

Southcentral Regional Office CLEAN WATER PROGRAM

Application Type
Renewal
NonFacility Type
Municipal
Major / Minor
Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0031968

 APS ID
 274923

Authorization ID

1419432

Applicant Name	PA DPW	Facility Name	Youth Forestry Camp 3
Applicant Address	4534 Tar Kiln Road	Facility Address	4534 Tar Kiln Road
	James Creek, PA 16657-7102		James Creek, PA 16657-7102
Applicant Contact	Greg Lego	Facility Contact	Gregory Lego
Applicant Phone	(814) 658-3492	Facility Phone	(814) 658-3492
Client ID	51700	Site ID	452098
Ch 94 Load Status	Not Overloaded	Municipality	Todd Township
Connection Status		County	Huntingdon
Date Application Rece	eived March 13, 2018	EPA Waived?	Yes
Date Application Acce	pted March 20, 2018	If No, Reason	

Summary of Review

The PA Department of Environmental Protection (DEP or Department) has received an NPDES permit renewal application from PA DPW (permittee) for permittee's Youth Forestry Camp # 3, located in Todd Township, Huntingdon County on March 13, 2018. The terms and conditions of existing permit was administratively extended since the renewal application was received at least 180 days prior to the permit expiration date.

The hydraulic design capacity & annual average design flow are 0.0095 MGD. The receiving stream is UNT to Great Trough Creek in watershed 11-D and classified as Trout Stocking Fishes (TSF). The existing permit was issued on September 14, 2014 which will expire on September 30, 2019.

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. The UV intensity (mW/cm²) daily monitoring will be added 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
Х		Hilaryle Hilary H. Le / Environmental Engineering Specialist	December 8, 2022
Х		Maria D. Bebenek for Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	January 23, 2023

Discharge, Receiving Waters and Water Supply Information							
Outfall No. 001		Design Flow (MGD)	0.0095				
Latitude 40° 18'	32.87"	Longitude	-78º 7' 18.90"				
Quad Name Cass	ville	Quad Code	1621				
Wastewater Description	on: Sewage Effluent						
	Unnamed Tributary to Great	Otan and On da	40.470				
	Trough Creek (TSF)	Stream Code	13476				
-	65840957	RMI	0.17				
Drainage Area (0.59 mi. ²	Yield (cfs/mi²)	See comments below				
Q ₇₋₁₀ Flow (cfs)	See comments below	Q ₇₋₁₀ Basis	See comments below				
Elevation (ft)	972.4	Slope (ft/ft)					
Watershed No.	11-D	Chapter 93 Class.	TSF				
Existing Use		Existing Use Qualifier					
Exceptions to Use		Exceptions to Criteria					
Assessment Status	Attaining Use(s)						
Cause(s) of Impairme	ent						
Source(s) of Impairme	ent						
TMDL Status		Name					
Nearest Downstream	Public Water Supply Intake	Raystown Lake Corp. 7 PTS F	Plant				
PWS Waters Ra	ystown Branch Juniata River	Flow at Intake (cfs)					
PWS RMI		Distance from Outfall (mi)	Approximate 13.0 miles				

Changes Since Last Permit Issuance:

Drainage Area

The discharge is to Unnamed Tributary to Great Trough Creek at RMI 0.17 miles. A drainage area upstream of the discharge is estimated to be 0.59 mi.², according to USGS StreamStats available at https://streamstats.usgs.gov/ss/.

Stream Flow

Streamflow will be correlated with past stream flow records taken from the nearby USGS stream gauge 01562500 located in Great Trough Creek near Marklesburg, PA, which is approximately 5.1 miles downstream of discharge point. Q_{7-10} , and Q_{30-10} values at this gage are 3.96 cfs, and 5.18 cfs. The drainage area at gauge station was found to be 85.2 mi². These values were obtained from the latest USGS streamflow report. The drainage area at the Discharge Point (DP) was found to be 0.59 mi² from USGS StreamStats.

 Q_{7-10} runoff rate = 3.96 cfs/85.2 mi² = 0.047 cfs/mi² Q_{7-10} = 0.047 cfs/mi² * 0.59 mi² = 0.03 cfs

Unnamed Tributary to Great Trough Creek

25 Pa. Code § 93.9n classifies Unnamed Tributary to Great Trough Creek as Trout Stocking Fishes (TSF) surface water. Based on the 2022 Integrated Report, Unnamed Tributary to Great Trough Creek, assessment unit IDs 6997, is not impaired. A TMDL currently does not exist for this stream segment, therefore, no TMDL has been taken into consideration during this review.

Public Water Supply

The nearest downstream public water supply intake is the Raystown Lake Corp. 7 PTS Plant in Huntingdon County, approximately 13.0 miles downstream of this discharge. Given the nature and dilution, the discharge is not expected to significantly impact the water supply.

Treatment Facility Summary								
Treatment Facility Na	me: Youth Forestry Camp	#3						
WQM Permit No.	Issuance Date							
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)				
Sewage	Secondary	Extended Aeration	Ultraviolet	0.0095				
Hydraulic Capacity	Organic Capacity			Biosolids				
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal				
0.0095		Not Overloaded	Aerobic Digestion	Combination of methods				

Changes Since Last Permit Issuance: none

This facility is a 9,500 GPD system with the following treatment units:

Comminutor/Bar Screen Equalization Tank Two (2), Aeration Tanks Final Clarifier Two (2), Rapid Sand Filters Ultraviolet Disinfection Sludge Holding Tank

The chemicals use Caustic Soda for control pH, and Aluminum Sulfate for control Phosphorus.

	Compliance History						
Summary of DMRs:	The DMR data reports from November 1, 2021 to October 31, 2022 were summarized in the Table below.						
Summary of Inspections:	1/04/2022, Mr. Clark, DEP's WQS, conducted compliance evaluation inspection. There were no violations identified during inspection. The treatment plant appears to be operating properly. There was no discharge during the inspection, but effluent in UV tank looked clear.						
	4/30/2020, Mr. Clark, DEP's WQS, conducted an admin inspection. There were no violations noted. The facility was operating under normal hours.						
	10/9/2019: Mr. Clark, DEP's WQS, conducted compliance evaluation inspection. There were no violations identified during inspection. The treatment plant appears to be operating properly, effluent clear, field test results within permit limits. Recommendations were update the effluent supplemental form, record discharge flow daily, and calibrate pH meter daily.						
Other Comments:	There are no open violations against the facility or permittee.						

Other Comments:

Compliance History

DMR Data for Outfall 001 (from November 1, 2021 to October 31, 2022)

Parameter	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21
Flow (MGD)												
Average Monthly	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002
Flow (MGD)												
Daily Maximum	0.004	0.003	0.005	0.007	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.003
pH (S.U.)												
Minimum	6.79	6.53	6.91	6.68	6.01	6.08	6.65	7.22	6.60	6.93	6.85	6.95
pH (S.U.)												
Maximum	8.11	7.54	8.02	8.02	7.52	8.43	8.78	7.75	8.23	8.40	8.44	8.05
DO (mg/L)												
Minimum	9.24	7.51	8.05	7.84	7.70	8.30	8.98	10.40	12.21	10.46	9.34	8.24
CBOD5 (mg/L)												
Average Monthly	< 3.00	5.64	< 3.00	< 3.00	< 3.00	3.97	< 3.00	9.87	5.84	< 3.00	< 3.00	< 3.00
TSS (mg/L)												
Average Monthly	4.40	2.80	2.20	6.40	7.60	6.60	13.80	13.80	14.80	8.40	18.4	3.20
Fecal Coliform												
(CFU/100 ml)	4 000	0.045	4 000	4 000	4 000	4000	4.000	4.000	0.004	4 000	4 000	4 000
Geometric Mean	< 1.000	2.915	< 1.000	< 1.000	< 1.000	< 1000	4.000	4.000	2.864	< 1.000	< 1.000	< 1.000
Fecal Coliform												
(CFU/100 ml)												
Instantaneous Maximum	< 1.000	2.915	< 1.000	< 1.000	< 1.000	< 1.000	4.000	4.000	2.864	< 1.000	< 1.000	< 1.000
Nitrate-Nitrite (mg/L)	< 1.000	2.915	< 1.000	< 1.000	< 1.000	< 1.000	4.000	4.000	2.004	< 1.000	< 1.000	< 1.000
Average Monthly	62.65	55	56.94	51	74.76	79.28	75.19	56.59	76	74.81	77.0	81.10
Total Nitrogen (mg/L)	02.03	- 55	30.94	31	74.70	79.20	73.13	30.39	70	74.01	77.0	01.10
Average Monthly	63.175	56	57.44	51.5	75.26	79.78	75.69	57.09	76	75.31	78.0	81.6
Ammonia (mg/L)	00.170	- 00	07.11	01.0	70.20	70.70	70.00	07.00	,,,	7 0.0 1	70.0	01.0
Average Monthly	< 0.10	< 0.10	< 0.10	0.89	0.27	< 0.10	0.36	0.25	0.43	< 0.10	< 0.10	< 0.10
TKN (mg/L)	1 01.10	7 01.10	7 01.10	0.00	0.2.	10110	0.00	0.20	00	101.10	1 01.10	10110
Average Monthly	0.5250	0.40	< 0.5	< 0.5	< 0.5000	< 0.5	< 0.5	< 0.5000	< 0.5	< 0.5000	< 0.5000	< 0.5000
Total Phosphorus												
(mg/L)												
Average Monthly	0.32	0.40	0.81	0.76	1.74	1.46	1.17	1.59	1.39	0.76	1.53	0.75

Development of Effluent Limitations							
Outfall No.	001	Design Flow (MGD)	0.0095				
Latitude	40° 18' 32.87"	Longitude	-78° 7' 18.90"				
Wastewater [Description: Sewage Effluent	_					

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform				
(5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform				
(5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform				
(10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform				
(10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: Total Residual Chlorine does not apply.

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	20°C	(Default per 391-2000-007)
*	Stream pH	7.0	(Default per 391-2000-006)
*	Stream Temperature	20°C	(Default for WWF per 391-2000-003)
*	Background NH ₂ -N	0 ma/l	(Assumed since no nearby unstream WWTPs)

(Assumed since no nearby upstream WWTPs) Background NH₃-N 0 mg/L

Regarding NH₃-N limits, the attached computer printout of the WQM 7.0 stream model (version 1.1) indicates that a limit of 6.73 mg/L NH₃-N as a monthly average (AML) and 13.46 mg/L NH₃-N instantaneous maximum (IMAX) are necessary to protect the aquatic life from toxicity effects. However, the existing permit limits of 5.5 mg/l average monthly & 11.0 mg/L IMAX for summer and 16.5 mg/l average monthly & 33.0 mg/L IMAX for winter are more stringent and will remain in the proposed permit. Monitoring frequency will also remain the same of 2/month. DMR data and site inspections reflect that the plant is capable of meeting this limit.

CBOD₅:

The WQM 7.0 model (ver. 1.1) suggests a monthly average CBOD₅ limit of 25.0 mg/l which is the same as existing permit. Instantaneous Maximum limit will be 50.0 mg/l. The minimum monitoring frequency will remain the same as 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. BPNPSM-PMT-033 and has been applied to other point source dischargers throughout the state.

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

NPDES Permit Fact Sheet Youth Forestry Camp 3 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 25 Pa. Code § 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 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.

UV:

The UV system daily monitor and report the UV light intensity (mW/cm²) will be added in the proposed permit.

Total Suspended Solids (TSS):

The existing limits of 30.0 mg/L average monthly, and 60.0 mg/L instantaneous maximum will remain in the proposed permit. Recent DMRs and inspection reports show that the facility has been consistently achieving concentrations below these limits.

Total Phosphorus:

The existing permit limits of 2.0 mg/l as a monthly average and 4.0 mg/l as an instantaneous maximum are being continued in this renewal, consistent with DEP's Technical Guidance for Phosphorus (391-2000-018) and 25 Pa. Code § 96.5.

Toxics:

DEP utilizes a Toxics Management Spreadsheet (TMS) (last modified on March 2021, ver. 1.3) to facilitate calculations necessary for completing a reasonable potential analysis and determining WQBELs for toxic pollutants. The effluent testing information renewal application (page 6) indicates that there are no toxic pollutants of concern.

Stormwater:

There is no known stormwater outfall associated with this facility.

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. This plant is classified as a phase 5, which will be required to monitor and report Nitrate-Nitrite as N, Total Kjeldahl Nitrogen and Total Nitrogen once per month as per Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (362-0400-001).

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. The basin is classified as a TSF. No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

Class A Wild Trout Fisheries:

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

303(d) Listed Streams:

The stream is listed as attaining its designated use(s).

NPDES Permit Fact Sheet Youth Forestry Camp 3

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	20°C	(Default)
•	Stream pH	7.0	(Default)
•	Stream Temperature	20°C	(Default)

The following two nodes were used in modeling:

Node 1: Outfall 001 at UNT to Great Trough Creek (13476)

Elevation: 972.4 ft (USGS)

Drainage Area: 0.59 mi² (USGS StreamStats)
River Mile Index: 0.17 (PA DEP eMapPA)

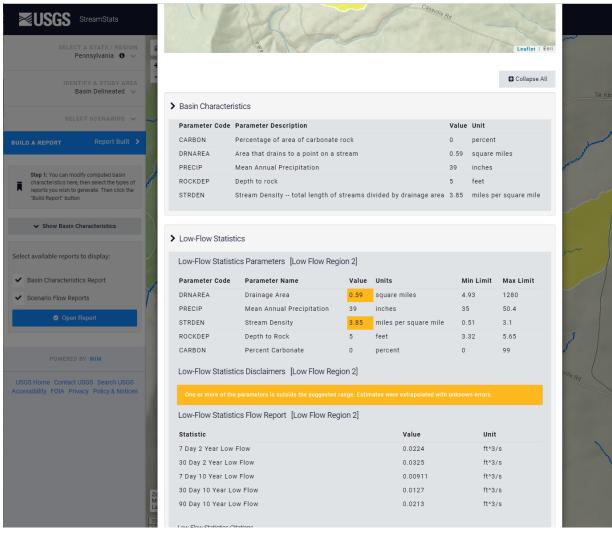
Low Flow Yield: 0.047 cfs/mi² Discharge Flow: 0.0095 MGD

Node 2: At the confluence with Great Trough Creek (13460)

Elevation: 939.8 ft (USGS)

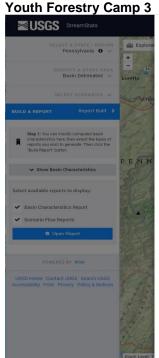
Drainage Area: 76.5 mi² (USGS StreamStats)
River Mile Index: 0.001 (PA DEP eMapPA)

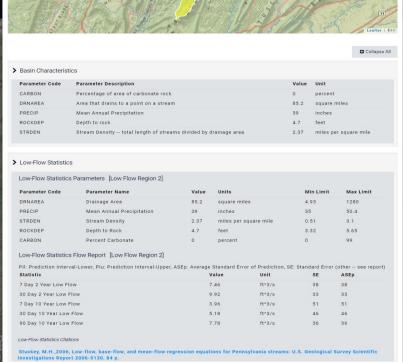
Low Flow Yield: 0.047 cfs/mi² Discharge Flow: 0.00 MGD

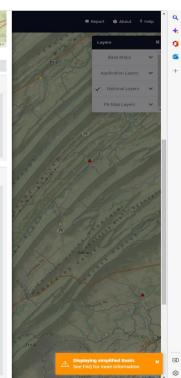


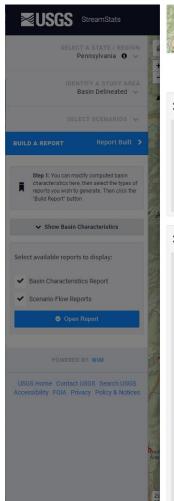


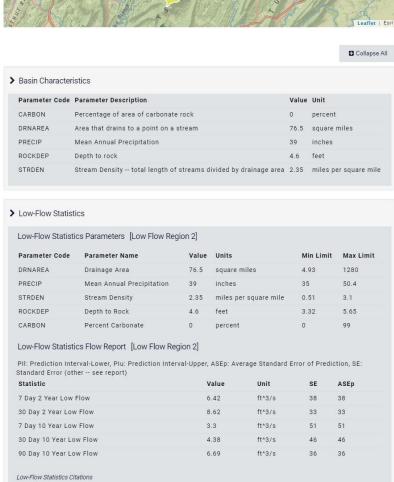
NPDES Permit Fact Sheet NPDES Permit No. PA0031968





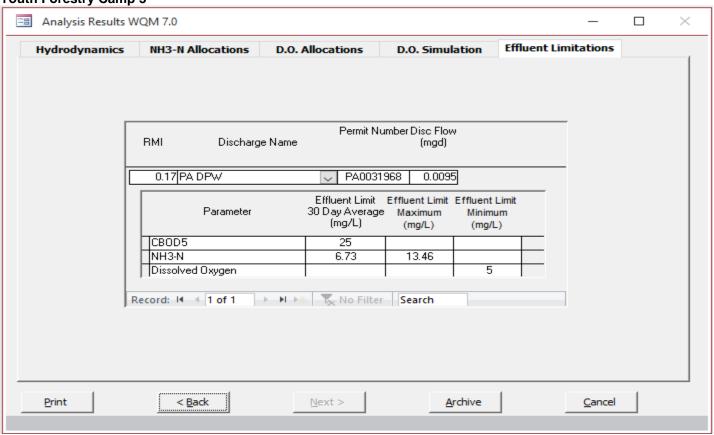






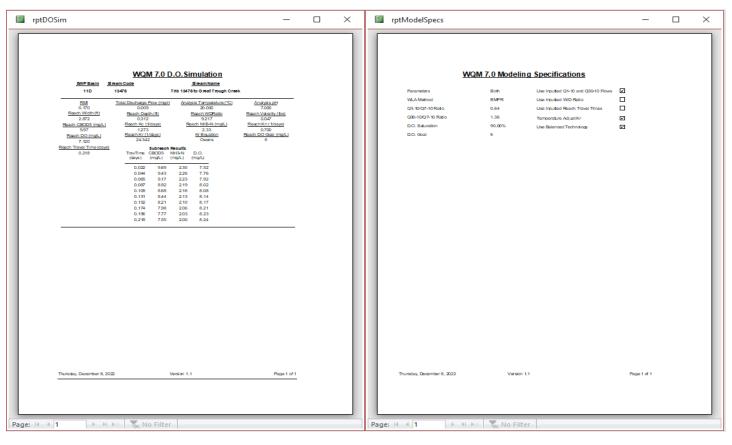


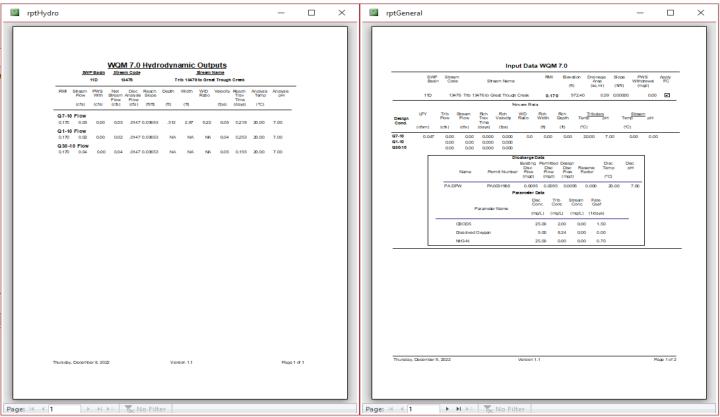
NPDES Permit Fact Sheet Youth Forestry Camp 3



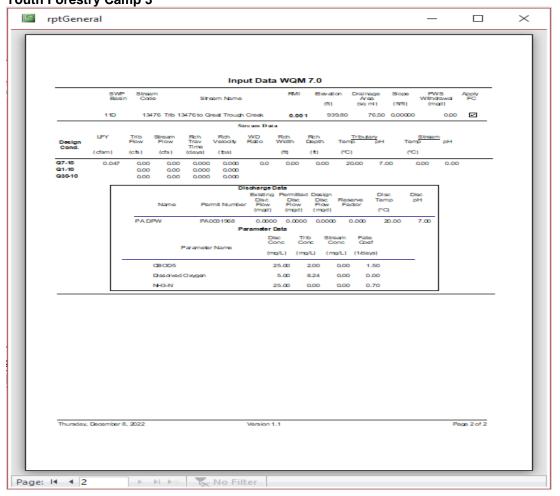


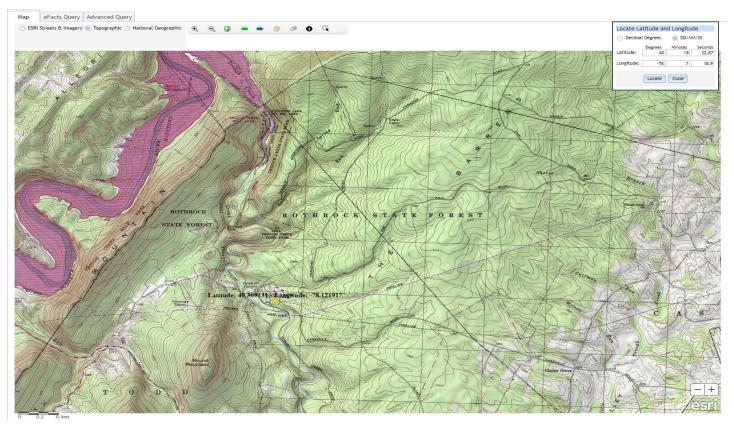
NPDES Permit Fact Sheet Youth Forestry Camp 3





NPDES Permit Fact Sheet Youth Forestry Camp 3





Existing Effluent Limitations and Monitoring Requirements

		Monitoring Requirements						
Parameter	Mass Units (lbs/day) (1)			Concentrations (mg/L)			Minimum (2)	Required
Parameter	Average Monthly	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
D.O.	XXX	XXX	6.0	XXX	XXX	XXX	1/day	Grab
CBOD₅	XXX	XXX	XXX	25	XXX	50	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30	XXX	60	2/month	8-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
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Ammonia May 1 - Oct 31	XXX	XXX	XXX	5.5	XXX	11	2/month	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	16.5	XXX	33	2/month	8-Hr Composite
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4	2/month	8-Hr Composite

Permit No. PA0031968

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

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

		Monitoring Requirements						
Parameter	Mass Units	s (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Required
Farameter	Average Monthly	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
D.O.	XXX	XXX	6.0	XXX	XXX	XXX	1/day	Grab
Ultraviolet light intensity (mW/cm²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Recorded
CBOD₅	XXX	XXX	XXX	25.0	XXX	50.0	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60.0	2/month	8-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	5.5	XXX	11.0	2/month	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	16.5	XXX	33.0	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4.0	2/month	8-Hr Composite
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	Calculation
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite

Tools and References Used to Develop Permit	
N 7	T
	WQM for Windows Model (see Attachment)
	Toxics Management Spreadsheet (see Attachment)
	TRC Model Spreadsheet (see Attachment)
	Temperature Model Spreadsheet (see Attachment)
	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
\boxtimes	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
	Pennsylvania CSO Policy, 385-2000-011, 9/08.
\boxtimes	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
	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.
	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
\boxtimes	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
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