Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0296228**
Facility Type	**Storm Water**	APS ID	**1148048**
Major / Minor	**Minor**	Authorization ID	**1545269**

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

Applicant and Facility Information

Applicant Name	**Coherent Inc.**	Facility Name	**Coherent Inc.**
Applicant Address	375 Saxonburg Boulevard	Facility Address	375 Saxonburg Boulevard
	Saxonburg, PA 16056-9430		Saxonburg, PA 16056
Applicant Contact	Rudy Huskuliak	Facility Contact	
Applicant Phone	(724) 360-5837	Facility Phone	
Applicant Email	rudy.huskuliak@coherent.com		
Client ID	66106	Site ID	257352
SIC Code	3827, 2819	Municipality	Clinton Township
SIC Description	Manufacturing - Optical Instruments and Lenses, Manufacturing - Process Control Instruments, Manufacturing - Semiconductors and Related Devices	County	Butler
Date Application Received	October 9, 2025	EPA Waived?	Yes
Date Application Accepted	October 23, 2025	If No, Reason	

Purpose of Application: New NPDES Permit Coverage for the Discharge of Stormwater Associated with Industrial Activity

Summary of Review

This is a new NPDES permit application for the Coherent Corp Saxonburg Plant Facility for the discharge of stormwater associated with industrial activity. The Coherent campus consists of 10 buildings on an approximately 64-acre site. Nine of the buildings are located on the west side of the property. The 10th building is located on the east side of the property. There are two vehicle entrances to the property from Saxonburg Boulevard. There are five parking lots situated on the western side of the facility and two parking lots located on the eastern side. A connecting road links both sides of the property. Additionally, routine truck traffic for shipping and receiving operations occurs outside the buildings.

Historically, the site was used for agricultural purposes before being developed in the 1980s into a research and industrial facility. Until recently, some areas of the property were still fertilized and used for agricultural activities, including hay harvesting (located within Outfall 006 Basin). Currently, the facility is dedicated to the manufacturing of laser optics, optical materials, and related devices.

Throughout the facility, there are seventeen oil storage containers containing various materials, including diesel, mineral oil, compressor oil, waste oil, vacuum pump waste oil, mineral spirits, and hydraulic oil.

The site was previously covered under No Exposure Certification since 2007. The site is currently required to submit an individual NPDES permit application because the discharge from Outfall 006 is to Unnamed Tributary to Sarver Run which is a surface water classified as a High-Quality watershed (Title 25 Chapter 92a.54.e.9.). The site has two stormwater outfalls. The drainage area of Outfall 001 consists of drains from employee parking lot, industrial equipment, moving sealed drums and shipping boxed products. The drainage area of Outfall 006 consists of drains from employee parking lot, industrial equipment and moving sealed drums.

Approve	Deny	Signatures	Date
X		Aeshah Shameseldin Aeshah Shameseldin / Project Manager	November 12, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	November 13, 2025

Summary of Review

Based on the site description provided in the application and the reported stormwater discharge concentrations; the site currently meets no exposure conditions. By meeting the no exposure conditions, the stormwater discharges from the site are considered non-degrading quality and thus are not expected to negatively impact the receiving stream. To ensure continued compliance with non-degrading conditions, annual monitoring of the parameters of concern in the PAG-03 application appendices will be imposed. Because the site has demonstrated its ability to maintain non-degrading conditions, no benchmark values or corrective action plan requirements will be included in Part C of the permit. During the next permit renewal, the DMRs will be reviewed to confirm whether the site has continued to meet non-degrading conditions and to determine whether benchmark values, corrective action plans or both need to be implemented.

Act 14 – Proof of Notification was submitted and received.

SPECTIAL CONDITIONS: NONE

There are **2** open violations in WMS for the subject Client ID (66106) as of November 12, 2025, associated with Air Quality Program.

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)	0
Latitude	40º 44' 1.8"	Longitude	-79º 49' 12.01"
Quad Name	Curtisville	Quad Code	40079F7
Wastewater Description:	Stormwater		
Receiving Waters	Unnamed Tributary of Davis Run (CWF)	Stream Code	35227
NHD Com ID	126217714	RMI	0.44
Drainage Area	0.0627 square miles	Yield (cfs/mi^2)	---
Q_{7-10} Flow (cfs)	0	Q_{7-10} Basis	Dry Stream
Elevation (ft)	1287	Slope (ft/ft)	---
Watershed No.	20-C	Chapter 93 Class.	CWF
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	---

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°F)	68	Default
Hardness (mg/L)	100	Default
Other:	---	---

Nearest Downstream Public Water Supply Intake		Pennsylvania American Water Company - Ellwood City	
PWS Waters	Connoquenessing Creek	Flow at Intake (cfs)	---
PWS RMI	0.2	Distance from Outfall (mi)	48.5

Other Comments: The Unnamed Tributary of Davis Run—the receiving water for discharges from Outfall 001—is impaired by Siltation but the subject facility is not expected to be a cause or source of the impairment.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	006	Design Flow (MGD)	0
Latitude	40º 43' 47.39"	Longitude	-79º 48' 39.65"
Quad Name	Curtisville	Quad Code	40079F7
Wastewater Description:	Stormwater		
Receiving Waters	Unnamed Tributary to Sarver Run (HQ-TSF)	Stream Code	42579
NHD Com ID	123971222	RMI	0.8700
Drainage Area	0.0719 square miles	Yield (cfs/mi^2)	---
Q_{7-10} Flow (cfs)	0	Q_{7-10} Basis	Dry Stream
Elevation (ft)	1295	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	Attaining Use(s)		
Cause(s) of Impairment	---		
Source(s) of Impairment	---		
TMDL Status	---	Name	---

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°F)	77	Default
Hardness (mg/L)	100	Default
Other:	---	---

Nearest Downstream Public Water Supply Intake		Aqua Pennsylvania, Inc. - Emlenton	
PWS Waters	Allegheny River	Flow at Intake (cfs)	---
PWS RMI	90.0	Distance from Outfall (mi)	231.9

Other Comments: None.

Changes Since Last Permit Issuance

Since the previous No Exposure Certification renewal in 2017, significant modifications have been made to the on-site stormwater management system. In 2024, the former stormwater lines and multiple inlet structures associated with Stormwater Management Facility #1 (Outfall 001) were replaced. Additionally, the stormwater lines and catchments that previously discharged to Outfalls 002 and 003 were redirected to discharge through Stormwater Management Facility #1 (Outfall 001). As a result, the outlet structures for Outfalls 002 and 003 were removed.

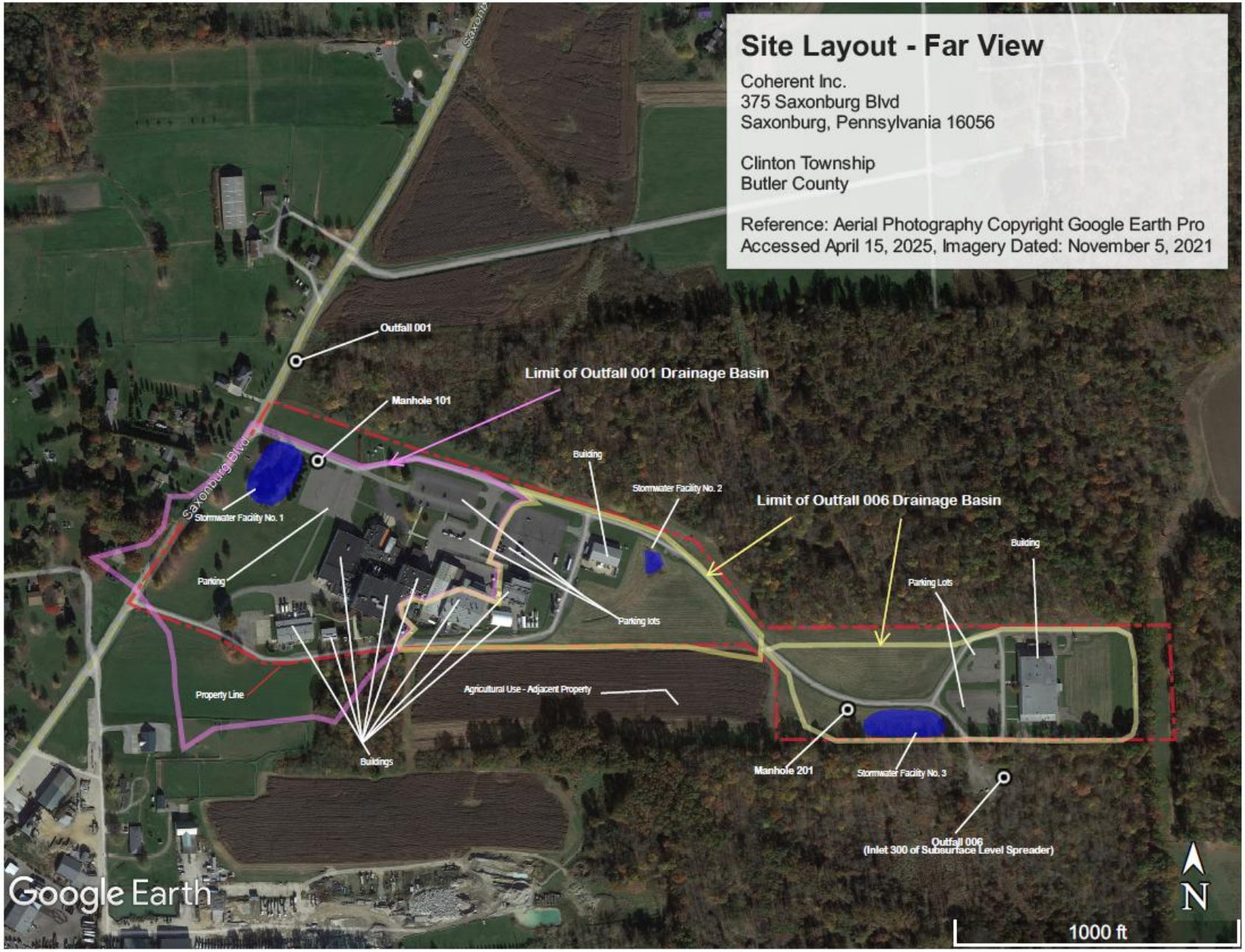
In addition, infrastructure components including pipes, inlets, riprap, and endwall previously associated with Outfall 004 were also removed. Stormwater from this area is now routed to Stormwater Management Facility #2. A new stormwater line was also constructed to connect Stormwater Management Facility #2 with Stormwater Management Facility #3, located to the east. The former pipe connected to Stormwater Management Facility #3 and Outfall 005 was removed and replaced with a new stormwater line connects Stormwater Management Facility #3 to a subsurface level spreader, designated as Outfall 006, located to the southeast. Because the level spreader is located below grade, an upgradient sampling location was established to collect representative discharge samples for Outfall 006.

Following these stormwater management systems modifications, stormwater that previously discharged through Outfalls 002 and 003 now flows to Outfall 001, while stormwater that previously discharged through Outfalls 004 and 005 is now conveyed to Outfall 006.

Outfall 001 remains in its original location. However, Outfall 006 represents a new outfall located in a new location compared to the previous outfalls (002, 003, 004, and 005).

Currently, Stormwater Management Facility #1 discharges to Outfall 001, and Stormwater Management Facilities #2 and #3 discharge to Outfall 006.

Coherent Inc. Facility Layout – Google Earth Aerial Imagery



Development of Effluent Limitations

Outfall No.	001	**Design Flow (MGD)**	0
Latitude	40º 44' 1.80"	**Longitude**	-79º 49' 12.05"
Outfall No.	006	**Design Flow (MGD)**	0
Latitude	40º 43' 47.39"	**Longitude**	-79º 48' 39.65"

Wastewater Description: Stormwater

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: The facility operates under two SIC codes. The first code is 3827—Manufacturer of laser optics, laser optic material, and related devices —which requires the facility to monitor the stormwater discharges for the pollutants of concern in Appendix J of the PAG-03 General Permit. The second code is 2819 —Industrial Inorganic Chemicals —which requires the facility to monitor the stormwater discharges for the pollutants of concern in Appendix F of the PAG-03 General Permit.

Anti-Backsliding

N/A

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
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
Nitrate-Nitrite	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
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Compliance Sampling Location: At Outfall 001.

Proposed Effluent Limitations and Monitoring Requirements

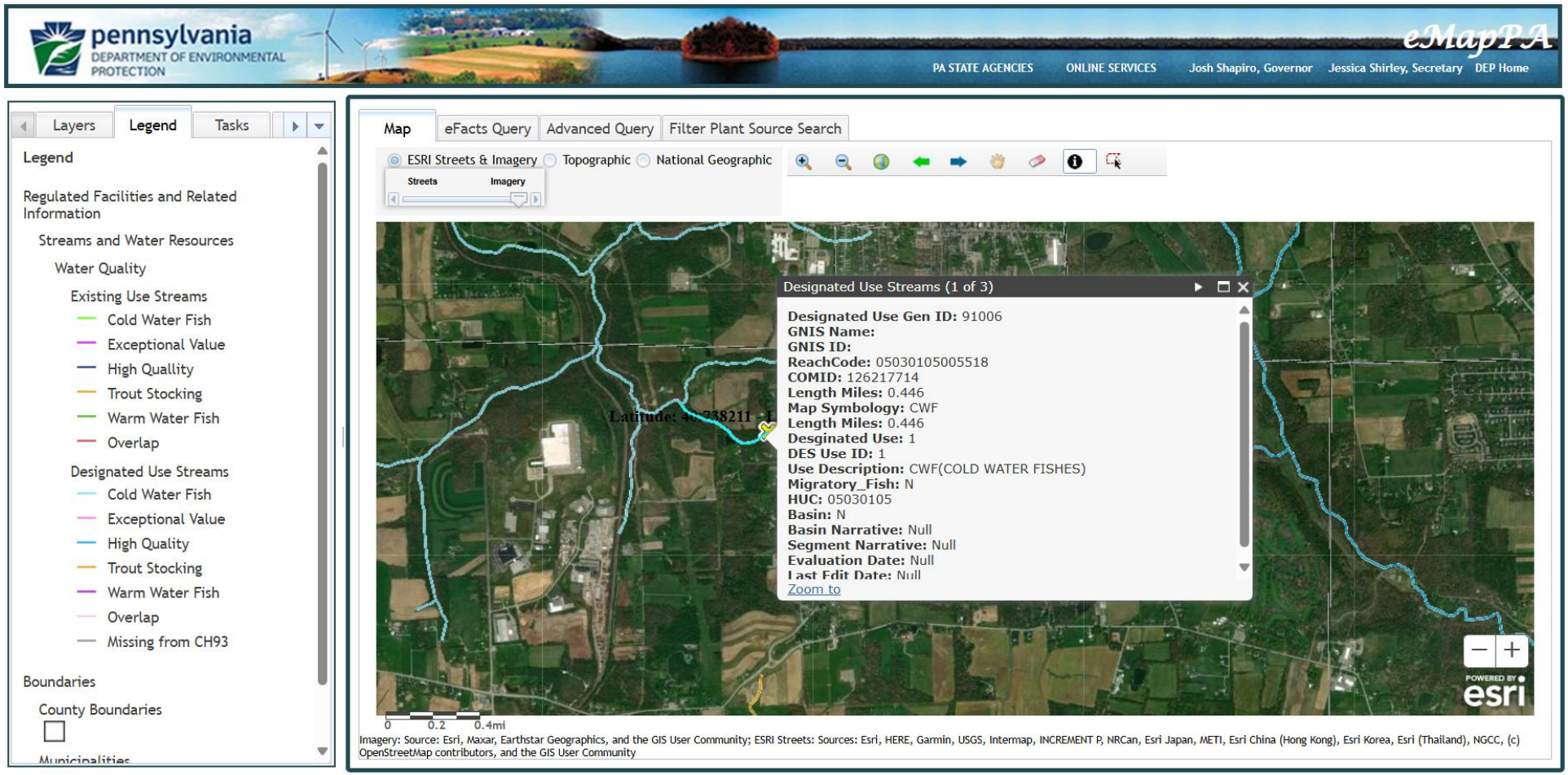
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). 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/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
Nitrate-Nitrite	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
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Compliance Sampling Location: At Outfall 006.

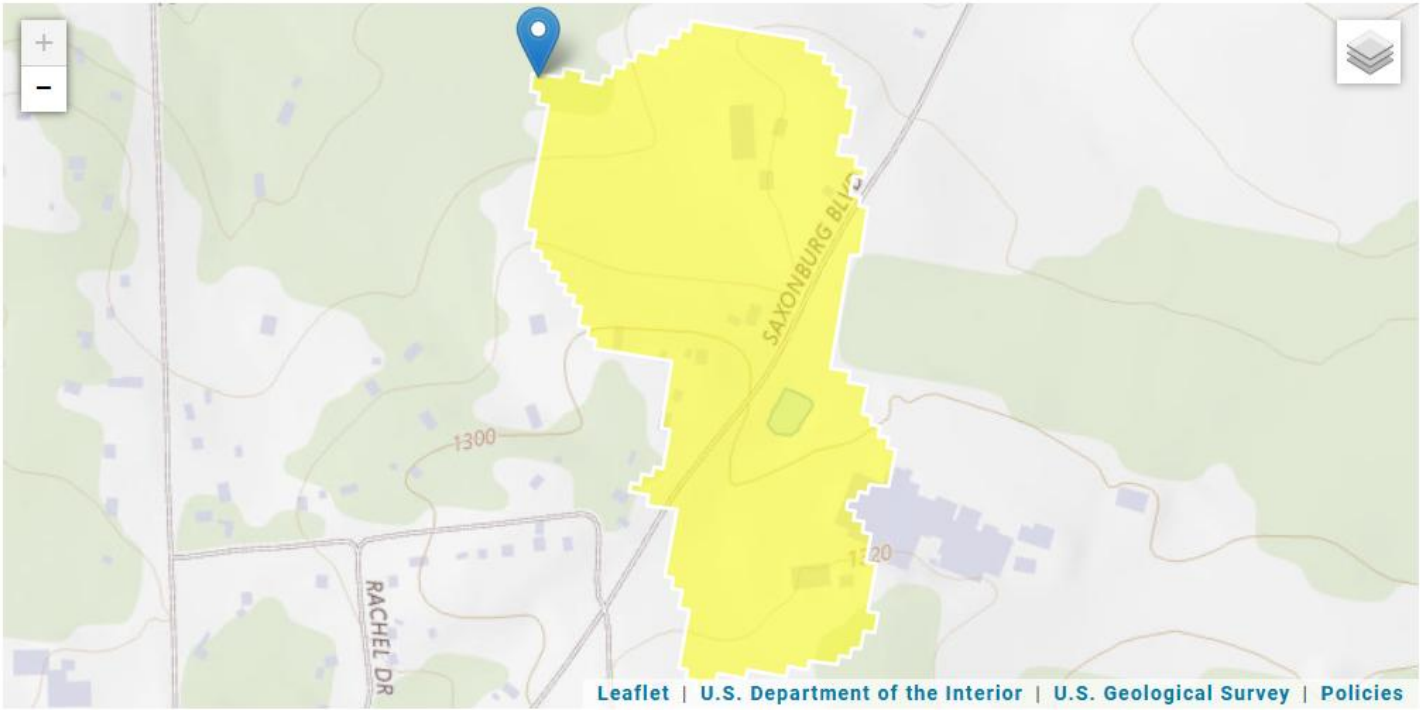
Receiving Stream for Discharge from Outfall 001 – eMap with Aerial Imagery



Drainage Area at Unnamed Tributary of Davis Run – eMap with Aerial Imagery

StreamStats Report

Region ID:	PA
Workspace ID:	PA20251112192450186000
Clicked Point (Latitude, Longitude):	40.73580, -79.82332
Time:	2025-11-12 14:25:11 -0500

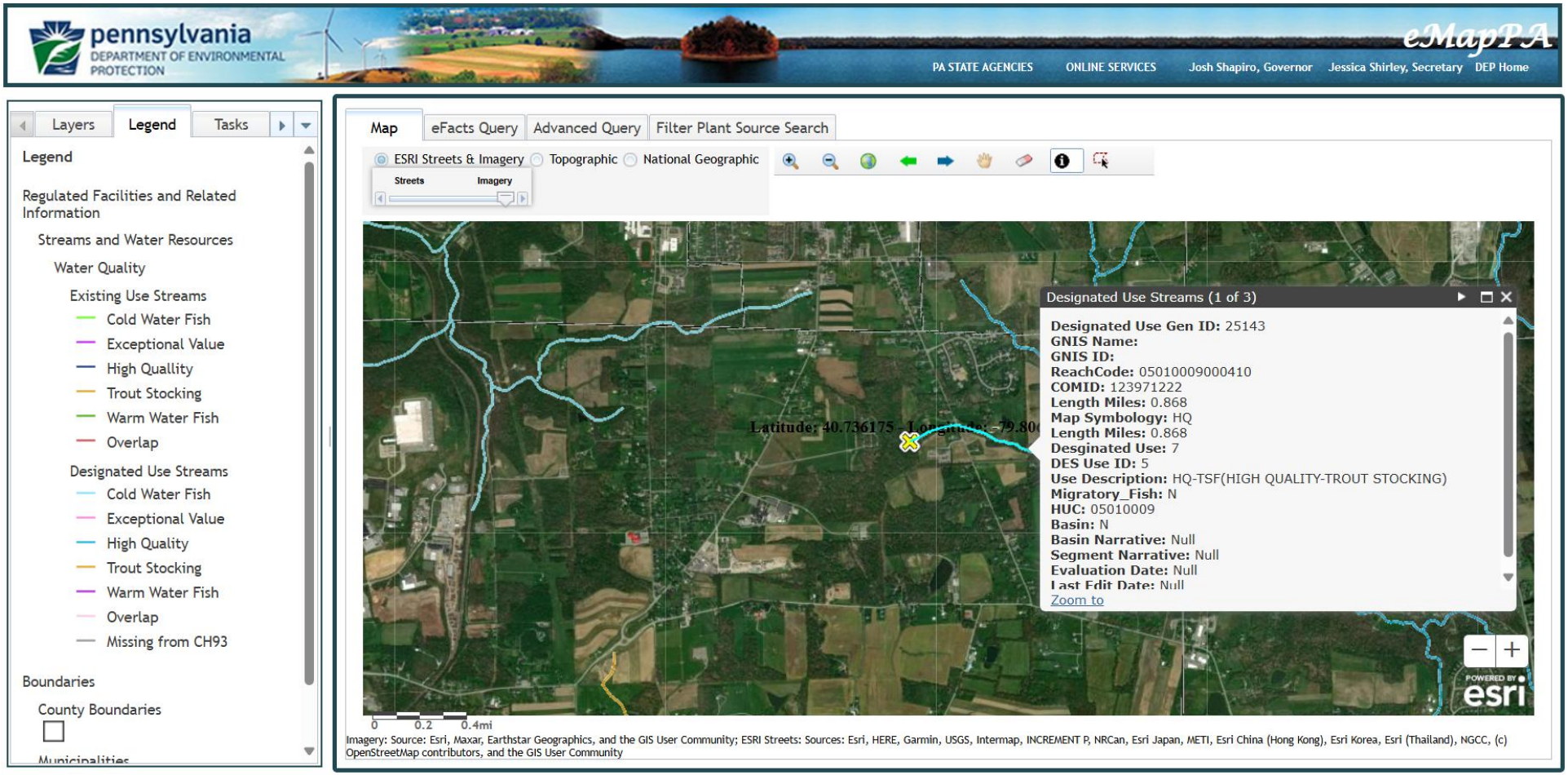


Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0627	square miles

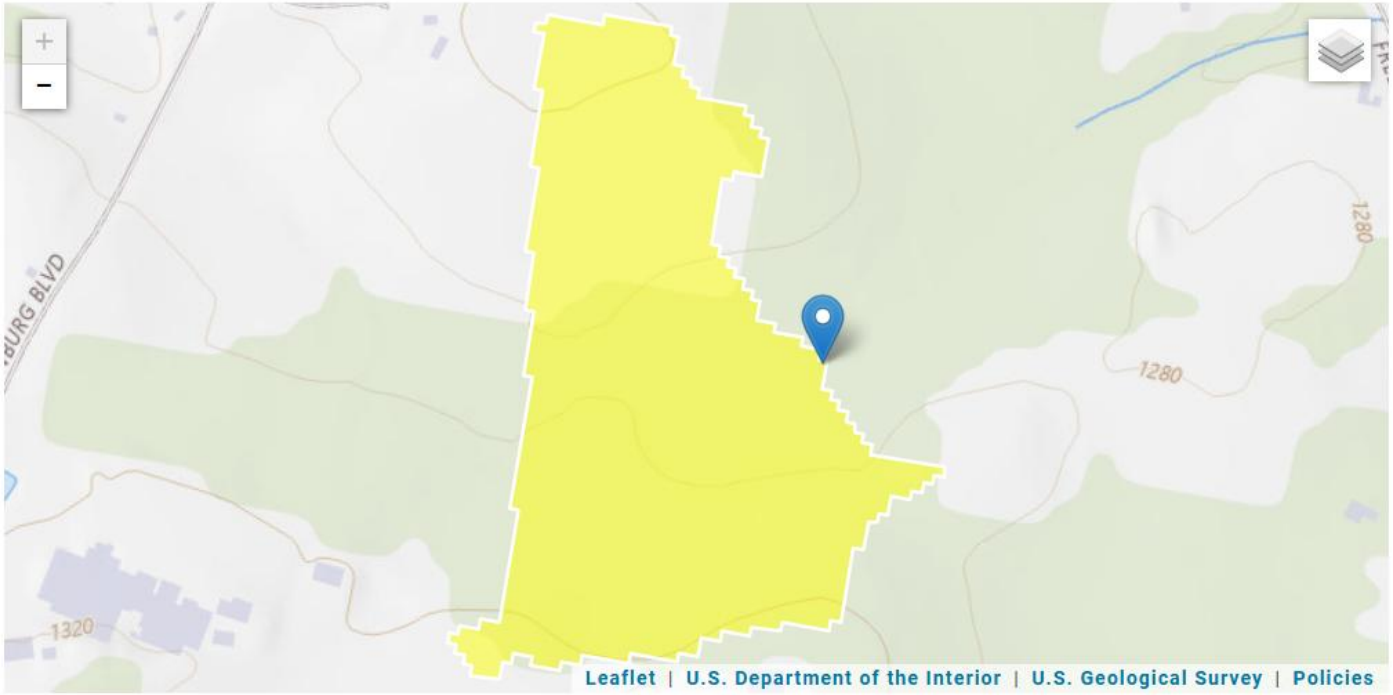
Receiving Stream for Discharge from Outfall 006 – eMap with Aerial Imagery



Drainage Area at Unnamed Tributary to Sarver Run – eMap with Aerial Imagery

StreamStats Report

Region ID:	PA
Workspace ID:	PA20251112181317410000
Clicked Point (Latitude, Longitude):	40.73393, -79.81001
Time:	2025-11-12 13:13:39 -0500



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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0719	square miles