







Bureau of Clean Water

PAG-13 NPDES General Permit Reissuance

WRAC Meeting

November 21, 2024

PAG-13 - General

- General Permit for stormwater discharges from small municipal separate storm sewer systems (MS4s)
- ➤ Permittees operating under this General Permit have been either automatically designated as regulated by EPA pursuant to 40 CFR § 122.32(a)(1) or designated as regulated by DEP under 40 CFR § 122.32(a)(2).
- ➤ There are currently 493 MS4s that have PAG-13 General Permit coverage.

Department of Environmental Protection

2013 PAG-13

> 2013-2018 PAG-13

- Stormwater Management Plan (SWMP)
 - MCM 1 Public Education & Outreach
 - MCM 2 Public Participation & Involvement
 - MCM 3 Illicit Discharge Detection & Elimination
 - MCM 4 Construction Site Runoff Control
 - MCM 5 Post-Construction Runoff Control
 - MCM 6 Pollution Prevention/Good Housekeeping
- Stormwater Management Ordinance
- Total Maximum Daily Load (TMDL) Plans
- Chesapeake Bay Pollutant Reduction Plans (PRPs)



2018 PAG-13

> 2018-2023 PAG-13

- Expired March 15, 2023
 - administratively extended until reissuance of next GP
- Continued from 2013 Permit:
 - SWMP requirement for implementation of 6 MCMs
 - Stormwater Management Ordinance requirement
 - Chesapeake Bay PRP (CBPRP) requirement
- New Requirements:
 - Impaired Water PRP requirement
 - Pollutant Control Measures (PCMs)



PAG-13 – Workgroup

- DEP solicited volunteers to participate in a workgroup to discuss potential changes to PAG-13.
 - Included representatives from small and large MS4s, MS4 collaboratives, regional authorities, consultants, nonprofit environmental groups, academia, EPA, and PennDOT.
- Workgroup met 8 times (Nov 2022 March 2023)
 - Discussed what has worked well in the 2018 PAG-13 General Permit term, what could be improved, and DEP's proposals for making those improvements.



Pollutant Reduction Plans (PRPs)

The 2018 PAG-13 required permittees that discharge to impaired waters to develop a PRP to reduce sediment and nutrient loads discharges to impaired waters.

Workgroup Recommendations:

- Increase planning time
- Standardize reduction requirement calculations
- Focus on runoff volume management rather than pollutant load reductions
- Consider socioeconomic factors when determining requirements
- Incentivize collaborations



Volume Management Plans (VMPs)

Step 1: Maximum Extent Practicable "MEP" Calculator

- Calculates how much volume management can be accomplished annually based on impervious area and adjusted to account for socioeconomic and other factors
- Submitted with NOI

Step 2: Volume Management Plan

- Demonstrates how volume management calculated by MEP Calculator will be achieved
- Incentives provided for collaborations
- Submitted 2 years after NOI



MEP Calculator

- **Step 1** Determine the Annualized VMO, in cubic feet per year (CF/Yr).
- Step 2 Calculate Feasibility Index
- Step 3 Determine MEP

MEP Calculator – Step 1

- Step 1A Determine total impervious area within the urban area (UA)
- Step 1B Determine the percentage of total impervious area within UA that is treated (i.e., managing at least 1 inch of runoff)
- Step 1C Calculate Annualized VMO based on lookup chart
 - Example:

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(150 \times 0.88) - (150 \times 0.08) = 120 acres untreated
120 acres / 50 = 2.4 acres treated/year (9,000 CF/Yr)
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➤ MEP Calculator – Step 2

- Step 2A Consider financial and socioeconomic factors (lowest quantile household income, poverty rate, unemployment rate, current utility costs, municipal revenues and debts)
- Step 2B Evaluate the potential for SCM opportunities (% of publicly owned impervious, localized flooding, development and redevelopment projects, and municipal ordinances)
- Feasibility Index = product of each score in 2A and 2B



- MEP Calculator Step 3
 - Step 3A Annualized VMO / Feasibility Index
 - Step 3B Determine collaboration credits
 - Example:

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Step 1: Annualized VMO = 9,000 CF/Yr
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Step 2: Feasibility Index = 2.0

Step 3: Adjusted Annualized VMO =

$$9,000/2.0 = 4,500 CF/Yr$$

Collaboration Credit = 10% (10 MS4s collaborating)

MEP Annualized VMO = 4,050 CF/Yr



Chesapeake Bay TMDL Reporting

2018 PAG-13 required all MS4s in the Chesapeake Bay watershed to implement a PRP. SCMs implemented to meet PRP requirements are reported as progress towards meeting the Chesapeake Bay TMDL.

Proposed Change: None

- The reissued PAG-13 will continue to require permittees in the Chesapeake Bay Watershed to implement SCMs.
- SCMs implemented to manage runoff volume also decrease pollutant loads.



Pollutant Control Measures (PCMs)

The 2018 PAG-13 required MS4s that discharged to waters impaired for pathogens, PCBs, and/or heavy metals to investigate if their MS4 contributed to the impairment.

Workgroup Recommendations:

Discontinue PCM requirements

Proposed Changes:

- Discontinue PCMs so that MS4s can focus on VMPs
- DEP will evaluate the information MS4s compiled during 2018 permit term before deciding whether to continue implementing PCMs in Pennsylvania future permit terms.

Model Stormwater Ordinance

The 2018 PAG-13 General Permit required MS4s to update to their stormwater management ordinance to be consistent with DEP's "2022 Model Ordinance" by September 30, 2022.

Proposed Changes:

- Ordinance updates consistent with the "2028 Model Ordinance" required by September 30, 2028
- "2028 Model Ordinance" includes several changes recommended by the Workgroup and other changes necessary for consistency with new PCSM Manual.



Minimum Control Measures

MCM 3 Illicit Discharge Detection & Elimination:

Outfalls identified as suspected source areas for PCM pollutants must be screened annually.

MCM 4: Construction Site Stormwater Runoff Control &

MCM 5: Post-Construction Stormwater Management

 Permittees relying on DEP's program for issuing NPDES permits for stormwater discharges associated with construction activities must attempt to enter into a written agreement with County Conservation District.



Additional Proposed Changes

Renewal NOIs

A separate NOI will be necessary to renew coverage.

Census References

 References to the 2010 census have been updated to the 2020 census.

Eligibility

DEP is discontinuing the "MS4 Requirements Table."
 Applicants will need to evaluate eligibility with respect to TMDLs and impaired waters using other available DEP resources.



Questions?

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