Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0271667**
Facility Type	**Storm Water**	APS ID	**1109848**
Major / Minor	**Minor**	Authorization ID	**1477526**

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

Applicant and Facility Information

Applicant Name	**Penn United Technologies, Inc.**	Facility Name	**Penn United Tech Complex**
Applicant Address	PO Box 399	Facility Address	799 N Pike Road
	Saxonburg, PA 16056-0399		Cabot, PA 16023-2223
Applicant Contact	Steve Berteotti	Facility Contact	
Applicant Phone	(724) 352-1507	Facility Phone	
Client ID	24924	Site ID	270985
SIC Code	3471,3544	Municipality	Jefferson Township
SIC Description	Manufacturing - Electroplating, Plating, Polishing, Anodizing, and Coloring, Manufacturing - Special Dies, Tools, Jigs, And Fixture	County	Butler
Date Application Received	February 14, 2024	EPA Waived?	Yes
Date Application Accepted	March 28, 2024	If No, Reason	

Purpose of Application: Renewal of a NPDES Permit for an existing discharge of industrial stormwater

Summary of Review

This facility is engaged in the manufacture of the production of dies, machined parts and components. The activities are all conducted under roof and include die and parts manufacturing, metal grinding and finishing, electroplating, mechanical stamping, off-loading loading.

The permittee originally applied for a No Exposure Certification in June 2017 for this facility. That application was denied due to the facility being in a high quality – designated watershed, which requires an individual permit and an anti-degradation review.

There are currently no open violations listed in EFACTS for the permittee (2/24/2025).

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.

Approve	Deny	Signatures	Date
X		Adam J. Pesek Adam J. Pesek, E.I.T. / Project Manager	February 24, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	March 6, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	006	Design Flow (MGD)	0
Latitude	40º 47' 0.99"	Longitude	79º 47' 41.78"
Outfall No.	008	Design Flow (MGD)	0
Latitude	40º 46' 56.26"	Longitude	79º 47' 43.1"
Quad Name	Saxonburg	Quad Code	1207
Wastewater Description:	Stormwater associated with industrial activities		
Receiving Waters	Unnamed Tributary to Little Buffalo Creek	Stream Code	42589
NHD Com ID	123973207	RMI	1.02
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	18-F	Chapter 93 Class.	HQ-TSF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	HABITAT ALTERATIONS, NUTRIENTS		
Source(s) of Impairment	AGRICULTURE, ON-SITE TREATMENT SYSTEMS (SEPTIC SYSTEMS AND SIMILAR DECENTRALIZED SYSTEMS), REMOVAL OF RIPARIAN VEGETATION		
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°F)	25	Default

Nearest Downstream Public Water Supply Intake		Harrison Township Water Authority	
PWS Waters	Allegheny River	Flow at Intake (cfs)	
PWS RMI	24.2	Distance from Outfall (mi)	17.4

Changes Since Last Permit Issuance: None

Compliance History	
Summary of DMRs:	No violations as there are no limits, only benchmark values. Benchmark values have not been exceeded. One isolated exceedance of the TSS benchmark value occurred in the last half of the 2024 monitoring period (344 mg/l).
Summary of Inspections:	Site inspection was last conducted on 7/2/2021. No issues or violations were discovered during that inspection.

Other Comments:

Compliance History

DMR Data for Outfall 006 (from January 1, 2024 to December 31, 2024)

Parameter	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24
pH (S.U.) Daily Maximum	7.06						7.23					
TSS (mg/L) Daily Maximum	344						19					
Nitrate-Nitrite (mg/L) Daily Maximum	3.26						1.02					
Total Aluminum (mg/L) Daily Maximum	1.31						1.20					
Total Iron (mg/L) Daily Maximum	0.94						0.802					
Total Zinc (mg/L) Daily Maximum	0.011						0.015					

DMR Data for Outfall 008 (from January 1, 2024 to December 31, 2024)

Parameter	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24
pH (S.U.) Daily Maximum	7.19						7.49					
TSS (mg/L) Daily Maximum	< 5						11					
Nitrate-Nitrite (mg/L) Daily Maximum	< 0.104						0.315					
Total Aluminum (mg/L) Daily Maximum	0.037						0.383					
Total Iron (mg/L) Daily Maximum	0.43						0.332					
Total Zinc (mg/L) Daily Maximum	< 0.01						0.016					

Development of Effluent Limitations

Outfall No.	006	**Design Flow (MGD)**	0
Latitude	40º 47' 0.99"	**Longitude**	79º 47' 41.78"
Outfall No.	008	**Design Flow (MGD)**	0
Latitude	40º 46' 56.26"	**Longitude**	79º 47' 43.1"

Technology-Based Limitations

Comments: N/A

Water Quality-Based Limitations

Comments: No water quality modeling was conducted due to this being a discharge of stormwater only.

Best Professional Judgment (BPJ) Limitations

Comments: Monitoring requirements and benchmark values found in the PAG-03 General Permit, Appendix U – Fabricated Metal Products will be placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Industrial Permits."

Anti-Backsliding

Comments: N/A

Anti-Degradation

Comments: The Department previously determined that the permittee meet anti-degradation requirements of Chapter 93.4 by implementing and exceeding a structural BMP in the "Pennsylvania Stormwater BMP Manual (DEP ID: 363-0300-002)" (utilizing dry extended detention basins) and by demonstrating a condition of "No Exposure" through plant layout and application analytical. The dry extended detention basins in place are designed to handle runoff from a 25-year, 24-hour storm event (100-year, 24-hour storm event at Pond No. 4 (Outfall 008)), which would maintain the hydrograph, not increase total runoff volume through a 2-year, 24-hour event, and not increase total stormwater runoff for the 1-100 year, 24 hour storm event, thus achieving ABACT performance targets. By also demonstrating a condition of "No Exposure," any discharge that would occur to the high-quality designated surface waters would be considered "Non-Degrading." A Social and Economic Justification were not required since the discharges are considered "Non-Degrading."

Other Considerations

The receiving stream is impaired due to habitat alterations and nutrients, contributed mainly by agriculture, onlot septic systems, and loss of riparian vegetation. The Department believes that stormwater from this site does not have a significant impact on the stream impairment for reasons discussed in the anti-degradations section above (stormwater retention and condition of "No Exposure").

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 006, 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	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 006 (prior to mixing with any other waters)

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 008, 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	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 001 (prior to mixing with any other waters)


Untitled Map
Write a description for your map.
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