

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0020702
APS ID 1131390
Authorization ID 1516679

Applicant and Facility Information

| | | | |
|---------------------------|--|------------------|---|
| Applicant Name | <u>Fayette City Borough</u> | Facility Name | <u>Fayette City Borough WWTP</u> |
| Applicant Address | <u>PO Box 552</u> <u>Fayette City, PA 15438-0552</u> | Facility Address | <u>1615 Fayette Avenue</u> <u>Fayette City, PA 15438</u> |
| Applicant Contact | <u>Jim Eley</u> | Facility Contact | <u>Josh Sphar</u> |
| Applicant Phone | <u>(724) 326-5656</u> | Facility Phone | <u>(412) 582-9642</u> |
| Client ID | <u>110666</u> | Site ID | <u>263550</u> |
| Ch 94 Load Status | <u>Not Overloaded</u> | Municipality | <u>Fayette City Borough</u> |
| Connection Status | <u>Not Limited</u> | County | <u>Fayette</u> |
| Date Application Received | <u>March 25, 2014</u> | EPA Waived? | <u>No</u> |
| Date Application Accepted | <u></u> | If No, Reason | <u>CSO Facility</u> |
| Purpose of Application | <u>Application for the renewal of an NPDES permit for the discharge of treated Sewage.</u> | | |

Summary of Review

Introduction

The Authority has applied for the renewal of NPDES Permit No. PA0020702, which was previously issued on August 3, 2009, and expired on August 31, 2014.

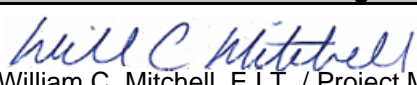
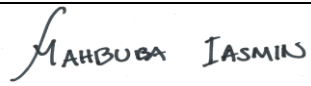
On July 26, 2024, the Department issued an Administrative Order to the Applicant to (1) make immediate repairs to pumps at Water Street PS & Cook Street PS; (2) submit a compliance plan to address operational and maintenance issues, implementation of its Long Term Control Plan (LTCP) and submission of required permit applications; and (3) submit required annual CSO reports and quarterly progress reports detailing compliance with the order. The Applicant failed to comply with the Administrative Order.

On January 23, 2025, the Department filed a Petition to Enforce Administrative Order, requesting that the Court order the Applicant to comply with the order. The Applicant has not filed an answer to the Petition to Enforce.

The Applicant entered into a Consent Order and Agreement (COA) with the Department on May 12, 2025. The COA covers the submittal of all NPDES and WQM Permit Applications, and addresses O&M of the CSS, PS & WWTP (which includes continued implementation of the Nine Minimum Controls (NMC), implementation of the Department approved LTCP, and submittal of a Post Construction Compliance Monitoring Plan (PCCMP)).

Facility Overview

WQM Permit No. 461S27 A-1, issued on May 18, 1993, authorized plant construction with a rated annual average design flow of 0.125 MGD and a design organic capacity of 209 lbs./day.

| Approve | Deny | Signatures | Date |
|---------|------|--|-------------------|
| X | |  William C. Mitchell, E.I.T. / Project Manager | December 18, 2025 |
| X | |  Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineering Manager | December 19, 2025 |

Summary of Review

Amendment A-1 to the 1996 NPDES Permit revised the design hydraulic capacity (for Chapter 94 Reporting) to 0.175 MGD.

Secondary treatment is provided by two SBRs. Sludge is processed in the aerobic digestion tank and dewatered with sludge drying beds. Chlorine is used for disinfection prior to discharge (Outfall 001) to Monongahela River, which is designated as a Warm Water Fishery (WWF) per 25 Pa. Chapter 93 Designated Use, located in State Watershed 19-C.

A comprehensive listing of outfalls can be found below:

| | | |
|-----|-------------------------|----------------|
| 001 | WWTP Outfall | Treated Sewage |
| 002 | Fording Street Overflow | CSO |
| 003 | Cook Street Overflow | CSO |

Combined Sewer Overflows (CSO) 002 & 003 will again be permitted. These outfalls are necessitated by stormwater entering the sewer system and exceeding the hydraulic capacity of the sewers and/or the treatment plant and are permitted to discharge only for this reason. Part C.II, Combined Sewer Overflows, has been incorporated into the permit.

The renewal application does not list any industrial or commercial contributors to the sewer system.

Combined Sewer Overflows

Part C. II. requires the Applicant to continue implementation of the NMCs and demonstrate system-wide compliance with the NMCs. Site specific O&M obligations were taken from the NMC Plan (dated October 2005). A Department NMC inspection will occur after permit issuance to ensure continued compliance.

The Applicant shall implement the LTCP in accordance with the implementation schedule taken from the Department's LTCP Approval Letter, dated February 11, 2009, which was based upon the Applicant's LTCP Report (dated December 2007).

In summary, the LTCP proposes to:

- Comply with EPA CSO Policy's Presumption Approach criteria to meet receiving Water Quality Standards (WQS) by capturing no less than 85% by volume of the combined sewage collected in the CSS during precipitation events on a system-wide average annual basis.

In addition to the LTCP approach, these requirements are established for LTCP approval:

- The Applicant shall submit a PCCMP for Department approval on or before August 30, 2011. The PCCMP should be sufficient to demonstrate to the Department that the selected LTCP approach meets the Presumption Approach narrative and capture criteria in addition to meeting receiving WQS in accordance with EPA CSO Policy.

To date the Applicant has failed to fully implement the Department approved LTCP, submit a PCCMP, and demonstrate compliance with receiving WQS. Item 5.G. (Existing COA) requires the Applicant to submit an Alternative Compliance Plan and Implementation Schedule to the Department. The chosen Alternative Compliance Plan shall be completed by July 31, 2027.

Summary of Changes Since Last Permit Issuance

- Dissolved Oxygen limitation added
- Raw Sewage Influent monitoring added for BOD5 & TSS
- *E. Coli* monitoring added
- Ammonia-Nitrogen monitoring added
- Total Nitrogen & Total Phosphorus monitoring added
- Part C.II language revised (Combined Sewer Overflows)

Sludge use and disposal description and location(s): Sludge is hauled by County Hauling Corp. to Westmoreland Landfill. Application data indicates that the STP does not receive any hauled in waste.

Summary of Review

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) | 0.125 |
| Latitude | 40° 6' 11.0" | Longitude | -79° 50' 35.00" |
| Quad Name | Fayette City | Quad Code | 1807 |
| Wastewater Description: Sewage Effluent | | | |
| Receiving Waters | Monongahela River (WWF) | Stream Code | 37185 |
| NHD Com ID | 99408226 | RMI | 45.9 |
| Drainage Area | 5190 | Yield (cfs/mi²) | 0.102 |
| Q7-10 Flow (cfs) | 530 | Q7-10 Basis | US Army Corp. of Engineers & USGS Streamstats (Attachment 1) |
| Elevation (ft) | 743.5 | Slope (ft/ft) | 0.00002 |
| Watershed No. | 19-C | Chapter 93 Class. | WWF |
| Existing Use | | Existing Use Qualifier | |
| Exceptions to Use | NONE | Exceptions to Criteria | NONE |
| Assessment Status | Impaired | | |
| Cause(s) of Impairment | POLYCHLORINATED BIPHENYLS (PCBS) | | |
| Source(s) of Impairment | SOURCE UNKNOWN | | |
| TMDL Status | Final | Name | Monongahela River TMDL |
| Background/Ambient Data | | Data Source | |
| pH (SU) | | | |
| Temperature (°F) | | | |
| Hardness (mg/L) | | | |
| Other: | | | |
| Nearest Downstream Public Water Supply Intake | Municipal Authority of Washington Township | | |
| PWS Waters | Monongahela River | Flow at Intake (cfs) | 530 |
| PWS RMI | 45.8 | Distance from Outfall (mi) | 0.1 |

Changes Since Last Permit Issuance: NONE

Other Comments: The STP discharges to the Monongahela River which has an EPA Approved TMDL and is impaired by PCBs & Chlordane. No WLAs have been developed for this sewage discharge as neither PCBs nor Chlordane is typically found in sewage but instead found in legacy sediments. No additional monitoring requirements for these pollutants will be placed on this facility at this time.

| Treatment Facility Summary | | | | |
|---|----------------------------|--------------------------|---------------------|------------------------|
| Treatment Facility Name: Fayette City STP | | | | |
| WQM Permit No. | Issuance Date | | | |
| 461S27 | | | | |
| 461S27 A-1 | 05/18/1993 | | | |
| Waste Type | Degree of Treatment | Process Type | Disinfection | Avg Annual Flow (MGD) |
| Sewage | Secondary | Sequencing Batch Reactor | Gas Chlorine | 0.125 |
| | | | | |
| Hydraulic Capacity (MGD) | Organic Capacity (lbs/day) | Load Status | Biosolids Treatment | Biosolids Use/Disposal |
| 0.175 | 209 | | Drying | Landfill |

Changes Since Last Permit Issuance: None

Other Comments: N/A

Compliance History

Operations Compliance Check Summary Report

Facility: Fayette City Borough WWTP

NPDES Permit No.: PA0020702

Compliance Review Period: 12/16/2020-12/16/2025

Inspection Summary:

| INSP ID | INSP CATEGORY | INSP DATE | INSP TYPE | AGENCY | INSPECTION RESULT | INSPECTOR ID | INSPECTOR | INSPECTION COMMENT | CREATION DATE | UPDATE DATE | # OF VIOLATIONS |
|-------------------------|---------------|------------|----------------------------|-------------------------------------|---------------------|--------------|--------------------|--|---------------|-------------|--------------------|
| 3931812 | PF | 01/24/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00434771 | DUNN, HOWARD | ACO | 03/07/2025 | 08/03/2025 | 1 |
| 3931844 | PF | 02/03/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00434771 | DUNN, HOWARD | ACO | 03/07/2025 | 08/03/2025 | 1 |
| 4020813 | PF | 07/24/2025 | Chapter 94 Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00833634 | LUCAS, AUSTIN | | 07/24/2025 | 08/01/2025 | 1 |
| 4003804 | PF | 06/27/2025 | Administrative/File Review | PA Dept of Environmental Protection | Violation(s) Noted | 00610195 | KOHUT, JEFFREY | | 06/27/2025 | 06/27/2025 | 1 |
| 3942566 | PF | 03/05/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | No Violations Noted | 00763477 | STEWART, JAMES | | 03/21/2025 | 03/21/2025 | 0 |
| 3922114 | PF | 01/09/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 02/21/2025 | 02/25/2025 | 8 |
| 3924495 | PF | 01/31/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 02/25/2025 | 02/25/2025 | 1 |
| 3922114 | PF | 01/09/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 02/21/2025 | 02/25/2025 | 8 |
| 3924495 | PF | 01/31/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 02/25/2025 | 02/25/2025 | 1 |
| 3923669 | PF | 01/27/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 02/24/2025 | 02/24/2025 | 1 |
| 3922417 | PF | 01/17/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 02/21/2025 | 02/21/2025 | 2 |
| 3744769 | PF | 03/19/2024 | Compliance Evaluation | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 04/14/2024 | 02/04/2025 | 11 |
| 3790788 | PF | 07/08/2024 | Chapter 94 Inspection | PA Dept of Environmental Protection | Violation(s) Noted | 00789778 | ASCOLILLO, ANTHONY | | 07/08/2024 | 02/04/2025 | 1 |
| 3744934 | PF | 03/18/2024 | Administrative/File Review | PA Dept of Environmental Protection | No Violations Noted | 00763477 | STEWART, JAMES | An administrative review revealed no effluent violations, however (4) CSO reports have not been submitted. This will be noted on the 3.19.24 CFI | 04/15/2024 | 04/15/2024 | 0 |

**NPDES Permit Fact Sheet
Fayette City Borough WWTP**

NPDES Permit No. PA0020702

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|-------------------------|----|------------|--------------------------------------|-------------------------------------|---------------------|----------|----------------|---|------------|------------|--------------------|
| 3423549 | PF | 09/06/2022 | Compliance Evaluation | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 09/16/2022 | 01/26/2024 | 2 |
| 3378053 | PF | 12/14/2021 | Combined Sewer Overflow-Non-Sampling | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 06/10/2022 | 01/26/2024 | 2 |
| 3593065 | PF | 07/18/2023 | Compliance Evaluation | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 07/31/2023 | 01/26/2024 | 7 |
| 3300119 | PF | 12/14/2021 | Compliance Evaluation | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 12/28/2021 | 01/22/2024 | 9 |
| 3199133 | PF | 05/17/2021 | Compliance Evaluation | PA Dept of Environmental Protection | Violation(s) Noted | 00763477 | STEWART, JAMES | | 05/31/2021 | 12/29/2023 | 10 |
| 3593046 | PF | 07/17/2023 | Administrative/File Review | PA Dept of Environmental Protection | No Violations Noted | 00763477 | STEWART, JAMES | An administrative review from 1/1/2022 to 7/17/2023 revealed no effluent violations. The CSO reports need separated out from the Chapter 94 reports. | 07/31/2023 | 07/31/2023 | 0 |
| 3295639 | PF | 12/13/2021 | Administrative/File Review | PA Dept of Environmental Protection | No Violations Noted | 00763477 | STEWART, JAMES | An administrative review from 5/1/21 to 12/13/21 revealed two effluent violations which have been noted on the 12.14.21 CEI report. | 12/16/2021 | 12/16/2021 | 0 |
| 3194787 | PF | 05/19/2021 | Administrative/File Review | PA Dept of Environmental Protection | No Violations Noted | 00763477 | STEWART, JAMES | An administrative review of the 2020 Chapter 94 report revealed no organic or hydraulic overloads. 2.25 dry tons of sludge were removed from the plant in 2020. | 05/20/2021 | 05/20/2021 | 0 |
| 3194782 | PF | 05/18/2021 | Administrative/File Review | PA Dept of Environmental Protection | No Violations Noted | 00763477 | STEWART, JAMES | An administrative review from the last inspection on 10/25/19 to 5/18/21 revealed two fecal violations which have been noted on the CEI inspection on 5/17/21. | 05/20/2021 | 05/20/2021 | 0 |
| 3924518 | PF | 02/04/2025 | Routine/Partial Inspection | PA Dept of Environmental Protection | No Violations Noted | 00763477 | STEWART, JAMES | | 02/25/2025 | | 0 |

Violation Summary:

| VIOL ID | VIOLATION DATE | VIOLATION TYPE | VIOLATION TYPE DESC | VIOL CODE ID | VIOL PROGRAM | RESOLVED DATE | INSP ID | INSP CATEGORY | INSPECTED DATE | INSP TYPE | INSPECTOR |
|---------|----------------|----------------|--|--------------|--------------|---------------|---------|---------------|----------------|----------------------------|----------------|
| 8218099 | 01/09/2025 | 91.33(A) | 91 - Failure to immediately report a pollution incident to DEP for non-NPDES permitted activities | 22434 | WPCES | | 3922114 | PF | 01/09/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8218100 | 01/09/2025 | 92A.41(B) | NPDES - Failure to orally notify DEP within 4 hours of a pollution incident or submit written report within 5 days of incident | 17288 | WPCNP | | 3922114 | PF | 01/09/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8218101 | 01/09/2025 | 92A.41(A)5 | NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance | 17260 | WPCNP | | 3922114 | PF | 01/09/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8218102 | 01/09/2025 | 92A.44 | NPDES - Violation of effluent limits in Part A of permit | 17291 | WPCNP | | 3922114 | PF | 01/09/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8218103 | 01/09/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | | 3922114 | PF | 01/09/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8218104 | 01/09/2025 | CSL611 | CSL - Failure to comply with DEP regulations or the Clean Streams Law | 22448 | WPCES | | 3922114 | PF | 01/09/2025 | Routine/Partial Inspection | STEWART, JAMES |

**NPDES Permit Fact Sheet
Fayette City Borough WWTP**

NPDES Permit No. PA0020702

| | | | | | | | | | | | |
|---------|------------|-------------|--|-------|-------|------------|---------|----|------------|-----------------------------|----------------|
| 8221896 | 01/17/2025 | 92A.46 | NPDES - Violation of Part C permit condition(s) | 17292 | WPCNP | | 3922417 | PF | 01/17/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8221897 | 01/17/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | | 3922417 | PF | 01/17/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8222097 | 01/27/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | | 3923669 | PF | 01/27/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8222209 | 01/31/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | | 3924495 | PF | 01/31/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8223735 | 01/24/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | 08/03/2025 | 3931812 | PF | 01/24/2025 | Routine/Partial Inspection | DUNN, HOWARD |
| 8223742 | 02/03/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | 08/03/2025 | 3931844 | PF | 02/03/2025 | Routine/Partial Inspection | DUNN, HOWARD |
| 8238993 | 06/27/2025 | CSL611 | CSL - Failure to comply with DEP regulations or the Clean Streams Law | 22448 | WPCES | 06/27/2025 | 4003804 | PF | 06/27/2025 | Administrative/ File Review | KOHUT, JEFFREY |
| 8242954 | 07/24/2025 | 94.12(A) | Wasteload Management - Failure to submit a timely Chapter 94 report | 17325 | WPCWP | 08/01/2025 | 4020813 | PF | 07/24/2025 | Chapter 94 Inspection | LUCAS, AUSTIN |
| 918897 | 05/17/2021 | 92A.44 | NPDES - Violation of effluent limits in Part A of permit | 17291 | WPCNP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918898 | 05/17/2021 | FLOW DEVICE | NPDES - 92A.61(D)ND Failure to monitor flow as required by the NPDES permit- No Flow Measurement Device | 20548 | WPCNP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918899 | 05/17/2021 | 92A.41(A)5 | NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance | 17260 | WPCNP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918900 | 05/17/2021 | 92A.41(A)5 | NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance | 17260 | WPCNP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918901 | 05/17/2021 | 92A.46 | NPDES - Violation of Part C permit condition(s) | 17292 | WPCNP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918902 | 05/17/2021 | CSL611 | CSL - Failure to comply with terms and conditions of a WQM permit | 17324 | WPCWP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918903 | 05/17/2021 | CSL611 | CSL - Failure to comply with terms and conditions of a WQM permit | 17324 | WPCWP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918904 | 05/17/2021 | 302.1201 | Operator Certification - Operator failed to comply with the Act or Chapter 302 regulations | 17335 | WPCWP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918905 | 05/17/2021 | 302.1201 | Operator Certification - Operator failed to comply with the Act or Chapter 302 regulations | 17335 | WPCWP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 918906 | 05/17/2021 | 302.1201 | Operator Certification - Operator failed to comply with the Act or Chapter 302 regulations | 17335 | WPCWP | 05/17/2021 | 3199133 | PF | 05/17/2021 | Compliance Evaluation | STEWART, JAMES |
| 940303 | 12/14/2021 | 92A.44 | NPDES - Violation of effluent limits in Part A of permit | 17291 | WPCNP | 01/22/2024 | 3300119 | PF | 12/14/2021 | Compliance Evaluation | STEWART, JAMES |
| 940304 | 12/14/2021 | 92A.41(A)4 | NPDES - Failure to take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of a permit | 17259 | WPCNP | 01/22/2024 | 3300119 | PF | 12/14/2021 | Compliance Evaluation | STEWART, JAMES |
| 940305 | 12/14/2021 | FLOW DEVICE | NPDES - 92A.61(D)ND Failure to monitor flow as required by the NPDES permit- No Flow Measurement Device | 20548 | WPCNP | 01/22/2024 | 3300119 | PF | 12/14/2021 | Compliance Evaluation | STEWART, JAMES |

**NPDES Permit Fact Sheet
Fayette City Borough WWTP**

NPDES Permit No. PA0020702

Open Violations by Client ID:

| INSP PROGRAM | PROGRAM SPECIFIC ID | INSP ID | VIOLATION ID | INSPECTION CATEGORY | VIOLATION DATE | VIOLATION CODE | VIOLATION | PF INSPECTOR |
|--------------|---------------------|---------|--------------|---------------------|----------------|----------------|--|---------------|
| WPC NPDES | PA0020702 | 3922114 | 8218099 | PF | 01/09/2025 | 91.33(A) | 91 - Failure to immediately report a pollution incident to DEP for non-NPDES permitted activities | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3922114 | 8218100 | PF | 01/09/2025 | 92A.41(B) | NPDES - Failure to orally notify DEP within 4 hours of a pollution incident or submit written report within 5 days of incident | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3922114 | 8218101 | PF | 01/09/2025 | 92A.41(A)5 | NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3922114 | 8218102 | PF | 01/09/2025 | 92A.44 | NPDES - Violation of effluent limits in Part A of permit | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3922114 | 8218103 | PF | 01/09/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3922114 | 8218104 | PF | 01/09/2025 | CSL611 | CSL - Failure to comply with DEP regulations or the Clean Streams Law | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3922417 | 8221896 | PF | 01/17/2025 | 92A.46 | NPDES - Violation of Part C permit condition(s) | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3922417 | 8221897 | PF | 01/17/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3923669 | 8222097 | PF | 01/27/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | STEWART,JAMES |
| WPC NPDES | PA0020702 | 3924495 | 8222209 | PF | 01/31/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | STEWART,JAMES |

Enforcement Summary:

| ENF ID | ENF TYPE | ENF TYPE DESC | CREATION DATE | EXECUTED DATE | INITIATED DATE | VIOL CODE ID | PROGRAM NAME | VIOLATIONS | # OF VIOLATIONS | PENALTY AMOUNT | AMOUNT RECEIVED | TOTAL AMOUNT DUE | ENF FINAL STATUS | ENF CLOSED DATE | ENF COMMENT |
|------------------------|----------|----------------------|---------------|---------------|----------------|--------------|--------------|---|-----------------|----------------|-----------------|------------------|--------------------------|-----------------|--|
| 418338 | NOV | Notice of Violation | 08/01/2023 | 07/31/2023 | | 17323 | WPCWP | 92A.41(A)12B; 92A.41(A)5; 92A.46; CSL611A; FLOW DEVICE | 6 | | | | Administrative Close Out | 03/13/2024 | |
| 438128 | ADORD | Administrative Order | 02/04/2025 | 07/26/2024 | | 20546 | WPCNP | 302.1202; 92A.41(A)12B; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); 94.12(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 21 | | | | | | |
| 400638 | ADORD | Administrative Order | 01/14/2022 | 01/14/2022 | | 17291 | WPCNP | 302.1201; 92A.41(A)10A; 92A.41(A)4; 92A.41(A)5; 92A.44; 92A.46; CSL611; CSO-LTCP; FLOW DEVICE | 26 | | | | | | AO for failure to operate and maintain Fayette City STP in compliance with the NPDES Permit and unlawful discharge untreated sewage to Waters of the Commonwealth. |
| 400638 | ADORD | Administrative Order | 01/14/2022 | 01/14/2022 | | 17292 | WPCNP | 302.1201; 92A.41(A)10A; 92A.41(A)4; 92A.41(A)5; 92A.44; 92A.46; CSL611; CSO-LTCP; FLOW DEVICE | 26 | | | | | | AO for failure to operate and maintain Fayette City STP in compliance with the NPDES Permit and unlawful discharge untreated sewage to Waters of the Commonwealth. |
| 400638 | ADORD | Administrative Order | 01/14/2022 | 01/14/2022 | | 17281 | WPCNP | 302.1201; 92A.41(A)10A; 92A.41(A)4; 92A.41(A)5; 92A.44; 92A.46; CSL611 | 26 | | | | | | AO for failure to operate and maintain Fayette City STP in compliance with the NPDES Permit and unlawful discharge |
| 438128 | ADORD | Administrative Order | 02/04/2025 | 07/26/2024 | | 17303 | WPCNP | 302.1202; 92A.41(A)12B; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); 94.12(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 21 | | | | | | |
| 427873 | NOV | Notice of Violation | 04/15/2024 | 04/15/2024 | | 17336 | WPCWP | 302.1202; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 11 | | | | Administrative Close Out | 09/13/2024 | |
| 438128 | ADORD | Administrative Order | 02/04/2025 | 07/26/2024 | | 17325 | WPCWP | 302.1202; 92A.41(A)12B; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); 94.12(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 21 | | | | | | |
| 418338 | NOV | Notice of Violation | 08/01/2023 | 07/31/2023 | | 17260 | WPCNP | 92A.41(A)12B; 92A.41(A)5; 92A.46; CSL611A; FLOW DEVICE | 6 | | | | Administrative Close Out | 03/13/2024 | |
| 418338 | NOV | Notice of Violation | 08/01/2023 | 07/31/2023 | | 20546 | WPCNP | 92A.41(A)12B; 92A.41(A)5; 92A.46; CSL611A; FLOW | 6 | | | | Administrative Close Out | 03/13/2024 | |

**NPDES Permit Fact Sheet
Fayette City Borough WWTP**

NPDES Permit No. PA0020702

| | | | | | | | | | | | | | | | | | |
|------------------------|-------|----------------------|------------|------------|--|-------|-------|---|----|--|--|--|-----------------------------|------------|--|--|---|
| 438852 | NOV | Notice of Violation | 02/25/2025 | 02/21/2025 | | 17320 | WPCWP | 91.33(A); 92A.41(A)5; 92A.41(B); 92A.44; CSL201; CSL611 | 6 | | | | | | | | |
| 438128 | ADORD | Administrative Order | 02/04/2025 | 07/26/2024 | | 17262 | WPCNP | 302.1202; 92A.41(A)12B; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); 94.12(A); CSL611; CSL611A; CSO- NMC8; CSO-NMC9; FLOW DEVICE | 21 | | | | | | | | |
| 438128 | ADORD | Administrative Order | 02/04/2025 | 07/26/2024 | | 17336 | WPCWP | 302.1202; 92A.41(A)12B; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); 94.12(A); CSL611; CSL611A; CSO- NMC8; CSO-NMC9; FLOW DEVICE | 21 | | | | | | | | |
| 427873 | NOV | Notice of Violation | 04/15/2024 | 04/15/2024 | | 17292 | WPCNP | 302.1202; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 11 | | | | Administrative Close Out | 09/13/2024 | | | |
| 400638 | ADORD | Administrative Order | 01/14/2022 | 01/14/2022 | | 20538 | WPCNP | 302.1201; 92A.41(A)10A; 92A.41(A)4; 92A.41(A)5; 92A.44; 92A.46; CSL611; | 26 | | | | | | | | AO for failure to operate and maintain the Fayette City STP in compliance with the NPDES Permit and unlawful discharges |
| 438128 | ADORD | Administrative Order | 02/04/2025 | 07/26/2024 | | 20547 | WPCNP | 302.1202; 92A.41(A)12B; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); 94.12(A); CSL611; CSL611A; CSO- NMC8; CSO-NMC9; FLOW DEVICE | 21 | | | | | | | | |
| 427873 | NOV | Notice of Violation | 04/15/2024 | 04/15/2024 | | 20547 | WPCNP | 302.1202; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 11 | | | | Administrative Close Out | 09/13/2024 | | | |
| 427873 | NOV | Notice of Violation | 04/15/2024 | 04/15/2024 | | 17260 | WPCNP | 302.1202; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 11 | | | | Administrative Close Out | 09/13/2024 | | | |
| 445118 | NOV | Notice of Violation | 08/01/2025 | 07/31/2025 | | 17325 | WPCWP | 94.12(A) | 1 | | | | | | | | |
| 438128 | ADORD | Administrative Order | 02/04/2025 | 07/26/2024 | | 17323 | WPCWP | 302.1202; 92A.41(A)12B; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); 94.12(A); CSL611; CSL611A; CSO- NMC8; CSO-NMC9; FLOW DEVICE | 21 | | | | | | | | |
| 427873 | NOV | Notice of Violation | 04/15/2024 | 04/15/2024 | | 20547 | WPCNP | 302.1202; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 11 | | | | Administrative Close Out | 09/13/2024 | | | |
| 427873 | NOV | Notice of Violation | 04/15/2024 | 04/15/2024 | | 17260 | WPCNP | 302.1202; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); CSL611; CSL611A; CSO-NMC8; CSO-NMC9; FLOW DEVICE | 11 | | | | Administrative Close Out | 09/13/2024 | | | |
| 445118 | NOV | Notice of Violation | 08/01/2025 | 07/31/2025 | | 17325 | WPCWP | 94.12(A) | 1 | | | | | | | | |
| 438128 | ADORD | Administrative Order | 02/04/2025 | 07/26/2024 | | 17323 | WPCWP | 302.1202; 92A.41(A)12B; 92A.41(A)5; 92A.41(A)9; 92A.46; 92A.75(A); 94.12(A); CSL611; CSL611A; CSO- NMC8; CSO-NMC9; FLOW DEVICE | 21 | | | | | | | | |

**NPDES Permit Fact Sheet
Fayette City Borough WWTP**

NPDES Permit No. PA0020702

Effluent Violation Summary:

| NON_COMPLIANCE_DATE | NON_COMPL_TYPE_DESC | NON_COMPL_CATEGORY_DESC | PARAMETER | SAMPLE_VALUE | VIOLATION_CONDITION | PERMIT |
|---------------------|---|-------------------------|--|--------------|---------------------|--------|
| 5/30/2022 | Late DMR Submission | Other Violations | | | | |
| 8/29/2022 | Late DMR Submission | Other Violations | | | | |
| 10/4/2022 | Late DMR Submission | Other Violations | | | | |
| 10/29/2022 | Late DMR Submission | Other Violations | | | | |
| 10/29/2022 | Violation of permit condition | Effluent | Fecal Coliform | > 12100 | > | 1000 |
| 10/29/2022 | Violation of permit condition | Effluent | Fecal Coliform | > 2971 | > | 200 |
| 3/30/2023 | Late DMR Submission | Other Violations | | | | |
| 5/29/2023 | Late DMR Submission | Other Violations | | | | |
| 8/28/2023 | Violation of permit condition | Effluent | Fecal Coliform | > 12100 | > | 1000 |
| 8/28/2023 | Violation of permit condition | Effluent | Fecal Coliform | > 137 | > | 200 |
| 10/29/2023 | Late DMR Submission | Other Violations | | | | |
| 4/28/2024 | Violation of permit condition | Effluent | Fecal Coliform | > 12100 | > | 10000 |
| 4/28/2024 | Violation of permit condition | Effluent | Fecal Coliform | > 41 | > | 2000 |
| 5/28/2024 | Violation of permit condition | Effluent | Fecal Coliform | > 330 | > | 2000 |
| 5/28/2024 | Violation of permit condition | Effluent | Fecal Coliform | > 9932 | > | 10000 |
| 5/28/2024 | Violation of permit condition | Effluent | Total Suspended Solids | 78 | > | 45 |
| 8/28/2024 | Violation of permit condition | Effluent | Total Suspended Solids | 47 | > | 30 |
| 8/28/2024 | Violation of permit condition | Effluent | Total Suspended Solids | 76 | > | 45 |
| 9/28/2024 | Violation of permit condition | Effluent | Total Suspended Solids | 48 | > | 30 |
| 9/28/2024 | Violation of permit condition | Effluent | Total Suspended Solids | 61 | > | 45 |
| 10/28/2024 | Violation of permit condition | Effluent | Total Suspended Solids | 103 | > | 45 |
| 10/28/2024 | Violation of permit condition | Effluent | Total Suspended Solids | 69 | > | 30 |
| 2/26/2025 | Other | Other Violations | | | | |
| 2/26/2025 | Violation of permit schedule | Other Violations | | | | |
| 2/28/2025 | Sample collection less frequent than required | Other Violations | | | | |
| 2/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | 12100 | > | 10000 |
| 3/31/2025 | Late DMR Submission | Other Violations | | | | |
| 3/31/2025 | Other | Other Violations | | | | |
| 3/31/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 12100 | > | 10000 |
| 3/31/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 485 | > | 2000 |
| 3/31/2025 | Violation of permit condition | Effluent | Total Suspended Solids | 106 | > | 45 |
| 3/31/2025 | Violation of permit condition | Effluent | Total Suspended Solids | 38 | > | 30 |
| 4/28/2025 | Other | Other Violations | | | | |
| 4/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 349 | > | 2000 |
| 4/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 4902 | > | 10000 |
| 5/27/2025 | | Unauthorized Discharges | | | | |
| 5/27/2025 | Violation of permit condition | Other Violations | | | | |
| 7/28/2025 | Violation of permit schedule | Other Violations | | | | |
| 7/28/2025 | Violation of permit condition | Effluent | Carbonaceous Biochemical Oxygen Demand (CBOD5) | > 18 | > | 25 |
| 7/28/2025 | Violation of permit condition | Effluent | Carbonaceous Biochemical Oxygen Demand (CBOD5) | > 35 | > | 38 |
| 7/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 12100 | > | 1000 |
| 7/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 88 | > | 200 |
| 3/27/2025 | Other | Other Violations | | | | |
| 9/28/2025 | | Unauthorized Discharges | | | | |
| 9/28/2025 | | Unauthorized Discharges | | | | |
| 9/28/2025 | Other | Other Violations | | | | |
| 9/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 12100 | > | 1000 |
| 9/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 147 | > | 200 |
| 10/28/2025 | Other | Other Violations | | | | |
| 10/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 12100 | > | 1000 |
| 10/28/2025 | Violation of permit condition | Effluent | Fecal Coliform | > 35 | > | 200 |
| 11/28/2025 | Violation of permit condition | Other Violations | | | | |

**NPDES Permit Fact Sheet
Fayette City Borough WWTP**

NPDES Permit No. PA0020702

Unauthorized Discharges:

| | | | | | | | | | | | |
|---------|------------|--------|---|-------|-------|------------|---------|----|------------|----------------------------|----------------|
| 8221897 | 01/17/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | | 3922417 | PF | 01/17/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8222097 | 01/27/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | | 3923669 | PF | 01/27/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8222209 | 01/31/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | | 3924495 | PF | 01/31/2025 | Routine/Partial Inspection | STEWART, JAMES |
| 8223735 | 01/24/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | 08/03/2025 | 3931812 | PF | 01/24/2025 | Routine/Partial Inspection | DUNN, HOWARD |
| 8223742 | 02/03/2025 | CSL201 | CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth | 17320 | WPCWP | 08/03/2025 | 3931844 | PF | 02/03/2025 | Routine/Partial Inspection | DUNN, HOWARD |

Compliance Status: Facility is in general non-compliance

Completed by: Howard Dunn

Completed date: 12/16/2025

Development of Effluent Limitations

| | | | |
|--------------------------------|-----------------|--------------------------|-----------------|
| Outfall No. | 001 | Design Flow (MGD) | 0.125 |
| Latitude | 40° 6' 11.00" | Longitude | -79° 50' 35.00" |
| Wastewater Description: | Sewage Effluent | | |

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

| Pollutant | Limit (mg/l) | SBC | Federal Regulation | State Regulation |
|------------------------------|-----------------|-----------------|--------------------|------------------|
| CBOD ₅ | 25 | Average Monthly | 133.102(a)(4)(i) | 92a.47(a)(1) |
| | 40 | Average Weekly | 133.102(a)(4)(ii) | 92a.47(a)(2) |
| Total Suspended Solids | 30 | Average Monthly | 133.102(b)(1) | 92a.47(a)(1) |
| | 45 | Average Weekly | 133.102(b)(2) | 92a.47(a)(2) |
| pH | 6.0 – 9.0 S.U. | Min – Max | 133.102(c) | 95.2(1) |
| Fecal Coliform (5/1 – 9/30) | 200 / 100 ml | Geo Mean | - | 92a.47(a)(4) |
| Fecal Coliform (5/1 – 9/30) | 1,000 / 100 ml | IMAX | - | 92a.47(a)(4) |
| Fecal Coliform (10/1 – 4/30) | 2,000 / 100 ml | Geo Mean | - | 92a.47(a)(5) |
| Fecal Coliform (10/1 – 4/30) | 10,000 / 100 ml | IMAX | - | 92a.47(a)(5) |
| Total Residual Chlorine | 0.5 | Average Monthly | - | 92a.48(b)(2) |

Comments: The discharge was evaluated using WQM 7.0 Version 1.1 (Attachment 2) to evaluate CBOD₅, Ammonia Nitrogen, and Dissolved Oxygen. The modeling results show the above technology based effluent limitations are appropriate.

For existing discharges, if WQM modeling results for summer indicates that an average monthly limit of 25 mg/L (ammonia-nitrogen) is acceptable, the application manager will generally establish a year-round monitoring requirement for ammonia-nitrogen (Section I.A, Note 5, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits).

Water Quality-Based Limitations

Comments: Based upon module output files (WQM 7.0 and TRC_CALC), no WQBELs will be established at this time for this facility (Attachments 2 and 3).

Best Professional Judgment (BPJ) Limitations

Comments: A minimum Dissolved Oxygen (DO) limit of 4.0 mg/L will be established based on BPJ to ensure adequate operation and maintenance (Section I.A, Note 6, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits).

Anti-Backsliding

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Previous limits can be used pursuant to EPA's anti-backsliding regulation 40 CFR 122.44 (l) Reissued permits. (1) Except as provided in paragraph (l)(2) of this section 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). (2) In the case of effluent limitations established on the basis of Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.

The facility is not seeking to revise the previously permitted effluent limits.

Additional Considerations

Monitoring frequency for the proposed effluent limits are based upon Table 6-3, Self-Monitoring Requirements for Sewage Dischargers, from the Department's Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits (Document No. 386-0400-001).

Mass loading limits will be established for CBOD₅, TSS, NH₃-N, and where necessary Total P and Total N. In general, average monthly mass loading limits will be established for CBOD₅, TSS, NH₃-N, and where necessary Total P and Total N, and average weekly mass loading limits will be established for CBOD₅ and TSS (Section IV, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits).

For POTWs with design flows greater than 2,000 GPD and for non-municipal sewage facilities that service municipalities or portions thereof, the application manager will establish influent BOD₅ and TSS monitoring in the permit using the same frequency and sample type as is used for other effluent parameters (Section IV.E.8, SOP No. BCW-PWT-002, New and Reissuance Sewage Individual NPDES Permit Applications).

Sewage dischargers will include monitoring, at a minimum, for E. Coli, in new and reissued permits, with a monitoring frequency of 1/quarter for design flows ≥ 0.05 and < 1.0 MGD per 25 Pa. Code § 92a.061, and Section I.A, Note 12, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits.

Nutrient monitoring is required to establish the nutrient load from the wastewater treatment facility and the impacts that load may have on the quality of the receiving stream(s). The discharge is to waters not impaired for nutrients. A 1/quarter monitoring requirement for Total N & Total P has been added to the permit per 25 Pa. Code § 92a.61 and Section I.A, Note 7 & 8, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits.

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 | Weekly Average | Minimum | Average Monthly | Weekly Average | Instant. Maximum | | |
| Flow (MGD) | Report | Report Daily Max | XXX | XXX | XXX | XXX | Continuous | Metered |
| pH (S.U.) | XXX | XXX | 6.0 Inst Min | XXX | XXX | 9.0 | 1/day | Grab |
| DO | XXX | XXX | 4.0 Daily Min | XXX | XXX | XXX | 1/day | Grab |
| TRC | XXX | XXX | XXX | 0.5 | XXX | 1.6 | 1/day | Grab |
| CBOD5 | 26.0 | 41.0 | XXX | 25.0 | 40.0 | 50 | 1/week | 8-Hr Composite |
| BOD5 Raw Sewage Influent | Report | Report | XXX | Report | Report | XXX | 1/week | 8-Hr Composite |
| TSS Raw Sewage Influent | Report | Report | XXX | Report | Report | XXX | 1/week | 8-Hr Composite |
| TSS | 31.0 | 46.0 | XXX | 30.0 | 45.0 | 60 | 1/week | 8-Hr Composite |
| Fecal Coliform (No./100 ml) Nov 1 - Apr 30 | XXX | XXX | XXX | 2000 Geo Mean | XXX | 10000 | 1/week | Grab |
| Fecal Coliform (No./100 ml) May 1 - Oct 31 | XXX | XXX | XXX | 200 Geo Mean | XXX | 1000 | 1/week | Grab |
| E. Coli (No./100 ml) | XXX | XXX | XXX | XXX | XXX | Report | 1/quarter | Grab |
| Total Nitrogen | XXX | XXX | XXX | Report Avg Qrtly | XXX | XXX | 1/quarter | 8-Hr Composite |
| Ammonia-Nitrogen | Report | XXX | XXX | Report | XXX | Report | 1/week | 8-Hr Composite |

Outfall 001 , Continued (from 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 | Weekly Average | Minimum | Average Monthly | Weekly Average | Instant. Maximum | | |
| Total Phosphorus | XXX | XXX | XXX | Report Avg Qrtly | XXX | XXX | 1/quarter | 8-Hr Composite |

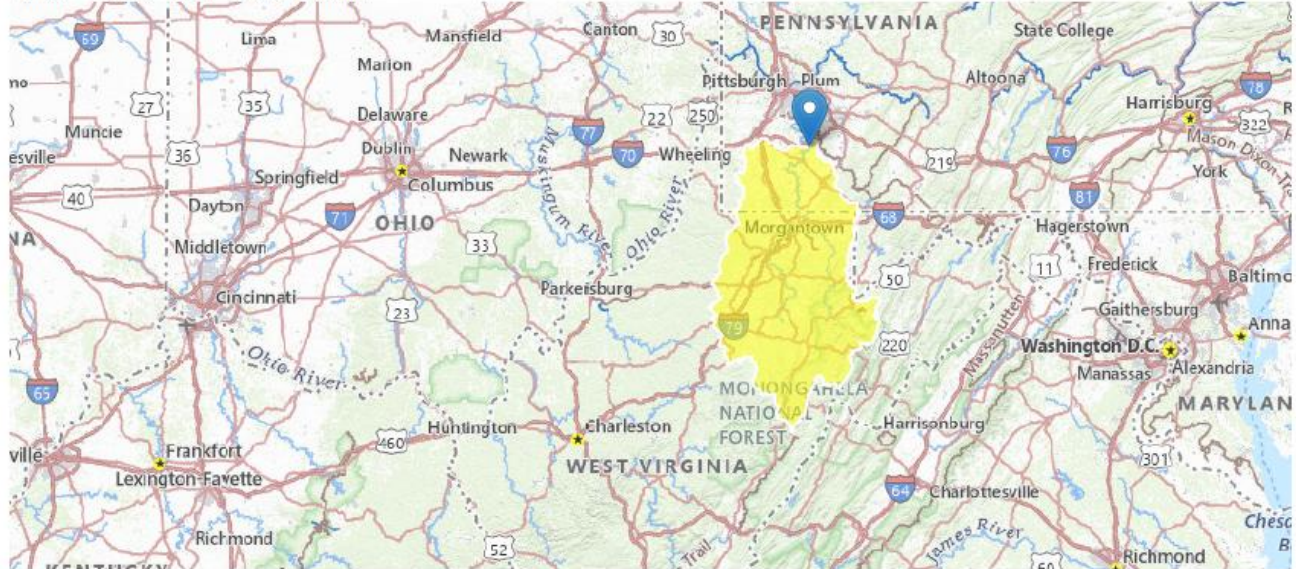
Compliance Sampling Location: Outfall 001

Other Comments: N/A

Attachment 1 – USGS StreamStats Report

PA0020702 - StreamStats Report

Region ID: PA
Workspace ID: PA20251211172247478000
Clicked Point (Latitude, Longitude): 40.10329, -79.84501
Time: 2025-12-11 12:23:17 -0500



Collapse All

Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 5190 | square miles |
| ELEV | Mean Basin Elevation | 1845 | 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 | 5190 | square miles | 2.26 | 1400 |
| ELEV | Mean Basin Elevation | 1845 | 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 | 687 | ft ³ /s |
| 30 Day 2 Year Low Flow | 912 | ft ³ /s |
| 7 Day 10 Year Low Flow | 400 | ft ³ /s |
| 30 Day 10 Year Low Flow | 468 | ft ³ /s |
| 90 Day 10 Year Low Flow | 696 | 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/>)

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Application Version: 4.29.4

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

Attachment 2 – WQM 7.0 Version 1.1 – Summer Period

Input Data WQM 7.0

| SWP Basin | Stream Code | Stream Name | RMI | Elevation (ft) | Drainage Area (sq mi) | Slope (ft/ft) | PWS Withdrawal (mgd) | Apply FC |
|--------------|----------------|-------------------|--------|-------------------|-----------------------------|------------------|----------------------------|-------------------------------------|
| 19A | 37185 | MONONGAHELA RIVER | 45.900 | 743.50 | 5190.00 | 0.00000 | 0.00 | <input checked="" type="checkbox"/> |

Stream Data

| Design Cond. | LFY (cfsm) | Trib Flow (cfs) | Stream Flow (cfs) | Rch Trav Time (days) | Rch Velocity (fps) | WD Ratio | Rch Width (ft) | Rch Depth (ft) | Tributary Temp (°C) | Stream Temp (°C) | pH |
|-----------------|---------------|-----------------------|-------------------------|-------------------------------|--------------------------|-------------|----------------------|----------------------|---------------------------|------------------------|------|
| Q7-10 | 0.102 | 0.00 | 0.00 | 0.000 | 0.000 | 0.0 | 797.00 | 7.50 | 25.00 | 7.00 | 0.00 |
| Q1-10 | | 0.00 | 0.00 | 0.000 | 0.000 | | | | | | |
| Q30-10 | | 0.00 | 0.00 | 0.000 | 0.000 | | | | | | |

Discharge Data

| Name | Permit Number | Existing Disc Flow (mgd) | Permitted Disc Flow (mgd) | Design Disc Flow (mgd) | Reserve Factor | Disc Temp (°C) | Disc pH |
|--------------|---------------|-----------------------------------|------------------------------------|---------------------------------|-------------------|----------------------|------------|
| Fayette City | PA0020702 | 0.0000 | 0.1250 | 0.0000 | 0.000 | 20.00 | 7.00 |

Parameter Data

| Parameter Name | Disc Conc (mg/L) | Trib Conc (mg/L) | Stream Conc (mg/L) | Fate Coef (1/days) |
|------------------|------------------------|------------------------|--------------------------|--------------------------|
| CBOD5 | 25.00 | 2.00 | 0.00 | 1.50 |
| Dissolved Oxygen | 3.00 | 8.38 | 0.00 | 0.00 |
| NH3-N | 25.00 | 0.00 | 0.00 | 0.70 |

Input Data WQM 7.0

| SWP Basin | Stream Code | Stream Name | RMI | Elevation (ft) | Drainage Area (sq mi) | Slope (ft/ft) | PWS Withdrawal (mgd) | Apply FC |
|--------------|----------------|-------------------|--------|-------------------|-----------------------------|------------------|----------------------------|-------------------------------------|
| 19A | 37185 | MONONGAHELA RIVER | 45.000 | 743.40 | 5190.10 | 0.00000 | 0.00 | <input checked="" type="checkbox"/> |

Stream Data

| Design Cond. | LFY (cfsm) | Trib Flow (cfs) | Stream Flow (cfs) | Rch Trav Time (days) | Rch Velocity (fps) | WD Ratio | Rch Width (ft) | Rch Depth (ft) | Tributary Temp (°C) | pH | Stream Temp (°C) | pH |
|-----------------|---------------|-----------------------|-------------------------|-------------------------------|--------------------------|-------------|----------------------|----------------------|---------------------------|------|------------------------|------|
| Q7-10 | 0.102 | 0.00 | 0.00 | 0.000 | 0.000 | 0.0 | 791.00 | 7.50 | 25.00 | 7.00 | 0.00 | 0.00 |
| Q1-10 | | 0.00 | 0.00 | 0.000 | 0.000 | | | | | | | |
| Q30-10 | | 0.00 | 0.00 | 0.000 | 0.000 | | | | | | | |

Discharge Data

| Name | Permit Number | Existing Disc Flow (mgd) | Permitted Disc Flow (mgd) | Design Disc Flow (mgd) | Reserve Factor | Disc Temp (°C) | Disc pH |
|------|---------------|-----------------------------------|------------------------------------|---------------------------------|-------------------|----------------------|------------|
| | | 0.0000 | 0.0000 | 0.0000 | 0.000 | 25.00 | 7.00 |

Parameter Data

| Parameter Name | Disc Conc (mg/L) | Trib Conc (mg/L) | Stream Conc (mg/L) | Fate Coef (1/days) |
|------------------|------------------------|------------------------|--------------------------|--------------------------|
| CBOD5 | 25.00 | 2.00 | 0.00 | 1.50 |
| Dissolved Oxygen | 3.00 | 8.24 | 0.00 | 0.00 |
| NH3-N | 25.00 | 0.00 | 0.00 | 0.70 |

WQM 7.0 Hydrodynamic Outputs

| <u>SWP Basin</u> | | <u>Stream Code</u> | | <u>Stream Name</u> | | | | | | | | |
|--------------------|-------------|--------------------|-----------------|--------------------|-------------|-------|-------|-----------|----------|-----------------|---------------|-------------|
| 19A | | 37185 | | MONONGAHELA RIVER | | | | | | | | |
| RMI | Stream Flow | PWS With | Net Stream Flow | Disc Analysis Flow | Reach Slope | Depth | Width | W/D Ratio | Velocity | Reach Trav Time | Analysis Temp | Analysis pH |
| | (cfs) | (cfs) | (cfs) | (cfs) | (ft/ft) | (ft) | (ft) | | (fps) | (days) | (°C) | |
| Q7-10 Flow | | | | | | | | | | | | |
| 45.900 | 529.38 | 0.00 | 529.38 | .1934 | 0.00002 | 7.5 | 797 | 106.27 | 0.09 | 0.621 | 25.00 | 7.00 |
| Q1-10 Flow | | | | | | | | | | | | |
| 45.900 | 338.80 | 0.00 | 338.80 | .1934 | 0.00002 | NA | NA | NA | 0.06 | 0.970 | 25.00 | 7.00 |
| Q30-10 Flow | | | | | | | | | | | | |
| 45.900 | 719.96 | 0.00 | 719.96 | .1934 | 0.00002 | NA | NA | NA | 0.12 | 0.457 | 25.00 | 7.00 |

WQM 7.0 Modeling Specifications

| | | | |
|--------------------|--------|-------------------------------------|-------------------------------------|
| Parameters | Both | Use Inputted Q1-10 and Q30-10 Flows | <input checked="" type="checkbox"/> |
| WLA Method | EMPR | Use Inputted W/D Ratio | <input type="checkbox"/> |
| Q1-10/Q7-10 Ratio | 0.64 | Use Inputted Reach Travel Times | <input type="checkbox"/> |
| Q30-10/Q7-10 Ratio | 1.36 | Temperature Adjust Kr | <input checked="" type="checkbox"/> |
| D.O. Saturation | 90.00% | Use Balanced Technology | <input checked="" type="checkbox"/> |
| D.O. Goal | 5 | | |

WQM 7.0 Wasteload Allocations

| <u>SWP Basin</u> | <u>Stream Code</u> | <u>Stream Name</u> | | | | | | | |
|-------------------------------------|--------------------|---------------------------------|---------------------------|---------------------------------|---------------------------|-------------------------|----------------------|-------------------|----------------------|
| 19A | 37185 | MONONGAHELA RIVER | | | | | | | |
| NH3-N Acute Allocations | | | | | | | | | |
| RMI | Discharge Name | Baseline Criterion (mg/L) | Baseline WLA (mg/L) | Multiple Criterion (mg/L) | Multiple WLA (mg/L) | Critical Reach | Percent Reduction | | |
| 45.900 | Fayette City | 11.08 | 50 | 11.08 | 50 | 0 | 0 | | |
| NH3-N Chronic Allocations | | | | | | | | | |
| RMI | Discharge Name | Baseline Criterion (mg/L) | Baseline WLA (mg/L) | Multiple Criterion (mg/L) | Multiple WLA (mg/L) | Critical Reach | Percent Reduction | | |
| 45.900 | Fayette City | 1.37 | 25 | 1.37 | 25 | 0 | 0 | | |
| Dissolved Oxygen Allocations | | | | | | | | | |
| RMI | Discharge Name | <u>CBOD5</u> | | <u>NH3-N</u> | | <u>Dissolved Oxygen</u> | | Critical Reach | Percent Reduction |
| | | Baseline (mg/L) | Multiple (mg/L) | Baseline (mg/L) | Multiple (mg/L) | Baseline (mg/L) | Multiple (mg/L) | | |
| 45.90 | Fayette City | 25 | 25 | 25 | 25 | 3 | 3 | 0 | 0 |

WQM 7.0 D.O. Simulation

| <u>SWP Basin</u> | <u>Stream Code</u> | <u>Stream Name</u> | | |
|---------------------------------|-----------------------------------|----------------------------------|-----------------------------|----------------|
| 19A | 37185 | MONONGAHELA RIVER | | |
| <u>RMI</u> | <u>Total Discharge Flow (mgd)</u> | <u>Analysis Temperature (°C)</u> | <u>Analysis pH</u> | |
| 45.900 | 0.125 | 24.998 | 7.000 | |
| <u>Reach Width (ft)</u> | <u>Reach Depth (ft)</u> | <u>Reach WDRatio</u> | <u>Reach Velocity (fps)</u> | |
| 797.000 | 7.500 | 106.267 | 0.089 | |
| <u>Reach CBOD5 (mg/L)</u> | <u>Reach Kc (1/days)</u> | <u>Reach NH3-N (mg/L)</u> | <u>Reach Kn (1/days)</u> | |
| 2.01 | 0.004 | 0.01 | 1.028 | |
| <u>Reach DO (mg/L)</u> | <u>Reach Kr (1/days)</u> | <u>Kr Equation</u> | <u>Reach DO Goal (mg/L)</u> | |
| 8.378 | 0.210 | O'Connor | 5 | |
| <u>Reach Travel Time (days)</u> | Subreach Results | | | |
| 0.621 | TravTime (days) | CBOD5 (mg/L) | NH3-N (mg/L) | D.O. (mg/L) |
| | 0.062 | 2.01 | 0.01 | 7.54 |
| | 0.124 | 2.01 | 0.01 | 7.54 |
| | 0.186 | 2.01 | 0.01 | 7.54 |
| | 0.248 | 2.01 | 0.01 | 7.54 |
| | 0.310 | 2.01 | 0.01 | 7.54 |
| | 0.372 | 2.00 | 0.01 | 7.54 |
| | 0.435 | 2.00 | 0.01 | 7.54 |
| | 0.497 | 2.00 | 0.01 | 7.54 |
| | 0.559 | 2.00 | 0.01 | 7.54 |
| | 0.621 | 2.00 | 0.00 | 7.54 |

WQM 7.0 Effluent Limits

| <u>SWP Basin</u> | | <u>Stream Code</u> | <u>Stream Name</u> | | | | |
|------------------|--------------|--------------------|--------------------|------------------|--------------------------------|----------------------------|----------------------------|
| 19A | | 37185 | MONONGAHELA RIVER | | | | |
| RMI | Name | Permit Number | Disc Flow (mgd) | Parameter | Effl. Limit 30-day Ave. (mg/L) | Effl. Limit Maximum (mg/L) | Effl. Limit Minimum (mg/L) |
| 45.900 | Fayette City | PA0020702 | 0.000 | CBOD5 | 25 | | |
| | | | | NH3-N | 25 | 50 | |
| | | | | Dissolved Oxygen | | | 3 |

Attachment 3 – TRC CALC

TRC_CALC

| TRC EVALUATION | | | | |
|---|--|-------------------------------|--------------------------------------|-----------------------------|
| Input appropriate values in A3:A9 and D3:D9 | | | | |
| 530 | = Q stream (cfs) | 0.5 | = CV Daily | |
| 0.125 | = Q discharge (MGD) | 0.5 | = CV Hourly | |
| 30 | = no. samples | 1 | = AFC_Partial Mix Factor | |
| 0.3 | = Chlorine Demand of Stream | 1 | = CFC_Partial Mix Factor | |
| 0 | = Chlorine Demand of Discharge | 15 | = AFC_Criteria Compliance Time (min) | |
| 0.5 | = BAT/BPJ Value | 720 | = CFC_Criteria Compliance Time (min) | |
| 0 | = % Factor of Safety (FOS) | | = Decay Coefficient (K) | |
| Source | Reference | AFC Calculations | | Reference CFC Calculations |
| TRC | 1.3.2.iii | WLA afc = 874.331 | | 1.3.2.iii WLA cfc = 852.396 |
| PENTOXSD TRG | 5.1a | LTAMULT afc = 0.373 | | 5.1c LTAMULT cfc = 0.581 |
| PENTOXSD TRG | 5.1b | LTA_afc= 325.796 | | 5.1d LTA_cfc = 495.543 |
| Source | Effluent Limit Calculations | | | |
| PENTOXSD TRG | 5.1f | AML MULT = 1.231 | | |
| PENTOXSD TRG | 5.1g | AVG MON LIMIT (mg/l) = 0.500 | | BAT/BPJ |
| | | INST MAX LIMIT (mg/l) = 1.635 | | |
| WLA_afc | (.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))... ...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100) | | | |
| LTAMULT_afc | EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5) | | | |
| LTA_afc | wla_afc*LTAMULT_afc | | | |
| WLA_cfc | (.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))... ...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100) | | | |
| LTAMULT_cfc | EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5) | | | |
| LTA_cfc | wla_cfc*LTAMULT_cfc | | | |
| AML_MULT | EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1)) | | | |
| AVG_MON_LIMIT | MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT) | | | |
| INST_MAX_LIMIT | 1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc) | | | |