

Application Type Renewal
Facility Type Storm Water
Major / Minor Minor

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

Application No. PA0267201
APS ID 1020068
Authorization ID 1534625

Applicant and Facility Information

Applicant Name	<u>Pyrotek Inc.</u>	Facility Name	<u>Pyrotek Inc.</u>
Applicant Address	<u>1285 Claremont Road</u> <u>Carlisle, PA 17015-9727</u>	Facility Address	<u>1285 Claremont Road</u> <u>Carlisle, PA 17015-9727</u>
Applicant Contact	<u>Darren Snow</u>	Facility Contact	<u>Darren Snow</u>
Applicant Phone	<u>(717) 240-4181</u>	Facility Phone	<u>(717) 240-4181</u>
Client ID	<u>24267</u>	Site ID	<u>264041</u>
SIC Code	<u>3297</u>	Municipality	<u>Middlesex Township</u>
SIC Description	<u>Manufacturing - Nonclay Refractories</u>	County	<u>Cumberland</u>
Date Application Received	<u>July 16, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>July 30, 2025</u>	If No, Reason	<u></u>
Purpose of Application	<u>NPDES discharge of stormwater associated with industrial activity.</u>		

Summary of Review

This is a renewal application for a NPDES individual permit for discharges of stormwater associated with industrial activity located in Middlesex Township, Cumberland County. See Figure 1 for a Site Plan.

The facility's SIC code is 3297 (Manufacturing – Nonclay Refractories) which requires a NPDES permit for discharges of stormwater associated with industrial activity. Since the facility discharges to a High Quality (HQ) surface water, the facility does not qualify for a PAG-03 general permit. Therefore, the facility must be covered under an individual permit for discharges of stormwater associated with industrial activity. If the facility qualified for a PAG-03, they would fall under Appendix N (Glass, Clay, Cement, Concrete and Gypsum Products) based on their SIC code.

Facility Description: The facility operates as a manufacturer of refractory materials for metal melting furnaces and for forge applications. The facility is composed of six interconnected single-story buildings: the main office/storage building, a warehouse, and two manufacturing buildings. The property is 6.66 acres in size.

A renewal application was received on 7/16/2025 via PUP 331776. The application was deemed complete on 7/30/2025.

Constructed ridges to the north of the facility and a raised roadway to the south isolate runoff to and from the Site. The facility has two outfalls: Outfall 001 and Outfall 002. There are multiple onsite drains that lead to the ultimate discharge points from the property. Outfall 001 is located at the discharge pipe to the stormwater basin with a supplemental drain from the back of the facility, base of the slope behind the facility. Outfall 002 is to the east of the warehouse with a supplemental drain (manway) on the eastern side of the east access room. The facility is bordered by agricultural fields to the south and east, and light manufacturing to the north and west.

The PPC Plan was last updated April 2025.

Approve	Deny	Signatures	Date
X		Jacob S. Rakowsky Jacob S. Rakowsky, E.I.T. / Project Manager	8/20/2025
X		Scott M. Arwood Scott M. Arwood, P.E. / Environmental Engineer Manager	8/20/2025

Summary of Review

Part C permit conditions require semi-annual site inspections as well as implementation of BMPs and implementation of the facility PPC Plan. Given the BMPs in place, the discharge is not expected to have any measurable effect on the water quality of the receiving stream.

EPA waiver is in effect.

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.	001	Design Flow (MGD)	N/A (stormwater)
Latitude	40° 13' 26.35"	Longitude	-77° 7' 51.26"
Wastewater Description: Stormwater associated with industrial activity.			
Receiving Waters	Unnamed Tributary to Letort Spring Run (HQ-CWF, MF)	Stream Code	10262
NHD Com ID	56405535	RMI	0.42
Drainage Area	1.88 sq. mi.	Yield (cfs/mi ²)	
Q ₇₋₁₀ Flow (cfs)	17.1	Q ₇₋₁₀ Basis	StreamStats
Watershed No.	7-B	Chapter 93 Class.	HQ-CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	PA American Water Co West		
PWS Waters	Conodoguinet Creek	Municipality	Silver Spring Twp, Cumberland
PWS RMI	19.05	Distance from Outfall (mi)	15.4

Drainage Area (sf): 169,884

% Impervious: 69%

Description of Materials/Activities in Drainage Area Exposed to Precipitation:

Roof runoff, paving, employee parking lot, site traffic, dust collector and residual waste rollofs.

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:

No treatment onsite – best management practices, all raw materials and waste materials are kept in the proper/closed containers, wastes are kept under roof for storage, regular inspections occur of the various buildings onsite to ensure no releases, any particulates from dust collectors are addressed immediately. Logs and inspections are maintained, and spill kits are kept onsite to ensure prompt cleanup.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	002	Design Flow (MGD)	N/A (stormwater)
Latitude	40° 13' 27.56"	Longitude	-77° 7' 51.48"
Wastewater Description: Stormwater associated with industrial activity.			
Receiving Waters	Unnamed Tributary to Letort Spring Run (HQ-CWF, MF)	Stream Code	10262
NHD Com ID	56405535	RMI	0.42
Drainage Area	1.88 sq. mi.	Yield (cfs/mi ²)	
Q ₇₋₁₀ Flow (cfs)	17.1	Q ₇₋₁₀ Basis	StreamStats
Watershed No.	7-B	Chapter 93 Class.	HQ-CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	PA American Water Co West		
PWS Waters	Conodoguinet Creek	Municipality	Silver Spring Twp, Cumberland County
PWS RMI	19.05	Distance from Outfall (mi)	15.4

Drainage Area: 117,612 sq ft

% Impervious: 41%

Description of Materials / Activities in Drainage Area Exposed to Precipitation:
Roof runoff, minimal paving, no production activities.

Description of Treatment or BMPs in Drainage Area to Control Pollutants in Stormwater:
No treatment onsite – best management practices, no exterior operations or storage.

Compliance History	
Summary of DMRs:	<p>A summary of eDMR data can be found in Table 1 and Table 2 below. A summary of application sampling can be found in Table 3 below.</p> <p>Since the receiving water is a supporting stream, the facility was not required to submit impairment sampling results. The discharge is not expected to cause or contribute to an impairment.</p> <p>The facility is up to date on their eDMR submissions.</p>
Summary of Inspections:	<p>The facility was last inspected on 1/24/2023. No violations were noted.</p> <p>The client currently has no open violations that should affect issuance of the final permit.</p>

Table 1. Last 2 Years of eDMR Sampling Results for Outfall 001

Outfall 001	pH (S.U.)	TSS (mg/L)	Total Iron (mg/L)	Total Aluminum (mg/L)
1st Half 2025	7.42	13	0.001	0.001
2nd Half 2024	6.42	2	0.001	0.001
1st Half 2024	6.92	4	0.042	0.055
2nd Half 2023	6.67	1	0.036	0.001
Avg.	6.8575	5	0.02	0.0145
Max.	7.42	13	0.042	0.055

Table 2. Last 2 Years of eDMR Sampling Results for Outfall 002

Outfall 002	pH (S.U.)	TSS (mg/L)	Total Iron (mg/L)	Total Aluminum (mg/L)
1st Half 2025	7.45	26	0.68	0.42
2nd Half 2024	6.44	1	0.001	0.001
1st Half 2024	6.71	5	0.048	0.055
2nd Half 2023	7.56	3	0.056	0.01
Avg.	7.04	8.75	0.19625	0.1215
Max.	7.56	26	0.68	0.42

Table 3. Application Sampling Results

Pollutant	Outfall 001	Outfall 002
Oil and Grease (mg/L)	ND	ND
BOD5 (mg/L)	4.6	5.6
COD (mg/L)	78	26
TSS (mg/L)	10	19
TN (mg/L)	0.48	0.47
TP (mg/L)	0.017	0.027
pH (S.U.)	8.27	7.94

Summary of Sampling Results:

No values exceeded typical PAG-03 benchmarks or permit limits in Tables 1 through 3 above. The applicable PAG-03 benchmarks include: 30 mg/L for Oil and Grease; 30 mg/L for BOD5; 120 mg/L for COD; 100 mg/L for TSS; 9.0 S.U. for pH. The previous permit did not include limits.

Based on the facility's **SIC code of 3297**, the applicable PAG-03 NPDES Permit for Discharges of Stormwater Associated with Industrial Activity (effective 3/24/2023) appendix is **Appendix N**, which would include semiannual monitoring of TN, TP, pH, TSS, Total Aluminum, and Total Iron.

Proposed Effluent Limitations and Monitoring Requirements

All parameters from the current PAG-03 Appendix N are included in this permit for Outfall 001 and Outfall 002.

Table 4. Proposed Monitoring Requirements for Outfall 001 and Outfall 002.

Parameter	Effluent Limitations				Monitoring Requirements ^{(1),(2)}	
	Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Nitrogen (mg/L) ⁽³⁾	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
pH (S.U.)	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids (TSS) (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron (mg/L)	XXX	XXX	Report	XXX	1/6 months	Grab

Footnotes

- (1) In accordance with Part C V.C., the permittee shall conduct additional monitoring if specified by DEP in the letter authorizing permit coverage or other correspondence.
- (2) This is the minimum number of sampling events required. Permittees may optionally perform additional sampling.
- (3) Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO₂+NO₃-N), where TKN and NO₂+NO₃-N are measured in the same sample.

Benchmarks for pH of 9.0 S.U. and TSS of 100 mg/L are included, which is typical of the monitoring requirements for PAG-03 Appendices (effective 3/24/2023).

The BMPs from Appendix N are included.

The requirement to submit an Annual Report is included.

The requirement for routine inspections on a semiannual basis is included.

Antidegradation (93.4):

The applicant is not proposing a new or increased discharge to HQ or EV waters, so Module 1 (Anti Degradation Module) was not required with this application.

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. Best Management Practices will ensure that the existing instream uses are protected. No Exceptional Value Waters are impacted by this discharge.

The designated use of the receiving waters are as follows:

UNT 10262 to Letort Spring Run (HQ-CWF, MF)



Figure 1. Site Plan