

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0080284  
 APS ID 598257  
 Authorization ID 1432844

**Applicant and Facility Information**

Applicant Name	<u>New Oxford MHC, LLC</u>	Facility Name	<u>New Oxford Mobile Home Village</u>
Applicant Address	<u>524 Meadow Avenue Loop</u> <u>Banner Elk, NC 28604</u>	Facility Address	<u>510 Dauberton Drive</u> <u>New Oxford, PA 17350-9073</u>
Applicant Contact	<u>Matthew Raynor</u>	Facility Contact	<u>Fred Walton</u>
Applicant Phone	<u>(919) 270-4831</u>	Facility Phone	<u>(484) 643-0024</u>
Client ID	<u>250421</u>	Site ID	<u>249461</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Mount Pleasant Township</u>
Connection Status		County	<u>Adams</u>
Date Application Received	<u>March 21, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 29, 2023</u>	If No, Reason	
Purpose of Application	<u>NPDES permit renewal</u>		

**Summary of Review**

New Oxford MHC, LLC (Permittee) applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its National Pollutant Discharge Elimination System (NPDES) permit for New Oxford MHC WWTP. This permit renewal application was received on March 21, 2023. The permit was last reissued on September 24, 2018, authorizing discharge of treated sewage from the existing treatment plant located in Mount Pleasant Borough, Adams County into UNT to South Branch Conewago Creek in watershed 7-F. The permit expires on September 30, 2023.

The average annual design flow and hydraulic design capacity is 0.01885 MGD and the organic loading capacity is 38.0 lbs BOD<sub>5</sub>/day. The renewal application indicated the STP receives its 100% from the New Oxford MHC.

The WQM Part II permit No. 0100408 original was issued on 4/13/2001, 0100408 T-1 ownership transfer was issued on 11/17/2006.

Sludge use and disposal description and location(s): N/A because sludge hauling.

Changes from the previous permit: 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	August 11, 2023
X		<i>Maria D. Bebenek for</i> Daniel W. Martin, P.E. / Environmental Engineer Manager	September 19, 2023

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.01885
Latitude	39° 51' 46.80"	Longitude	-77° 5' 14.11"
Quad Name	McSherrystown	Quad Code	2029
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to South Branch Conewago Creek (WWF)	Stream Code	08827
NHD Com ID	57473655	RMI	1.0
Drainage Area	0.05 mi. <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	See comments below
Q <sub>7-10</sub> Flow (cfs)	See comments below	Q <sub>7-10</sub> Basis	See comments below
Elevation (ft)	554.3 at POFU	Slope (ft/ft)	
Watershed No.	7-F	Chapter 93 Class.	WWF
Existing Use	none	Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s): Aquatic Life and Fish Consumption Non-attaining use Recreational		
Cause(s) of Impairment	Pathogen		
Source(s) of Impairment	Unknown		
TMDL Status	None proposed	Name	
Nearest Downstream Public Water Supply Intake	Wrightsville Boro Water System York County		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	
PWS RMI	28.51 miles	Distance from Outfall (mi)	Approximate 67.44 miles

Changes Since Last Permit Issuance:

**Drainage Area**

The discharge is to UNT to South Branch Conewago Creek at RMI 1.0 miles. A drainage area upstream of the discharge is estimated to be 0.05 mi.<sup>2</sup>, according to USGS PA StreamStats available at <https://streamstats.usgs.gov/ss/>.

**Streamflow**

The nearest USGS Streamgage is 01574000 in Manchester, PA which is approximately 51.5 miles downstream of the discharge point hence is not representative. Moreover, stream flow data collected from USGS StreamStats indicated some parameters are outside of the recommended range for regression analysis to calculate low flows. The drainage area was found to be 512 mi<sup>2</sup> at the gage, Q<sub>7-10</sub>, and Q<sub>30-10</sub> values at this gage are 39.2 cfs, and 52.0 cfs. In absence of both Streamgage and StreamStats data, the calculations from previous fact sheet was used. Previous fact sheet indicated the low flow yield for the whole Conewago Creek watershed is 0.077 cfs/mi<sup>2</sup>. The drainage area at the Point of First Use (POFU) was found to be 0.05 mi<sup>2</sup>. The default Q<sub>1-10</sub>: Q<sub>7-10</sub> and Q<sub>30-10</sub>: Q<sub>7-10</sub> are 0.64 and 1.36, respectively, per 391-2000-007.

$$\begin{aligned} \text{Yield} &= 39.2 \text{ cfs}/512 \text{ mi}^2 = 0.077 \text{ cfs}/\text{mi}^2 \\ \text{Q}_{7-10} &= 0.077 \text{ cfs}/\text{mi}^2 * 0.05 \text{ mi}^2 = 0.00385 \text{ cfs} \\ \text{Q}_{30-10} &= 0.00385 \text{ cfs} * 1.36 = 0.0052 \text{ cfs} \\ \text{Q}_{1-10} &= 0.00385 \text{ cfs} * 0.64 = 0.0025 \text{ cfs} \end{aligned}$$

**303d Listed Streams:**

The discharge from this facility is in UNT to South Branch Conewago Creek at 1.0 RMI which is attaining its designated uses of Fish Consumption and Aquatic Life but impaired for Recreation use due to pathogens from unknown source. The discharge from this facility is expected not to contribute to the existing impairment.

**Public Water Supply**

The nearest downstream public water supply intake is for Wrightsville Boro Water Systems in York County on Susquehanna River, approximately 67.44 miles downstream of this discharge. Considering distance and dilution, the discharge is not expected to impact the water supply.

Treatment Facility Summary				
<b>Treatment Facility Name:</b> New Oxford MHC, LLC				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
0100408 T-1		11/17/2006		
0100408		4/13/2001		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Tertiary	Extended Aeration With Solids Removal	Hypochlorite	0.01885
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.01885	38	Not Overloaded	Aerobic Digestion	Other WWTP

Changes Since Last Permit Issuance:

Other Comments:

The receiving stream is dry at discharge point. A Point of First Use (POFU) survey was conducted in March 15, 1995 which identified the POFU was approximately 300 m downstream of the then proposed discharge point. Effluent limits will be developed per dry stream guidance (391-2000-014).

The treatment facility consists of the following units:

- One grease trap
- One bar screen
- Two EQ tanks
- Three aeration tanks
- One chlorine contact tank
- One dechlorination
- One dosing tank
- Two sand beds
- One sludge holding tank

Chemical used:

Soda ash is used for pH control at 25 lbs/day. Sodium Hypochlorite is used for disinfection at 4 gpd. Sodium Bisulfite is used for chlorine removal at 4 gpd.

Biosolids:

Liquid sludge is hauled off from site.

Industrial/Commercial Users:

There is no industrial or commercial contributor to the treatment plant.

<b>Compliance History</b>	
<b>Summary of DMRs:</b>	A summary of past 12-month DMRs is presented on pages 5 & 6.
<b>Summary of Inspections:</b>	<p><b>8/02/22:</b> Mr. Hoy, DEP Environmental Trainee, conducted a compliance evaluation inspection. There were violations noted during inspection. The field test results were within permit limits. Recommendations were to replace deteriorating tank grates and increase frequency of weeding and raking of the sand beds.</p> <p><b>12/3/2020:</b> Mr. Bettinger, DEP Environmental Trainee, conducted an administrative inspection to follow up on a previous Notice of Violation. There were no violations noted during inspection.</p>
<b>Other Comments:</b>	<p>There were two violations against the permittee or applicant.</p> <ul style="list-style-type: none"> <li>- 8/2/2022- NPDES-Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance, and failure to collect representative samples.</li> </ul>

Other Comments:

Compliance History

DMR Data for Outfall 001 (from July 1, 2022 to June 30, 2023)

Parameter	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22
Flow (MGD) Average Monthly	0.0080	0.0114	0.0100	0.0095	0.0095	0.0107	0.0130	0.0100	0.0129	0.0084	0.0085	0.0070
Flow (MGD) Daily Maximum	0.0114	0.0354	0.0232	0.0167	0.0129	0.0155	0.0385	0.0155	0.0595	0.0345	0.0284	0.0098
pH (S.U.) Daily Minimum	7.91	7.38	7.68	7.31	7.43	7.43	6.45	7.52	7.33	7.87	7.75	8.00
pH (S.U.) Daily Maximum	8.33	8.28	8.25	8.13	8.14	7.98	8.10	8.21	8.21	8.24	8.41	8.56
DO (mg/L) Daily Minimum	8.1	8.9	9.5	5.9	10.5	10.4	6.8	8.9	7.3	7.3	7.9	7.7
TRC (mg/L) Average Monthly	0.006	0.006	0.010	0.010	0.007	0.004	0.009	0.006	0.012	0.005	0.005	0.008
TRC (mg/L) IMAX	0.050	0.020	0.050	0.060	0.040	0.040	0.050	0.040	0.050	0.050	0.030	0.040
CBOD5 (mg/L) Average Monthly	3.5	5.1	< 2.9	7.4	< 4.70	< 2.4	< 2.9	< 2.4	< 2.6	< 2.40	< 5.2	< 2.4
TSS (mg/L) Average Monthly	9.0	< 6.50	9.5	3.5	4.5	4.0	4.5	6.0	12.5	3.0	1.5	1.5
Fecal Coliform (No./100 ml) Geometric Mean	58	13	7	26	< 4	8	< 2	3	< 49	54	24	7
Fecal Coliform (No./100 ml) IMAX	308	34.5	18	110	16	30	3	5	> 2420	> 2420	579	54
Nitrate-Nitrite (mg/L) Average Quarterly	< 15.40			< 46.40			< 43.40			< 5.60		
Nitrate-Nitrite (lbs) Total Quarterly	< 69.16			< 316.8			< 293			< 31.28		
Total Nitrogen (mg/L) Average Quarterly	< 15.90			< 46.90			< 43.90			< 0.37		
Total Nitrogen (lbs) Total Quarterly	< 71.89			< 320.4			< 297			< 34.04		
Total Nitrogen (lbs) Total Annual										< 379		
Ammonia (mg/L) Average Monthly	< 0.11	< 0.24	< 0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Ammonia (mg/L) Average Quarterly	< 0.16			< 0.10			< 0.10			< 0.10		

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Ammonia (lbs) Total Quarterly	< 1.33			< 6.12			< 0.74			< 0.92		
Ammonia (lbs) Total Annual										< 5		
TKN (mg/L) Average Quarterly	< 0.50			< 0.50			< 0.50			< 0.50		
TKN (lbs) Total Quarterly	< 2.28			< 3.6			< 3.68			< 10.12		
Total Phosphorus (mg/L) Average Quarterly	4.20			3.20			2.30			0.45		
Total Phosphorus (lbs) Total Quarterly	13.65			21.6			15.64			2.74		
Total Phosphorus (lbs) Total Annual										66		

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>0.01885</u>
<b>Latitude</b> <u>39° 51' 46.80"</u>	<b>Longitude</b> <u>-77° 5' 14.11"</u>
<b>Wastewater Description:</b> <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 <sub>5</sub>	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:** DEP’s guidance document titled “Implementation Guidance for Evaluating Wastewater Discharges to Drainage Ditches and Swales” or Dry Stream guidance, document ID 391-2000-014 will be used along with TBEL, WQBEL, and BPJ to develop effluent limits.

**Dry Stream Guidance Limitations:**

Dry stream guidance (391-2000-014, Final April 12, 2008, page 6) indicates advanced treatment is required “For discharges to intermittent and ephemeral streams, drainage channels and swales, and storm sewers, a high degree of treatment is required to compensate for the lack of available assimilative capacity and to minimize the potential for nuisance conditions. Effluent limits will be determined by the regional permit engineer on a case-by-case basis, but for discharges of treated sewage and similar oxygen-consuming wastes, effluent limits should include and be at least as stringent as these, or equivalent:

*CBOD<sub>5</sub> – 10 mg/L as monthly average;  
TSS – 10 mg/L as monthly average;  
Total N – 5 mg/L as a monthly average;  
Dissolved oxygen – minimum 6 mg/L at all times;  
Phosphorus – 0.5 mg/L as a monthly average”*

However, the guidance postdates the issuance of the original NPDES permit for this facility. The existing permit doesn’t contain limits for TN and Phosphorous. Section I of the 2008 guidance states that the policy is for new or expanded discharges. Since this is not new or expanding the existing limits developed according to Section IV of the 1997 guidance. These limits are as follows:

*CBOD<sub>5</sub> and TSS - 10 mg/L as a monthly average;  
20 mg/L as IMAX  
NH<sub>3</sub>-N - 3 mg/L as a monthly average;  
Dissolved oxygen – 3 mg/L or greater, monthly average  
Bacteria – 200/100 ml summertime; 2000/100 ml wintertime*

These values will be compared to TBELS, WQBELS, and BPJ, and most stringent limitations will be applied in the permit.

**NH<sub>3</sub>-N:**

The attached WQM 7.0 modeling (version 1.1) suggested NH<sub>3</sub>-N limit of 1.69 mg/L as monthly average and 3.38 mg/L as instantaneous maximum limit is necessary to protect the water quality of the stream. However, the existing NH<sub>3</sub>-N limit of 1.5 mg/L as monthly average and 3.0 mg/L as instantaneous maximum limit during summer are more stringent and will remain in the proposed permit. The winter season limits are calculated by multiplying summer limits by a factor of 3, and average monthly and IMAX limits are 4.5 mg/L and 9.0 mg/L, respectively. The summer limits are more stringent compared to applicable 1997 dry stream guidance. Minimum monitoring frequency will remain 2/month per 362-0400-001 Chapter 6 Page 10.

**CBOD<sub>5</sub>:**

The attached WQM 7.0 modeling (version 1.1) indicates that a monthly average limit of 25.0 mg/L, or secondary treatment, is adequate to protect the water quality of the stream. However, the existing summer limit of 10 mg/L AML is more stringent and will remain in the proposed permit. Dry stream limits are the same as WQM suggested limit. A multiplication factor of 2 will be used to calculate Instantaneous Maximum (IMAX) value. Winter limits Minimum monitoring frequency will be 2/month.

**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. BCW-PMT-033, version 1.9 revised March 22, 2021, and has been applied to other point source dischargers throughout the state.

**pH:**

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

**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. BCW-PMT-033, version 1.9 revised March 22, 2021, 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/year will be included in the permit to be consistent with the recommendation from this SOP.

**Total Residual Chlorine (TRC):**

Based on the attached TRC Excel Spreadsheet calculator, which uses the equations and calculations from the Department's May 1, 2003 Implementation Guidance for Total Residual Chlorine (ID No. 391-2000-015), the facility's discharge must meet a monthly average limit of 0.028 mg/L and an instantaneous maximum limit of 0.092 mg/L for a design flow of 0.01885 MGD. The existing limit of 0.027 mg/L AML & 0.089 mg/L IMAX are more stringent and will remain in the proposed permit. Minimum monitoring frequency will be 1/day. These limits are the same as are in existing permit.

**Toxics:**

Minor sewage facilities with a design flow less than 0.1 MGD are not required to submit toxic data in application form. Due to the lack of data, toxics monitoring or limit requirement could not be evaluated.

**Total Suspended Solids (TSS):**

There is no water quality criterion for TSS. The limits of 10 mg/L average monthly and 20 mg/L instantaneous maximum will be placed in the permit based on dry stream guidance as indicated in page 8 of this report. Minimum monitoring frequency remain 2/month.

**Stormwater:**

There is no known stormwater outfall associated with this facility.

**WETT:**

Minor facilities and facilities without a formal EPA approved pretreatment program are exempted from WETT.



The facility is not required to report TDS since reporting TDS is not mandatory for flow less than 0.1 MGD

**Total Phosphorus (local):**

Phosphorus limitations are based on the Department's Implementation Guidance for Section 96.5 Phosphorus Discharges to Free flowing Streams, dated 10/27/97 (ID No. 391-2000-018). Total phosphorus loading from this discharge would be  $8.34 \times 10 \text{ mg/L} \times 0.01885 \text{ MGD}$  or 1.57 lbs/day. Using the equation that was documented in EPA's Chesapeake Bay Management Report,  $\text{Total P @ Y} = \text{Total P} \times 0.99^Y$ , where Y = stream miles to PA-MD line, the actual loading to the critical part of the Susquehanna River would be 0.599 lbs/day at an estimated distance of 95.95 miles. This loading represents  $0.599 \text{ lbs/day} \div 3,814 \text{ lbs/day}$  or 0.016% of the total phosphorus loading of all discharges in the Lower Susquehanna River Basin. According to the above phosphorus guidance, phosphorus removal will be required if this percentage is > 0.25%. Therefore, since 0.016% is < 0.25%, phosphorus limitations will not be required.

**Chesapeake Bay Strategy:**

According to DEP's Chesapeake Bay Phase II Watershed Implementation Plan (WIP) Wastewater Supplement, this facility is considered a phase 5 non-significant sewage discharger with design flow less than 0.2 MGD but greater than 0.002 MGD. In general, DEP will issue permits for all phase 5 facilities with monitoring and reporting for Total Nitrogen (TN) and Total Phosphorus (TP) throughout the permit term at a frequency no less than annually. Furthermore, DEP's SOP No. BPNPSM-PMT-033 states that in general, at a minimum, monitoring for TN and TP should be included in new and reissued permits for sewage discharges with design flows > 2,000 gpd. At this time, the Department is not requiring a total maximum annual nitrogen or phosphorus loading cap. Ammonia-Nitrogen, Nitrate-Nitrite as N, Total Kjeldahl Nitrogen, TN, and TP monitoring is already included in the existing permit and will remain in the proposed renewal.

The quarterly "Monitor & Report" requirements for Ammonia-Nitrogen, Nitrate-Nitrite as N, and Total Kjeldahl Nitrogen; and annual calculation "Monitor & Report" for Ammonia-Nitrogen, TN, & TP will remain in the proposed permit.

**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.

**Anti-Backsliding:**

The proposed limits will be as stringent as existing limits; therefore, anti-backsliding is not applied in this permit term.

**Class A Wild Trout Fisheries:**

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

**303(d) Listed Streams:**

The discharge from this facility is to a stream segment that is attaining its designated use(s).

**WQM 7.0:**

The following data were used in the attached computer model (WQM 7.0) of the stream:

- Discharge pH 7.0 (Default)
- Discharge Temperature 25°C (Default per 391-2000-013)
- Stream pH 7.0 (Default per 391-2000-013)
- Stream Temperature 20°C (Default per 391-2000-013)

The following two nodes were used in modeling:

Node 1: At POFU Unnamed Tributary to South Branch Conewago Creek (08827)  
Elevation: 554.3 ft. (USGS)  
Drainage Area: 0.05 mi<sup>2</sup> (USGS StreamStats)  
River Mile Index: 1.000  
Low Flow Yield: 0.077 cfs/mi<sup>2</sup>  
Discharge Flow: 0.01885 MGD

Node 2: At the confluence with S. Branch Conewago Creek (08813)  
Elevation: 451.2 ft. (USGS)  
Drainage Area: 0.4 mi<sup>2</sup> (USGS StreamStats)  
River Mile Index: 0.001  
Low Flow Yield: 0.077 cfs/mi<sup>2</sup>  
Discharge Flow: 0.00 MGD

**USGS StreamStats**

SELECT A STATE / REGION  
Pennsylvania

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:

- Basin Characteristics Report
- Scenario Flow Reports

Open Report

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**Basin Characteristics**

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	0.9024	degrees
DRNAREA	Area that drains to a point on a stream	0.0503	square miles
ROCKDEP	Depth to rock	4	feet
URBAN	Percentage of basin with urban development	34.2287	percent

**Low-Flow Statistics**

Low-Flow Statistics Parameters [Low Flow Region 1]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0503	square miles	4.78	1150
BSLOPD	Mean Basin Slope degrees	0.9024	degrees	1.7	6.4
ROCKDEP	Depth to Rock	4	feet	4.13	5.21
URBAN	Percent Urban	34.2287	percent	0	89

Low-Flow Statistics Disclaimers [Low Flow Region 1]

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

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

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00104	ft <sup>3</sup> /s
30 Day 2 Year Low Flow	0.00223	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.000209	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.0005	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.00205	ft <sup>3</sup> /s

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- PA Map Layers

**USGS StreamStats**

SELECT A STATE / REGION  
Pennsylvania

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:

- Basin Characteristics Report
- Scenario Flow Reports

Open Report

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**Basin Characteristics**

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	2.3092	degrees
DRNAREA	Area that drains to a point on a stream	0.4	square miles
ROCKDEP	Depth to rock	4	feet
URBAN	Percentage of basin with urban development	4.6079	percent

**Low-Flow Statistics**

Low-Flow Statistics Parameters [Low Flow Region 1]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	4.78	1150
BSLOPD	Mean Basin Slope degrees	2.3092	degrees	1.7	6.4
ROCKDEP	Depth to Rock	4	feet	4.13	5.21
URBAN	Percent Urban	4.6079	percent	0	89

Low-Flow Statistics Disclaimers [Low Flow Region 1]

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

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

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0168	ft <sup>3</sup> /s
30 Day 2 Year Low Flow	0.0288	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.00455	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.00853	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.0221	ft <sup>3</sup> /s

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- PA Map Layers

**USGS StreamStats**

SELECT A STATE / REGION  
Pennsylvania

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:

- Basin Characteristics Report
- Scenario Flow Reports

Open Report

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**Basin Characteristics**

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	3.8618	degrees
DRNAREA	Area that drains to a point on a stream	512	square miles
ROCKDEP	Depth to rock	4.6	feet
URBAN	Percentage of basin with urban development	3.2433	percent

**Low-Flow Statistics**

Low-Flow Statistics Parameters [99.8 Percent (512 square miles) Low Flow Region 1]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	512	square miles	4.78	1150
BSLOPD	Mean Basin Slope degrees	3.8618	degrees	1.7	6.4
ROCKDEP	Depth to Rock	4.6	feet	4.13	5.21
URBAN	Percent Urban	3.2433	percent	0	89

Low-Flow Statistics Flow Report [99.8 Percent (512 square miles) Low Flow Region 1]

PI: 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	76.7	ft <sup>3</sup> /s	46	46
30 Day 2 Year Low Flow	102	ft <sup>3</sup> /s	38	38
7 Day 10 Year Low Flow	39.2	ft <sup>3</sup> /s	51	51
30 Day 10 Year Low Flow	52	ft <sup>3</sup> /s	46	46
90 Day 10 Year Low Flow	84	ft <sup>3</sup> /s	41	41

Report About Help

Layers

- Base Maps
- Application Layers
- National Layers
- PA Map Layers

Displaying simplified basin. See FAQ for more information.

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)
1.00	New Oxford MHC	PA0080284	0.0189

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	1.69	3.38	
Dissolved Oxygen			6

Record: 1 of 1 No Filter Search

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rptEffLimits

### WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
07F	8527	Tri-0 8527 to S Branch Conewago Cr

ROW	Name	Permit Number	Disc. Flow (mgd)	Parameter	5/5 Limit 30-day Avg. (mg/L)	5/5 Limit Maximum (mg/L)	5/5 Limit Minimum (mg/L)
1.000	New Oxford MHC	FR00182294	0.019	CSODS	25		
				NP5-N	1.69	3.38	
				Discolored Oxygen			6

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rpt\_WLA

### WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
07F	8527	Tri-0 8527 to S Branch Conewago Cr

#### NH3-N Acute Allocations

ROW	Discharge Name	Baseline Criteria (mg/L)	Baseline WLA (mg/L)	Multiple Criteria (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
1.000	New Oxford MHC	11.44	12.4	11.44	12.4	0	0

#### NH3-N Chronic Allocations

ROW	Discharge Name	Baseline Criteria (mg/L)	Baseline WLA (mg/L)	Multiple Criteria (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
1.000	New Oxford MHC	1.44	1.69	1.44	1.69	0	0

#### Discolored Oxygen Allocations

ROW	Discharge Name	CSODS	NP5-N	Discolored Oxygen	Critical Reach	Percent Reduction
1.000	New Oxford MHC	25	25	1.69	6	0

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rptDOSim

### WQM 7.0 D.O. Simulation

SWP Basin	Stream Code	Stream Name
07F	8527	Tri-0 8527 to S Branch Conewago Cr

ROW	Total Discharge Flow (mgd)	Analyst Temperature (°C)	Analyst pH
1.000	0.019	24.417	7.000

Reach Width (ft)	Reach Depth (ft)	Reach Velocity (ft/s)	Reach Velocity (ft/s)
1.475	13.32	4.437	0.961

Reach CSODS (mg/L)	Reach NP5-N (mg/L)	Reach NP5-N (mg/L)	Reach DO (Days)
2232	1.461	1.50	0.983
6.262	30.522	NO Calculation	Reach DO Goal (mg/L)
		Overset	6

Reach Travel Time (days)	Subreach Results	O.D.
0.987	Travel Time CSODS (mg/L)	(mg/L)
	NP5-N (mg/L)	(mg/L)
	0.091 16.98 1.37 6.47	
	0.161 16.13 1.29 6.75	
	0.272 13.72 1.14 6.99	
	0.383 11.66 1.05 7.20	
	0.453 9.92 0.98 7.38	
	0.544 8.43 0.88 7.53	
	0.635 7.17 0.80 7.61	
	0.725 6.10 0.73 7.61	
	0.816 5.18 0.67 7.61	
	0.907 4.41 0.61 7.61	

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rptModelSpecs

### WQM 7.0 Modeling Specifications

Parameters	Units	Use Inputted Q1-10 and Q30-10 Flows	Critical Reach
WLA Method	EM/PI	Use Inputted WQ Ratio	<input type="checkbox"/>
Q1-10/Q1-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q1-10 Ratio	1.38	Temperature Adjust Kp	<input type="checkbox"/>
O.D. Substratum	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
O.D. Goal	6		

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rptHydro

### WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name													
07F	8527	Trib 08527 to S Branch Conewago Cr													
R/R	Stream Flow (cfs)	PWS Flow (cfs)	Net Stream Flow (cfs)	Disc Flow (cfs)	Reach Analysis (ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (ft/s)	Reach Time (days)	Analysis Temp (°C)	Analysis pH			
<b>Q7-10 Flow</b>															
	1.000	0.00	0.00	0.00	0.0282	0.01685	352	1.47	4.44	0.07	0.007	24.42	7.00		
<b>Q1-10 Flow</b>															
	1.000	0.00	0.00	0.00	0.0282	0.01685	NA	NA	NA	0.07	0.029	24.61	7.00		
<b>Q30-10 Flow</b>															
	1.000	0.01	0.00	0.01	0.0282	0.01685	NA	NA	NA	0.07	0.038	24.24	7.00		

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rptGeneral

### Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	R/R	Elevation (ft)	Discharge Area (sqm)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply F.C.
07F	8527	Trib 08527 to S Branch Conewago Cr	1.000	354.30	0.05	0.00000	0.00	<input checked="" type="checkbox"/>

#### Stream Data

Design Cond.	L/FY (d/m)	Inb Flow (cfs)	Stream Flow (cfs)	Rich Flow (cfs)	Rich Velocity (ft/s)	W/D Ratio (ft)	Rich Width (ft)	Rich Depth (ft)	Tributary Temp (°C)	pH	Stream Temp (°C)	pH
Q7-10	0.077	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	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)	Recurse Factor	Disc Temp (°C)	Disc pH
New OxfordMHC	PA0080284	0.0195	0.0195	0.0195	0.000	25.00	7.00

#### Parameter Data

Parameter Name	Disc Conc (mg/L)	Inb Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CSOD5	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	R/R	Elevation (ft)	Discharge Area (sqm)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply F.C.
07F	8527	Trib 08527 to S Branch Conewago Cr	0.001	451.20	0.40	0.00000	0.00	<input checked="" type="checkbox"/>

#### Stream Data

Design Cond.	L/FY (d/m)	Inb Flow (cfs)	Stream Flow (cfs)	Rich Flow (cfs)	Rich Velocity (ft/s)	W/D Ratio (ft)	Rich Width (ft)	Rich Depth (ft)	Tributary Temp (°C)	pH	Stream Temp (°C)	pH
Q7-10	0.077	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	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)	Recurse Factor	Disc Temp (°C)	Disc pH
New OxfordMHC	PA0080284	0.0000	0.0000	0.0000	0.000	25.00	7.00

#### Parameter Data

Parameter Name	Disc Conc (mg/L)	Inb Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CSOD5	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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**TRC EVALUATION**

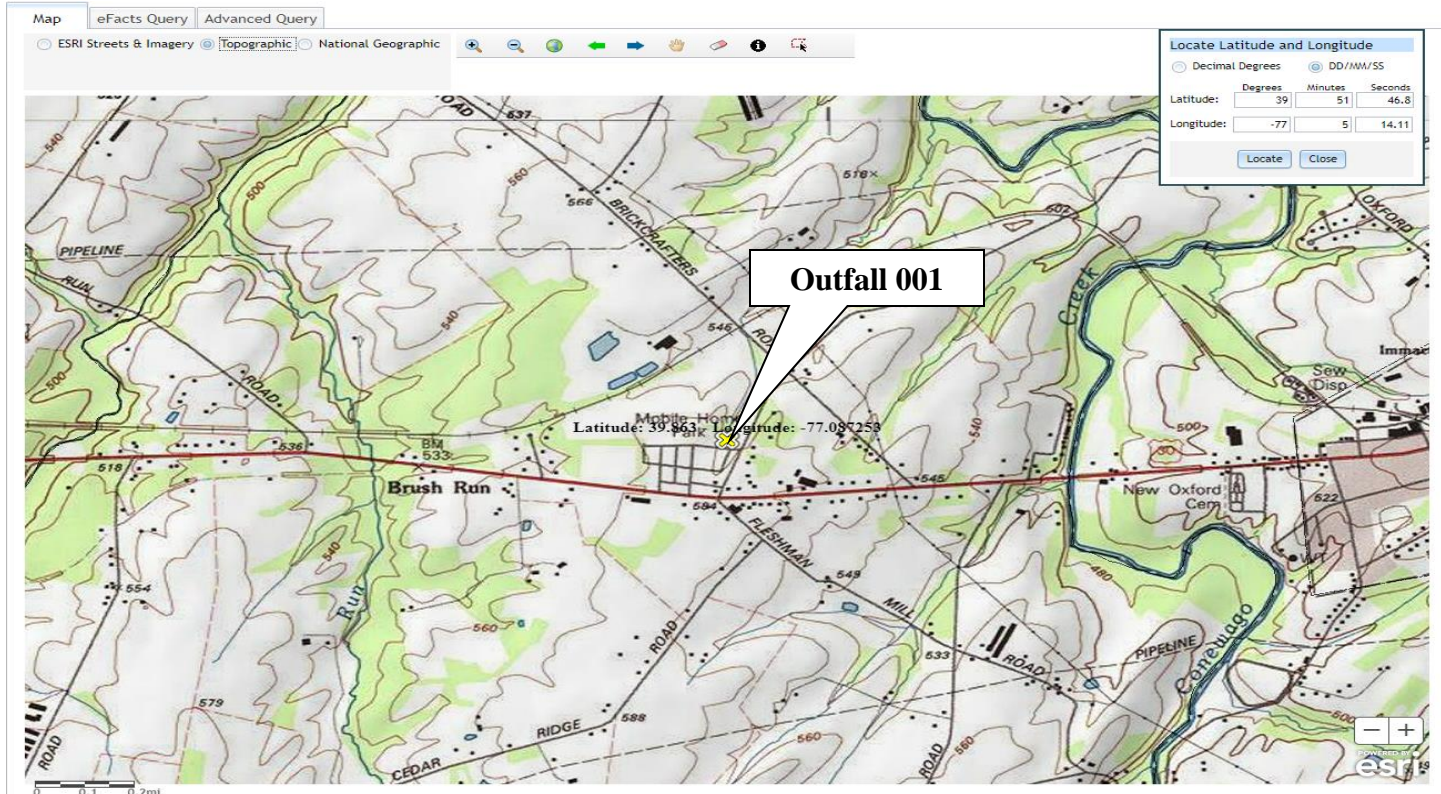
Input appropriate values in A3:A9 and D3:D9

0.00385	= Q stream (cfs)	0.5	= CV Daily
0.01885	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		= Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA_afc = 0.061	1.3.2.iii	WLA_cfc = 0.052
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373	5.1c	LTAMULT_cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 0.023	5.1d	LTA_cfc = 0.030

Source	Effluent Limit Calculations
PENTOXSD TRG	5.1f AML MULT = 1.231
PENTOXSD TRG	5.1g AVG MON LIMIT (mg/l) = 0.028 AFC
	INST MAX LIMIT (mg/l) = 0.092

WLA_afc	$(.019/e^{-k \cdot AFC\_tc}) + [(AFC\_Yc \cdot Qs \cdot .019/Qd \cdot e^{-k \cdot AFC\_tc}) \dots + Xd + (AFC\_Yc \cdot Qs \cdot Xs/Qd)] \cdot (1 - FOS/100)$
LTAMULT_afc	$EXP((0.5 \cdot LN(cvh^2 + 1)) - 2.326 \cdot LN(cvh^2 + 1)^{0.5})$
LTA_afc	wla_afc * LTAMULT_afc
WLA_cfc	$(.011/e^{-k \cdot CFC\_tc}) + [(CFC\_Yc \cdot Qs \cdot .011/Qd \cdot e^{-k \cdot CFC\_tc}) \dots + Xd + (CFC\_Yc \cdot Qs \cdot Xs/Qd)] \cdot (1 - FOS/100)$
LTAMULT_cfc	$EXP((0.5 \cdot LN(cvd^2 / no\_samples + 1)) - 2.326 \cdot LN(cvd^2 / no\_samples + 1)^{0.5})$
LTA_cfc	wla_cfc * LTAMULT_cfc
AML MULT	$EXP(2.326 \cdot LN((cvd^2 / no\_samples + 1)^{0.5}) - 0.5 \cdot LN(cvd^2 / no\_samples + 1))$
AVG MON LIMIT	MIN(BAT_BPJ, MIN(LTA_afc, LTA_cfc) * AML_MULT)
INST MAX LIMIT	$1.5 \cdot ((av\_mon\_limit / AML\_MULT) / LTAMULT\_afc)$



Existing Effluent Limitations and Monitoring Requirements

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/day	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.027	XXX	0.089	1/day	Grab
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10.0	XXX	20	2/month	24-Hr Composite
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20.0	XXX	40	2/month	24-Hr Composite
TSS	XXX	XXX	XXX	10.0	XXX	20	2/month	24-Hr Composite
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	1.5	XXX	3	2/month	24-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	4.5	XXX	9	2/month	24-Hr Composite

**Existing Effluent Limitations and Monitoring Requirements**

Chesapeake Bay Requirements

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Quarterly	Annual	Monthly	Quarterly Average	Maximum	Instant. Maximum		
Ammonia--N	Report	Report	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Kjeldahl--N	Report	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Total Nitrogen	Report	Report	XXX	Report	XXX	XXX	1/quarter	Calculation
Total Phosphorus	Report	Report	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite



**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Daily Max	XXX	1/day	Grab
DO	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.027	XXX	0.089	1/day	Grab
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10.0	XXX	20.0	2/month	24-Hr Composite
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20.0	XXX	40.0	2/month	24-Hr Composite
TSS	XXX	XXX	XXX	10.0	XXX	20.0	2/month	24-Hr Composite
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	1.5	XXX	3.0	2/month	24-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	4.5	XXX	9.0	2/month	24-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" (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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Quarterly	Annual	Monthly	Quarterly Average	Maximum	Instant. Maximum		
Ammonia--N	Report	Report	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Kjeldahl--N	Report	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite
Total Nitrogen	Report	Report	XXX	Report	XXX	XXX	1/quarter	Calculation
Total Phosphorus	Report	Report	XXX	Report	XXX	XXX	1/quarter	24-Hr Composite

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 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 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 checked="" 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 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, 386-2000-008, 4/97.
<input 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 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]