Pennsylvania Department of Environmental Protection

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0254291**
Facility Type	**Storm Water**	APS ID	**1137750**
Major / Minor	**Minor**	Authorization ID	**1527927**

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

Applicant and Facility Information

Applicant Name	**Patterson Services, Inc.**	Facility Name	**Patterson Services Inc.**
Applicant Address	88 East Buffalo Church Road	Facility Address	88 East Buffalo Church Road
	Washington, PA 15301-8575		Washington, PA 15301-8575
Applicant Contact	Joseph Biagas	Facility Contact	Joseph Biagas
Applicant Phone	(337) 296-6089	Facility Phone	(337) 296-6089
Client ID	279320	Site ID	732030
SIC Code	1389	Municipality	Buffalo Township
SIC Description	Mining - Oil And Gas Field Services, Nec	County	Washington
Date Application Received	May 9, 2025	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Renewal of NPDES Permit coverage for the discharge of Stormwater Associated with Industrial Activity.

Summary of Review

The Department received an application to renew NPDES permit PA0254291 for Patterson Services, Inc. Patterson Services, Inc. provides rental equipment to the oil and gas industry. The facility stores chemicals, materials and equipment used in providing these services. Trash dumpsters, propane tank, and oil field related trucks are stored outside and exposed to rainwater. Antifreeze is stored inside the shop in 330-gallon totes. This facility was previously operated by Bronco Oilfield Services, which is an affiliate of Patterson Services, Inc. Bronco Oilfield Services closed its PA district on January 1, 2021, so Patterson Services, Inc. then took over operation of this facility. The renewed permit will be issued under the new permitee name. The site has four stormwater outfalls that discharge to Tributary 32947 to Buffalo Creek, designated in 25 PA Code Chapter 93 as High-Quality Warm Water Fishes.

Outfall 001 discharges stormwater from the west side of the site and the shop and administration rooftops. Outfall 001 has a compost filter sock positioned within the drainage area to control pollutants in stormwater.

Outfall 002 discharges stormwater from the maintenance yard/equipment parking area, the southern half of the main building roof, the unloading and loading areas, and the employee parking area.

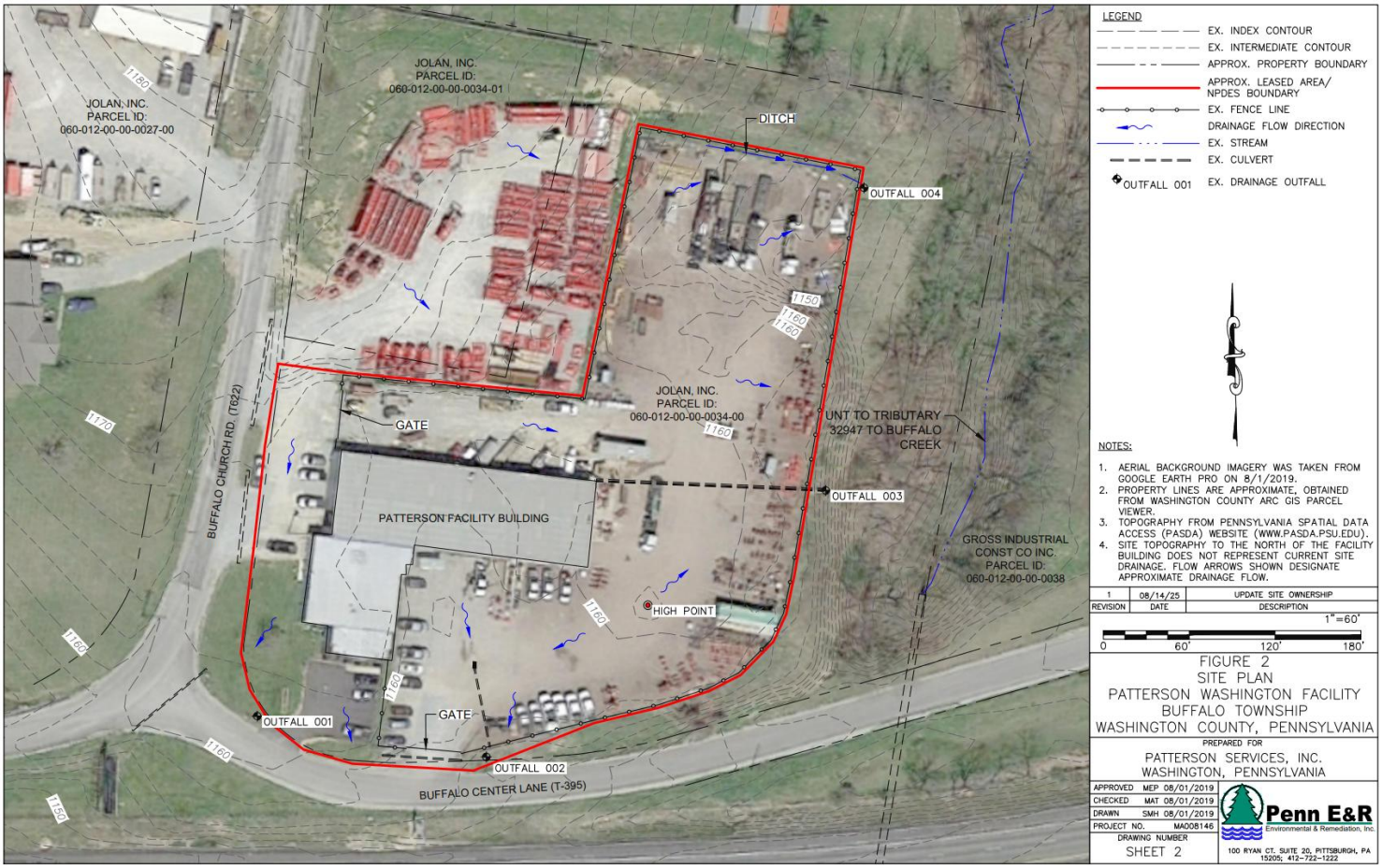
Outfall 003 discharges stormwater from the northern half of the main building roof, shop gutters, and the area around the 1,000-gallon diesel AST.

Outfall 004 discharges stormwater from the maintenance yard/equipment parking area. All four Outfalls are shown below in Figure 1.

Approve	Deny	Signatures	Date
X		Alexa Howard / Environmental Engineering Trainee	September 3, 2025
X		Michael E. Fifth, P.E. / Environmental Engineer Manager	September 3, 2025

Summary of Review

Figure 1. Site Map



In the event of a spill, personnel in charge will follow the basic spill response procedures outlined in the facility's Pollution Prevention and Contingency Plan. There have been no significant leaks or spills in any areas exposed to precipitation. All vehicles are checked for leaks prior to and following loading and unloading of their products. Rental and other oil field related units and equipment used in the oil field are stored outdoors in the yard. Maintenance of company vehicles and oil field units is performed inside the shop. Any used material is collected and recycled through a certified collection company.

The site is inspected at least once a year by competent personnel using EMS FRM 14001 Compliance Team Checklist. This inspection includes all the areas where industrial materials or activities are exposed to stormwater. Inspections will also be completed regularly of the secondary containment areas, waste drums, and chemical storage containers for spill prevention. Quarterly visual monitoring is performed at each storm water outfall and records of each monitoring event will be maintained on-site. Excess sediment from ditches and other areas shall be removed to minimize stormwater discharge from the facility. Roads are stabilized and grass buffer zones are maintained to slow erosion.

The site was last inspected on August 26, 2021. No violations were noted.

With the renewal application, the permittee submitted sample results of all four Outfalls from April 4, 2025 for Oil and Grease, Biochemical Oxygen Demand (BOD5), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Nitrogen, Total Phosphorus, and pH. The results are show below in **Table 1**. Outfall 001 and Outfall 002 sample results exceed the benchmark values in TSS and COD.

Summary of Review

Table 1: Outfall 001-004 Sample Results

Parameter	Outfall 001 Results (mg/L)	Outfall 002 Results (mg/L)	Outfall 003 Results (mg/L)	Outfall 004 Results (mg/L)	Benchmark Values (mg/L)	Sample Type
TSS	**885**	**57**	<4.0	11.0	30.0	Grab
Oil and Grease	<5.0	<5.0	<5.0	<6.2	5.0	Grab
Total Nitrogen	8.9	<0.030	0.48	2.2	XXX	Calculation
Total Phosphorous	1.6	0.052	0.078	0.048	XXX	Grab
COD	**187**	<25.0	<25.0	<25.0	120	Grab
BOD5	8.4	<5.2	<5.2	<4.5	30	Grab
pH	7.9	8.1	8.4	8.5	9.0	Grab

It is recommended that a Draft NPDES Permit be published for public comment in response to this application.

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 07' 50.7"	Longitude	-80º 19' 48.6"
Quad Name	Washington West	Quad Code	1703
Wastewater Description:	Stormwater exposed to the west side of site and East Buffalo Church Road drainage.		
Receiving Waters	Tributary 32947 of Buffalo Creek (HQ-WWF)	Stream Code	32947
NHD Com ID	73866194	RMI	2.85
Drainage Area	2.01 mi^2	Yield (cfs/mi^2)	0.00985
Q_{7-10} Flow (cfs)	0.0198	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1237	Slope (ft/ft)	0.069
Watershed No.	20-E	Chapter 93 Class.	HQ-WWF
Assessment Status	HQ-WWF (High Quality-Warm Water Fishes)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Unknown, greater than 20 miles in Ohio		
PWS Waters	Unknown	Flow at Intake (cfs)	Unknown
PWS RMI	Unknown	Distance from Outfall (mi)	Greater than 20 miles

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0
Latitude	40º 07' 50.3"	Longitude	-80º 19' 46.8"
Quad Name	Washington West	Quad Code	1703
Wastewater Description:	Stormwater exposed to the maintenance yar/equipment parking area, the southern half of the main building roof, and employee parking area.		
Receiving Waters	Tributary 32947 of Buffalo Creek (HQ-WWF)	Stream Code	32947
NHD Com ID	73866194	RMI	2.85
Drainage Area	2.01 mi^2	Yield (cfs/mi^2)	0.00985
Q_{7-10} Flow (cfs)	0.0198	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1237	Slope (ft/ft)	0.069
Watershed No.	20-E	Chapter 93 Class.	HQ-WWF
Assessment Status	HQ-WWF (High Quality-Warm Water Fishes)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Unknown, greater than 20 miles in Ohio		
PWS Waters	Unknown	Flow at Intake (cfs)	Unknown
PWS RMI	Unknown	Distance from Outfall (mi)	Greater than 20 miles

Discharge, Receiving Waters and Water Supply Information

Outfall No.	003	Design Flow (MGD)	0
Latitude	40º 07' 52.3"	Longitude	-80º 19' 43.9"
Quad Name	Washington West	Quad Code	1703
Wastewater Description:	Stormwater exposed to the northern half of the main building roof and 1,000-gallon diesel AST.		
Receiving Waters	Tributary 32947 of Buffalo Creek (HQ-WWF)	Stream Code	32947
NHD Com ID	73866194	RMI	2.85
Drainage Area	2.01 mi^2	Yield (cfs/mi^2)	0.00985
Q_{7-10} Flow (cfs)	0.0198	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1237	Slope (ft/ft)	0.069
Watershed No.	20-E	Chapter 93 Class.	HQ-WWF
Assessment Status	HQ-WWF (High Quality-Warm Water Fishes)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Unknown, greater than 20 miles in Ohio		
PWS Waters	Unknown	Flow at Intake (cfs)	Unknown
PWS RMI	Unknown	Distance from Outfall (mi)	Greater than 20 miles

Discharge, Receiving Waters and Water Supply Information

Outfall No.	004	Design Flow (MGD)	0
Latitude	40º 07' 54.4"	Longitude	-80º 19' 43.6"
Quad Name	Washington West	Quad Code	1703
Wastewater Description:	Stormwater exposed to the maintenance yard/equipment parking area and a portion of neighboring equipment laydown area.		
Receiving Waters	Tributary 32947 of Buffalo Creek (HQ-WWF)	Stream Code	32947
NHD Com ID	73866194	RMI	0.2900
Drainage Area	2.01 mi^2	Yield (cfs/mi^2)	0.00985
Q_{7-10} Flow (cfs)	0.0198	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1237	Slope (ft/ft)	0.069
Watershed No.	20-E	Chapter 93 Class.	HQ-WWF
Assessment Status	HQ-WWF (High Quality-Warm Water Fishes)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Unknown, greater than 20 miles in Ohio		
PWS Waters	Unknown	Flow at Intake (cfs)	Unknown
PWS RMI	Unknown	Distance from Outfall (mi)	Greater than 20 miles

Development of Effluent Limitations

Outfall No.	001-004	**Design Flow (MGD)**	0
Latitude	Varies	**Longitude**	Varies

Wastewater Description: Stormwater associated with industrial activity.

Technology-Based Limitations

Stormwater Technology Limits

Outfalls 001 - 004 will be subject to PAG-03 General Stormwater Permit conditions as a minimum requirement because the outfalls discharge stormwater associated with industrial activity. The SIC code for the site is 1389 and the corresponding appendix of the PAG-03 that would apply to the facility is Appendix J. The reporting requirements applicable to stormwater discharges are shown in **Table 2** below. Along with the monitoring requirements, sector specific BMPs included in Appendix J of the PAG-03 will also be included in Part C of the Draft Permit. Since the issuance of the original permit in 2020, the Appendix J parameters have been updated to include Total Nitrogen, Total Phosphorous, Chemical Oxygen Demand, and pH.

Table 2: PAG-03 Appendix (J) Monitoring Requirements

Parameter	Max Daily Concentration	Measurement Frequency	Sample Type
Total Suspended Solids (TSS)	Monitor and Report	1/6 Months	Grab
Oil and Grease	Monitor and Report	1/6 Months	Grab
Total Nitrogen	Monitor and Report	1/6 Months	Grab
Total Phosphorous	Monitor and Report	1/6 Months	Grab
Chemical Oxygen Demand	Monitor and Report	1/6 Months	Grab
pH	Monitor and Report	1/6 Months	Grab

Water Quality-Based Limitations

Stormwater WQBELs

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharges from Outfalls 001 - 004 are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

Anti-Degradation

Anti-degradation regulations under Chapter 93.4c(a)(l)(i) require dischargers to protect the existing use of receiving waters. Chapter 93.4c(b) requires dischargers to consider non-discharge alternatives, public participation and social/economic justification when proposing new, additional or increased discharges to high quality or exceptional value streams. Existing use protections required under Chapter 93.4c(a)(l)(i) are ensured for discharges to high quality streams through imposition of the most stringent of technology-based, water quality-based and non-degrading effluent limitations. In this case, non-degradation effluent limitations are not applicable because the discharges consist of stormwater only. To ensure that the discharges do not degrade the stream, the no exposure benchmark values are imposed in the permit. The goal for the permittee is to consistently achievethese benchmark values; doing this shows that the discharges are uncontaminated stormwater and protective of the existing quality of the receiving waters.

Proposed Effluent Limitations and Monitoring Requirements

The proposed effluent monitoring requirements for Outfall 001 - 004 are displayed in **Table 3** below, they are the most stringent values from the above effluent limitation development. A Part C condition is included in the Draft Permit requiring a Corrective Action Plan when there is an exceedance of any benchmark value. These benchmarks are included in Part C of the NPDES permit.The benchmark values are not effluent limitations, and an exceedance of a benchmark value is not a violation of the NPDES permit. As described above, if there is an exceedance of any benchmark value, a Corrective

Action Plan must be developed and submitted to the Department to evaluate site-specific stormwater controls and BMPs. Benchmark monitoring is a feedback tool, along with routine inspections and visual assessments, for assessing the effectiveness of stormwater controls and BMPs. An exceedance of the benchmark provides permittees with an indication that the facility's controls may not be sufficiently controlling pollutants in stormwater. To ensure that the discharge is not degrading the high-quality waters, the no exposure benchmark values are imposed in the permit.

Table 3: Proposed Effluent Monitoring Requirements

Parameter	Max Daily Concentration	Benchmark Values (mg/L)	Measurement Frequency	Sample Type
Total Suspended Solids (TSS)	Monitor and Report	30.0	1/6 Months	Grab
Oil and Grease	Monitor and Report	5.0	1/6 Months	Grab
Total Nitrogen	Monitor and Report	XXX	1/6 Months	Calculation
Total Phosphorus	Monitor and Report	XXX	1/6 Months	Grab
Chemical Oxygen Demand	Monitor and Report	120	1/6 Months	Grab
pH	Monitor and Report	9.0	1/6 Months	Grab

Additionally, a Part C condition is included in the permit requiring the permittee to develop and submit a Pollutant Reduction Report to the Department within 90 days of the Permit Effective Date. This requirement is due to the elevated levels of Total Suspended Solids and Chemical Oxygen Demand that were reported in the application. The Pollutant Reduction Report will require the permittee to survey the plant to identify the source of these pollutants and implement measures to eliminated or reduce the pollutants. In the report the permittee shall identify the sources of the pollutants; describe those measures that were tried after issuance of the permit and their effectiveness in meeting the discharge limitations and/or eliminating or reducing the pollutants; and describe and submit schedules for those measures that will be put into effect.

Anti-Backsliding

Previous limits can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l). When a permit is renewed or reissued, interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under § 122.62.). The previous permit did not include any effluent limitations. The monitoring requirements below in **Table 4** are from the current permit.

Table 4: Current Monitoring Requirements

Parameter	Max Daily Concentration	Benchmark Values (mg/L)	Measurement Frequency	Sample Type
Total Suspended Solids (TSS)	Monitor and Report	30.0	1/6 Months	Grab
Oil and Grease	Monitor and Report	5.0	1/6 Months	Grab

Tools and References Used to Develop Permit	
☐	WQM for Windows Model
☐	Toxics Management Spreadsheet
☐	TRC Model Spreadsheet
☐	Temperature Model Spreadsheet
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
☐	Pennsylvania CSO Policy, 386-2000-002, 9/08.
☒	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☐	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
☐	Design Stream Flows, 386-2000-003, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☒	SOP: New and Reissuance Industrial Waste and Industrial Stormwater Individual NPDES Permit Applications
☒	Other: USGS Stream Stats (See Attachment **A**)

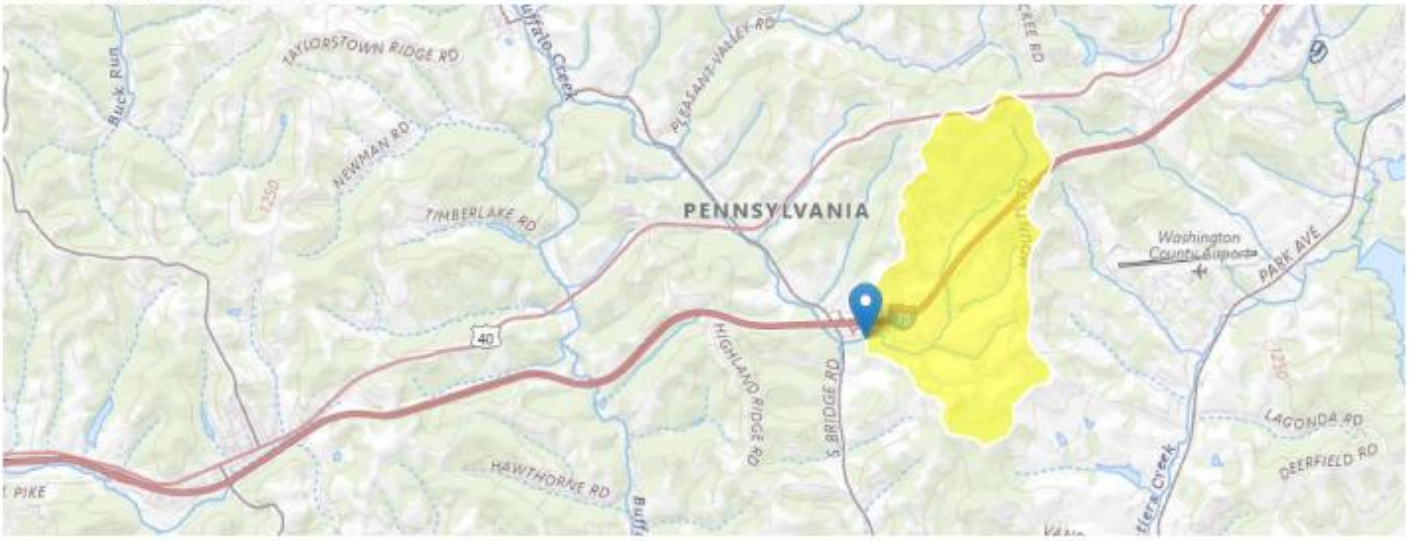
Attachments

Attachment A: USGS Stream Stats

Attachment A:
USGS Stream Stats

StreamStats Report

Region ID: PA
Workspace ID: PA20250605131720915000
Clicked Point (Latitude, Longitude): 40.12866, -80.33199
Time: 2025-06-05 09:17:42 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	6.9086	degrees
DRNAREA	Area that drains to a point on a stream	2.01	square miles
ELEV	Mean Basin Elevation	1237	feet

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.01	square miles	2.26	1400
ELEV	Mean Basin Elevation	1237	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0638	ft^3/s
30 Day 2 Year Low Flow	0.119	ft^3/s
7 Day 10 Year Low Flow	0.0198	ft^3/s
30 Day 10 Year Low Flow	0.0403	ft^3/s
90 Day 10 Year Low Flow	0.0802	ft^3/s