Pennsylvania Department of Environmental Protection

Northeast Regional Office
CLEAN WATER PROGRAM

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

Application Type	**Renewal**	Application No.	**PA0062421**
Facility Type	**Industrial**	APS ID	**852313**
Major / Minor	**Minor**	Authorization ID	**1473831**

Applicant and Facility Information

Applicant Name	**Jim Thorpe Borough Carbon County**	Facility Name	**Jim Thorpe Wastewater Treatment Plant**
Applicant Address	101 E 10th Street	Facility Address	700 W Broadway
	Jim Thorpe, PA 18229-2528		Jim Thorpe, PA 18229
Applicant Contact	Maureen Sterner	Facility Contact	Vince Yaich
Applicant Phone	(570) 325-3025	Facility Phone	(570) 325-2631
Client ID	118909	Site ID	250667
SIC Code	4941	Municipality	Jim Thorpe Borough
SIC Description	Trans. & Utilities - Water Supply	County	Carbon
Date Application Received	February 19, 2024	EPA Waived?	Yes
Date Application Accepted	February 19, 2024	If No, Reason	

Purpose of Application: Renewal of NPDES Industrial Emergency discharge for WTP

Summary of Review

The applicant is requesting the renewal of their NPDES Permit to authorize the emergency-only discharge of treated filter backwash water (up to 0.082 MGD) from the Borough of Jim Thorpe Water Treatment Plant into Mauch Chunk Creek, a CWF, MF receiving stream. This emergency-only discharge has not been used since 1999 as the Borough currently recycles the filter backwash water. Per the Department's current existing use list, the receiving stream has an existing use classification that is more protective than the designated use. Mauch Chunk Creek has been upgraded to an HQ-CWF-MF since July 21, 2025, which is more protective than its designated use.

In case any discharge goes to the Outfall 001 in the future, it will be subject to antidegradation analysis and the permittee will be required to submit the antidegradation Module1 with their application.

The discharge is not expected to affect public water supplies as this is the regional water company.

The technology-based limits for TSS, Iron (Total), Manganese (Total), pH, and TRC are consistent with Department guidance (Technology-Based Control Requirements for Water Treatment Plant Wastes, Doc. No. 362-2183-003) revised June 28, 2023, which states:

1 - These BPT technology-based effluent control requirements subject to water quality modelling are:

1) Filter backwash wastewater, or waste sludges generated from pre-sedimentation, coagulation/settling, water softening, or iron/manganese removal processes cannot be discharged to surface waters of the Commonwealth unless the following effluent quality can be achieved:

Approve	Deny	Signatures	Date
X		Hakim Yesli (signed) Hakim Yesli / Environmental Engineering Specialist	August 12, 2025
X		Edward Dudick, P.E. / Environmental Engineer Manager	August 13, 2025

Summary of Review

PARAMETER	MONTHLY AVERAGE (mg/l)	DAILY MAX (mg/l)
Suspended Solids	30	60
Iron (total)	2	4
Aluminum (total)	4	8
Manganese (total)	1	2
pH	6-9 (at all times)	

2- Wastewater from regeneration of ion-exchange softening units cannot be directly discharged to surface waters unless no other acceptable disposal options exist within the financial capability of the discharger.

The effluent limitations are consistent with the Lehigh River TMDL approved by EPA on July 7, 2009. Both the Jim Thorpe Municipal Authority and the Lehighton Water Authority are permitted industrial discharges. The waste load allocations for these permits were calculated using the permitted effluent limitations and the effluent discharge rates and are carried over from the existing Permit.

Water quality-based limits

The Total Aluminum (Avg Monthly 1.2 mg/L) effluent limitation is water quality based. All limits will be retained unchanged from the previous Permit.

USGS stream gage station # 01449000 is used to model the discharge since it is about 4.5 to 5.0 mile downstream of the discharge at Outfall 001.

Gage characteristics: DA= 489 mi^2; Q_{7-10}= 148 ft^3 /s LFY = 148 / 489 = 0.251 cfs/ mi^2

Q7-10 @ outfall 001 = 0.251 cfs/ mi^2 x 7.74 mi^2 = 1.94 cfs

RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

TRC spreadsheet was run and did not recommend more stringent effluent limit for total residual chlorine (see results attached).

Since it is emergency-only discharge, permittee has no data available; so toxic management system TMS was not run.

watershed Info for Jim Thorpe Boro W1

TRC spreadsheet calculations.pdf

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*

Summary of Review
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.	001	Design Flow (MGD)	0.082
Latitude	40Âº 51' 22.99"	Longitude	-75Âº 45' 53.00"
Quad Name	Nesquehoning	Quad Code	
Wastewater Description:	IW Process Effluent without ELG		

Receiving Waters	Maunch chunk Creek (CWF,MF)	Stream Code	4094
NHD Com ID	26288381	RMI	1.70
Drainage Area	7.74	Yield (cfs/mi^2)	0.251
Q_{7-10} Flow (cfs)	1.94	Q_{7-10} Basis	Gage station (01449000)
Elevation (ft)	836	Slope (ft/ft)	
Watershed No.	2-B	Chapter 93 Class.	CWF
Existing Use	HQ- CWF -MF (July 21, 2025)	Existing Use Qualifier	Class A Wild Trout Stream
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

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

Nearest Downstream Public Water Supply Intake
WRDS: 4094 RMI 1.70 HUC 8 Code: 02040106
USGS GAGE STATION.--01449000 LEHIGH RIVER at LEHIGHTON, PA
LOCATION.--Lat 40`49'45", long 75`42'20", Carbon County, Hydrologic Unit 02040106, on left bank 190 ft downstream from highway bridge at East Weissport, and 0.3 mi upstream from Mahoning Creek.
Dainage area : 589 square mile

PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	