pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Application Type	**Renewal**	Application No.	**PA0060305**
Facility Type	**Industrial**	APS ID	**1048215**
Major / Minor	**Minor**	Authorization ID	**1370300**

Applicant and Facility Information

Applicant Name	**PA DCNR**	Facility Name	**Mt. Pisgah State Park**
Applicant Address	28 Entrance Road	Facility Address	28 Entrance Road
	Troy, PA 16947-8506		Troy, PA 16947-8506
Applicant Contact	Layne Nolan (lanolan@pa.gov)	Facility Contact	Derek Parks (dparks@pa.gov)
Applicant Phone	(570) 297-2734	Facility Phone	(570) 297-2734
Client ID	52524	Site ID	245442
SIC Code	4941	Municipality	West Burlington Township
SIC Description	Trans. & Utilities - Water Supply	County	Bradford
Date Application Received	September 20, 2021	EPA Waived?	Yes
Date Application Accepted	September 27, 2021	If No, Reason	

Purpose of Application: Application for the renewal of an individual NPDES Permit for industrial waste.

Summary of Review

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.

This existing NPDES permit (PA0060305) is for the discharge of filter backwash to Mill Creek. The only treatment currently is approved under WQM Permit No. 0880206 and is achieved by a 1000-gallon settling tank. This NPDES permit will be terminated upon the completion of WQM Permit 0880206 A-1. That amendment permits the installation of a filter backwash infiltration system that will utilize components of the existing sewage WWTP to infiltrate the effluent in lieu of discharging.

Approve	Deny	Signatures	Date
X		*Jonathan P. Peterman* Jonathan P. Peterman / Project Manager	October 13, 2022
X		*Nicholas W. Hartranft* Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	October 17, 2022

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0002
Latitude	41º 48' 18.94"	Longitude	-76º 40' 16.93"
Quad Name	East Troy	Quad Code	0432
Wastewater Description:	IW Process Effluent without ELG		
Receiving Waters	Mill Creek (TSF)	Stream Code	30718
NHD Com ID	66400299	RMI	4.51 (for Mill Creek)
Drainage Area	10.5 mi^2 (@Mill Creek)	Yield (cfs/mi^2)	0.0042
Q_{7-10} Flow (cfs)	0.0441	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1102	Slope (ft/ft)	Undetermined
Watershed No.	4-C	Chapter 93 Class.	TSF
Existing Use	None	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status	N/A	Name	N/A
Nearest Downstream Public Water Supply Intake	Danville Municipal Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	1740
PWS RMI	124	Distance from Outfall (mi)	Approx. 180

Changes Since Last Permit Issuance: None.

Other Comments: The backwash discharge only occurs approximately three times per month for 20 minutes at a time. The discharge is to a vegetative area a few hundred feet from Mill Creek and likely evaporates or infiltrates prior to reaching Mill Creek.

Treatment Facility Summary

Treatment Facility Name: Mt. Pisgah State Park

WQM Permit No.	Issuance Date	Comments
0880206	01/14/81	Original permit.
0880206 A-1	6/7/22	A pool filter backwash treatment and infiltration disposal system.

Changes Since Last Permit Issuance: Previously, the treatment of the filter backwash, as approved under WQM Permit No. 0880206 was provided by a 1000-gallon settling tank and discharged. The pool filter backwash will now be infiltrated and an NPDES permit will no longer be required after construction is completed.

Other Comments: None.

Existing Effluent Limitations and Monitoring Requirements

Existing Limits – Outfall 001

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 Daily Max	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/week	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.2	1/week	Grab
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	1/month	Grab
Aluminum, Total	XXX	XXX	XXX	4.0	8.0 Daily Max	XXX	1/year	Grab
Iron, Total	XXX	XXX	XXX	2.0	4.0 Daily Max	XXX	1/year	Grab
Manganese, Total	XXX	XXX	XXX	1.0	2.0 Daily Max	XXX	1/year	Grab

*The existing effluent limits for Outfall 001 were based on a design flow of 0.0002 MGD.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.0002
Latitude 41º 48' 21.80" **Longitude** -76º 40' 11.90"
Wastewater Description: IW Process Effluent without ELG

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

Parameter	Limit (mg/l) (Average Monthly)	Limit (mg/l) (Daily Maximum)	Federal Regulation	State Regulation
pH	6-9 at all times	-	§133.102(c)	§95.2
TRC	0.5	-	-	§92a.48

Parameter	Limit (mg/l) (Average Monthly)	Limit (mg/l) (Daily Maximum)	Basis
TSS	30	60	These limits are derived from Guidance Document (392-2183-003) *Technology-Based Control Requirements for Water Treatment Plant.*
Iron (Total)	2.0	4.0	
Aluminum (Total)	4.0	8.0	
Manganese (Total)	1.0	2.0	
TRC	0.5	1.0	

Water Quality-Based Limitations
To establish whether or not water-quality based effluent limitations (WQBELs) are required, the Department models in-stream conditions. In order to determine limitations for toxics, the Department utilizes the Toxics Management Spreadsheet (TMS). The use of a WQM7.0 or TMS analysis is not required for this discharge.

Best Professional Judgment (BPJ) Limitations

Comments: None needed beyond the technology-based limitations noted above.

Anti-Backsliding

In accordance with 40 CFR 122.44(l)(1) and (2), this permit does not contain effluent limitations, standards, or conditions that are less stringent than the previous permit.

Chesapeake Bay

In accordance with the Phase III WIP Chesapeake Bay Strategy this facility has been identified previously by DEP as “insignificant dischargers” by virtue of having gross effluent discharges that do not exceed 75 lbs/day of TN or 25 lbs/day of TP. For these non-significant IW facilities, monitoring and reporting of TN and TP will be required throughout the permit term in renewed or amended permits anytime the facility has the potential to introduce a net TN or TP increase to the load contained within the intake water used in processing. No nutrient monitoring is required for this facility.

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 the abovementioned 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) and/or BPJ.

Proposed Limits - 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 Daily Max	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/week	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.2	1/week	Grab
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	1/month	Grab
Aluminum, Total	XXX	XXX	XXX	4.0	8.0 Daily Max	XXX	1/year	Grab
Iron, Total	XXX	XXX	XXX	2.0	4.0 Daily Max	XXX	1/year	Grab
Manganese, Total	XXX	XXX	XXX	1.0	2.0 Daily Max	XXX	1/year	Grab

*The proposed effluent limits for Outfall 001 were based on a design flow of 0.0002 MGD.

The existing monitoring frequencies and sample types for the abovementioned parameters are consistent with water treatment plant wastewater discharges and the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-4. The existing requirements will remain.

Flow
The existing reporting of average monthly and daily max flows is consistent with similar facilities and will remain.

pH
CFR Title 40 §133.102(c) and 25 PA Code §95.2(1) provide the basis of effluent limitations for pH.

Total Suspended Solids (TSS), Total Aluminum, Total Manganese, and Total Iron
The existing technology-based effluent limits for these parameters have been implemented in accordance with DEP Guidance Document (392-2183-003) *Technology-Based Control Requirements for Water Treatment Plants* and shall remain.

Total Residual Chlorine (TRC)
The Guidance Document (392-2183-003) stipulates that the monthly average limit for TRC should be 0.5 mg/L, but it also stipulates that the technology limit for TRC is required by former Section 93.5 of Title 25 of the Departments Regulations. It also refers to Section 93.5 and the Implementation Guidance for Total Residual Chlorine (TRC) Regulation for details on how to impose TRC limitations. The TRC model evaluation was conducted using the existing technology-based limit of 0.5 mg/l and the results indicate that the existing limit is protective of water quality. The existing TRC effluent limits will remain.

Compliance History

Summary of Inspections -The last inspection of the facility was conducted on 5/11/21 by the Department which reveals that there were no issues and the facility was operating normally.

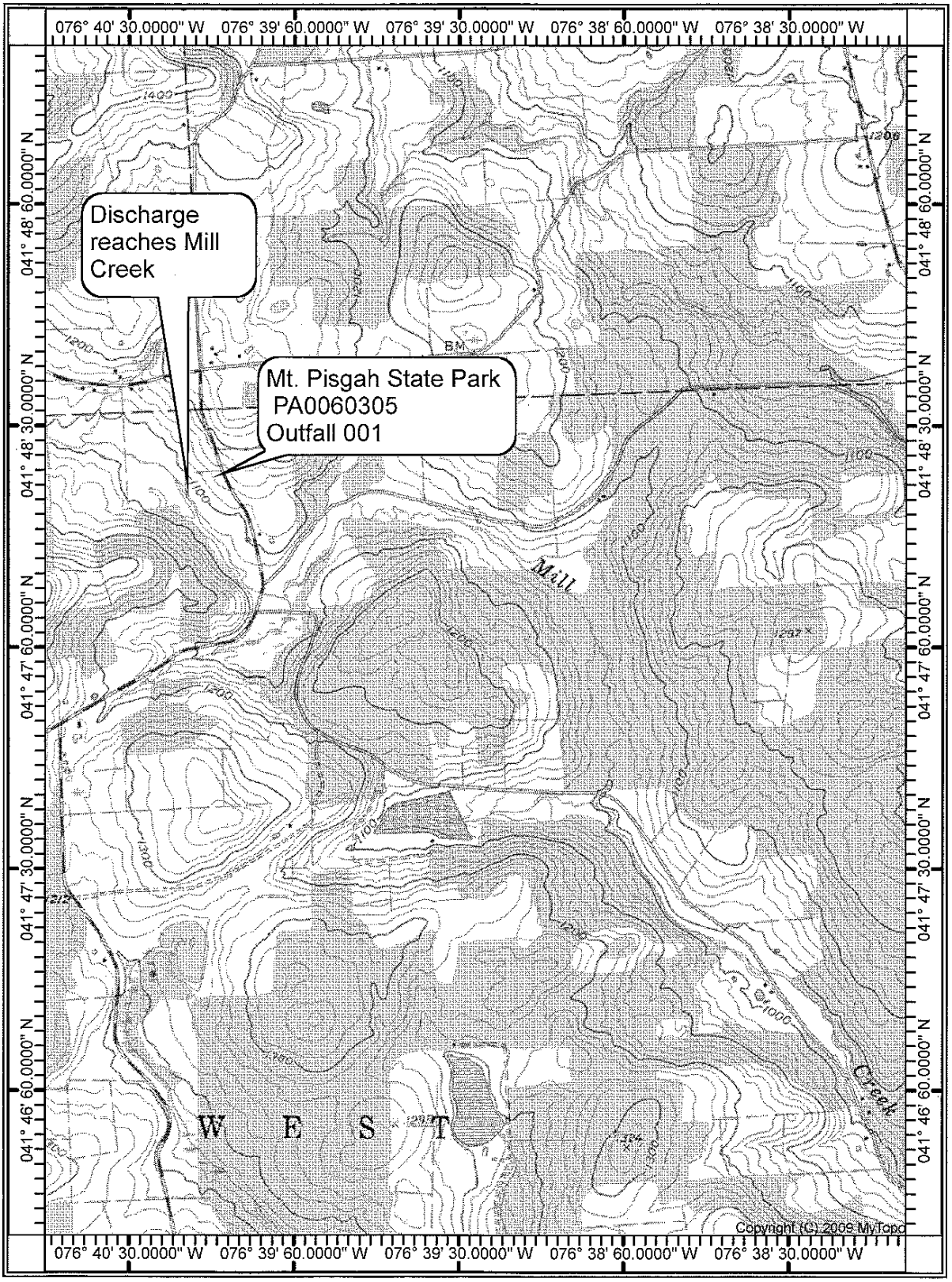
WMS Query Summary - A WMS Query was run at *Reports - Violations & Enforcements – Open Violations for Client Report* to determine whether there are any unresolved violations associated with the client that will affect issuance of the permit (per CSL Section 609). This query revealed no open violations for this facility. There were open violations for PA DCNR statewide, but this should not affect the issuance of this particular permit.

Compliance History

DMR Data for Outfall 001 (from September 1, 2021 to August 31, 2022)

Parameter	AUG-22	JUL-22	JUN-22	MAY-22	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21
Flow (MGD) Average Monthly	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002		0.000200	0.000200	0.000200	0.000200	0.000200
Flow (MGD) Daily Maximum	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002		0.000200	0.000200	0.000200	0.000200	0.000200
pH (S.U.) Minimum	8.1	8.0	7.9	8.0	8.0	7.8		8.1	8.0	8.0	8.2	7.9
pH (S.U.) Maximum	8.2	8.2	8.1	8.2	8.0	7.8		8.1	8.0	8.0	8.2	8.1
TRC (mg/L) Average Monthly	0.12	0.11	0.09	0.11	0.10	0.09		0.08	0.10	0.09	0.11	0.12
TRC (mg/L) Instantaneous Maximum	0.15	0.13	0.11	0.12	0.10	0.09		0.08	0.10	0.09	0.11	0.16
TSS (mg/L) Average Monthly	< 8	< 8	< 8	< 8	< 8	< 15		< 15	< 15	< 15	6	< 5
TSS (mg/L) Instantaneous Maximum	< 8	< 8	< 8	< 8	< 8	< 15		< 15	< 15	< 15	6	< 5
Total Aluminum (mg/L) Average Monthly									0.30			
Total Aluminum (mg/L) Daily Maximum									0.30			
Total Iron (mg/L) Average Monthly									0.10			
Total Iron (mg/L) Daily Maximum									0.10			
Total Manganese (mg/L) Average Monthly									0.12			
Total Manganese (mg/L) Daily Maximum									0.12			

Tools and References Used to Develop Permit	
☐	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.
☒	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.
☒	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.
☐	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.
☐	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
☒	Design Stream Flows, 391-2000-023, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
☒	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other:



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Feet