516.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.100	38.90	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	0.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (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

TRC_CALC

1A	B	C	D	E	F	G
2	TRC EVALUATION					
3	Input appropriate values in B4:B8 and E4:E7					
4	38.8	= Q stream (cfs)		0.5	= CV Daily	
5	0.08	= Q discharge (MGD)		0.5	= CV Hourly	
6	30	= no. samples		1	= AFC_Partial Mix Factor	
7	0.3	= Chlorine Demand of Stream		1	= CFC_Partial Mix Factor	
8	0	= Chlorine Demand of Discharge		15	= AFC_Criteria Compliance Time (min)	
9	0.5	= BAT/BPJ Value		720	= CFC_Criteria Compliance Time (min)	
	0	= % Factor of Safety (FOS)			=Decay Coefficient (K)	
10	Source	Reference	AFC Calculations		Reference	CFC Calculations
11	TRC	1.3.2.iii	WLA_afc = 100.029		1.3.2.iii	WLA_cfc = 97.513
12	PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373		5.1c	LTAMULT_cfc = 0.581
13	PENTOXSD TRG	5.1b	LTA_afc = 37.273		5.1d	LTA_cfc = 56.689
14						
15	Source	Effluent Limit Calculations				
16	PENTOXSD TRG	5.1f	AML_MULT = 1.231			
17	PENTOXSD TRG	5.1g	AVG_MON_LIMIT (mg/l) = 0.500		BAT/BPJ	
18			INST_MAX_LIMIT (mg/l) = 1.635			
	WLA_afc	(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))... ...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)				
	LTAMULT_afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)				
	LTA_afc	wla_afc*LTAMULT_afc				
	WLA_cfc	(.011/e(-k*CFC_tc)) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))... ...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)				
	LTAMULT_cfc	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)				
	LTA_cfc	wla_cfc*LTAMULT_cfc				
	AML_MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))				
	AVG_MON_LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)				
	INST_MAX_LIMIT	1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)				