Pennsylvania Department of Environmental Protection

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0255572**
Facility Type	**Storm Water**	APS ID	**1122476**
Major / Minor	**Minor**	Authorization ID	**1500953**

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

Applicant and Facility Information

Applicant Name	**River Materials, Inc.**	Facility Name	**McKeesport Handling Facility**
Applicant Address	275 Center Street	Facility Address	275 Center Street
	McKeesport, PA 15132		McKeesport, PA 15132
Applicant Contact	Cliff Wise	Facility Contact	Cliff Wise
Applicant Phone	(412) 271-2575	Facility Phone	(412) 271-2575
Client ID	350939	Site ID	837358
SIC Code	4491	Municipality	McKeesport City
SIC Description	Marine Cargo Handling	County	Allegheny
Date Application Received	September 24, 2024	EPA Waived?	Yes
Date Application Accepted	September 30, 2024	If No, Reason	

Purpose of Application: Renewal of Individual Industrial Stormwater NPDES permit

Summary of Review

The Department received an NPDES permit renewal application for coverage of the River Materials, Inc. McKeesport Handling Facility on 9/24/2024. The prior, and first, NDPES permit for the facility was issued on 9/17/2019 with an effective date of 10/1/2019 and an expiration date of 9/30/2024. The facility was still in the process of being constructed upon initial issuance but is now fully operational.

Shown in Figure 1, the approximately 18.7-acre McKeesport Handling Facility is a barge-to-truck transshipment facility primarily for coal but will occasionally handle smaller amounts of coke. It is also equipped to handle gypsum and limestone but does not currently receive or store those materials but may in the future. Materials are moved with conveyors and front loaders. Offroad diesel fuel for mobile equipment is stored in three portable fuel tanks: two 1,000-gallon double-walled tanks and one 2,000-gallon double-walled tank. Only small stocks of motor oil and hydraulic fluid are stored onsite for daily maintenance; all major equipment repair is performed offsite. New fluids are stored within a CONEX box and used oil is stored in plastic totes outside the box. A truck wash station is installed but mostly unused as the sump is undersized and must be frequently cleaned of coal fines. In the event of use, wash water is recycled, and accumulated coal fines are dried and recycled back to the pile. The site was vacant before the current operation. Historically, the site was a steel manufacturing facility from circa 1870 until 1987. Other past site operations included various barge loading and offloading activities including Dravo Barge and Frank Bryan Materials.

Only stormwater is discharged from the site. Stormwater runoff from the central yard (used for fueling, stockpiles, truck loading, and fluids storage) is collected by a drainage channel and routed to a sedimentation basin discharging via Outfall 001 to Crooked Run, a stream entirely culverted under the site, about 150 feet from its confluence with the Monongahela River. Crooked Run has a 25 PA Code Chapter 93 Warm Water Fishes designation and is impaired for siltation from streambank modification/destabilization. The sedimentation basin, permitted under WQM # 0219201 issued 12/20/2019, is

Approve	Deny	Signatures	Date
X		Jace William Marsh / Environmental Engineering Specialist	February 18, 2025
X		Michael E. Fifth, P.E. / Environmental Engineer Manager	February 20, 2025

Summary of Review

lined and uses permanent baffles and flocculant logs as needed for settling of solids. According to the WQM Post Construction Certification and cover letter received by DEP dated 10/20/2020, the sedimentation basin dimensions were revised due to finding a 12" waterline during construction. It was stated that the redesigned basin's storage capacity remained similar to the original design. No action was taken by DEP Clean Water staff in response to this WQM modification notification, and the permittee received their approved, amended Chapter 102 NPDES Permit # PAD020026 on 3/25/2020 to reflect the design change. Stormwater is recycled for dust control and has been pumped for the truck wash station in the past. Like with the truck wash sump, accumulated coal fines are dried and recycled back to the piles. No discharge from Outfall 001 has been reported since May 2020. Stormwater runoff from the western yard (used for miscellaneous stockpiles like coke) and eastern yard (used for barge unloading, main stockpiles, and fueling) infiltrates into the subsurface or runs off as sheet flow to the Monongahela River. The Monongahela River has a 25 PA Code Chapter 93 Warm Water Fishes designation and is impaired for polychlorinated biphenyls (PCBs) in the reach along the facility. Sediment socks are placed in locations where sheet flow is known to run off and berms are mounded up along the river walls to encourage infiltration by the barge dock.

The permittee currently has no open violations. A NPDES compliance evaluation inspection was last performed by Jim Stewart on 2/18/2025 with the reviewer present. No violations were noted during the inspection. The yard supervisor corroborated the lack of discharge reports stating that he has not seen the basin reach the riser and discharge in recent memory.

Effluent limits for Outfall 001 in the Draft permit originate from the prior permit and Federal Effluent Limitation Guidelines for coal preparation plants and coal preparation plant associated areas in 40 CFR 434.25.

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.

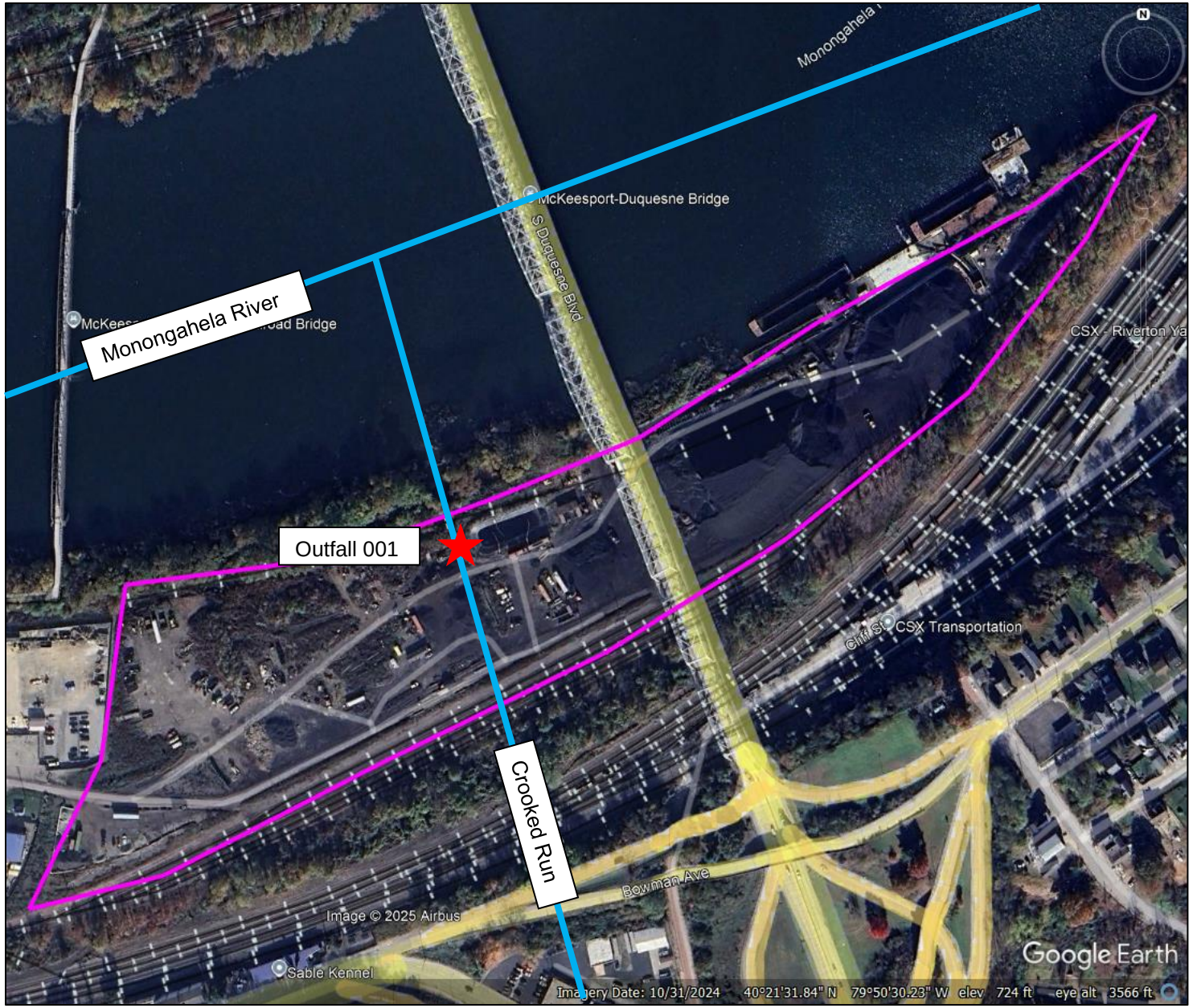

Figure 1. Satellite imagery of McKeesport Handling Facility with approximate boundary in pink

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0
Latitude	40º 21' 20.4"	Longitude	-79º 50' 39.9"
Quad Name	McKeesport	Quad Code	1607
Wastewater Description:	Stormwater discharge from sedimentation basin		
Receiving Waters	Crooked Run (WWF)	Stream Code	37454
NHD Com ID	134839895	RMI	0.03
Drainage Area	3.4 mi^2	Yield (cfs/mi^2)	0.01
Q_{7-10} Flow (cfs)	0.0341	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	729	Slope (ft/ft)	0.163 (mean basin slope)
Watershed No.	19-A	Chapter 93 Class.	WWF
Existing Use	n/a	Existing Use Qualifier	n/a
Exceptions to Use	n/a	Exceptions to Criteria	n/a
Assessment Status	Impaired		
Cause(s) of Impairment	Siltation		
Source(s) of Impairment	Streambank Modifications/Destabilization		
TMDL Status	n/a	Name	n/a
Nearest Downstream Public Water Supply Intake	PA American Water Co-Pittsburgh		
PWS Waters	Monongahela River	Flow at Intake (cfs)	1,230
PWS RMI	4.6	Distance from Outfall (mi)	9.8

Changes Since Last Permit Issuance: Receiving waters were considered Monongahela River for prior permit issuance.

Other Comments:

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0
Latitude 40º 21' 20.4" **Longitude** -79º 50' 39.9"
Wastewater Description: Stormwater discharge from sedimentation basin

Technology-Based Effluent Limitations (TBEL)

Federal Effluent Limitation Guidelines

The McKeesport Handling Facility is subject to New Source Performance Standards (NSPS) effluent limitations for new source coal preparation plants and coal preparation plant associated areas in 40 CFR 434.25, shown in Table 1. Per 40 CFR 434.11(f):

> *The term "coal preparation plant associated areas" means the coal preparation plant yards, immediate access roads, coal refuse piles* ***and coal storage piles and facilities****.*

Per 40 CFR 122.2:

> *New source means any building, structure, facility, or installation from which there is or may be a "discharge of pollutants," the construction of which commenced:*
>
> *(a) After promulgation of standards of performance under section 306 of CWA which are applicable to such source, or*
> *(b) After proposal of standards of performance in accordance with section 306 of CWA which are applicable to such source, but only if the standards are promulgated in accordance with section 306 within 120 days of their proposal.*

Any source under 40 CFR Part 434 Subpart B which was constructed following 5/4/1984 is subject to NSPS effluent limitations. This facility was under construction as of the application submission for WQM Permit # 0219201 received on 11/26/2019. Since pH adjustment is not performed prior to discharge, NSPS effluent limitations for discharges with a pH >6.0 prior to treatment are applied. Since stormwater is rarely sampled multiple times per month, only the daily maximums will be applied.

Table 1. NSPS effluent limitations

Parameter	Monthly Average (mg/L)	Daily Maximum (mg/L)
Total Iron	3.0	6.0
Total Suspended Solids (TSS)	35	70
pH (S.U.)	6.0-9.0 at all times	

PAG-03 General Stormwater Permit

Where a General Permit exists for the industrial sector, the effluent limits and monitoring requirements are generally considered to be minimum standards for discharges from that industry, unless the application manager documents that the requirements of the General Permit are not applicable to a specific individual permit. PAG-03 Appendix J—Other Facilities applies to facilities whose SIC code does not fit with other Appendices, but Appendix J language specifically excludes "*Runoff from coal mining and related facilities, subject to effluent limitation guidelines in 40 CFR Part 434*". Accordingly, PAG-03 monitoring requirements of any Appendix will not be imposed since effluent is better controlled through implementation of the Federal ELG which should address all pollutants of concern in facility stormwater runoff.

Water Quality-Based Effluent Limitations (WQBEL)

Stormwater WQBELs

Water quality analyses are typically performed under low-flow (Q7-10) stream conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharges from the outfall is

composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations are not proposed.

Anti-Backsliding

Previous limits can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l), and are displayed below in Table 2. These limits were based on Best Professional Judgement application of Federal ELGs 40 CFR 411.32(a)—material storage piles for cement manufacturing facilities and 423.12(b)(9)—coal pile runoff for steam electric generating facilities, flow monitoring in 25 Pa. Code § 92a.61(d)(1), and pH range in 25 Pa. Code § 95.2(1).

Table 2. Effluent limitations from previous permit

Parameter	Mass (pounds)		Concentration (mg/L)			Samples	
	Average Monthly	Daily Maximum	Average Monthly	Daily Maximum	Instantaneous Maximum	Frequency	Sample Type
Flow (MGD)	Report	Report	—	—	—	1/month	Calculation
TSS	—	—	—	—	50.0	1/month	Grab
pH (S.U.)	—	—	6.0-9.0 at all times			1/month	Grab

Proposed Effluent Limitations and Monitoring Requirements

Effluent limits are the more stringent of TBELs, WQBELs, regulatory effluent standards, and monitoring requirements as summarized in Table 3. Consistent with typical stormwater permitting practices, TSS was converted from an Instantaneous Maximum to a Daily Maximum. Once per month sampling will be maintained since there is no consistent sample data to support proper function of the sedimentation basin when it discharges.

Table 3. Effluent limits and monitoring requirements for Outfall 001

Parameter	Mass (pounds)		Concentration (mg/L)		Samples	
	Average Monthly	Daily Maximum	Average Monthly	Daily Maximum	Frequency	Sample Type
Flow (MGD)	—	Report	—	—	1/month	Calculation
Total Iron	—	—	—	6.0	1/month	Grab
TSS	—	—	—	50.0	1/month	Grab
pH (S.U.)	—	—	6.0-9.0 at all times		1/month	Grab

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	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: BCW-PMT-001, BCW-PMT-032
☒	Other: USGS StreamStats (see attachment A), 2024 Integrated Report, 2022 PAG-03

Attachment A:
USGS StreamStats

PA0255572 StreamStats Report

Region ID: PA
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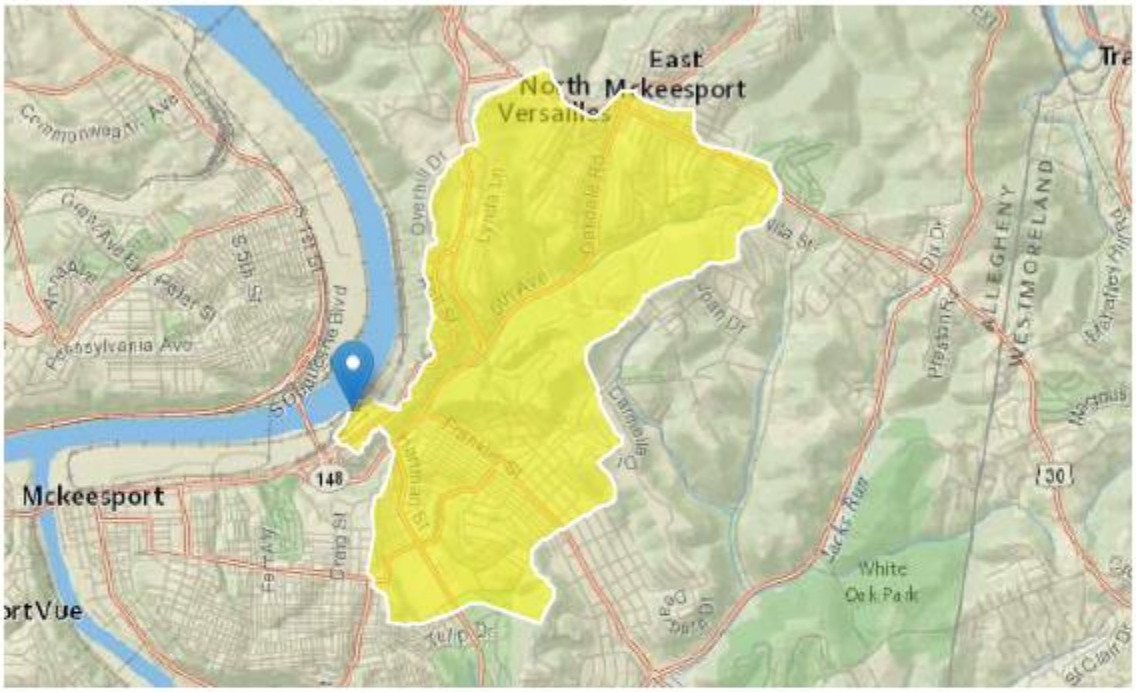
Clicked Point (Latitude, Longitude): 40.35791, -79.83928
Time: 2025-02-11 12:43:23 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	9.2692	degrees
DRNAREA	Area that drains to a point on a stream	3.4	square miles
ELEV	Mean Basin Elevation	1028	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	3.4	square miles	2.26	1400
ELEV	Mean Basin Elevation	1028	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	0.0995	ft^3/s
30 Day 2 Year Low Flow	0.18	ft^3/s
7 Day 10 Year Low Flow	0.0341	ft^3/s
30 Day 10 Year Low Flow	0.0656	ft^3/s
90 Day 10 Year Low Flow	0.122	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)