

Application Type Renewal
Facility Type Storm Water
Major / Minor Minor

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

Application No. PA0056561
APS ID 1129590
Authorization ID 1513641

Applicant and Facility Information

Applicant Name	<u>Armstrong Engineering Assoc Inc.</u>	Facility Name	<u>Romansville Shop</u>
Applicant Address	<u>1845 W Strasburg Road</u> <u>Coatesville, PA 19320-4814</u>	Facility Address	<u>1845 W Strasburg Road</u> <u>Coatesville, PA 19320-4814</u>
Applicant Contact	<u>Tyler Beckwith</u>	Facility Contact	<u>Tyler Beckwith</u>
Applicant Phone	<u>(610) 486-0767</u>	Facility Phone	<u>(610) 486-0767</u>
Client ID	<u>305360</u>	Site ID	<u>456338</u>
SIC Code	<u>3567</u>	Municipality	<u>West Bradford Township</u>
SIC Description	<u>Manufacturing - Industrial Furnaces And Ovens</u>	County	<u>Chester</u>
Date Application Received	<u>January 7, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit Renewal.</u>		

Summary of Review

The applicant requests renewal of an NPDES permit to discharge stormwater from an existing technology company specializing in fabrication of process heat transfer equipment.

There are two outfalls located on this site (001 and 002). Outfall 001 flows to the north side of the property towards Broad run, a designated Exceptional Value, Migratory Fishes (EV, MF) stream under Chapter 93. Outfall 002 flows to the south side of the property towards an unnamed tributary to West Branch Brandywine Creek a designated Warm Water Fishes, Migratory Fishes (WWF, MF) stream under Chapter 93.

According to the application and the Operations report, the facility is in compliance with the permit requirements.

Based on the review of the previous records, the facility had difficulties in stormwater sample collection as the majority of stormwater generated at the site does not reach sampling points due to large overland flows. Most stormwater infiltrates into ground surface during wet weather events. Only a significant wet weather event generates stormwater sufficient for the collection of a stormwater sample at the two outfall locations. Based on the unique circumstances of the facility layout and the infrequent nature of the discharge, annual stormwater monitoring requirement is continued in the new permit. Previous fact sheet states that correspondence from DEP in 1999 advised that the intent of the 30-minute grab was to acquire a characteristic sample of any sediment or particulates that may have accumulated on the site. If no stormwater runoff leaves the site within the first 30 minutes of a storm event, then sample should be collected as soon as sufficient volume does leave the property, to provide a representative sample of the typical runoff.

Monitoring requirement for the appropriate stormwater parameters Oil and Grease, BOD5, COD, TSS, Total Nitrogen, Total Phosphorus and pH are included in the new permit. These parameters are consistent with the current permit application requirement. Benchmark values for TSS, COD, BOD5 and Oil & Grease are included in Part C of the permit.

Approve	Deny	Signatures	Date
X		<i>Christian French</i> Christian French / Environmental Engineering Specialist	March 13, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineering Manager	March 18, 2025

Summary of Review

This discharge is identified in Summary Table 15 of the report on the Christina River Basin TMDL for Low Flow Conditions, approved by EPA but industrial stormwater-only discharges were indicated to be not affected by the TMDLs and waste load was not allocated.

Act 14 Notifications:

East Bradford Township - December 13, 2024
Chester County - December 13, 2024

Permit Conditions:

- A. Stormwater Outfalls
- B. Best Management Practices
- C. Routine Inspections
- D. PPC Plan
- E. Stormwater Monitoring
- F. Acquire Necessary Property Rights
- G. Proper Sludge Disposal

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</u>
Latitude	<u>39° 57' 18.60"</u>	Longitude	<u>-75° 43' 52.82"</u>
Quad Name	<u>Unionville</u>	Quad Code	<u>1940</u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters <u>Broad Run (EV, MF)</u>		Stream Code <u></u>	
NHD Com ID	<u>26106552</u>	RMI	<u>3.3300</u>
Watershed No.	<u>3-H</u>	Chapter 93 Class.	<u>EV, MF</u>
Assessment Status	<u>Attaining Use(s)</u>		
TMDL Status	<u>Final</u>	Name	<u>Christina River Basin</u>

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>002</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>39° 56' 56.52"</u>	Longitude	<u>-75° 44' 14.25"</u>
Quad Name	<u>Unionville</u>	Quad Code	<u>1940</u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters <u>Unnamed Tributary to West Branch Brandywine Creek (WWF, MF)</u>		Stream Code <u>00117</u>	
NHD Com ID	<u>26106612</u>	RMI	<u>1.1200</u>
Watershed No.	<u>3-H</u>	Chapter 93 Class.	<u>WWF, MF</u>
Assessment Status	<u>Attaining Use(s)</u>		
TMDL Status	<u>Final</u>	Name	<u>Christina River Basin</u>

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
pH (S.U.) Daily Maximum		6.79										
BOD5 (mg/L) Daily Maximum		5.9										
COD (mg/L) Daily Maximum		< 25										
TSS (mg/L) Daily Maximum		24										
Oil and Grease (mg/L) Daily Maximum		< 5										
Total Nitrogen (mg/L) Daily Maximum		< 0.5										
Total Phosphorus (mg/L) Daily Maximum		0.07										

DMR Data for Outfall 002 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
pH (S.U.) Daily Maximum		6.3										
BOD5 (mg/L) Daily Maximum		18.6										
COD (mg/L) Daily Maximum		208										
TSS (mg/L) Daily Maximum		11										
Oil and Grease (mg/L) Daily Maximum		< 5										
Total Nitrogen (mg/L) Daily Maximum		1.72										
Total Phosphorus (mg/L) Daily Maximum		1.25										

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 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	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/year	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

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Outfall 002, 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/year	Grab
BOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/year	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab