

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0032085
 APS ID 1056872
 Authorization ID 1385253

Applicant and Facility Information

Applicant Name	<u>PA DCNR Prince Gallitzin State Park</u>	Facility Name	<u>Prince Gallitzin State Park</u>
Applicant Address	<u>966 Marina Road</u> <u>Patton, PA 16668-6317</u>	Facility Address	<u>Across Sr 1021 From Glendale Hs</u> <u>Glendale, PA 17074-9428</u>
Applicant Contact	<u>Jessica Lavelua</u>	Facility Contact	<u>Jeff Stevens</u>
Applicant Phone	<u>814-674-1000 (103)</u>	Facility Phone	<u>814-687-4578</u>
Client ID	<u>62644</u>	Site ID	<u>257429</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>White Township</u>
Connection Status	<u>No Exceptions Allowed</u>	County	<u>Cambria</u>
Date Application Received	<u>February 16, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>February 17, 2022</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of NPDES Permit to authorize a discharge of a treated sewage effluent.</u>		

Summary of Review

The permittee has applied for a renewal of NPDES Permit No. PA0032085. NPDES Permit No. PA0032085 was previously issued by the PA Department of Environmental Protection (DEP) on July 19, 2017 and it's going to expire on July 31, 2022. The State-Owned facility renewal application was received by DEP on February 16, 2022 and considered late.



The existing treatment process consists of comminutor/ bar screen, extended aeration, activated sludge, final clarification, ultra-violet disinfection, and aerobic sludge digester.

Operations compliance report (attached) summarize the effluent limit violations for the last five years. The facility had few reported exceedances of total suspended solids (TSS), fecal coliform, dissolved oxygen, and pH.

After discussing the exceedances with the applicant on a call on 4/1/2022, it's been confirmed that the samples collected prior to February 2022 were before the UV process and were not from the end of pipe (Outfall 001). Checking on the facility last eDMR reported on March 28, 2022 no effluent limit violation was noticed and there is significant improvement in the Fecal Coliform, DO, and TSS concentrations.

The permittee reported no industrial or commercial users in the application.

The Act – 14 PL 834 Municipal Notification were provided by the January 10, 2022 letters and no comments were received.

Approve	Deny	Signatures	Date
X		 Hazim Aldalli / Environmental Engineering Specialist	December 7, 2022
X		 Mahbuba Iasmin, Ph.D. P.E./ Environmental Engineering Manager	December 12, 2022

Summary of Review

Sludge use and disposal description and location(s): Off site, Hauled to Glendale Valley Municipal Authority (GVMA) STP for processing. No sludge or solids are being applied or disposed on site.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.12</u>
Latitude	<u>40° 42' 9.94"</u>	Longitude	<u>-78° 31' 55.68"</u>
Quad Name	<u>Coalport</u>	Quad Code	<u>40078F5</u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Beaverdam Run (CWF, MF)</u>	Stream Code	<u>26371</u>
NHD Com ID	<u>61836051</u>	RMI	<u>1.69</u>
Drainage Area	<u>42.3 sq.mi.</u>	Yield (cfs/mi ²)	<u>0.049</u>
Q ₇₋₁₀ Flow (cfs)	<u>2.09</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1638</u>	Slope (ft/ft)	<u>0.0017</u>
Watershed No.	<u>8-C</u>	Chapter 93 Class.	<u>CWF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>

Assessment Status Attaining

Cause(s) of Impairment

Source(s) of Impairment

TMDL Status Final Name Clearfield Creek

Background/Ambient Data	Data Source
pH (SU)	<u></u>
Temperature (°F)	<u></u>
Hardness (mg/L)	<u></u>
Other:	<u></u>

Nearest Downstream Public Water Supply Intake Shawville Power Plant on the West Branch Susquehanna River.

PWS Waters	<u>Susquehanna River</u>	Flow at Intake (cfs)	<u>65.3</u>
PWS RMI	<u>164.2</u>	Distance from Outfall (mi)	<u>>40.0</u>

Changes Since Last Permit Issuance: DEP updated its WQM 7.0 criteria for Ammonia-Nitrogen NH₃ in 2019, and therefore, limits and conditions of this permit need to be redeveloped to an adequate level to protect water quality.

Other Comments: None.

Treatment Facility Summary				
Treatment Facility Name: Prince Gallitzin State Park WWTP				
WQM Permit No.		Issuance Date		
561S50		January 5, 1956		
1105402		November 21, 2006		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Ultraviolet	0.0108
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.12	---	Not Overloaded	Activated sludge	Hauled to GVMA STP for processing

Changes Since Last Permit Issuance: Applicant stated that no changes are made or will be anticipated in the next five years.

Other Comments: None.

Operations Compliance Check Summary Report

Facility: Prince Gallitzin State Park STP

NPDES Permit No.: PA0032085

Compliance Review Period: 3/2017 – 3/2022

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
3049821	03/10/2020	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted
2856317	01/29/2019	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

Violation Summary:

No violations found

Open Violations by Client ID:

No open violations for Client ID 62644

Enforcement Summary:

No enforcements found

DMR Violation Summary:

BEGIN	END	SUBMISSION	PARAMETER	SAMPLE_ VALUE	PERMIT_ VALUE	UNIT	CODE
08/01/21	8/31/21	9/22/21	Total Suspended Solids	55	45	mg/L	Weekly Average
09/01/20	9/30/20	10/28/20	Fecal Coliform	5600	1000	No./100 m	Instantaneous Maximum
07/01/19	7/31/19	8/28/19	Dissolved Oxygen	2.9	4	mg/L	Minimum
07/01/19	7/31/19	8/28/19	Fecal Coliform	1560	1000	No./100 m	Instantaneous Maximum
05/01/19	5/31/19	6/28/19	Fecal Coliform	13000	1000	No./100 m	Instantaneous Maximum
06/01/18	6/30/18	7/17/18	pH	5.4	6	mg/L	Minimum
01/01/18	1/31/18	2/26/18	Dissolved Oxygen	2.6	4	mg/L	Minimum
09/01/17	9/30/17	10/20/17	Fecal Coliform	2400	1000	No./100 m	Instantaneous Maximum
09/01/17	9/30/17	10/20/17	pH	5.2	6	mg/L	Minimum

Compliance Status: State owned facility. No violations issued.

Completed by: John Murphy

Completed date: 3/24/2022

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.12</u>
Latitude <u>40° 42' 9.94"</u>	Longitude <u>-78° 31' 55.68"</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)
NH ₃ -N (mg/L)	25	Average Monthly	-	BPJ
D.O. (mg/L)	4.0	Average Monthly	-	BPJ
Total N (mg/L)	Report	Average Monthly	-	92a.61
Total P (mg/L)	Report	Average Monthly	-	92a.61
E. Coli (No./100 ml)	Report	IMAX	-	92a.61

Comments: The facility is not operating on its full capacity throughout the year due to fluctuation in the number of visitors, which is reflected on the average annual flow (0.0108 MGD). Facility effluent discharge of 0.120 MGD and a dilution ratio by the receiving stream of 11.25 (1.35/0.12) suggests significant dilution effect by the receiving stream, which would eventually reduce the effect of in-stream pollutant load accumulation. Thus, TBEL's for CBOD₅, pH, TSS, and Fecal Coliform will be appropriate for this permit cycle.

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (see Appendix A for details):

Parameter	Limit (mg/l)	SBC	Model
CBOD ₅ (May1-Oct 31)	25	Average Monthly	WQM7.0
CBOD ₅ (Nov 1- Apr 30)		Average Monthly	WQM7.0
NH ₃ -N (May1-Oct 31)	10	Average Monthly	WQM7.0
NH ₃ -N (Nov 1- Apr 30)	25	Average Monthly	WQM7.0
Dissolved Oxygen	4.0	Minimum	WQM7.0

Comments: DEP policy allows new parameters introduced into renewed permits, in which the application manager desires for the permittee to collect data to verify reasonable potential for the subsequent permit application review to select any reasonable monitoring frequency that is greater than or equal to once per year, 1/month sampling should be sufficient to determine compliance.

Best Professional Judgment (BPJ) Limitations

A minimum Dissolved Oxygen (DO) limit of 4.0 mg/L should be established based on Best Professional Judgment (BPJ) to ensure adequate operation and maintenance.

WQM 7.0 was used to determine the newly imposed seasonal limits for Ammonia Nitrogen (NH₃-N), and also to redevelop CBOD₅ and DO limits. Checking on the eDMR, the facility can meet the newly more stringent imposed NH₃-N limits of 10 & 25 mg/l. As the plant has achieved effluent limits of NH₃-N lower than these limits, no compliance schedule is necessary (see Appendix C).

Nitrite and Nitrate was assessed for the drinking water purposes at the nearest downstream water treatment station for Shawville Power Station on the West Branch Susquehanna River. The nearest downstream potable water intake is >40 miles away. Therefore, no significant effects are expected to the water intake as a result of this discharge.

Anti-Backsliding

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

The previously imposed limits for pH Effluent Limitation of (6.0 Minimum, and 9.0 Maximum SIU), Fecal Coliform AML seasonal limits Geo Mean of (200 & 2000 CFU/100 ml), and TSS AML Weekly Average and Ins. Max of (30, 45, and 60 mg/l); will be all unchanged due to Anti-Backsliding as stated in 40 CFR Section 122.44(l).

Clearfield Creek TMDL

The Clearfield Creek Watershed is affected by pollution from abandoned mine drainage (AMD). The AMD has caused high levels of metals and low pH in the mainstem of Clearfield Creek upstream of Clearfield, PA.

Beaverdam Run segment ID 26371 is not impaired and not contributing to the Metals (Fe, Mn, and Al) and low pH pollution within Clearfield TMDL, no limits and monitoring will be imposed for these pollutants in this permit renewal.

Total Dissolved Solids (TDS) and its Major Constituents

Total Dissolved Solids (TDS) and its major constituents including sulfate, chloride, and bromide have emerged as pollutants of concern. The conservative nature of these solids allows them to accumulate in surface waters and they may remain a concern even if the immediate downstream public water supply is not directly impacted. Bromide has been linked to formation of disinfection byproducts at increased levels in public water systems.

Because of actions associated with Triennial Review 13, the Environmental Quality Board has directed DEP to collect additional data if the Bromide is greater than 1 mg/l (<0.4 mg/l as of 2/10/2022) and the TDS is greater than 1000 mg/l (138 mg/l as of 2/10/2022) or the TDS exceeds 20,000 lbs/day.

Monitoring is not required for Bromide, Chloride, and Sulfate. Bromide is less than 1 mg/l.

TN and TP Monitoring

Per SOP (No. BCW-PMT-033: Establishing Effluent Limitations for Individual Sewage Permits):

- Nutrient monitoring is required, at a minimum, to establish the nutrient load from the wastewater treatment facility and the impacts that load may have on the quality of the receiving stream(s). Sewage discharges with design flows > 2,000 gpd require monitoring, at a minimum, for Total Nitrogen and Total Phosphorus in new and reissued permits.

- This subject STP is located in the Chesapeake Bay Watershed, and for sewage discharges to the Chesapeake Bay watershed, monitoring will be consistent with the Phase 3 Wastewater Implementation Plan Wastewater Supplement dated September 13, 2021. It is a Phase 5 facility with an average design flow between 0.002 and 0.2 MGD and is subject to nutrient monitoring of the effluent.

As the approval for plant expansion was granted prior to implementation of the Chesapeake Bay Strategy, the more restricted nutrient loads for newer facilities are exempt under the Bay Strategy.

Checking on the eDMR annual effluent sampling results starting from 2018-2022, showing high concentrations (Daily Max.) of nutrients pollution. The average estimated concentrations of all non-significant facilities (Phases 4 and 5) are 25 mg/L TN and 4 mg/L TP per PADEP's Phase 2 WIP Wastewater Supplement (September 13, 2021). As shown in the table below, the annual data of this facility's discharge shows significantly high concentrations compared to the average values for all non-significant facilities. Per PADEP's current policy, DEP will not issue permits to existing Phase 4 and 5 facilities with Cap Loads unless it is done on a broad scale or unless the facilities are expanding. This Prince Gallitzin State Park is not expanding, and DEP is currently not issuing Cap Loads to Phase 5 facilities on a broad scale. Additionally, the receiving stream is not impaired with nutrients. Previous permit had annual sampling requirement of nutrients. Based on the DMRs, biannual monitoring will be imposed to better understand the nutrient load discharge from this facility.

Year	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
2018	18.71	7.95
2019	45.65	8.1
2020	58.66	8.097
2021	20.28	2.04

E-Coli

Pursuant to 25 Pa. code § 92a.61(b) quarterly monitoring for *E. Coli* will be imposed at Outfall (001) to determine if *E. Coli* will be a pollutant of concern, which is consistent with DEP SOP No. BCW-PMT-033 revised March 24, 2021.

Ultraviolet & Disinfection Considerations

Per DEP SOP (Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033 Revised, March 24, 2021), permittee can either report UV transmittance (%), UV dosage (µWs/cm2 or mWs/cm2 or mjoules/cm2) or UV intensity (µW/cm2 or mW/cm2) to demonstrate UV disinfection. The applicant requested by their letters on January 10, 2022 and April 2, 2019 (attached to the application) to change the renewal permit limitation from UV Transmittance % to UV Intensity. Per the above-mentioned SOP, the new way of reporting Ultraviolet limitation will not affect the disinfection efficiency and the quality of the treated sewage by this STP.

Part C33 condition – Ultraviolet (UV) System Monitoring Requirements, will be included in the permit.

Mass Loadings

Mass loading limits are applicable for publicly owned treatment works. Current policy requires average monthly mass loading limits be established for CBOD5, TSS, and NH3-N.

Average monthly mass loading limits (lbs/day) are based on the formula: design flow (MGD) x concentration limit (mg/L) x conversion factor (8.34).

Influent Monitoring

For POTWs with design flows greater than 2,000 GPD, influent BOD₅ and TSS monitoring must be established in the permit, and the monitoring should be consistent with the same frequency and sample type as is used for other effluent parameters.

Monitoring Frequency Considerations

Pursuant to 25 Pa. code § 92a.12 and 92a.61 effluent limits applicable at Outfall 001 are the more stringent of TBELs, WQBELs, regulatory standards, and monitoring requirements as summarized in the table in the following page.

Monitoring frequencies and sample types are established pursuant to DEPs “Technical Guidance for the Development and Specification of Effluent Limitations, and Other Permit Conditions in NPDES Permits”, and per DEP SOP - Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033 Revised, March 24, 2021.

The daily monitoring frequencies are consistent with current policy and the Table 6-3 of DEP’s Technical Guidance mentioned above.

DEP Central Office and DCNR State Park Central Office has reached an agreement to impose seasonal monitoring requirements for renewal permits (see Appendix D) of 1/ day for May – Sep, and 3/week for Oct – April that’s include pH, DO, and TRC (UV in this case).

CBOD₅, TSS, and Ammonia-Nitrogen must be sampled 1/week using 8-Hr composite sampling.

Updated monitoring frequencies are required for these parameters to provide minimum assurance the facility is being operated properly. The draft permit cover letter will include an explanation why increased monitoring is imposed.

Proposed Effluent Limitations and Monitoring Requirements

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

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Max. Daily	XXX	XXX	XXX	XXX	1/week	Metered
pH (S.U.) Oct 1 - Apr 30	XXX	XXX	6.0	XXX	9.0	XXX	3/week	Grab
pH (S.U.) May 1 - Sep 30	XXX	XXX	6.0	XXX	9.0	XXX	1/day	Grab
Dissolved Oxygen Oct 1 - Apr 30	XXX	XXX	4.0	XXX	XXX	XXX	3/week	Grab
Dissolved Oxygen May 1 - Sep 30	XXX	XXX	4.0	XXX	XXX	XXX	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	25.0	38.0	XXX	25.0	38.0 Avg. Weekly	50	1/week	8-Hr Composite
Total Suspended Solids	30.0	45.0	XXX	30.0	45.0 Avg. Weekly	60	1/week	8-Hr Composite
Fecal Coliform (No/100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No/100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Ultraviolet Light Intensity (mw/cm ²) Oct 1 - Apr 30	XXX	XXX	Report	XXX	XXX	XXX	3/week	Measured
Ultraviolet Light Intensity (mw/cm ²) May 1 - Sep 30	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Ammonia-Nitrogen Oct 1 - Apr 30	25.0	XXX	XXX	25.0	XXX	50.0	1/week	8-Hr Composite

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Ammonia-Nitrogen May 1 – Sep 30	10.0	XXX	XXX	10.0	XXX	20.0	1/week	8-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	Report Max. Daily	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	Report Max. Daily	XXX	Report	XXX	XXX	1/week	8-Hr Composite
E Coli (No./100ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Total Nitrogen	XXX	XXX	XXX	Report Daily Max	XXX	XXX	2/year	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report Daily Max	XXX	XXX	2/year	8-Hr Composite

Compliance Sampling Location: Outfall 001

Other Comments: None

Appendix A – WQM 7.0 Modeling – Summer Conditions

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
08C	26371	BEAVERDAM RUN	1.690	1384.00	42.30	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary		Stream	
									Temp (°C)	pH	Temp (°C)	pH
Q7-10	0.049	2.09	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)	Reserve Factor	Disc Temp (°C)	Disc pH
P. Galli SP	PA0032085	0.1200	0.1200	0.1200	0.000	20.00	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	4.00	9.01	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
08C	26371	BEAVERDAM RUN	0.000	1378.00	147.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary		Stream	
									Temp (°C)	pH	Temp (°C)	pH
Q7-10	0.064	9.53	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)	Reserve Factor	Disc Temp (°C)	Disc pH
P. Galli SP	PA0032085	0.1200	0.1200	0.1200	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	4.00	9.01	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

WQM 7.0 Hydrodynamic Outputs

<u>SWP Basin</u>		<u>Stream Code</u>				<u>Stream Name</u>						
08C		26371				BEAVERDAM RUN						
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-10 Flow												
1.690	2.09	0.00	2.09	.1856	0.00067	.649	28.37	43.74	0.12	0.835	20.00	7.00
Q1-10 Flow												
1.690	1.34	0.00	1.34	.1856	0.00067	NA	NA	NA	0.10	1.046	20.00	7.00
Q30-10 Flow												
1.690	2.84	0.00	2.84	.1856	0.00067	NA	NA	NA	0.15	0.712	20.00	7.00

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input checked="" type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input checked="" type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	<input type="checkbox"/>
D.O. Saturation	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	6		
Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	<input type="checkbox"/>
D.O. Saturation	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	5		

WQM 7.0 Wasteload Allocations

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>							
08C	26371	BEAVERDAM RUN							
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		
1.690	P. Galli SP	16.76	50	16.76	50	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		
1.690	P. Galli SP	1.89	25	1.89	25	0	0		
Dissolved Oxygen Allocations									
RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
1.69	P. Galli SP	25	25	10.68	10.68	4	4	0	0

WQM 7.0 D.O.Simulation

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>			
08C	26371	BEAVERDAM RUN			
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>		<u>Analysis pH</u>	
1.690	0.120	20.000		7.000	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>		<u>Reach Velocity (fps)</u>	
28.370	0.649	43.742		0.124	
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>		<u>Reach Kn (1/days)</u>	
3.88	0.564	0.87		0.700	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>		<u>Reach DO Goal (mg/L)</u>	
8.601	0.790	Tsivoglou		6	
<u>Reach Travel Time (days)</u>	Subreach Results				
0.835	TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)	
	0.084	3.70	0.82	8.16	
	0.167	3.53	0.78	7.77	
	0.251	3.37	0.73	7.43	
	0.334	3.21	0.69	7.13	
	0.418	3.06	0.65	6.87	
	0.501	2.92	0.61	6.65	
	0.585	2.79	0.58	6.46	
	0.668	2.66	0.55	6.30	
	0.752	2.54	0.51	6.17	
	0.835	2.42	0.49	6.06	

WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>			
08C		26371		BEAVERDAM RUN			
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
1.690	P. Galli SP	PA0032085	0.120	CBOD5	25		
				NH3-N	10.68	21.36	
				Dissolved Oxygen			4

Appendix A – WQM 7.0 Modeling – Winter Conditions

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
08C	26371	BEAVERDAM RUN	1.690	1384.00	42.30	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary		Stream	
									Temp (°C)	pH	Temp (°C)	pH
Q7-10	0.098	2.09	0.00	0.000	0.000	0.0	0.00	0.00	5.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
P. Galli SP	PA0032085	0.1200	0.1200	0.1200	0.000	15.00	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	4.00	12.51	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
08C	26371	BEAVERDAM RUN	0.000	1378.00	147.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary		Stream	
									Temp (°C)	pH	Temp (°C)	pH
Q7-10	0.128	9.53	0.00	0.000	0.000	0.0	0.00	0.00	5.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
P. Galli SP	PA0032085	0.1200	0.1200	0.1200	0.000	15.00	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	4.00	12.51	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

WQM 7.0 Hydrodynamic Outputs

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>								
08C		26371		BEAVERDAM RUN								
RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (°C)	Analysis pH
Q7-10 Flow												
1.690	2.09	0.00	2.09	.1856	0.00067	.649	28.37	43.74	0.12	0.835	5.82	7.00
Q1-10 Flow												
1.690	1.34	0.00	1.34	.1856	0.00067	NA	NA	NA	0.10	1.046	6.22	7.00
Q30-10 Flow												
1.690	2.84	0.00	2.84	.1856	0.00067	NA	NA	NA	0.15	0.712	5.61	7.00

WQM 7.0 Wasteload Allocations

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>					
08C		26371		BEAVERDAM RUN					
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		
1.690	P. Galli SP	24.1	50	24.1	50	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		
1.690	P. Galli SP	4.36	25	4.36	25	0	0		
Dissolved Oxygen Allocations									
RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
1.69	P. Galli SP	25	25	25	25	4	4	0	0

WQM 7.0 D.O.Simulation

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
08C	26371	BEAVERDAM RUN		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>	<u>Analysis pH</u>	
1.690	0.120	5.816	7.000	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>	<u>Reach Velocity (fps)</u>	
28.370	0.649	43.742	0.124	
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>	<u>Reach Kn (1/days)</u>	
3.88	0.668	2.04	0.235	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>	<u>Reach DO Goal (mg/L)</u>	
11.816	0.790	Tsivoglou	6	
<u>Reach Travel Time (days)</u>	Subreach Results			
0.835	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.084	3.77	2.00	11.22
	0.167	3.66	1.96	11.22
	0.251	3.55	1.92	11.01
	0.334	3.45	1.89	10.79
	0.418	3.35	1.85	10.59
	0.501	3.26	1.81	10.41
	0.585	3.16	1.78	10.25
	0.668	3.07	1.74	10.11
	0.752	2.98	1.71	9.98
	0.835	2.90	1.68	9.87

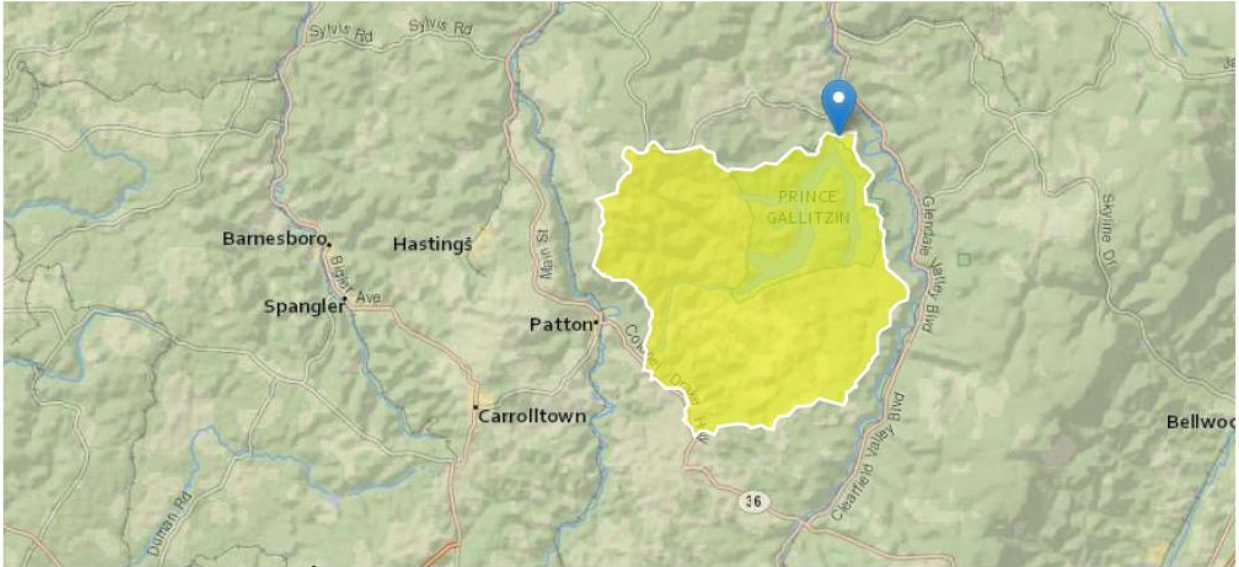
WQM 7.0 Effluent Limits

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>					
08C	26371	BEAVERDAM RUN					
<u>RMI</u>	<u>Name</u>	<u>Permit Number</u>	<u>Disc Flow (mgd)</u>	<u>Parameter</u>	<u>Effl. Limit 30-day Ave. (mg/L)</u>	<u>Effl. Limit Maximum (mg/L)</u>	<u>Effl. Limit Minimum (mg/L)</u>
1.690	P. Galli SP	PA0032085	0.120	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			4

Appendix B – StreamStats Report –

StreamStats Report

Region ID: PA
 Workspace ID: PA20220323142336690000
 Clicked Point (Latitude, Longitude): 40.70324, -78.53204
 Time: 2022-03-23 10:23:56 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	42.3	square miles
ELEV	Mean Basin Elevation	1638	feet
PRECIP	Mean Annual Precipitation	42	inches

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	42.3	square miles	2.33	1720
ELEV	Mean Basin Elevation	1638	feet	898	2700
PRECIP	Mean Annual Precipitation	42	inches	38.7	47.9

Low-Flow Statistics Flow Report [Low Flow Region 3]

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	4.51	ft ³ /s	43	43

Statistic	Value	Unit	SE	ASEp
30 Day 2 Year Low Flow	6.22	ft ³ /s	38	38
7 Day 10 Year Low Flow	2.09	ft ³ /s	54	54
30 Day 10 Year Low Flow	2.82	ft ³ /s	49	49
90 Day 10 Year Low Flow	4.1	ft ³ /s	41	41

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

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Application Version: 4.7.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2

Appendix C – eDMR for Ammonia 2017-2022 –



**National Pollutant Discharge Elimination System (NPDES)
Electronic Discharge Monitoring Report (eDMR)**

4/24/2022 6:01:05 PM

Region: SWRO
County: 11 - Cambria
Municipality: All
Permit #: PA0032085
Monitoring Period Date Range: 7/1/2017 To 4/1/2022
Client: All
Parameter: Ammonia-Nitrogen (00610)

Permit #: PA0032085		Facility Address: PRINCE GALLITZIN STATE PARK WWTP ACROSS SR 1021 FROM GLENDALE HS GLENDALE, PA 17074-9428	
Client ID / Name: 62644 - PA DCNR PRINCE GALLITZIN STATE PARK		County: Cambria	
Primary Facility ID / Name: 271316 - PRINCE GALLITZIN STATE PARK WWTP		Municipality: White Twp	
Major Facility: No		Latitude / Longitude: 40.7025 / -78.531944	
Region: SWRO			

Monitoring Period Begin Date	Monitoring Period End Date	DMR Received Date	Outfall	Discharge	Monitoring Location	Parameter Name	Parameter Code	DMR Value	Permit Limit	Units	Statistical Base Code
08/01/2017	08/31/2017	09/30/2017	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	17.64	Monitor and Report	mg/L	Average Monthly
09/01/2017	09/30/2017	10/20/2017	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	15.04	Monitor and Report	mg/L	Average Monthly
10/01/2017	10/31/2017	11/28/2017	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	18.25	Monitor and Report	mg/L	Average Monthly
11/01/2017	11/30/2017	12/19/2017	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	3.44	Monitor and Report	mg/L	Average Monthly
12/01/2017	12/31/2017	01/10/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.07	Monitor and Report	mg/L	Average Monthly
01/01/2018	01/31/2018	02/26/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 0.31	Monitor and Report	mg/L	Average Monthly
02/01/2018	02/28/2018	03/20/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 0.04	Monitor and Report	mg/L	Average Monthly
03/01/2018	03/31/2018	04/19/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.04	Monitor and Report	mg/L	Average Monthly
04/01/2018	04/30/2018	05/25/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.11	Monitor and Report	mg/L	Average Monthly

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**National Pollutant Discharge Elimination System (NPDES)
Electronic Discharge Monitoring Report (eDMR)**

4/24/2022 6:01:05 PM

05/01/2018	05/31/2018	06/21/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	11.35	Monitor and Report	mg/L	Average Monthly
06/01/2018	06/30/2018	07/17/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	3.63	Monitor and Report	mg/L	Average Monthly
07/01/2018	07/31/2018	08/20/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	2.4	Monitor and Report	mg/L	Average Monthly
08/01/2018	08/31/2018	09/25/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	2.25	Monitor and Report	mg/L	Average Monthly
09/01/2018	09/30/2018	10/23/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	1.34	Monitor and Report	mg/L	Average Monthly
10/01/2018	10/31/2018	11/26/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.43	Monitor and Report	mg/L	Average Monthly
11/01/2018	11/30/2018	12/18/2018	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.03	Monitor and Report	mg/L	Average Monthly
12/01/2018	12/31/2018	01/24/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 0.03	Monitor and Report	mg/L	Average Monthly
01/01/2019	01/31/2019	02/20/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 0.02	Monitor and Report	mg/L	Average Monthly
02/01/2019	02/28/2019	03/28/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 0.03	Monitor and Report	mg/L	Average Monthly
03/01/2019	03/31/2019	04/25/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 0.02	Monitor and Report	mg/L	Average Monthly
04/01/2019	04/30/2019	05/28/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 1.09	Monitor and Report	mg/L	Average Monthly
05/01/2019	05/31/2019	06/28/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	6.14	Monitor and Report	mg/L	Average Monthly
06/01/2019	06/30/2019	07/26/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.52	Monitor and Report	mg/L	Average Monthly
07/01/2019	07/31/2019	08/28/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	1.34	Monitor and Report	mg/L	Average Monthly
08/01/2019	08/31/2019	09/27/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	40.2	Monitor and Report	mg/L	Average Monthly
09/01/2019	09/30/2019	10/25/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	7.75	Monitor and Report	mg/L	Average Monthly
10/01/2019	10/31/2019	11/25/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	7.07	Monitor and Report	mg/L	Average Monthly

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National Pollutant Discharge Elimination System (NPDES)
Electronic Discharge Monitoring Report (eDMR)

4/24/2022 6:01:05 PM

11/01/2019	11/30/2019	12/27/2019	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	1.8	Monitor and Report	mg/L	Average Monthly
12/01/2019	12/31/2019	01/24/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	1.96	Monitor and Report	mg/L	Average Monthly
01/01/2020	01/31/2020	02/28/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.03	Monitor and Report	mg/L	Average Monthly
02/01/2020	02/29/2020	03/30/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.03	Monitor and Report	mg/L	Average Monthly
03/01/2020	03/31/2020	04/27/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 0.36	Monitor and Report	mg/L	Average Monthly
04/01/2020	04/30/2020	05/26/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	< 0.1	Monitor and Report	mg/L	Average Monthly
05/01/2020	05/31/2020	06/26/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	7.62	Monitor and Report	mg/L	Average Monthly
06/01/2020	06/30/2020	07/28/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	9.19	Monitor and Report	mg/L	Average Monthly
07/01/2020	07/31/2020	08/28/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	29.5	Monitor and Report	mg/L	Average Monthly
08/01/2020	08/31/2020	09/24/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	40.0	Monitor and Report	mg/L	Average Monthly
09/01/2020	09/30/2020	10/28/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	9.26	Monitor and Report	mg/L	Average Monthly
10/01/2020	10/31/2020	11/24/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	15.62	Monitor and Report	mg/L	Average Monthly
11/01/2020	11/30/2020	12/30/2020	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	7.07	Monitor and Report	mg/L	Average Monthly
12/01/2020	12/31/2020	01/27/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	3.16	Monitor and Report	mg/L	Average Monthly
01/01/2021	01/31/2021	02/27/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	3.78	Monitor and Report	mg/L	Average Monthly
02/01/2021	02/28/2021	03/26/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	8.0	Monitor and Report	mg/L	Average Monthly
03/01/2021	03/31/2021	04/26/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	2.14	Monitor and Report	mg/L	Average Monthly
04/01/2021	04/30/2021	06/01/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	7.38	Monitor and Report	mg/L	Average Monthly

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National Pollutant Discharge Elimination System (NPDES)
Electronic Discharge Monitoring Report (eDMR)

4/24/2022 6:01:05 PM

05/01/2021	05/31/2021	06/23/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	6.76	Monitor and Report	mg/L	Average Monthly
06/01/2021	06/30/2021	07/28/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	15.53	Monitor and Report	mg/L	Average Monthly
07/01/2021	07/31/2021	08/25/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	8.71	Monitor and Report	mg/L	Average Monthly
08/01/2021	08/31/2021	09/22/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	16.18	Monitor and Report	mg/L	Average Monthly
09/01/2021	09/30/2021	10/27/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	4.46	Monitor and Report	mg/L	Average Monthly
10/01/2021	10/31/2021	11/19/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	13.86	Monitor and Report	mg/L	Average Monthly
11/01/2021	11/30/2021	12/22/2021	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.14	Monitor and Report	mg/L	Average Monthly
12/01/2021	12/31/2021	01/27/2022	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	0.92	Monitor and Report	mg/L	Average Monthly
01/01/2022	01/31/2022	02/24/2022	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	2.69	Monitor and Report	mg/L	Average Monthly
02/01/2022	02/28/2022	03/28/2022	001	Yes	Final Effluent	Ammonia-Nitrogen	00610	1.55	Monitor and Report	mg/L	Average Monthly

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Appendix D – State Park Permit List & Requirements –

DCNR State Park Sewage Treatment Plants

DCNR Region	Park	Design Flow (MGD)	NPDES Permit Number	Permit Expiration Date	Op Cert Class	Municipal Contributors	Weekend Sampling Currently?	pH, DO and TRC Requirement for Renewed Permit
1	Black Moshannon	0.05 / 0.2	PA0032441	10/31/2014	D-1	Rush Twp.*	No (not a permit requirement; samples pulled when staffing permits)	1/day year round
	Bald Eagle	0.45 / 0.562	PA0032492	8/31/2016	C-1	Howard Bo. & Liberty Twp.	Yes	1/day year round
	Denton Hill	0.013	PA0032514	12/31/2015	D-1	None	Yes	1/day (May - Sep), 3/week (Oct - Apr)
	Hills Creek	0.02 / 0.07	PA0044547	6/30/2014	D-1	Charleston Twp.	Yes	1/day year round
	Kettle Creek - Lower Campground	0.0022	PA0228869	10/31/2015	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Mount Pisgah	0.02 / 0.06	PA0044652	1/31/2012	D-1	None	Permit requires 5 samples per week. Samples pulled on days STOP is working.	1/day (May - Sep), 3/week (Oct - Apr)
	Parker Dam	0.09	PA0044245	12/31/2014	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Reeds Gap	0.037	PA0032506	4/30/2016	D-1	None	Required by permit - done on weekends while seasonal staff on board.	1/day (May - Sep), 3/week (Oct - Apr)
2	Clear Creek (sub sand filter)	0.00535	PA0240001	12/06/12-renewal submitted	D-2	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Cook Forest	0.079	PA0032468	7/31/2016	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Keystone	0.075	PA0032271	7/31/2014		None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Laurel Hill	0.019	PA0032247	3/31/2014	C-1,3	None	No (not a permit requirement)	1/day (May - Sep), 3/week (Oct - Apr)
	Moraine	0.225 / 0.45	PA0032531	12/16/2006	C-1	Prospect Bo.	No	1/day year round
	Ohiopyle - Boater's Change House	0.008	PA0098521	11/30/2014	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Ohiopyle - Campground	0.04	PA0032425	11/30/2014	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Ohiopyle - Presley Ridge	0.0045	PA0046116	8/31/2015	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Oil Creek (sub sand filter)	0.002	PA0046039	6/30/2015	Not Required	None	No	1/week year round
	Presque Isle	0.0175	PA0032549	7/22/2013	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Raccoon Creek	0.1	PA0031984	7/31/2014	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Ryerson Station	0.007	PA0217841	11/30/2013	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Yellow Creek	0.313	PA0032263	11/31/16	C-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	3	Cance Creek	0.12	PA0044261	2/28/2017	C-1	Frankstown Twp.	No (not a permit requirement)
Cowans Gap		0.03	PA0032964	12/31/2012	D-1,2	None	No	1/day (May - Sep), 3/week (Oct - Apr)
Gifford Pinchot		0.216	PA0032000	2011 (in draft)	C-1	Wellsville Bo.*	Yes (DEP permits us to read sensors for weekend sampling)	1/day year round
Greenwood Furnace		0.015	PA0031992	10/31/2013	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
Little Buffalo		0.076	PA0031950	4/30/2013	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
Prince Gallitzin		0.12	PA0032085	9/30/2014	C-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
Shawnee		0.1	PA0032093	10/3/2016	D-1	Schellsburg Bo.	Required by permit - done Memorial Day through Labor Day weekends.	1/day year round
4	Beltzville	0.035	PA0032107	3/31/2017	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Frances Slocum	0.08	PA0032433	10/31/2015	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Hickory Run	0.066	PA0032999	11/30/2015	D-1,2	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Lackawanna	0.108	PA0032140	4/30/12 (in draft)	C-1	None	No (not a permit requirement)	1/day (May - Sep), 3/week (Oct - Apr)
	Locust Lake	0.047	PA0032131	1/31/2013	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Nockamixon	0.02	PA0042641	8/31/2014	D-1	Vo-Tech	No	1/day year round
	Promised Land	0.2	PA0032123	9/30/2013	C-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Ricketts Glen	0.105	PA0032115	6/30/2015	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)
	Tuscarora	0.026	PA0032077	10/31/2013	D-1	None	No	1/day (May - Sep), 3/week (Oct - Apr)

* Industrial contribution to plant from outside source(s).