

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0247715
 APS ID 1026265
 Authorization ID 1377239

Applicant and Facility Information

Applicant Name	<u>The York Water Co.</u>	Facility Name	<u>Amblebrook WWTP</u>
Applicant Address	<u>130 East Market Street</u> <u>York, PA 17401</u>	Facility Address	<u>415 Martin Road</u> <u>Gettysburg, PA 17325</u>
Applicant Contact	<u>Mark Wheeler</u>	Facility Contact	<u>Mark Wheeler</u>
Applicant Phone	<u>(717) 718-7545</u>	Facility Phone	<u>(717) 718-7545</u>
Client ID	<u>69800</u>	Site ID	<u>639896</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Straban Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Adams</u>
Date Application Received	<u>November 24, 2021</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>November 24, 2021</u>	If No, Reason	<u>DEP Discretion</u>
Purpose of Application	<u>NPDES permit renewal.</u>		

Summary of Review

The York Water Company has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its National Pollutant Discharge Elimination System (NPDES) permit for Amblebrook Wastewater Treatment Plant. This permit renewal application was received on November 24, 2021. The permit was last reissued on May 5, 2017, authorizing discharge of treated sewage from the existing treatment plant located in Straban Township, Adams County. The permit expired on May 31, 2022.

The NPDES ownership transferred twice since last permit renewal were issued on June 1, 2020 & November 19, 2020.

According to the most recent permit application, the facility receives 100% of its flow from Straban Township. The hydraulic design flow and annual average design flow are 0.27 MGD. The facility construction was completed on April 20, 2022 and began operation on May 4, 2022.

The WQM Part II permit No. 0117401 original issued on January 18, 2018, and ownership transferred 0117401 twice issued on June 1, 2020 & November 19, 2020. The WQM Construction completion date was April 20, 2022.

Sludge use and disposal description and location(s): N/A

Changes from the previous permit: Unit of Fecal Coliform changed from CFU/100 ml to No./100 ml. The E. Coli. monitoring and report requirements will add to the proposed permit.

Based on the review outlined in this fact sheet, it is recommended that the permit be drafted. A public notice of the draft permit will be published in the *Pennsylvania Bulletin* for public comments for 30 days.

Approve	Deny	Signatures	Date
X		<i>Hilaryle</i> Hilary H. Le / Environmental Engineering Specialist	May 27, 2022
X		<i>/s/</i> Daniel W. Martin, P.E. / Environmental Engineer Manager	June 14, 2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.27
Latitude	39° 52' 39.15"	Longitude	-77° 11' 17.79"
Quad Name	Biglerville	Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary of Rock Creek (WWF)	Stream Code	59207
NHD Com ID	134238699	RMI	0.88 mile
Drainage Area	0.83 mi. ²	Yield (cfs/mi ²)	See comments below
Q ₇₋₁₀ Flow (cfs)	See comments below	Q ₇₋₁₀ Basis	See comments below
Elevation (ft)	515	Slope (ft/ft)	
Watershed No.	13-D	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status	Name		
Nearest Downstream Public Water Supply Intake	City of Frederick, MD		
PWS Waters	Monocacy River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	Approximate 47.0 miles

Changes Since Last Permit Issuance:

Drainage Area

The discharge is to Rock Run at RMI 0.88 miles. A drainage area upstream of the discharge is estimated to be 0.83 mi.², according to USGS PA StreamStats available at <https://streamstats.usgs.gov/ss/>.

Stream Flow

According to StreamStats, the discharge point on Tributary 59207 of Rock Creek has a Q₇₋₁₀ of 0.015 cfs and a drainage area of 0.83 mi.², which results in a Q₇₋₁₀ low flow yield of 0.018 cfs/mi.².

However, since the drainage area at the discharge point is well below the minimum value recommended by StreamStats, the Q₇₋₁₀ for the discharge point was determined by first finding the Q₇₋₁₀ for a larger drainage area downstream of the discharge point. The drainage area just downstream of the confluence of UNT 59207 with UNT 59195 was chosen as a proper representative watershed of large enough size for accurate regression analysis. According to StreamStats, this point has a Q₇₋₁₀ of 0.15 cfs and a drainage area of 5.1 mi.², which results in a low flow yield of 0.029 cfs/mi.². This information is used to obtain a chronic or 30-day (Q₃₀₋₁₀), and an acute or 1-day (Q₁₋₁₀) exposure stream flow for the discharge point as follows (Guidance No. 391-2000-023):

$$\begin{aligned} \text{Low Flow Yield} &= 0.15 \text{ cfs} / 5.1 \text{ mi.}^2 = 0.029 \text{ cfs/mi.}^2 \\ Q_{7-10} &= 0.029 \text{ cfs/mi.}^2 * 0.83 \text{ mi.}^2 = 0.024 \text{ cfs} \\ Q_{30-10} &= 1.36 * 0.024 \text{ cfs} = 0.033 \text{ cfs} \\ Q_{1-10} &= 0.64 * 0.024 \text{ cfs} = 0.015 \text{ cfs} \end{aligned}$$

The resulting Q₇₋₁₀ dilution ratio is: Q_{stream} / Q_{discharge} = 0.024 cfs / [0.270 MGD * (1.547 cfs/MGD)] = 0.057:1

Tributary 59207 of Rock Creek

25 Pa. Code § 93.9z classifies Tributary 59207 of Rock Creek as warm water fishes (WWF) surface water. Based on the 2020 Integrated Report, Rock Creek, assessment unit ID 10625, is not impaired. A TMDL currently does not exist for this stream segment, therefore, no TMDL has been taken into consideration during this review.

The nearest downstream public water supply intake is the City of Frederick intake on the Monocacy River, approximately 47.0 miles downstream of this discharge. Considering distance and dilution, the discharge is not expected to impact the water supply.

Treatment Facility Summary				
Treatment Facility Name: Amblebrook WWTP				
WQM Permit No.		Issuance Date		
0117401		1/18/2018		
0117401 T-1		6/1/2020		
0117401 T-2		11/19/2020		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Activated Sludge With Solids Removal	Ultraviolet	0.27
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.27		Not Overloaded		

Changes Since Last Permit Issuance:

The WWTP train is proposed to be configured as follows:

Influent Screening (1) ⇒ Equalization Tank (1) ⇒ Anoxic Zone (2) ⇒ Aeration Tank (2) ⇒ Clarifier (2) ⇒ UV Disinfection Unit (1) ⇒ Post Aeration Unit (1) ⇒ Discharge

Chemicals use Poly-aluminum chloride for phosphorus removal and coagulation, and soda ash solution to increase alkalinity.

Compliance History	
Summary of DMRs:	No DMRs have been received since the facility had complete construction on 4/20/2022 and began operation on 5/4/2022 (<i>this fact sheet, pages 12 & 13</i>).
Summary of Inspections:	<p>3/31/2022, Mr. Bettinger & Mr. Hoy, DEP WQS & WQT, conducted a routine partial inspection. There were no violations noted during inspection. On-site inspection observations revealed that the plant is still in construction phase. Observations included the treatment tanks, main influent pump station, operations building, and pump/haul station. Significant progress has been achieved toward the construction of the facility since the previous Department inspection which occurred on 3/26/2021. Mr. Wheeler stated that the facility is continuing to operate under pump and haul guidelines that were set forth by the Department. According to Mr. Wheeler, Smith's Sanitary Septic Service is currently hauling approximately 10 loads per week from the site. Mr. Wheeler estimated that the treatment facility will begin operation on April 18th, 2022.</p> <p>8/3/2021, Mr. Bettinger, DEP WQS, conducted compliance evaluation inspection. There were no violations identified during inspection. The facility is presently set up to operate under the pump and haul provision that was approved by the PA DEP. While on site, DEP inspector confirmed that the treatment plant is not receiving any influent.</p> <p>3/26/2021, Mr. Bettinger, DEP WQS, conducted a routine partial inspection. There were no violations noted during inspection. The facility is partially constructed and currently in use under a pump and haul provision that was issued as a letter on 2/14/2020. There were recommendations such as ensure monthly pump and haul reports are submitted to the Department as required by the pump and haul agreement that was issued by the Department on 2/14/2020.</p> <p>11/19/2019, Mr. Bettinger, DEP WQ Environmental Trainee, conducted routine inspection. There were no violations identified during inspection. A site visit was conducted to determine if facility has been constructed. Construction for the Gettysburg Commons is in progress. Physical construction of the sewage treatment plant has begun and the SBR tanks are in place.</p>
Other Comments:	There are no open violations against the facility or the permittee.

Other Comments:

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.27</u>
Latitude <u>39° 52' 39.00"</u>	Longitude <u>-77° 11' 18.00"</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: Total residual chlorine does not apply to this facility.

Water Quality-Based Limitations

Ammonia (NH₃-N):

NH₃-N calculations were based on the Department's Implementation Guidance of Section 93.7 Ammonia Criteria, dated 11/4/97 (ID No. 391-2000-013). The following data is necessary to determine the in-stream NH₃-N criteria used in the attached computer model of the stream:

- Discharge pH 7.0 (Default per 391-2000-007)
- Discharge Temperature 25°C (Default per 391-2000-007)
- Stream pH 7.0 (Default per 391-2000-006)
- Stream Temperature 25°C (Default for WWF per 391-2000-003)
- Background NH₃-N 0 mg/L (Assumed since no upstream WWTPs)

The model input data and results are attached. The printout of the WQM 7.0 model (ver. 1.1) output indicates that at a discharge of 0.270 MGD, limits (rounded according to the NPDES Technical Guidance No. 362-0400-001) of 1.47 mg/L NH₃-N as a monthly average and 2.94 mg/L NH₃-N instantaneous maximum are necessary to protect the aquatic life from toxicity effects during the summer months. However, per anti-back-sliding requirements, the existing monthly average limit of 1.0 mg/L and 2.0 mg/L IMAX for summer more stringent and will remain in the proposed permit. The winter effluent limit will be set at three-times the summer limits.

It was agreed to during 2008 permit appeal settlement negotiations that any loading limits would be calculated using 0.300 MGD as the design flow. Mass limits are calculated as follows:

Summer average monthly mass limit: 1.0 mg/L x 0.300 MGD x 8.34 = 2.5 lbs/day
 Winter average monthly mass limit: 3.0 mg/L x 0.300 MGD x 8.34 = 7.5 lbs/day

Dissolved Oxygen (D.O.):

The D.O. goal is 6.0 mg/L. However, a minimum D.O. of 5.0 mg/L is required per 25 Pa. Code § 93.7. It is recommended that this limit be maintained in the proposed permit to ensure the protection of water quality standards. This approach is consistent with DEP's current Standard Operating Procedure (SOP) No. BPNPSM-PMT-033 and has been applied to other point source dischargers throughout the state.

Carbonaceous Biochemical Oxygen Demand (CBOD₅):

The attached computer printout of the WQM 7.0 stream model (ver. 1.1) indicates that the existing monthly average limit of 23.83 mg/L, or secondary treatment, is adequate to protect the water quality of the stream. However, per anti-back-sliding requirements, the existing monthly average limit of 10.0 mg/L more stringent and will remain in place. This limit, which was agreed to during settlement negotiations in 2008, was placed in the permit due to water quality concerns related to the existing impairment of Rock Creek. Mass limits are calculated as follows:

$$\text{Average monthly mass limit: } 10.0 \text{ mg/L} \times 0.300 \text{ MGD} \times 8.34 = 25.0 \text{ lbs/day}$$

Fecal Coliform:

The recent coliform guidance in 25 Pa. Code § 92a.47.(a)(4) requires a summer technology limit of 200/100 ml as a geometric mean and an instantaneous maximum not greater than 1,000/100ml and § 92a.47.(a)(5) requires a winter limit of 2,000/100ml as a geometric mean and an instantaneous maximum not greater than 10,000/100ml.

E. Coli:

As recommended by DEP's SOP no. BPNPSM-PMT-033, a routine monitoring for E. Coli will be included in the proposed permit under 25 Pa. Code § 92a.61. This requirement applies to all sewage dischargers greater than 0.002 MGD in their new and reissued permits. A monitoring frequency of 1/quarter will be included in the permit to be consistent with the recommendation from this SOP.

pH:

The effluent discharge pH should remain above 6.0 and below 9.0 standard units according to 25 Pa. Code § 95.2(1).

UV:

The UV system monitor and report the UV intensity (mW/cm²) will remain in the proposed permit.

Total Suspended Solids (TSS):

The existing limits of 10.0 mg/L average monthly and 20.0 mg/L instantaneous maximum, which were agreed to during settlement negotiations, will remain in the permit based on water quality concerns related to the existing impairment of Rock Creek. Mass limits are calculated as follows:

$$\text{Average monthly mass limit: } 10.0 \text{ mg/L} \times 0.300 \text{ MGD} \times 8.34 = 25.0 \text{ lbs/day}$$

Phosphorus:

The existing limits of 0.3 mg/L average monthly and 0.6 mg/L instantaneous maximum will remain in the proposed permit based on water quality concerns related to the existing impairment of Rock Creek. Mass limits are calculated as follows:

$$\text{Average monthly mass limit: } 0.3 \text{ mg/L} \times 0.300 \text{ MGD} \times 8.34 = 0.75 \text{ lbs/day}$$

Toxics:

A review of the application and inspection reports shows that there are no toxics of concern in the effluent. Therefore, no modeling is required.

Stormwater:

There is no stormwater outfall associated with this facility.

Chesapeake Bay Strategy:

The protection report addendum from 2008 indicates that, although the approved design flow is 0.270 MGD, during settlement of the permittee's appeal of the permit termination, it was agreed that the nutrient loading limits would be calculated using 0.300 MGD as the design flow. It was also agreed that the concentration limits used to calculate the loadings would be 6.0 mg/L total nitrogen and 0.3 mg/L total phosphorus (based on the determination that these levels would not add to the existing impairment in Rock Creek). The annual loading limitations were calculated as follows:

$$\begin{aligned} \text{Total Nitrogen: } & 0.300 \text{ MGD} \times 6.0 \text{ mg/L} \times 8.34 \times 365 \text{ days/year} = 5,479 \text{ lbs/year} \\ \text{Total Phosphorus: } & 0.300 \text{ MGD} \times 0.3 \text{ mg/L} \times 8.34 \times 365 \text{ days/year} = 274 \text{ lbs/year} \end{aligned}$$

This facility falls in Phase 4 of Pennsylvania's Chesapeake Bay Tributary Strategy Point Source Implementation Plan. Cap Loads were not assigned to this facility for the purposes the Chesapeake Bay Strategy since it was considered an existing facility at the time of plan implementation. However, per the COA that was issued on October 15, 2008, there are annual effluent limitations for both nitrogen and phosphorus that were applied due to the impairments for Rock Creek. The existing TN limit of 5,479 lbs/yr and TP limit of 274 lbs/yr will remain in the proposed permit.

**NPDES Permit Fact Sheet
Amblebrook WWTP**

NPDES Permit No. PA0247715

Additionally, in the Phase 3 WIP wastewater Supplement, revised on September 13, 2021, attachment C-Non-Significant discharges with cap loads in NPDES permits of this document shows that Amblebrook Gettysburg (The York Water Co.) has been allocated 5,479 lbs/year of TN and 274 lbs/year of TP (*the fact sheet, page 12*).

Antidegradation (93.4):

The 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. No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

303(d) Listed Streams:

This discharge is not located on a 303(d) listed stream segment. However, 1.56 river miles downstream, Rock Creek is currently impaired for nutrients due to agriculture and a municipal point source. A TMDL has not yet been developed.

Class A Wild Trout Fisheries:

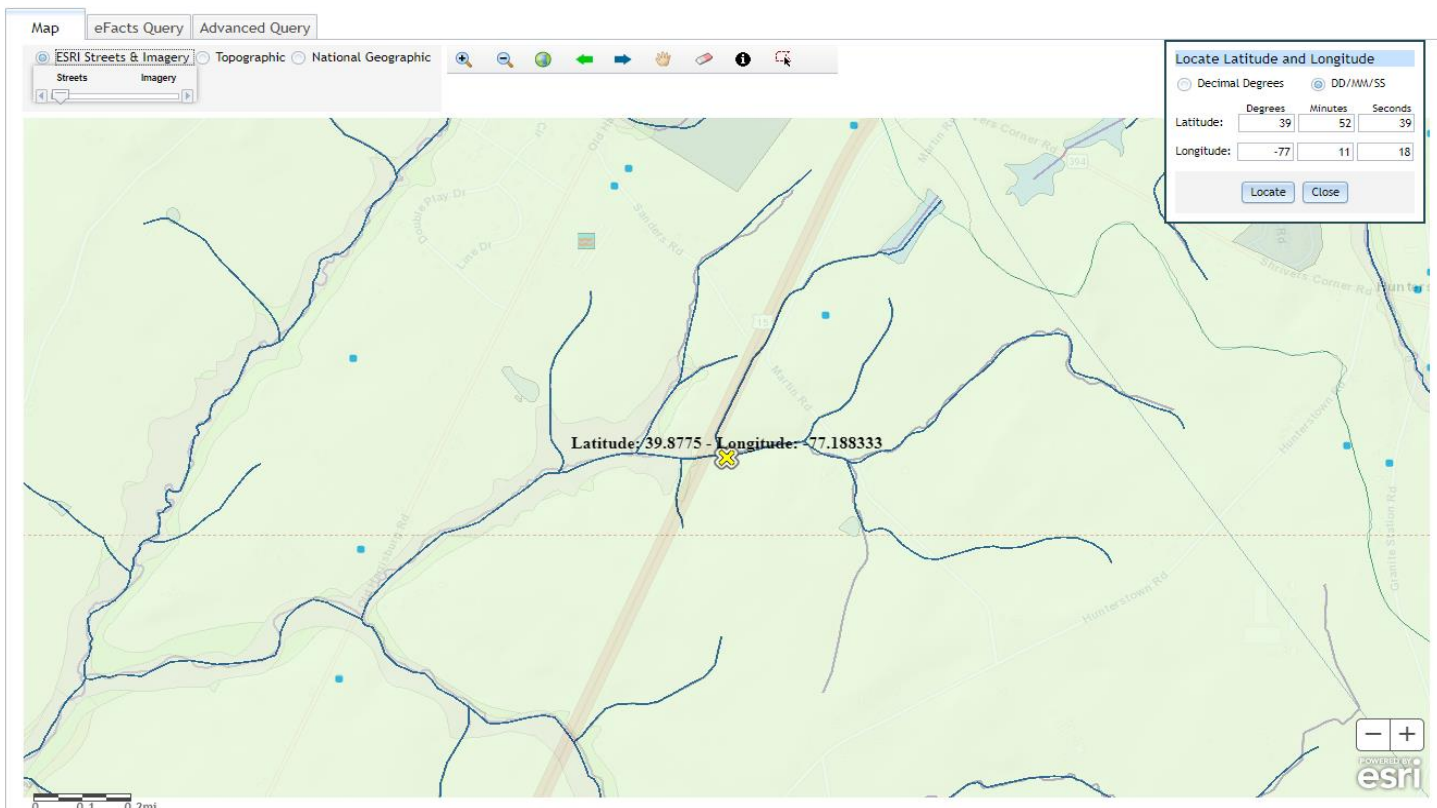
No Class A Wild Trout Fisheries are impacted by this discharge.

WQM 7.0 model input data:

D.O. Goal = 5.0 mg/L

Node 1: Outfall 001 on UNT Rock Creek (59207)
Elevation: 515 ft (USGS National Map Viewer)
Drainage Area: 0.83 mi.² (USGS PA StreamStats)
River Mile Index: 0.88 (PA DEP eMapPA)
Low Flow Yield: 0.029 cfs/mi²
Discharge Flow: 0.270 MGD

Node 2: Just before confluence of UNT 59207 with UNT 59195
Elevation: 495 ft (USGS National Map Viewer)
Drainage Area: 1.61 mi.² (USGS PA StreamStats)
River Mile Index: 0.001 (PA DEP eMapPA)
Low Flow Yield: 0.029 cfs/mi²
Discharge Flow: 0.0 MGD



USGS StreamStats

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IDENTIFY A STUDY AREA
Basin Delineated

SELECT SCENARIOS

BUILD A REPORT Report Built

Step 1: You can modify computed basin characteristics here, then select the types of reports you wish to generate. Then click the 'Build Report' button

Show Basin Characteristics

Select available reports to display:

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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.83	square miles
PRECIP	Mean Annual Precipitation	41	inches
STRDEN	Stream Density -- total length of streams divided by drainage area	2.1	miles per square mile
ROCKDEP	Depth to rock	4	feet
CARBON	Percentage of area of carbonate rock	0	percent

Low-Flow Statistics Parameters [99.8 Percent (0.83 square miles) Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.83	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	41	inches	35	50.4
STRDEN	Stream Density	2.1	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Disclaimers [99.8 Percent (0.83 square miles) Low Flow Region 2]

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

Low-Flow Statistics Flow Report [99.8 Percent (0.83 square miles) Low Flow Region 2]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0453	ft ³ /s
30 Day 2 Year Low Flow	0.0687	ft ³ /s
7 Day 10 Year Low Flow	0.0151	ft ³ /s
30 Day 10 Year Low Flow	0.0234	ft ³ /s
90 Day 10 Year Low Flow	0.0439	ft ³ /s

Low-Flow Statistics Citations

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USGS StreamStats

SELECT A STATE / REGION
Pennsylvania

IDENTIFY A STUDY AREA
Basin Delineated

SELECT SCENARIOS

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Step 1: You can modify computed basin characteristics here, then select the types of reports you wish to generate. Then click the 'Build Report' button

Show Basin Characteristics

Select available reports to display:

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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	5.1	square miles
PRECIP	Mean Annual Precipitation	41	inches
STRDEN	Stream Density -- total length of streams divided by drainage area	2.37	miles per square mile
ROCKDEP	Depth to rock	4.4	feet
CARBON	Percentage of area of carbonate rock	0	percent

Low-Flow Statistics Parameters [99.9 Percent (5.1 square miles) Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.1	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	41	inches	35	50.4
STRDEN	Stream Density	2.37	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4.4	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Flow Report [99.9 Percent (5.1 square miles) Low Flow Region 2]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	0.358	ft ³ /s	38	38
30 Day 2 Year Low Flow	0.509	ft ³ /s	33	33
7 Day 10 Year Low Flow	0.149	ft ³ /s	51	51
30 Day 10 Year Low Flow	0.211	ft ³ /s	46	46
90 Day 10 Year Low Flow	0.351	ft ³ /s	36	36

Report About Help

Layers

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- PA Map Layers

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	1.61	square miles
PRECIP	Mean Annual Precipitation	41	inches
STRDEN	Stream Density -- total length of streams divided by drainage area	2.13	miles per square mile
ROCKDEP	Depth to rock	4	feet
CARBON	Percentage of area of carbonate rock	0	percent

Low-Flow Statistics Parameters [99.9 Percent (1.61 square miles) Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.61	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	41	inches	35	50.4
STRDEN	Stream Density	2.13	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Disclaimers [99.9 Percent (1.61 square miles) Low Flow Region 2]

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

Low-Flow Statistics Flow Report [99.9 Percent (1.61 square miles) Low Flow Region 2]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0929	ft ³ /s
30 Day 2 Year Low Flow	0.139	ft ³ /s
7 Day 10 Year Low Flow	0.0322	ft ³ /s
30 Day 10 Year Low Flow	0.0492	ft ³ /s
90 Day 10 Year Low Flow	0.0907	ft ³ /s

Analysis Results WQM 7.0

Hydrodynamics | **NH3-N Allocations** | D.O. Allocations | D.O. Simulation | Effluent Limitations

RMI	Discharge Name	Permit Number	Disc Flow (mgd)
0.88	The York Water	PA0247715	0.2700

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	23.53		
NH3-N	1.47	2.94	
Dissolved Oxygen			6

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rptEffLimits

WQM 7.0 Effluent Limits

WQP Basin	Stream Code	Stream Name
13D	69207	Trib 69207 of Rook Creek

RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Eff. Limit 30-day Avg. (mg/L)	Eff. Limit Maximum (mg/L)	Eff. Limit Minimum (mg/L)
0.880	The York Water	PA0247715	0.270	CBOD5	23.53		
				NH3-N	1.47	2.94	
				Dissolved Oxygen			6

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rpt_WLA

WQM 7.0 Wasteload Allocations

WQP Basin	Stream Code	Stream Name
13D	69207	Trib 69207 of Rook 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
0.880	The York Water	11.07	11.48	11.07	11.48	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
0.880	The York Water	1.37	1.47	1.37	1.47	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	CBOD5		NH3-N		Dissolved Oxygen		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
0.880	The York Water	23.53	23.53	1.47	1.47	6	6	0	0

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rptDOSim

WQM 7.0 D.O. Simulation

WQP Basin	Stream Code	Stream Name
13D	69207	Trib 69207 of Rook Creek

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
0.880	0.270	20.000	7.000
Reach Width (ft)	Reach Depth (ft)	Reach V/C Ratio	Reach Velocity (ft/s)
7.132	0.459	15.757	0.137
Reach CBOD5 (mg/L)	Reach Ws (ft/day)	Reach NH3-N (mg/L)	Reach Ws (ft/day)
22.36	1.602	1.39	1.025
Reach DO (mg/L)	Reach Kr (ft/day)	Kr Equation	Reach DO Goal (mg/L)
6.122	27.925	Owens	6
Reach Travel Time (days)	Subreach Results		
0.393	Travel Time (days)	CBOD5 (mg/L)	NH3-N (mg/L)
			D.O. (mg/L)
	0.039	20.86	1.34
	0.079	19.46	1.29
	0.118	18.16	1.26
	0.157	16.95	1.19
	0.196	15.81	1.14
	0.236	14.76	1.09
	0.275	13.77	1.05
	0.314	12.85	1.01
	0.353	11.99	0.97
	0.393	11.19	0.95

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rptModelSpecs

WQM 7.0 Modeling Specifications

Parameters	Val	Use Inherited Q1-10 and Q30-10 Flows
WLA Method	EMPR	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inherited W/D Ratio <input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Use Inherited Reach Travel Times <input type="checkbox"/>
D.O. Saturation	90.00%	Temperature Adjust Kr <input checked="" type="checkbox"/>
D.O. Goal	6	Use Balanced Technology <input checked="" type="checkbox"/>

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rptHydro

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name										
13D	59207	Trib 59207 of Rock Creek										
RM	Stream Flow (cfs)	PWS Flow (cfs)	Rel. Flow (cfs)	Disc. Flow (cfs)	Reach Slope (ft)	Depth (ft)	Width (ft)	WD Ratio	Velocity (ft/s)	Reach Time (days)	Analysis Temp (°C)	Analysis pH
Q7-10 Flow	0.00	0.00	0.00	0.00	4177.00431	NA	NA	NA	0.14	0.367	25.00	7.00
Q1-10 Flow	0.00	0.00	0.00	0.00	4177.00431	NA	NA	NA	0.14	0.367	25.00	7.00
Q30-10 Flow	0.00	0.00	0.00	0.00	4177.00431	NA	NA	NA	0.14	0.368	25.00	7.00

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rptGeneral

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RM	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
13D	59207	Trib 59207 of Rock Creek	0.000	515.00	0.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trsv Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Trib Temp (°C)	Stream Temp (°C)	pH
Q7-10	0.029	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	0.00
Q1-10	0.00	0.00	0.00	0.000	0.000						
Q30-10	0.00	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
The York Water	PA0247715	0.2700	0.2700	0.2700	0.000	25.00	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	5.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

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rptGeneral

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RM	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
13D	59207	Trib 59207 of Rock Creek	0.001	495.00	1.61	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trsv Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Trib Temp (°C)	Stream Temp (°C)	pH
Q7-10	0.029	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	0.00
Q1-10	0.00	0.00	0.00	0.000	0.000						
Q30-10	0.00	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
The York Water	PA0247715	0.0000	0.0000	0.0000	0.000	25.00	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	5.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

Friday, May 27, 2022 Version 1.1 Page 2 of 2

**NPDES Permit Fact Sheet
Amblebrook WWTP**

NPDES Permit No. PA0247715

Phase 3 WIP Wastewater Supplement
Revised, September 13, 2021

NPDES Permit No.	Facility	Latest Permit Issuance Date	Permit Expiration Date	Cap Load Compliance Start Date	TN Cap Load (lbs/yr)	TP Cap Load (lbs/yr)	TN Delivery Ratio	TP Delivery Ratio
PA0234028	WETLAND EXT PROJ	5/22/2019	5/31/2024	10/1/2013	0	0	0.930	0.438
PA0247715	AMBLEBROOK GETTYSBURG	11/19/2020	5/31/2022	01/01/2009	5479	274	0.951	0.438
PA0248029	HUSTONTOWN STP	7/16/2020	7/31/2025	2/1/2013	682	85	0.749	0.670
PA0248081	JEFFERSON CODORUS STP	9/21/2020	9/30/2025	10/1/2013	6,624	828	0.951	0.438
PA0260738	NITTERHOUSE CONCRETE PRECAST PLT	11/22/2017	11/30/2022	10/1/2017	0	0	0.683	0.670
PA0261131	TAMARACK MHP	3/1/2019	2/29/2024	10/1/2008	1,260	0	0.683	0.670
PA0261343	JOSHUA HILL STP	7/21/2015	7/31/2020	8/1/2015	0	0	0.700	0.438
PA0261378	SHEETZ CLARKS FERRY	11/22/2016	11/30/2021	10/1/2013	38	3.8	0.961	0.438
PA0261416	READING TWP LAUCHMANS BOTTOM STP	1/12/2018	1/31/2023	12/1/2011	0	0	0.951	0.438
PA0261572	MT HOPE NAZARENE RETIREMENT COMM	1/23/2020	1/31/2025	10/1/2011	605	0	0.897	0.438
PA0261645	HERITAGE HOUSE WHITE SULPHUR SPRINGS	11/17/2017	11/30/2022	10/1/2011	380	0	0.627	0.670
PA0261661	COMFORT INN WASTEWATER	3/26/2020	3/31/2025	10/1/2012	181	0	0.961	0.438
PA0261718	WINTER GREENES HOMEOWNERS ASSOCIATION	10/26/2018	10/31/2023	7/1/2012	0	0	0.683	0.670
PA0262072	KNOUSE FOODS PEACH GLEN FRUIT PROC FAC	4/20/2016	4/30/2021	5/1/2016	0	0	0.961	0.438
PA0262137	LOG CABIN MHP STP	9/15/2015	9/30/2020	10/1/2015	0	0	0.891	0.438
PA0263711	BENEZETTE WWTP	4/17/2018	4/30/2023	10/1/2012	0	0	0.871	0.438
PA0266086	SPRING GROVE STP	9/23/2015	9/30/2020	10/1/2015	7,306	974	0.961	0.438
PA0266663	GETTYSBURG BATTLEFIELD RESORT STP	6/21/2018	6/30/2023	10/1/2018	0	0	0.627	0.670
PA0276073	LAKE CAREY WWTP	7/19/2018	7/31/2023	10/1/2018	0	0	0.733	0.438
PA0247910	BETHEL TOWNSHIP FRYSTOWN STP	5/24/2021	7/31/2024	6/1/2021	8,045	188	0.961	0.438

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RE: [External] Amblebrook WWTP: NPDES PA0247715 A-2; WQM 0117401 T-2

From: Mark Snyder <marks@yorkwater.com>
To: Bebenek, Maria; Martin, Daniel; Le, Hilary

Reply Reply All Forward

Wed 5/4/2022 12:45 PM

Good morning,

Mixed liquor was delivered to the Amblebrook WWTP on May 2nd and placed into the anoxic and aerobic tanks of one treatment train. Influent wastewater was then directed to the treatment train.

Treated effluent began discharging from the facility today.

Thanks, Mark

Mark S. Snyder, P.E.
Vice President – Engineering
The York Water Company
130 E. Market St.
York, PA 17401

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NASDAQ: YORW



**NPDES Permit Fact Sheet
Amblebrook WWTP**

NPDES Permit No. PA0247715

From: Mark Snyder
Sent: Wednesday, April 20, 2022 2:32 PM
To: Bebenek, Maria <mbebenek@pa.gov>; Martin, Daniel <daniemarti@pa.gov>; hle@pa.gov
Subject: RE: [External] Amblebrook WWTP: NPDES PA0247715 A-2; WQM 0117401 T-2

Good Afternoon,

Attached is a completed WQM Post Construction Certification form for the first phase of the Amblebrook Wastewater Treatment Plant. Photos of the facility are also attached.

The contractor is currently testing equipment, including the electrical, controls, & monitoring system components.

We are still tentatively scheduled to receive mixed liquor next week to begin the start-up process.

Due to production delays, the emergency generator will not be shipped until July. Until then, we have access to a portable generator if needed during an extended power outage. If warranted, we could also have wastewater hauled off-site, as has been done during the current pump-and-haul operation.

Thanks again, Mark

Mark S. Snyder, P.E.
Vice President – Engineering
The York Water Company
130 E. Market St.
York, PA 17401

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NASDAQ: YORW

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	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/day	Grab
D.O.	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
UV Intensity (mW/cm ²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Recorded
CBOD ₅	25	XXX	XXX	10.0	XXX	20.0	1/week	8-Hr Composite
TSS	25	XXX	XXX	10.0	XXX	20.0	1/week	8-Hr Composite
Fecal Coliform (CFU/100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	1/week	Grab
Fecal Coliform (CFU/100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	1/week	Grab
Ammonia May 1 - Oct 31	2.5	XXX	XXX	1.0	XXX	2.0	2/week	8-Hr Composite
Ammonia Nov 1 - Apr 30	7.5	XXX	XXX	3.0	XXX	6.0	2/week	8-Hr Composite
Total Phosphorus	0.75	XXX	XXX	0.3	XXX	0.6	2/week	8-Hr Composite

Existing Effluent Limitations and Monitoring Requirements

Chesapeake Bay Requirements

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		
Ammonia--N	Report	Report	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Kjeldahl—N	Report	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Total Nitrogen	Report	Report	XXX	Report	XXX	XXX	1/month	Calculation
Total Phosphorus	Report	Report	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Net Total Nitrogen	Report	5,479	XXX	XXX	XXX	XXX	1/month	Calculation
Net Total Phosphorus	Report	274	XXX	XXX	XXX	XXX	1/month	Calculation

Proposed Effluent Limitations and Monitoring Requirements
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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		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/day	Grab
D.O.	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
UV Intensity (mW/cm ²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Recorded
CBOD ₅	25	XXX	XXX	10.0	XXX	20.0	1/week	8-Hr Composite
TSS	25	XXX	XXX	10.0	XXX	20.0	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	1/week	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Ammonia May 1 - Oct 31	2.5	XXX	XXX	1.0	XXX	2.0	2/week	8-Hr Composite
Ammonia Nov 1 - Apr 30	7.5	XXX	XXX	3.0	XXX	6.0	2/week	8-Hr Composite
Total Phosphorus	0.75	XXX	XXX	0.3	XXX	0.6	2/week	8-Hr Composite

Compliance Sampling Location:

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements
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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 Chesapeake Bay requirements, 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		
Ammonia--N	Report	Report	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Kjeldahl—N	Report	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Total Nitrogen	Report	Report	XXX	Report	XXX	XXX	1/month	Calculation
Total Phosphorus	Report	Report	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Net Total Nitrogen	Report	5,479	XXX	XXX	XXX	XXX	1/month	Calculation
Net Total Phosphorus	Report	274	XXX	XXX	XXX	XXX	1/month	Calculation

Compliance Sampling Location:

Other Comments:

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 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input checked="" type="checkbox"/>	SOP: BCW-PMT-033
<input type="checkbox"/>	Other: [redacted]