

Application Type Renewal
Facility Type MS4
Permit Type Individual

NPDES PERMIT FACT SHEET
MS4s

Application No. PAI136109
APS ID 1097882
Authorization ID 1456724

Applicant and Facility Information

Applicant Name	<u>Municipality of Murrysville</u>	Facility Name	<u>Municipality of Murrysville</u>
Applicant Address	<u>4100 Sardis Road</u> <u>Murrysville, PA 15668-1120</u>	Facility Address	<u>4100 Sardis Road</u> <u>Murrysville, PA 15668-1120</u>
Applicant Contact	<u>Emily Mallisee</u>	Facility Contact	<u>Same as Applicant</u>
Applicant Phone	<u>(724) 327-2100</u>	Facility Phone	<u>Same as Applicant</u>
Applicant email	<u>emallisee@murrysvillegov.org</u>	Facility email	<u>Same as Applicant</u>
Client ID	<u>40606</u>	Site ID	<u>614404</u>
SIC Code	<u>9900</u>	Municipality	<u>Murrysville Borough</u>
SIC Description	<u>Nonclassifiable Establishments</u>	County	<u>Westmoreland</u>
Date Application Received	<u>September 29, 2023</u>		
Date Application Accepted	<u>October 3, 2023</u>		
Purpose of Application	<u>NPDES Permit renewal coverage</u>		

Internal Review and Recommendations

The Department received an Individual MS4 NPDES Permit renewal application from Murrysville Borough for coverage of its MS4 on September 29, 2023.

The municipality has outfalls that discharge to Puketa Creek, designated in the 25 PA Code Chapter 93 as Trout Stocking (TSF), Lyons Run, designated as Trout Stocking (TSF), Steels Run, designated as High-Quality Warm Water Fishery (HQ-WWF), Haymakers Run, designated as High-Quality Warm Water Fishery (HQ-WWF), Turtle Creek, designated as Trout Stocking (TSF) and Abers Creek, designated as Trout Stocking (TSF).

During the last permit cycle Murrysville Borough was subject to Appendix E of the MS4 permit due to discharges to impaired waters for Nutrients and Siltation, the municipality submitted the Pollution Reduction Plan (PRP) to address the impairments and reduce the municipality's contribution and load to the impaired streams within the Haymakers Run – Turtle Creek HUC-12 Watershed and Plum Creek, Pucketa Creek HUC-12 Watershed. There are no new requirements for permittees with previously approved PRPs; however, the MS4 will need to complete implementation of the approved PRPs and submit a final report during this permit term.

Turtle Creek is affected by pollution from AMD. All impairments resulted from drainage from abandoned coalmines. The TMDL addresses two primary metals associated with abandoned mine drainage (iron and aluminum) and pH.

Approve	Deny	Signatures	Date
X		 Angela Rohrer / Environmental Engineering Specialist	February 5, 2024
X		 Michael E. Fifth, P.E. / Environmental Engineer Manager	February 26, 2024

Internal Review and Recommendations

The discharges from Outfall 119 are located within the TC4 - Turtle Creek downstream of Saunders Station Road bridge segment of the TMDL. It should be noted that the TMDL didn't establish a Waste Load Allocation (WLA) or Load Reduction for this section.

Parameter	Existing Load (lbs/day)	TMDL Allowable Load (lbs/day)	WLA (lbs/day)	LA (lbs/day)	NPS Load Reduction (lbs/day)	NPS % Reduction
TC4 – Turtle Creek downstream of Saunders Station Road bridge						
Aluminum (lbs/day)	149.27	22.39	-	22.39	0*	0%*
Iron (lbs/day)	114.21	51.40	-	51.40	0*	0%*
Acidity (lbs/day)	-6376.45	-6376.45	NA	NA	NA	NA

The PRP proposed 21 BMPs to be implemented in the 5-year permit term. The annual report corresponding to 2022-2023 confirmed that 13 BMP had been installed with a planned eight more for the 2023-2024 report term.

The Municipality updated the PRP due to additional projects to continue the sediment/nutrient reduction. The PRP includes the existing BMPs up to 2023 and proposed BMPs to implement within the next five years.

- Retrofit and convert four existing detention basins into dry extended detention basins.
- The municipality has also required a Growing Greener grant through the Westmoreland Conservation District to repair and restore approximately 1000 feet of streambank in two separate areas.
- A section of Haymakers Run is also to be restored, totaling approximately 500 linear feet of stream bank restoration with an existing riparian buffer.
- The municipality has also identified 4 additional areas of streambank where restoration is needed. These streambank restorations will occur yearly beginning in 2025 and continue into 2028.
- Bioswales and filter strip runoff reduction areas will also be installed in the future 5-year permit term.
- Extended detention basins: The basins that will be retrofitted in the next five years include Mallard Landing, Castalina Court, Springview Estates, and Forest Ridge.
- Stream bank restoration/stabilization
- Rain garden/bioswale: This BMP has a 45 percent effectiveness of reducing total phosphorus nutrients, and 55 percent of sediment reduction within its respective sewershed. The proposed rain garden is proposed to be installed at Kovalczik Park to filter the runoff from the road and parking lot areas. The two bioswales to be installed are along Gun Club Road on municipal property.
- Filter strip runoff reduction areas: The proposed filter strip area will be along Twin Oaks Drive and in the municipal park area.

Based on the previous permit, the permittee shall achieve pollutant loading reductions for **sediment and phosphorous** as specified in **Appendix E** by **March 31, 2024**. Therefore, the BMPs that are planned to be implemented after March 31, 2024 were not evaluated at this time.

Appendix A of the previous permit required the following information

- The permittee shall develop an inventory of all suspected and known anthropogenic (caused or produced by humans) sources of metals and/or acidity that are associated with AMD and that are located within the storm sewershed of outfalls discharging to surface waters subject to Appendix A. The inventory shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2022**.
- The permittee shall complete an investigation of each suspected source. This investigation must include stormwater sampling if the investigation is required as part of implementing the IDD&E program under MCM #3 of the permit, and otherwise is voluntary. The results of the investigation shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2023**.

Internal Review and Recommendations

Regarding the requirements included in Appendix A the municipality stated “none of our outfalls listed on our MS4 map showed signs of anthropogenic sources of metals and/or acidity. Most of the Turtle Creek watershed in the Export area consists of multiple seeps from private property and pipes, all of which have yet to be identified, but we do have watershed associations that have started to gather that information”.

The township has a Stormwater Management Ordinance enacted on December 16, 2020

The MS4 was inspected on August 20, 2021, with two violations noted.

1. 25 Pa. Code 92a.32(a): Failure to develop an inventory of PCSM BMPs Create PCSM BMP inventory with maintenance dates.
2. 25 Pa. Code 92a.32(a): Employee training documentation does not include dates, names of attendees, names of presenters, and topics covered Maintain a log that includes this information in your binder under MCM 6.

The violations were resolved on July 19, 2022.

A complaint was filed on November 6, 2023. It stated “I’m having trouble with the municipality and I believe the information they’re giving me is not correct. I had sent in a complaint attached to Murrayville’s MS-4 permit application and I really need to talk to somebody about this”. The inspector Zachary Flannigan talked to the complainant and the municipality.

- The complainant reported that both the Murrysville and the Westmoreland County Conservation District have been to the location and met with him several times. Reportedly, they made suggestions for him to implement to address the stormwater issue(s), but he does not feel as though he should be the one paying for these suggestions. He reported that the two uphill properties contributing the most to his issues should not have been developed and building permits should not have been issued for the houses on those lots.
- The municipality reported that the driveway is private property owned by the Complainant but is shared by 3-4 residential neighbors. The municipal storm sewer system starts at the base of the private driveway. Options were presented to the Complainant, including paving and curbing the gravel portion of the driveway. This is one of the potential solutions which was not acceptable to the Complainant. Reportedly, the new houses built had proper rock sumps installed for roof drains and the one put-in a small rain garden. It was also reported that the Complainant’s comments were attached to the MS4 permit application submitted by Murrysville.

According to the inspector, this is not an MS4 issue, but more of a stormwater from one neighbor impacting another neighbor.

The Permittee has no open violations.

Draft Permit issuance is recommended.

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.