



April 20, 2020  
VIA ELECTRONIC MAIL

Claire Maulhardt  
Capital Region Water  
212 Locust Street Suite 500  
Harrisburg, PA 17101

Re: Draft NPDES Permit- MS4  
Harrisburg City MS4  
Application No. PAI133524  
Authorization ID No. 1216079  
Harrisburg City, Dauphin County

Dear Ms. Maulhardt:

The Department of Environmental Protection (DEP) has prepared the enclosed draft NPDES permit for your review and comment.

Also enclosed is a copy of a public notice that, in accordance with DEP regulations at 25 Pa. Code § 92a.82(b), you are required to post near the entrance to your premises and, if the facility or discharge location is remote from these premises, at the entrance to the facility or at the discharge location. These postings shall remain for 30 days.

DEP will publish notice of the draft permit in the Pennsylvania Bulletin in the near future. You may provide written comments on the draft permit up to 30 days following publication of this notice. Following the 30-day public comment period (which may be extended by 15 days at DEP's discretion), DEP will consider any comments received and make a decision on whether to issue a final permit.

If you have any questions, please contact me at 717.705.4918 or [jrakowsky@pa.gov](mailto:jrakowsky@pa.gov), or Scott Arwood at 717.783.0368 or [sarwood@pa.gov](mailto:sarwood@pa.gov).

Sincerely,

*Jacob Rakowsky*

Jacob S. Rakowsky, EIT  
Environmental Engineering Specialist  
Clean Water Program

Enclosures

cc: David Stewart, Capital Region Water  
Erin Letavic, Herbert Rowland & Grubic, Inc.

Ms. Claire Maulhardt

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Bcc: Jacob Rakowsky (email)  
Scott Arwood (email)  
Leah Staley (email)

David Stewart  
[david.stewart@capitalregionwater.com](mailto:david.stewart@capitalregionwater.com)

Erin Letavic  
[eletavic@hrg-inc.com](mailto:eletavic@hrg-inc.com)

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#### **IV. NPDES Individual Permit Applications for Stormwater Discharges from MS4s**

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*Southcentral Regional Office: Regional Clean Water Program Manager, 909 Elmerton Avenue, Harrisburg, PA 17110-8200. Phone: 717.705.4800, Email: RA-EPNPDES\_SCRO@pa.gov.*

**PAII133524**, MS4, Capital Region Water, 212 Locust Street Suite 500, Harrisburg, PA 17101. The application is for a renewal of an individual NPDES permit for the discharge of stormwater from a regulated municipal separate storm sewer system (MS4) to waters of the Commonwealth in Harrisburg City, **Dauphin County**. The receiving stream(s), Unnamed Tributary to Spring Creek, Asylum Run (WWF, MF), Susquehanna River (WWF, MF), Paxton Creek (WWF, MF), and Spring Creek (CWF, MF), is located in State Water Plan watershed 7-C and is classified for Migratory Fishes, Cold Water Fishes, and Warm Water Fishes, aquatic life, water supply and recreation. The applicant is classified as a small MS4.

The applicant has submitted the following plan(s) with the application to reduce pollutant loads to impaired waters:

- A joint Pollutant Reduction Plan and TMDL Plan with Lower Paxton Township and Susquehanna Township.

The Department has made a tentative determination to issue the NPDES permit. Written comments on the application and draft permit will be accepted for 30 days following publication of this notice. The period for comment may be extended at the discretion of DEP for one additional 15-day period. You may make an appointment to review the DEP files on this case by calling the File Review Coordinator at 717-705-4732.

The EPA waiver is in effect for small MS4s, and is not in effect for large MS4s.

Application Type Renewal  
Facility Type MS4  
Permit Type Individual

**NPDES PERMIT FACT SHEET**  
**MS4s**

Application No. PAI133524  
APS ID 855412  
Authorization ID 1216079

**Applicant and Facility Information**

Applicant Name	<u>Capital Region Water</u>	Facility Name	<u>Harrisburg City MS4</u>
Applicant Address	<u>212 Locust Street Suite 500</u> <u>Harrisburg, PA 17101</u>	Facility Address	<u>212 Locust Street Suite 500</u> <u>Harrisburg, PA 17101</u>
Applicant Contact	<u>Claire Maulhardt</u>	Facility Contact	<u>Claire Maulhardt</u>
Applicant Phone	<u>(717) 525-7677</u>	Facility Phone	<u>(717) 525-7677</u>
Client ID	<u>43333</u>	Site ID	<u>615160</u>
SIC Code	<u>9199</u>	Municipality	<u>Harrisburg City</u>
SIC Description	<u>Public Admin. - Genral Government, Nec</u>	County	<u>Dauphin</u>
Date Application Received	<u>September 15, 2017</u>		
Date Application Accepted	<u>February 15, 2018</u>		
Purpose of Application	<u>Application for an individual MS4 NPDES permit for discharge of stormwater.</u>		

**Internal Review and Recommendations**

Per PA Title 25 § 92a.54 because the MS4 discharges to a surface water that requires a TMDL Plan, Capital Region Water must seek permit coverage under an individual permit.

Capital Region Water discharges to five (5) receiving waters: Unnamed Tributary to Spring Creek, Asylum Run (WWF, MF), Susquehanna River (WWF, MF), Paxton Creek (WWF, MF), and Spring Creek (CWF, MF)

According to the MS4 Requirements Table, Capital Region Water is subject to the following IP appendix requirements:

Appendix B  
Appendix C  
Appendix D  
Appendix E  
Appendix F

To comply with Appendices D, E and F, Capital Region Water has submitted a Pollutant Reduction Plan (PRP) and TMDL Plan. The plan is a joint plan with Lower Paxton Township and Susquehanna Township and combines the Chesapeake Bay PRP and Paxton Creek Watershed TMDL Plan.

There are no unresolved violations associated with Capital Region Water that would affect issuance of coverage.

It is recommended that individual permit coverage is granted in accordance with 40 CFR §123.35.

Approve	Deny	Signatures	Date
X		<i>Jacob Rakowsky</i> Jacob S. Rakowsky, EIT / Environmental Engineering Specialist	4/20/2020
X		<b>Scott M. Arwood</b> Scott M. Arwood, P.E. / Environmental Engineer Manager	4/20/2020

**Internal Review and Recommendations**

DEP has reviewed the revised PRP/TMDL Plan that was dated 12/27/19. DEP offers the following comments and recommendations based on the review, which will be evaluated by DEP during the permit term:

1. Please ensure that existing stream restoration projects, used to reduce the pollutant reduction obligations, meet the minimum qualifying criteria in DEP's stream restoration guidance document and are maintained properly.
2. Please ensure the proposed stream restoration projects meet DEP's stream restoration guidance. In final crediting please ensure that sections of hard armoring are properly accounted for using current Chesapeake Bay Expert Panel guidelines to determine the creditable restoration length.
3. Proposed stream restoration project BMP-12, Greenbelt Parkway, is listed with a length of 1,800 feet. This appears to be "Site 1" of the Paxtang Parkway Watershed Restoration Phase 1 included in Appendix H. Design drawings included in Appendix H are not consistent with the 1,800-foot length. Please resolve this discrepancy before final crediting.

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.

Application Type Renewal  
Facility Type MS4  
MS4 Type Small

**INDIVIDUAL MS4  
CHECKLIST**

Application No. PAI133524  
APS ID 855412  
Authorization ID 1216079

Applicant and Facility Information			
Applicant Name	<u>Capital Region Water</u>	Facility Name	<u>Harrisburg City MS4</u>
Applicant Address	<u>212 Locust Street Suite 500</u> <u>Harrisburg, PA 17101</u>	Facility Address	<u>212 Locust Street Suite 500</u> <u>Harrisburg, PA 17101</u>
Municipality	<u>Harrisburg City</u> Unnamed Tributary to Spring Creek, Asylum Run (WWF, MF), Susquehanna River (WWF, MF), Paxton Creek (WWF, MF), and Spring Creek (CWF, MF)	County	<u>Dauphin</u>
Receiving Water(s)		Ch. 93 Class.	<u>WWF, CWF, and MF</u>
Date Application Received	<u>September 15, 2017</u>		

Checklist	
<u>Completeness Item</u>	<u>Comments</u>
<input checked="" type="checkbox"/> 1. One original and two copies of complete NOI (3800-PM-BCW0100b).	
<input type="checkbox"/> 2. One original and two copies of complete Waiver Application (3800-PM-BCW0100e) (optional).	
<input checked="" type="checkbox"/> 3. Complete storm sewer system map (existing permittees) (note – new urbanized areas do not require mapping of entire storm sewer collection system).	
<input type="checkbox"/> 4. Topographic map or storm sewer system map (new permittees and existing waivers).	
<input checked="" type="checkbox"/> 5. MOU or written agreement for third party MCM implementation (if applicable).	
<input checked="" type="checkbox"/> 6. Stormwater Management Ordinance (municipal applicants seeking renewed coverage only).	
<input type="checkbox"/> 7. Stormwater Management Ordinance Checklist (3800-PM-BCW0100g) (if applicable).	
<input type="checkbox"/> 8. SOPs (non-municipal applicants seeking renewed coverage only).	
<input checked="" type="checkbox"/> 9. Chesapeake Bay PRP (Appendix D) and/or Impaired Waters PRP (Appendix E), where required.	
<input checked="" type="checkbox"/> 9a. PRP public participation requirements – the PRP contains a copy of the public notice advertising the PRP, a copy of all written comments received from the public to the PRP, and a	

Approve	Deny	Signature	Date
X		<i>Jacob Rakowsky</i> Jacob S. Rakowsky, EIT / Environmental Engineering Specialist	4/20/2020
X		<b>Scott M. Arwood</b> Scott M. Arwood, P.E. / Environmental Engineer Manager	4/20/2020

	copy of the permittee's record of consideration of all timely comment received in the public comment period.
<input checked="" type="checkbox"/>	9b. PRP contains a map that identifies land uses and/or impervious/pervious surfaces and the storm sewer shed boundary(ies) (note – this map may be combined with item #3 for existing permittees).
<input checked="" type="checkbox"/>	9c. PRP contains a section that describes the pollutants of concern.
<input checked="" type="checkbox"/>	9d. PRP contains existing load calculations for pollutants of concern.
<input checked="" type="checkbox"/>	9e. PRP selects BMPs to achieve the minimum required reductions in pollutant loading
<input checked="" type="checkbox"/>	9f. PRP identifies funding mechanisms.
<input checked="" type="checkbox"/>	9g. PRP identifies responsible parties for operation and maintenance (O&M) of BMPs.
<input checked="" type="checkbox"/>	9h. For joint PRPs, a written agreement amongst the parties is attached (if applicable).
<input checked="" type="checkbox"/>	10. TMDL Plan (Appendix F), where required.
<input checked="" type="checkbox"/>	10a. TMDL Plan public participation requirements (see 9a).
<input checked="" type="checkbox"/>	10b. Plan contains a map that identifies land uses and/or impervious/pervious surfaces and the storm sewer shed boundary(ies).
<input checked="" type="checkbox"/>	10c. Plan contains describes the pollutants of concern.
<input checked="" type="checkbox"/>	10d. Plan contains existing load calculations.
<input checked="" type="checkbox"/>	10e. Plan identifies wasteload allocations (WLAs).
<input checked="" type="checkbox"/>	10f. Plan contains an analysis of short- and long-term objectives.
<input checked="" type="checkbox"/>	10g. PRP selects BMPs to achieve the minimum required reductions in pollutant loading.
<input checked="" type="checkbox"/>	10h. PRP identifies funding mechanisms.
<input checked="" type="checkbox"/>	10i. PRP identifies responsible parties for O&M of BMPs.
<input checked="" type="checkbox"/>	10j. For joint PRPs, a written agreement amongst the parties is attached (if applicable).
<input type="checkbox"/>	11. Complete NOI packages for each co-applicant (joint NOIs only). <b>NOTE</b> – Each municipality served by an authority must also submit an NOI.

Other Comments:

Refer to Fact Sheet for Internal Review and Recommendations.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
INDIVIDUAL PERMIT TO DISCHARGE STORMWATER FROM  
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)**

**NPDES PERMIT NO. PAI133524**

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq.,

**Capital Region Water  
212 Locust Street Suite 500  
Harrisburg, PA 17101**

is authorized to discharge from a regulated small municipal separate storm sewer system (MS4) located in **Harrisburg City, Dauphin County to Unnamed Tributary to Spring Creek, Asylum Run (WWF, MF), Susquehanna River (WWF, MF), Paxton Creek (WWF, MF), and Spring Creek (CWF, MF)** in Watershed(s) **7-C** in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

**THIS PERMIT SHALL BECOME EFFECTIVE ON** \_\_\_\_\_

**THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON** \_\_\_\_\_

The authority granted by coverage under this Permit is subject to the following further qualifications:

1. The permittee shall comply with the effluent limitations and reporting requirements contained in this permit.
2. The application and its supporting documents are incorporated into this permit. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
3. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))
4. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form (40 CFR 122.41(b), 122.21(d)). In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Annual MS4 Status Reports, will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7(b), (c))
5. The permittee shall implement Pollutant Control Measures as specified in **Appendices B and C**.
6. The permittee shall achieve pollutant loading reductions for **sediment, Total Phosphorus and/or Total Nitrogen** as specified in **Appendices D, E and F** by (**Date - 5 Years from Effective Date of Coverage**).

Date Permit Issued: \_\_\_\_\_

Issued By: \_\_\_\_\_

Maria D. Bebenek, P.E.  
Clean Water Program Manager  
Department of Environmental Protection  
Southcentral Regional Office



## PART A

### EFFLUENT LIMITATIONS, REPORTING AND RECORDKEEPING REQUIREMENTS

#### I. EFFLUENT LIMITATIONS

- A. This permit establishes effluent limitations in the form of implementation of a Stormwater Management Program (SWMP), as specified in Part C I of this permit, to reduce the discharge of pollutants from the regulated small MS4 to the maximum extent practicable. The permittee shall comply with Minimum Control Measures (MCMs) and best management practices (BMPs) in Part C I of this permit, which constitutes compliance with the standard of reducing pollutants to the maximum extent practicable.
- B. All discharges from regulated small MS4s must comply with all applicable requirements established in accordance with 25 Pa. Code Chapters 91-96, 102, and 105 of DEP's rules and regulations. DEP may, upon written notice, require additional BMPs or other control measures to ensure that the water quality standards of the surface waters receiving stormwater discharges are attained.

#### II. DEFINITIONS

*Best Management Practices (BMPs)* means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce pollutant loading to surface waters of this Commonwealth. The term includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

*Clean Water Act (CWA)* means the Federal Water Pollution Control Act, as amended, 33 U.S.C.A. §§ 1251 - 1387.

*Cleaning Agent* means any product, substance or chemical other than water that is used to clean the exterior surface of vehicles.

*Designated Uses* are those uses specified in 25 Pa. Code §§ 93.4(a) and 93.9a – 93.9z for each water body or segment whether or not they are being attained. (25 Pa. Code § 93.1)

*Dry Weather* means a condition in which there are no precipitation, snowmelt, drainage or other events producing a stormwater discharge for more than 48 consecutive hours.

*Existing Permittee* means any entity that has been designated as a regulated small MS4 and has previously obtained permit coverage under the PAG-13 Permit or obtained an Individual NPDES MS4 Permit.

*Existing Uses* are those uses actually attained in the water body on or after November 28, 1975, whether or not they are included in the water quality standards. (25 Pa. Code § 93.1)

*Illicit Connection* means any physical connection to a municipal separate storm sewer system that can convey illicit discharges into the system and/or is not authorized or permitted by the permittee.

*Illicit Discharge* means any discharge to a municipal separate storm sewer that is not composed entirely of stormwater, except non-stormwater discharges as described in the "Discharges Authorized by this Permit" section of this Permit. Examples of illicit discharges include dumping of motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, animal wastes, or unauthorized discharges of sewage, industrial waste, restaurant wastes, or any other non-stormwater waste into a municipal separate storm sewer system. Illicit discharges can be accidental or intentional.

**Impaired Waters** means surface waters that fail to attain one or more of its designated uses under 25 Pa. Code Chapter 93 and as listed in Categories 4 and 5 of Pennsylvania's Integrated Water Quality Monitoring and Assessment Report.

**Integrated Water Quality Monitoring and Assessment Report** means the report published every other year by DEP to report on the conditions of Pennsylvania's surface waters to satisfy sections 305(b) and 303(d) of the CWA.

**Intermittent Stream** means a body of water flowing in a channel or bed composed primarily of substrates associated with flowing water, which, during periods of the year, is below the local water table and obtains its flow from both surface runoff and groundwater discharges. (25 Pa. Code § 92a.2)

**Load Allocation** means the portion of a surface water's loading capacity that is assigned or allocated to existing and future nonpoint sources and natural quality. (25 Pa. Code § 96.1)

**Low Impact Development (LID)** means site design approaches and small-scale stormwater management practices that promote the use of natural systems for infiltration, evapotranspiration, and reuse of rainwater. LID can be applied to new development, urban retrofits, and revitalization projects. LID utilizes design techniques that infiltrate, filter, evaporate, and store runoff close to its source. Rather than rely on costly large-scale conveyance and treatment systems, LID addresses stormwater through a variety of small, cost-effective landscape features located on-site.

**MS4 Requirements Table** is a compilation of information regarding Pennsylvania MS4s, surface waters that receive stormwater discharges from MS4s, surface water impairments and TMDLs that is posted to DEP's website, [www.dep.pa.gov/MS4](http://www.dep.pa.gov/MS4). The MS4 Requirements Table has been assembled by DEP to assist MS4 permittees in determining applicable requirements for the development of plans and implementation of BMPs.

**Municipal separate storm sewer** means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters; (ii) Designed or used for collecting or conveying stormwater; (iii) Which is not a combined sewer; and (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(8))

**Municipal Separate Storm Sewer System (MS4)** means all separate storm sewers that are defined as "large" or "medium" or "small" municipal separate storm sewer systems pursuant to 40 CFR §§ 122.26(b)(4), (b)(7), and (b)(16), respectively, or designated under 40 CFR § 122.26(a)(1)(v). (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(18))

**Municipality** means a city, town, borough, county, township, school district, institution, authority or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes or other wastes. (25 Pa. Code § 92a.2)

**New Permittee** means any entity that has been designated as a regulated small MS4 and has not previously obtained permit coverage under the PAG-13 General Permit or obtained an Individual NPDES MS4 Permit.

**Non-Municipal Permittee** means a regulated small MS4 that is not a municipality, e.g., military bases, large hospital or prison complexes, and highways and other thoroughfares.

**Non-Structural BMPs** means actions that involve management and source controls such as: (1) policies and ordinances that provide requirements and standards to direct growth to identified areas, promote redevelopment, protect areas such as wetlands and riparian areas, maintain and/or increase open space, provide buffers along water bodies, minimize impervious surfaces, and minimize disturbance of soils and vegetation; (2) education programs for developers and the public about minimizing water quality impacts; (3) measures such as minimizing the percentage of impervious area after development, use of measures to minimize directly connected impervious areas, street sweeping, and source control measures such as good housekeeping, maintenance, and spill prevention; and other BMPs as referenced in Chapter 5 of the Pennsylvania Stormwater BMP Manual (363-0300-002).

**Observation point** means a location upstream of an outfall where a permittee must conduct dry weather screening in accordance with Part C I.B.3.d of this permit if the permittee determines that screening at an outfall is infeasible, and the point at which stormwater discharges to storm sewers owned or operated by an adjoining municipality where dry weather screening must be conducted.

**Ordinance** means a law enacted by the government of a municipality.

**Outfall** means a point source as defined by 40 CFR § 122.2 at the point where a municipal separate storm sewer discharges to surface waters and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other surface waters and are used to convey surface waters. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(9))

**Owner or Operator** means the owner or operator of any “facility” or “activity” subject to regulation under the NPDES program. (25 Pa. Code § 92a.3(b)(1) and 40 CFR § 122.2)

**Permittee** means the owner or operator of a regulated small MS4 authorized to discharge under the terms of this permit.

**Point Source** means a discernible, confined, and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, Concentrated Aquatic Animal Production Facility (CAAP), Concentrated Animal Feeding Operation (CAFO), landfill leachate collection system, or vessel or other floating craft from which pollutants are or may be discharged. (25 Pa. Code § 92a.2)

**Pollutant** means any contaminant or other alteration of the physical, chemical, biological, or radiological integrity of surface water which causes or has the potential to cause pollution as defined in section 1 of the Pennsylvania Clean Streams Law, 35 P.S. § 691.1. (25 Pa. Code § 92a.2)

**Qualifying Development or Redevelopment Project** means an earth disturbance activity that requires an NPDES permit for stormwater discharges associated with construction activity per 25 Pa. Code Chapter 102.

**Regulated Small MS4** means any small MS4 that is covered by the federal Phase II stormwater program, either through automatic nationwide designation under 40 CFR § 122.32(a)(1) (via the Urbanized Area criteria) or by designation on a case-by-case basis by DEP pursuant to 40 CFR § 122.32(a)(2). “Regulated small MS4s” are a subset of “small MS4s” as defined in this section.

**Riparian Forest Buffer** means an area of permanent vegetation consisting of native trees, shrubs, forbs and grasses along surface water that is maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and buffer land use activities from surface waters.

**Small Municipal Separate Storm Sewer System (Small MS4)** means an MS4, as defined in this section, that is not a large or medium MS4 pursuant to 40 CFR §§ 122.26(b)(4) and 122.26(b)(7). The term small MS4 includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(16))

**Standard Operating Procedure (SOP)** means a policy or set of procedures that are enacted by a non-municipal

permittee to implement a stormwater management program.

*Storm Sewershed* means the land area that drains to an individual MS4 outfall from within the jurisdiction of the MS4 permittee. The term “combined storm sewershed” means the drainage areas of all MS4 outfalls that discharge to a specific surface water or to waters within the Chesapeake Bay watershed.

*Stormwater* means runoff from precipitation, snow melt runoff and surface runoff and drainage. “Stormwater” has the same meaning as “storm water.” (25 Pa. Code § 92a.2)

*Structural BMPs* means stormwater storage and management practices including, but not limited to, wet ponds and extended detention outlet structures; filtration practices such as grassed swales, sand filters and filter strips; infiltration practices such as infiltration basins and infiltration trenches; and other BMPs as referenced in Chapter 6 of the Pennsylvania Stormwater BMP Manual (363-0300-002).

*Surface Waters* means perennial and intermittent streams, rivers, lakes, reservoirs, ponds, wetlands, springs, natural seeps and estuaries, excluding water at facilities approved for wastewater treatment such as wastewater treatment impoundments, cooling water ponds and constructed wetlands used as part of a wastewater treatment process. (25 Pa. Code § 92a.2)

*Total Maximum Daily Load (TMDL)* means the sum of individual waste load allocations for point sources, load allocations for nonpoint sources and natural quality and a margin of safety expressed in terms of mass per time, toxicity or other appropriate measures. (25 Pa. Code § 96.1)

*Urbanized Area (UA)* means land area comprising one or more places (central place(s)) and the adjacent densely settled surrounding area (urban fringe) that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile, as defined by the United States Bureau of the Census and as determined by the latest available decennial census. The UA outlines the extent of automatically regulated areas.

*Wasteload Allocation (WLA)* means the portion of a surface water’s loading capacity that is allocated to existing and future point source discharges. (25 Pa. Code § 96.1)

*Water Quality Criteria* means numeric concentrations, levels or surface water conditions that need to be maintained or attained to protect existing and designated uses. (25 Pa. Code § 93.1)

*Water Quality Standards* means the combination of water uses to be protected and the water quality criteria necessary to protect those uses. (25 Pa. Code § 92a.2)

### III. MONITORING, REPORTING AND RECORDKEEPING

- A. Where samples are collected and analyzed or measurements are taken under this permit, the permittee shall assure:
1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(1))
  2. Records of monitoring information shall include (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(3)):
    - a. The date, exact place, and time of sampling or measurements.
    - b. The individual(s) who performed the sampling or measurements.
    - c. The date(s) analyses were performed.
    - d. The individual(s) who performed the analyses.
    - e. The analytical techniques or methods used.
    - f. The results of such analysis.

3. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136 unless another method is required under 40 CFR Subchapters N or O. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(4))
- B. Records Retention – All records of monitoring activities and results, copies of all plans and reports required by this Permit, and records of all data used to complete the application for this Permit shall be retained by the permittee for at least 5 years from the date of the sample measurement, report or application. Such records must be submitted to DEP upon request or as required for annual reports. The permittee must make records available to the public at reasonable times during regular business hours. (25 Pa. Code § 92a.3(c), 40 CFR §§ 122.34(g)(2) and 122.41(j)(2))
- C. Proper Operation and Maintenance (O&M) – The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), including stormwater BMPs, that are installed or used by the permittee to achieve compliance with the conditions of this permit. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(e))
- D. Reporting and Fee Requirements
  1. The permittee shall submit a complete Annual MS4 Status Report using DEP's annual report template (3800-FM-BPNPSM0491) to the DEP regional office that issued Permit coverage approval by September 30 of each year.
    - a. For existing permittees, the first annual report submitted to DEP under this permit shall have a reporting period starting from the end of the latest annual or progress report period (under the previous permit) to June 30, 2019. The first annual report is due by September 30, 2019. For new permittees, the first annual report is due by September 30 following the first year of Permit coverage.
    - b. Following the first annual report, the reporting period shall thereafter be July 1 - June 30, and the report shall be due by September 30.
  2. Permittees shall pay an annual fee of \$500 in accordance with 25 Pa. Code § 92a.62. Annual fees are due on each anniversary of the effective date of the most recent new or reissued permit. Payment for annual fees shall be remitted to DEP at the address below by the anniversary date. Checks should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection  
Bureau of Clean Water  
Re: Chapter 92a Annual Fee  
PO Box 8466  
Harrisburg, PA 17105-8466
  3. The permittee shall submit the Annual MS4 Status Report and annual fee to DEP electronically upon receipt of written notification from DEP.
  4. Unanticipated Non-Compliance or Potential Pollution Reporting
    - a. Immediate Reporting - The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b) listed below:
      - (i) If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.

- (ii) If reasonably possible to do so, the permittee shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.
  - (iii) The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.
- b. The permittee shall report any non-compliance which may endanger health or the environment in accordance with the requirements of 40 CFR § 122.41(l)(6). These requirements include the following obligations:
- (i) 24 Hour Reporting - The permittee shall orally report any non-compliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances.
  - (ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any non-compliance which may endanger health or the environment. The written submission shall contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.
  - (iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by DEP, the permittee shall submit a written report in accordance with this paragraph. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l)(6)(iii))

#### 5. Other Non-Compliance

The permittee shall report all instances of non-compliance not reported under paragraph D.4 of this section at the time Annual Reports are submitted, on the Non-Compliance Reporting Form (3800-FM-BPNPSM0440). The reports shall contain the information listed in paragraph D.4.b.(ii) of this section. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l)(7))

#### 6. Signatory Requirements

- a. Completed Annual Reports and all other reports, applications, and information submitted to DEP shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:
- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
  - For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
  - For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.
- b. If signed by a person other than the above, the person must be a duly authorized representative of the permittee. A person is a duly authorized representative only if:
- The authorization is made in writing by a person described in paragraph a., above, and submitted to DEP.
  - The authorization specifies either an individual or a position having responsibility for the operation of the regulated system, facility or activity, such as the position of manager, operator,

superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

- c. Changes in Signatory Authorization - If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the system or facility, a new authorization satisfying the requirements of paragraphs 6.a and 6.b, above, must be submitted to DEP prior to or together with any reports, information or NOI to be signed by an authorized representative.

**PART B**  
**STANDARD CONDITIONS**

**I. MANAGEMENT REQUIREMENTS**

A. Compliance

The permittee must comply with all conditions of this Permit. Any permit non-compliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(a))

B. Permit Modification, Termination, or Revocation and Reissuance

1. Permit coverage may be modified, terminated, or revoked and reissued during its term in accordance with Title 25 Pa. Code §§ 92a.72 and 92a.74 and 40 CFR § 122.41(f).
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any Permit condition. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(f))

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating coverage under this Permit, or to determine compliance with this Permit. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(h))
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this Permit. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(h))
3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in an NOI, or submitted incorrect information in an NOI or in any report to DEP, it shall promptly submit the correct and complete facts or information. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l)(8))
4. The permittee shall give advance notice to the DEP office that approved permit coverage of any planned physical alterations or additions to the regulated small MS4. Notice is only required when: 1) the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR § 122.29(b), or 2) the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l))

D. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(d))



E. Termination of Permit Coverage (25 Pa. Code § 92a.74 and 40 CFR 122.64)

1. Notice of Termination (NOT) – If the permittee plans to cease operations or will otherwise no longer require coverage under this permit, the permittee shall submit DEP's NPDES Notice of Termination (NOT) for Permits Issued Under Chapter 92a (3800-BCW-0410), signed in accordance with Part A III.D.6 of this permit, at least 30 days prior to cessation of operations or the date by which coverage is no longer required.
2. Where the permittee plans to cease operations, NOTs must be accompanied with an operation closure plan that identifies how tankage and equipment will be decommissioned and how pollutants will be managed, as applicable.
3. The permittee shall submit the NOT to the DEP regional office with jurisdiction over the county in which the facility is located.

**II. PENALTIES AND LIABILITY**

A. Violations of Permit Conditions

1. Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR § 122.41(a)(2).
2. Any person or municipality, who violates any provision of this Permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or non-compliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A. § 4904 and 40 CFR §§ 122.41(j)(5) and (k)(2).

C. Liability

1. Nothing in this Permit shall be construed to relieve the permittee from civil or criminal penalties for non-compliance pursuant to Section 309 of the CWA or Sections 602, 603 or 605 of the Clean Streams Law.
2. Nothing in this Permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the CWA and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(c))

### III. OTHER RESPONSIBILITIES

#### A. Right of Entry

Pursuant to Section 5(b) of Pennsylvania's Clean Streams Law (35 P.S. § 691.5(b)), 25 Pa. Code Chapter 92a and 40 CFR § 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit; (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(i)(1))
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit; (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(i)(2))
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this Permit; and (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(i)(3))
4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(i)(4))

#### B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph B.2 of this section, permit coverage may be transferred by the permittee to a new owner or operator only if this Permit coverage has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.61(a))
2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
  - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; (25 Pa. Code § 92a.3(c) and 40 CFR § 122.61(b)(1))
  - b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; (25 Pa. Code § 92a.3(c) and 40 CFR § 122.61(b)(2))
  - c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue coverage under this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section; and (25 Pa. Code § 92a.3(c) and 40 CFR § 122.61(b)(3))
  - d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated that any non-compliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate DEP regulations. (25 Pa. Code § 92a.71)
3. In the event DEP does not approve transfer of coverage under this permit, the new owner or controller must submit a new NOI.

- C. Property Rights – The approval of coverage under this Permit does not convey any property rights of any sort, or any exclusive privilege. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(g))

- D. Duty to Reapply – If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. (40 CFR 122.41(b))
- E. Severability – The provisions of this permit are severable. If any provision of this permit or the application of any provision of this Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected.

## PART C

### SPECIAL CONDITIONS

#### I. STORMWATER MANAGEMENT PROGRAM (SWMP)

A. The permittee must develop, implement, and enforce an SWMP designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act and Pennsylvania Clean Streams Law, as described in paragraph B, below. There are six Minimum Control Measures (MCMs) that comprise the SWMP. Specific BMPs are identified under each MCM. The permittee shall demonstrate compliance with the SWMP through the submission of Annual MS4 Status Reports due by September 30 each year.

#### B. Minimum Control Measures (MCMs)

1. **MCM #1:** Public Education and Outreach on Stormwater Impacts. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(1))

The permittee shall implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

- a. **BMP #1:** Develop, implement and maintain a written Public Education and Outreach Program.

- (1) For new permittees, a written Public Education and Outreach Program (PEOP) shall be developed and implemented within one year following issuance of this permit, and shall be re-evaluated each year thereafter and revised as needed.

- (2) For existing permittees, the existing PEOP shall be reviewed annually and revised as necessary.

The permittee's PEOP shall be designed to achieve measurable improvements in the target audience's understanding of the causes and impacts of stormwater pollution and the steps they can take to prevent it.

- b. **BMP #2:** Develop and maintain lists of target audience groups that are present within the areas served by the permittee's regulated small MS4. In most communities, the target audiences shall include residents, businesses (including commercial, industrial and retailers), developers, schools, and municipal employees.

- (1) For new permittees, the lists shall be developed within one year following issuance of this permit, and reviewed and updated as necessary every year thereafter.

- (2) For existing permittees, the lists shall continue to be reviewed and updated annually.

- c. **BMP #3:** The permittee shall annually publish at least one issue of a newsletter, a pamphlet, a flyer, or a website that includes general stormwater educational information, a description of the permittee's SWMP, and/or information about the permittee's stormwater management activities. The list of publications and the content of the publications must be reviewed and updated at least once during each year of permit coverage. Publications should include a list of references (or links) to refer the reader to additional information (e.g., DEP and EPA stormwater websites, and any other sources that will be helpful to readers). The permittee must implement at least one of the following alternatives:

- Publish and distribute in printed form a newsletter, a pamphlet or a flyer containing information consistent with this BMP.

- Publish educational and informational items including links to DEP's and EPA's stormwater websites on the permittee's website.
- (1) For new permittees, stormwater educational and informational items shall be produced and published in print and/or on the Internet no later than one year following issuance of this permit.
- (2) In subsequent years, and for existing permittees, the list of items published and the content in these items shall be reviewed, updated, and maintained annually.

The permittee's publications shall contain stormwater educational information that addresses one or more of the six MCMs.

- d. **BMP #4:** Distribute stormwater educational materials and/or information to the target audiences using a variety of distribution methods, including but not limited to: displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements (e.g., at bus and train stops/stations), bill stuffers, presentations, conferences, meetings, fact sheets, giveaways, and storm drain stenciling.

All permittees shall select and utilize at least two distribution methods annually. These are in addition to BMP #3, above.

2. **MCM #2:** Public Involvement / Participation. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(2))

The permittee shall comply with applicable state and local public notice requirements when implementing a public involvement / participation program.

- a. **BMP #1:** Develop, implement and maintain a written Public Involvement and Participation Program (PIPP) which describes various types of possible participation activities and describes methods of encouraging the public's involvement and of soliciting the public's input.

The PIPP for new permittees shall be developed and implemented within one year following issuance of this permit. All permittees shall reevaluate the PIPP annually and make revisions as necessary.

The PIPP shall include, at a minimum:

- (1) Opportunities for the public to participate in the decision-making processes associated with the development, implementation, and update of programs and activities related to this permit.
- (2) Methods of routine communication to groups such as watershed associations, environmental advisory committees, and other environmental organizations that operate within proximity to the permittee's regulated small MS4s or surface waters receiving the permittee's discharges.
- (3) Making Annual MS4 Status Reports and all other plans, programs, maps and reports required by this permit available to the public on the permittee's website, at the permittee's office(s), or by mail upon request.

- b. **BMP #2:** The permittee shall advertise to the public and solicit public input on the following documents prior to adoption or submission to DEP:

- Stormwater Management Ordinances (for municipalities);
- Standard Operating Procedures (SOPs) (for non-municipal entities); and
- Pollutant Reduction Plans (PRPs) and TMDL Plans, including modifications thereto.

- (1) For Ordinances and SOPs, the permittee shall provide notice to the public; provide opportunities for public comment; document and evaluate the public comments; and document the permittee's

responses to the comments prior to finalizing the documents. The permittee shall provide this documentation to DEP upon request.

- (2) For PRPs and TMDL Plans, public participation requirements are specified in Appendices D, E and F of this Permit.
- c. **BMP #3:** Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods. This shall include an effort to solicit public reporting of suspected illicit discharges. Assist the public in their efforts to help implement the SWMP.
- (1) The permittee shall solicit public involvement and participation from target audience groups on the implementation of the SWMP. The solicitation can take the form of public meetings or other events. The public shall be given notice in advance of each meeting or event. During the meetings or events, the permittee should present a summary of progress, activities, and accomplishments with implementation of the SWMP, and the permittee should provide opportunities for the public to provide feedback and input. The presentation can be made at specific MS4 events or during any other public meeting. Existing permittees shall conduct at least one public meeting that includes information on SWMP implementation by March 15, 2023; new permittees shall conduct at least one public meeting within 5 years following issuance of this permit.
  - (2) The permittee shall document and report instances of cooperation and participation in MS4 activities; presentations the permittee made to local watershed organizations and conservation organizations; and similar instances of participation or coordination with organizations in the community.
  - (3) The permittee shall also document and report activities in which members of the public assisted or participated in the meetings and in the implementation of the SWMP, including education activities or organized implementation efforts such as cleanups, monitoring, storm drain stenciling, or others.
3. **MCM #3:** Illicit Discharge Detection and Elimination (IDD&E). (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(3))

The permittee shall develop, implement and enforce a program to detect and eliminate illicit discharges into the permittee's regulated small MS4.

- a. **BMP #1:** The permittee shall develop and implement a written program for the detection, elimination, and prevention of illicit discharges into the regulated small MS4. The program shall include the following:
- Procedures for identifying priority areas. These are areas with a higher likelihood of illicit discharges, illicit connections or illegal dumping. Priority areas may include areas with older infrastructure, a concentration of high-risk activities, or past history of water pollution problems.
  - Procedures for screening outfalls in priority areas. The program shall include dry weather field screening of outfalls for non-stormwater flows, and sampling of dry weather discharges for selected chemical and biological parameters. Test results shall be used as indicators of possible discharge sources.
  - Procedures for identifying the source of an illicit discharge when a contaminated flow is detected at a regulated small MS4 outfall.
  - Procedures for eliminating an illicit discharge.

- Procedures for assessing the potential for illicit discharges caused by the interaction of sewage disposal systems (e.g., on-lot septic systems, sanitary piping) with storm drain systems.
  - Mechanisms for gaining access to private property to inspect outfalls (e.g., land easements, consent agreements, search warrants) and for investigating illicit connections and discharges.
  - Procedures for program documentation, evaluation and assessment. Records shall be kept of all outfall inspections, flows observed, results of field screening and testing, and other follow-up investigation and corrective action work performed under this program.
  - Procedures for addressing information or complaints received from the public.
- (1) For new permittees, the IDD&E program shall be developed during the first year following issuance of this permit and shall be implemented and evaluated each year thereafter.
  - (2) For existing permittees, the IDD&E program shall continue to be implemented and evaluated annually.
- b. **BMP #2:** The permittee shall develop and maintain map(s) that show permittee and urbanized area boundaries, the location of all outfalls and, if applicable, observation points, and the locations and names of all surface waters that receive discharges from those outfalls. Outfalls and observation points shall be numbered on the map(s).
- (1) For new permittees, the map(s) must be developed and submitted to DEP as an attachment to an Annual MS4 Status Report by September 30, 2022 or the fourth (4<sup>th</sup>) Annual MS4 Status Report following issuance of this permit, whichever is later.
  - (2) For existing permittees, the existing map(s) shall be updated and maintained as necessary during each year of coverage under this permit.
- c. **BMP #3:** In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), the permittee shall develop and maintain map(s) that show the entire storm sewer collection system within the permittee's jurisdiction that are owned or operated by the permittee (including roads, inlets, piping, swales, catch basins, channels, and any other components of the storm sewer collection system), including privately-owned components of the collection system where conveyances or BMPs on private property receive stormwater flows from upstream publicly-owned components.
- (1) For new permittees, the map(s) must be developed and submitted to DEP as an attachment to an Annual MS4 Status Report by September 30, 2022 or the fourth (4<sup>th</sup>) Annual MS4 Status Report following issuance of this permit, whichever is later.
  - (2) For existing permittees, the existing map(s) shall be updated and maintained as necessary during each year of coverage under this permit.
- d. **BMP #4:** The permittee shall conduct dry weather screenings of its MS4 outfalls and observation points to evaluate the presence of illicit discharges. If any illicit discharges are present, the permittee shall identify the source(s) and take appropriate actions to remove or correct any illicit discharges. The permittee shall also respond to reports received from the public or other agencies of suspected or confirmed illicit discharges associated with the storm sewer system, as well as take enforcement action as necessary. The permittee shall immediately report to DEP illicit discharges that would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, in accordance with Part A III.D.4 of this permit. An observation point must be established by the permittee at a location upstream of any discharge of stormwater into storm sewers owned or operated by an adjoining municipality.

- (1) For new permittees, all of the identified regulated small MS4 outfalls shall be screened during dry weather at least twice within the 5-year period following issuance of this permit.
- (2) For existing permittees, each of the identified regulated small MS4 outfalls shall be screened during dry weather at least once by March 15, 2023. For areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls shall be screened annually during each year of permit coverage.
- (3) If a discharge is observed from any outfall during dry weather screenings, the discharge shall be inspected for color, odor, floating solids, scum, sheen, and substances that result in observed deposits in the surface waters. In addition, the discharge cannot contain substances that result in deposits in the receiving water or produce an observable change in the color, odor or turbidity of the receiving water.

If the discharge exhibits any of the above characteristics, or contains any other pollutants or causes an observed change in the surface waters, the permittee shall sample the discharge(s) for field and/or laboratory analysis of one or more common IDD&E parameters in order to determine if the dry weather flow is illicit. Possible parameters include, but are not limited to: pH, Conductivity, Fecal Coliform bacteria, Heavy Metals, Chemical Oxygen Demand (COD), 5-day Biochemical Oxygen Demand (BOD5), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Oil and Grease, Total Residual Chlorine (TRC) and Ammonia-Nitrogen. Proper quality assurance and quality control procedures shall be followed when collecting, transporting or analyzing water samples. The permittee shall retain sample results with the inspection report in accordance with Part A III.B of this permit.

- (4) Each time an outfall is screened, the permittee shall record outfall observations, regardless of the presence of dry weather flow. All outfall inspections shall be documented on the MS4 Outfall Field Screening Report form (3800-FM-BCW0521), or equivalent. The report must be signed by the inspector and be maintained by the permittee in accordance with Part A III.B of this permit. If an outfall flow is determined by the permittee to be illicit, the actions taken to identify and eliminate the illicit flow shall also be documented.
  - (5) The permittee shall summarize the results of outfall inspections and actions taken to remove or correct illicit discharges in Annual MS4 Status Reports.
  - (6) If the permittee determines that an outfall cannot be accessed due to safety or other reasons, the permittee shall establish an "observation point" at an appropriate location prior to the outfall where outfall field screening shall be performed. If observation points are established by the permittee, such points shall be identified on the map required under BMP #2 of this section.
  - (7) Permittees must ensure that outfalls are properly maintained in accordance with Part C I.B.6.b of this Permit.
- e. **BMP #5:** Enact a Stormwater Management Ordinance or SOP to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.
- (1) Municipal permittees shall submit a copy of an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) as an attachment to an Annual MS4 Status Report by September 30, 2022 (existing permittees) or the fourth (4<sup>th</sup>) Annual MS4 Status Report following approval of coverage under this Permit (new permittees).
  - (2) Permittees that lack the authority to enact ordinances (non-municipal permittees and counties) shall develop and adopt an SOP that prohibits non-stormwater discharges consistent with this Permit, and shall submit a copy of the SOP as an attachment to an Annual MS4 Status Report by September 30, 2022 (existing permittees) or the fourth (4<sup>th</sup>) Annual MS4 Status Report following approval of coverage under this Permit (new permittees).



- (3) Notice must be provided to DEP of the approval of any waiver or variance by the permittee that allows an exception to non-stormwater discharge provisions of an ordinance or SOP. This notice shall be submitted in the next Annual MS4 Status Report following approval of the waiver or variance.
- f. **BMP #6:** Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges.
  - (1) During each year of permit coverage, appropriate educational information concerning illicit discharges shall be distributed to the target audiences using methods outlined under MCM #1. The permittee shall establish and promote a stormwater pollution reporting mechanism (e.g., a complaint line with message recording) by the end of the first year of Permit coverage for the public to use to notify the permittee of illicit discharges, illegal dumping or outfall pollution. The permittee shall respond to all complaints in a timely and appropriate manner. The permittee shall document all responses, including the action taken, the time required to take the action, and whether the complaint was resolved successfully.
  - (2) Educational outreach may include: distribution of brochures and guidance for target audiences including schools; programs to encourage and facilitate public reporting of illicit discharges; organizing volunteers to locate and visually inspect outfalls and to stencil storm drains; and implement and encourage recycling programs for common wastes such as motor oil, antifreeze and pesticides.
4. **MCM #4:** Construction Site Stormwater Runoff Control. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(4))

The permittee shall implement the BMPs identified below.

- a. **BMP #1:** The permittee may not issue a building or other permit or final approval to those proposing or conducting earth disturbance activities requiring an NPDES permit unless the party proposing the earth disturbance has valid NPDES Permit coverage (i.e., not expired) under 25 Pa. Code Chapter 102.
- b. **BMP #2:** A municipality or county which issues building or other permits shall notify DEP or the applicable county conservation district (CCD) within 5 days of the receipt of an application for a permit involving an earth disturbance activity consisting of one acre or more, in accordance with 25 Pa. Code § 102.42.
- c. **BMP #3:** Enact, implement and enforce an ordinance or SOP to require the implementation and maintenance of E&S control BMPs, including sanctions for non-compliance, as applicable.
  - (1) Municipal permittees shall enact, implement, and enforce an ordinance to require the implementation of E&S control BMPs, including sanctions for non-compliance. All municipal permittees shall submit a copy of an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) as an attachment to an Annual MS4 Status Report by September 30, 2022 (existing permittees) or the fourth (4<sup>th</sup>) Annual MS4 Status Report following issuance of this permit (new permittees).
  - (2) Permittees that lack the authority to enact ordinances shall develop, implement and enforce an SOP to require the implementation and maintenance of E&S control BMPs by September 30, 2022 (existing permittees) or the first Annual MS4 Status Report following approval of coverage under this Permit (new permittees).

5. **MCM #5:** Post-Construction Stormwater Management (PCSM) in New Development and Redevelopment. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(5))

The permittee shall implement the BMPs identified below.

- a. **BMP #1:** Enact, implement and enforce an ordinance or SOP to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.
- (1) Municipal permittees shall enact, implement, and enforce an ordinance to require the implementation of PCSM BMPs, including sanctions for non-compliance. All municipal permittees shall submit a copy of an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) as an attachment to an Annual MS4 Status Report by September 30, 2022 (existing permittees) or the fourth (4<sup>th</sup>) Annual MS4 Status Report following issuance of this permit (new permittees).
  - (2) Permittees that lack the authority to enact ordinances shall develop, implement and enforce an SOP to require the implementation and maintenance of PCSM BMPs and submit the SOP to DEP by September 30, 2022 (existing permittees) or the fourth (4<sup>th</sup>) Annual MS4 Status Report following issuance of this permit (new permittees).
- b. **BMP #2:** Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment. Measures should also be included to encourage retrofitting LID into existing development. Guidance on implementing LID practices may be found on DEP's MS4 website, [www.dep.pa.gov/MS4](http://www.dep.pa.gov/MS4). Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices. Submission of an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) will satisfy this BMP.
- c. **BMP #3:** Ensure adequate O&M of all post-construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

An inventory of PCSM BMPs shall be developed by new permittees by the end of the first year of Permit coverage and shall be continually updated during the term of coverage under the Permit as development projects are reviewed, approved, and constructed. Existing permittees shall update and maintain its current inventory during the term of coverage under the Permit. The permittee must track the following information in its PCSM BMP inventory:

- All PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003.
- The exact location of the PCSM BMP (e.g., latitude and longitude, with street address).
- Information (e.g., name, address, phone number(s)) for BMP owners and entities responsible for BMP O&M, if different from BMP owners.
- The type of BMP and the year it was installed.
- Maintenance required for the BMP type according to the Pennsylvania Stormwater BMP Manual or other manuals and resources.
- The actual inspection/maintenance activities conducted for each BMP.
- An assessment by the permittee if proper O&M has occurred during the year and if not, what actions the permittee has taken, or shall take, to address compliance with O&M requirements.

6. **MCM #6:** Pollution Prevention / Good Housekeeping. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(6))

The permittee must develop and implement an O&M program that includes a training component and has the ultimate goal of preventing and reducing pollutant runoff from operations, facilities and activities under the control of the permittee (collectively, "operations"). The program must include employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.

- a. **BMP #1:** Identify and document all operations that are owned or operated by the permittee and have the potential for generating pollution in stormwater runoff to the regulated small MS4. This includes activities conducted by contractors for the permittee. Activities may include the following: street sweeping; snow removal/deicing; inlet/outfall cleaning; lawn/grounds care; general storm sewer system inspections and maintenance/repairs; park and open space maintenance; municipal building maintenance; new construction and land disturbances; right-of-way maintenance; vehicle operation, fueling, washing and maintenance; and material transfer operations, including leaf/yard debris pickup and disposal procedures. Facilities can include streets; roads; highways; parking lots and other large paved surfaces; maintenance and storage yards; waste transfer stations; parks; fleet or maintenance shops; wastewater treatment plants; stormwater conveyances (open and closed pipe); riparian buffers; and stormwater storage or treatment units (e.g., basins, infiltration/filtering structures, constructed wetlands, etc.).

(1) New permittees shall create an inventory of all operations and land uses that may contribute to pollution in stormwater runoff within areas of operations that discharge to the regulated small MS4 by the end of the first year of permit coverage, and review and update the inventory annually thereafter.

(2) All permittees must review and update the inventory each year of permit coverage, as necessary.

- b. **BMP #2:** Develop, implement and maintain a written O&M program for all operations that could contribute to the discharge of pollutants from the regulated small MS4, as identified under BMP #1. This program shall address stormwater collection or conveyance systems within the regulated MS4. The written O&M program shall stress pollution prevention and good housekeeping measures, contain site-specific information, and include the following:

- Management practices, policies, and procedures shall be developed and implemented to reduce or prevent the discharge of pollutants to the regulated small MS4s. The permittee shall consider eliminating maintenance area discharges from floor drains and other drains if they have the potential to discharge to storm sewers.
- Maintenance activities, maintenance schedules, and inspection procedures to reduce the potential for pollutants to reach the regulated small MS4s.
- Controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer stations, fleet or maintenance shops with outdoor storage areas, salt / sand (anti-skid) storage locations and snow disposal areas. Controls for solid chemical products stored and utilized for the principal purpose of deicing roadways for public safety must be consistent with the BMPs for existing salt storage and distribution sites contained in the PAG-03 NPDES Permit for Stormwater Discharges Associated with Industrial Activity.
- Procedures for the proper disposal of waste, including dredge spoil, accumulated sediments, trash, household hazardous waste, used motor oil, street sweepings, and other debris.

(1) New permittees shall develop and implement a written O&M program by the end of the first year of permit coverage and review and update the program each year thereafter.

- (2) All permittees must review and update the written O&M program each year of permit coverage, as necessary.
- c. **BMP #3:** Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from operations to the regulated small MS4. The program may be developed and implemented using guidance and training materials that are available from federal, state or local agencies, or other organizations. All relevant employees and contractors shall receive training (i.e., public works staff, building, zoning, and code enforcement staff, engineering staff, police and fire responders, etc.). Training topics shall include operation, inspection, maintenance and repair activities associated with any of the operations identified under BMP #1. Training must cover all relevant parts of the permittee's overall stormwater management program that could affect operations, such as illicit discharge detection and elimination, construction sites, and ordinance requirements.
  - (1) New permittees shall develop and implement a training program that identifies the training topics that will be covered and what training methods and materials will be used by the end of the first year of permit coverage.
  - (2) All permittees must review and update the training program each year of permit coverage, as necessary.
  - (3) Employee training shall occur at least annually and shall be documented in writing and reported in Annual MS4 Status Reports. Documentation shall include the date(s) of the training, the names of attendees, the topics covered, and the training presenter(s).

## II. POLLUTANT CONTROL MEASURES AND POLLUTANT REDUCTION PLANS

Permittees with coverage under this permit that discharge to impaired waters are required to implement Pollutant Control Measures (PCMs) and Pollutant Reduction Plans (PRPs), as applicable. Permittees are encouraged to consult DEP's MS4 Requirements Table, available at [www.dep.pa.gov/MS4](http://www.dep.pa.gov/MS4), to determine the applicability of PCMs under Appendices A, B, and C and PRPs under Appendices D and E of this Permit.

- A. PCMs are activities undertaken by the MS4 permittee to identify and control pollutant loading to impaired waters from MS4s, regardless of whether a TMDL has been approved. PCMs are BMPs and other strategies that are in addition to the permittee's SWMP identified in Part C I of this Permit. PCMs must be implemented where the permittee 1) has at least one stormwater outfall that discharges to impaired waters, and 2) the "cause of impairment" is one or more of the causes listed in paragraphs A.1 through A.3, below.
  1. Where surface waters are impaired for metals (e.g., Iron, Manganese and Aluminum) and/or pH associated with Abandoned Mine Drainage (AMD), the permittee shall implement the PCMs identified in **Appendix A** of this permit, in accordance with the schedule therein.
  2. Where surface waters are impaired for Pathogens (e.g., Fecal Coliform), the permittee shall implement the PCMs identified in **Appendix B** of this permit, in accordance with the schedule therein.
  3. Where surface waters are impaired for Priority Organic Compounds (e.g., Polychlorinated Biphenyls (PCBs), pesticides, or other organic compounds), the permittee shall implement the PCMs identified in **Appendix C** of this permit, in accordance with the schedule therein.
- B. A PRP is a planning document prepared by the permittee which guides the selection and implementation of specific BMPs to reduce pollutant loading to surface waters. The objective of a PRP is to improve the condition of surface waters such that the waters eventually attain water quality standards and its designated and existing uses in accordance with 25 Pa. Code Chapter 93. A PRP shall be developed and submitted to DEP with the application if one or more of the following criteria are met:

1. At the time of the application submission, the permittee has at least one MS4 outfall that discharges to surface waters within the Chesapeake Bay watershed, or otherwise has at least one discharge to storm sewers owned or operated by a different entity within the Chesapeake Bay watershed. Where these conditions apply, upon DEP's issuance of this permit, the permittee shall implement the PRP in accordance with **Appendix D** of this permit.
2. At the time of the application submission, the permittee has at least one stormwater outfall that discharges to waters impaired for nutrients (i.e., nitrogen and/or phosphorus) and/or sediment (i.e., siltation), and a TMDL has not been approved for such waters, or a TMDL has been approved but no wasteload allocation (WLA) has been assigned by the TMDL for the permittee's discharge(s). Where these conditions apply, upon DEP's issuance of this permit, the permittee shall implement the PRP in accordance with **Appendix E** of this permit.

### III. TMDL PLANS

A TMDL Plan is a planning document prepared by the permittee which guides the selection and implementation of specific BMPs to reduce pollutant loading to surface waters and comply with the TMDL. A TMDL Plan shall be developed and submitted to DEP with the individual permit application if all of the following criteria are met: 1) the permittee has at least one MS4 outfall that discharges to surface waters with an EPA-approved TMDL; 2) the permittee has been identified in the TMDL as having a wasteload allocation (WLA) for one or more pollutants, where the WLA may be specific (individual) to the permittee or may be presented as an aggregate (bulk) requirement for all MS4s within a watershed; and 3) the WLA(s) are for sediment and/or nutrients (i.e., Total Nitrogen and/or Total Phosphorus). Where these conditions apply, upon DEP's issuance of this permit, the permittee shall implement the TMDL Plan in accordance with **Appendix F** of this permit.

### IV. OTHER REQUIREMENTS

- A. Screenings and other solids collected by the permittee shall be handled, recycled and/or disposed of in compliance with the Solid Waste Management Act (35 P.S. §§ 6018.101 – 6018.1003), 25 Pa. Code Chapters 287, 288, 289, 291, 295, 297, and 299 (relating to requirements for landfilling, impoundments, land application, composting, processing, and storage of residual waste), federal regulation 40 CFR Part 257, The Clean Streams Law, and the Federal Clean Water Act and its amendments.
- B. DEP may require monitoring of stormwater discharge(s) as may be reasonably necessary in order to characterize the nature, volume or other attributes of that discharge or its sources.
- C. The permittee shall ensure that its SWMP, including its Stormwater Management Ordinance(s) or SOPs, is designed to prevent increased loadings of pollutants and to not cause or contribute to a violation of water quality standards by any discharge from its regulated small MS4.
- D. The permittee shall develop and maintain adequate legal authorities, where applicable, and shall maintain adequate funding and staffing to implement this Permit, including the SWMP contained in Part C I of this Permit.

- E. In accordance with 40 CFR § 122.35, the permittee may rely on another entity to satisfy NPDES permit obligations to implement a minimum control measure if: (1) the other entity, in fact, implements the control measure; (2) the particular control measure, or component thereof, is at least as stringent as the corresponding NPDES permit requirement; and (3) the other entity agrees to implement the control measure on the permittee's behalf. The permittee must specify in Annual MS4 Status Reports that it is relying on another entity to satisfy some of its NPDES permit obligations. The permittee remains responsible for compliance with permit obligations if the other entity fails to implement the control measure (or component thereof).
- F. This permit authorizes the discharge of stormwater to surface waters from the permittee's regulated small MS4. In addition, the following non-stormwater discharges are authorized by this permit as long as such discharges do not cause or contribute to pollution as defined in Pennsylvania's Clean Streams Law:
1. Discharges or flows from firefighting activities.
  2. Discharges from potable water sources including water line flushing and fire hydrant flushing, if such discharges do not contain detectable concentrations of Total Residual Chlorine (TRC).
  3. Non-contaminated irrigation water, water from lawn maintenance, landscape drainage and flows from riparian habitats and wetlands.
  4. Diverted stream flows and springs.
  5. Non-contaminated pumped ground water and water from foundation and footing drains and crawl space pumps.
  6. Non-contaminated HVAC condensation and water from geothermal systems.
  7. Residential (i.e., not commercial) vehicle wash water where cleaning agents are not utilized.
  8. Non-contaminated hydrostatic test water discharges, if such discharges do not contain detectable concentrations of TRC.
- G. In the event existing outfall(s) are identified during the permit term that were not identified on maps submitted as part of the application (where required), the permittee shall identify the outfall(s) in the subsequent Annual MS4 Status Report that is submitted to the DEP office that approved permit coverage. In the event new stormwater outfalls are proposed, the permittee shall submit written notification to the DEP office that issued the permit at least 60 days prior to commencing a discharge.

## APPENDIX B

### POLLUTANT CONTROL MEASURES FOR WATERS IMPAIRED BY PATHOGENS

The permittee shall implement the following Pollutant Control Measures (PCMs) within the storm sewershed of any outfall that discharges to waters impaired due to Pathogens (e.g., Fecal Coliform), regardless of whether there is an approved TMDL:

- A. Map and Inventory.
  1. The permittee shall develop map(s) of the storm sewershed(s) associated with all outfalls that discharge to surface waters subject to Appendix B. The purpose is to identify the area the permittee is responsible for within its legal boundaries in developing a source inventory. The map(s) shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2022**.
  2. The permittee shall develop an inventory of all suspected and known sources of bacteria in stormwater within the storm sewershed, at a minimum, that discharge to impaired waters. The inventory must identify whether the source is suspected or known, the basis for this determination, the responsible party (if known), and any corrective action the permittee has taken or plans to take for any of these sources. The inventory shall be submitted to DEP with an Annual MS4 Status Report is due no later than **September 30, 2023**.
- B. 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, 2025**.
- C. The permittee shall enforce ordinances that prohibit illicit and illegal connections and discharges of sewage to the MS4. Anytime an illicit and illegal connection or discharge of sewage into the MS4 is discovered by the permittee, the permittee shall report the finding in the subsequent Annual MS4 Status Report along with a description of corrective action by the permittee.
- D. If not already established in its Stormwater Management Ordinance (municipal permittees) or SOP (non-municipal permittees), the permittee shall enact an ordinance or develop and adopt an SOP that requires proper management of animal wastes on property owned by the permittee. If an ordinance or SOP already exists that controls animal wastes, it must be attached to the first Annual MS4 Status Report due no later than **September 30, 2021**. If a new ordinance or SOP is enacted or adopted, the new ordinance or SOP must be attached to the first Annual MS4 Status Report due no later than **September 30, 2024**.
- E. The permittee shall document the progress of its investigations, source control efforts and BMPs to control sources of pathogens in its Annual MS4 Status Reports.

## APPENDIX C

### POLLUTANT CONTROL MEASURES FOR WATERS IMPAIRED BY PRIORITY ORGANIC COMPOUNDS

The permittee shall implement the following Pollutant Control Measures (PCMs) within the storm sewershed of any outfall that discharges to waters impaired due to Priority Organic Compounds, including but not limited to Polychlorinated Biphenyls (PCBs), Pesticides, and any other organic compound listed at 40 CFR Part 423, Appendix A, regardless of whether there is an approved TMDL:

A. Map and Inventory.

1. The permittee shall develop map(s) of the storm sewershed(s) associated with all outfalls that discharge to surface waters subject to Appendix C. The purpose is to identify the area the permittee is responsible for within its legal boundaries in developing a source inventory. The map(s) shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2022**.
2. The permittee shall develop an inventory of all suspected and known anthropogenic (caused or produced by humans) sources of Priority Organic Compounds in stormwater within the drainage area of outfalls discharging to impaired waters. The inventory must identify whether the source is suspected or known, the basis for this determination, the responsible party (if known), and any corrective action the permittee has taken or plans to take for any of these sources. The inventory shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2023**.

B. 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, 2025**.

C. Where it is determined that sources of Priority Organic Compounds are being discharged in stormwater from industrial sites into the permittee's MS4, the permittee shall notify DEP in writing within 90 days of the permittee's findings. DEP may require the owner or operator of the industrial site to submit an application for NPDES permit coverage and/or implement BMPs to reduce pollutant loadings. This written notification is required only once per industrial site.

D. The permittee shall document the progress of its investigations, source control efforts and BMPs to control sources of Priority Organic Compounds in its Annual MS4 Status Reports.



## APPENDIX D

### POLLUTANT REDUCTION PLAN REQUIREMENTS FOR DISCHARGES TO THE CHESAPEAKE BAY WATERSHED

MS4 permittees with at least one stormwater discharge to surface waters within the Chesapeake Bay watershed must develop and submit a Chesapeake Bay Pollutant Reduction Plan (CBPRP) with the application to reduce the load of nutrients (nitrogen and phosphorus) and sediment discharged to surface waters. In the event the permittee also has at least one stormwater discharge to local surface waters that are considered impaired for nutrients and/or sediment, the CBPRP may be combined with the PRP for localized nutrient and/or sediment impairment as described in Appendix E.

The CBPRP is approved upon DEP's issuance of this permit, subject to any conditions identified elsewhere in this permit or in permit correspondence. The permittee shall implement its approved CBPRP and comply with the following:

- A. The permittee shall achieve a sediment load reduction (lbs/year) of 10%, compared to existing loading, by ( **Enter Permit Expiration Date** ). Pollutant reduction efficiencies for selected BMPs shall be in accordance with the BMP Effectiveness Values document published by DEP (3800-PM-BCW0100m) or Chesapeake Bay Program Office expert panel reports. The permittee shall submit a report demonstrating implementation of the CBPRP as an attachment to the first Annual MS4 Status Report that is due following the expiration date of this permit.
- B. The BMPs proposed in the CBPRP for the term of permit coverage shall be implemented in accordance with the schedule in the CBPRP. In the event the permittee decides to modify the location, type or number of proposed BMPs, modify the storm sewershed map, or modify the schedule by more than 180 days, the permittee shall submit an update to its CBPRP to DEP prior to implementing the changes. The modified CBPRP may be implemented upon submission to DEP unless DEP issues an objection in writing within 60 days.
- C. Where submission of a modified CBPRP to DEP is required, the permittee shall solicit public involvement and participation, as follows:
  1. The permittee shall make a complete copy of the CBPRP available for public review.
  2. The permittee shall publish, in a newspaper of general circulation in the area, a public notice containing a statement describing the plan, where it may be reviewed by the public, and the length of time the permittee will provide for the receipt of comments. The public notice must be published at least 45 days prior to the deadline for submission of the PRP to DEP.
  3. The permittee shall accept written comments for a minimum of 30 days from the date of public notice.
  4. The permittee shall accept comments from any interested member of the public at a public meeting or hearing, which may include a regularly scheduled meeting of the governing body of the municipality or municipal authority that is the permittee.
  5. The permittee shall consider and make a record of the consideration of each timely comment received from the public during the public comment period concerning the plan, identifying any changes made to the plan in response to the comment.

Modified CBPRPs submitted to DEP must include a copy of the newspaper notice, a copy of all written comments received from the public and a copy of the permittee's record of consideration of all timely comments received in the public comment period.

- D. Progress with achieving the required pollutant load reductions shall be reported in each Annual MS4 Status Report.

## APPENDIX E

### POLLUTANT REDUCTION PLAN REQUIREMENTS FOR DISCHARGES TO WATERS IMPAIRED FOR NUTRIENTS AND/OR SEDIMENT

MS4 permittees with at least one stormwater discharge to surface waters considered impaired for nutrients (nitrogen and phosphorus) and/or sediment, in which a TMDL has not been developed or the TMDL has not identified a wasteload allocation (WLA) for the permittee, must develop and submit a Pollutant Reduction Plan (PRP) with the application to reduce the pollutant loads to those waters. In the event the permittee also has at least one stormwater discharge to surface waters within the Chesapeake Bay watershed, the PRP may be combined with the CBPRP described in Appendix D.

The PRP is approved upon DEP's issuance of this permit, subject to any conditions identified elsewhere in this permit or in permit correspondence. The permittee shall implement its approved PRP and comply with the following:

- A. The permittee shall achieve a sediment load reduction (lbs/year) of 10%, compared to existing loading, by ( **Enter Permit Expiration Date** ). Pollutant reduction efficiencies for selected BMPs shall be in accordance with the BMP Effectiveness Values document published by DEP (3800-PM-BCW0100m) or Chesapeake Bay Program Office expert panel reports. The permittee shall submit a report demonstrating implementation of the PRP as an attachment to the first Annual MS4 Status Report that is due following the expiration date of this permit.
- B. The BMPs proposed in the PRP for the term of permit coverage shall be implemented in accordance with the schedule in the PRP. In the event the permittee decides to modify the location, type or number of proposed BMPs, modify the storm sewershed map, or modify the schedule by more than 180 days, the permittee shall submit an update to its CBPRP to DEP prior to implementing the changes. The modified PRP may be implemented upon submission to DEP unless DEP issues an objection in writing within 60 days.
- C. Where submission of a modified PRP to DEP is required, the permittee shall solicit public involvement and participation, as follows:
  1. The permittee shall make a complete copy of the PRP available for public review.
  2. The permittee shall publish, in a newspaper of general circulation in the area, a public notice containing a statement describing the plan, where it may be reviewed by the public, and the length of time the permittee will provide for the receipt of comments. The public notice must be published at least 45 days prior to the deadline for submission of the PRP to DEP.
  3. The permittee shall accept written comments for a minimum of 30 days from the date of public notice.
  4. The permittee shall accept comments from any interested member of the public at a public meeting or hearing, which may include a regularly scheduled meeting of the governing body of the municipality or municipal authority that is the permittee.
  5. The permittee shall consider and make a record of the consideration of each timely comment received from the public during the public comment period concerning the plan, identifying any changes made to the plan in response to the comment.

Modified PRPs submitted to DEP must include a copy of the newspaper notice, a copy of all written comments received from the public and a copy of the permittee's record of consideration of all timely comments received in the public comment period.
- D. Progress with achieving the required pollutant load reductions shall be reported in each Annual MS4 Status Report.

## APPENDIX F

### TMDL PLAN REQUIREMENTS FOR DISCHARGES TO WATERS IMPAIRED FOR NUTRIENTS AND/OR SEDIMENT

MS4 permittees with at least one stormwater discharge to surface waters with an EPA-approved TMDL where the cause of impairment is nutrients and/or sediment, and where the permittee has been assigned a wasteload allocation (WLA) (either individual/specific or aggregate/bulk) in the TMDL, must develop and submit a TMDL Plan with the application to reduce the pollutant loads to those waters.

The TMDL Plan is approved upon DEP's issuance of this permit, subject to any conditions identified elsewhere in this permit or in permit correspondence. The permittee shall implement its approved TMDL Plan and comply with the following:

- A. The permittee shall achieve pollutant load reduction(s) (lbs/year) to meet at least one of the following objectives, by ( **Enter Permit Expiration Date** ):
1. WLA(s) for pollutant(s) of concern established in the TMDL for the permittee or, in the case of aggregate/bulk WLAs, the portion of the WLA that applies to the permittee as calculated by the permittee in its TMDL Plan and approved by DEP.
  2. A reduction of 10% or 5% of the permittee's existing sediment or TP load, respectively, as calculated by the permittee in its TMDL Plan and approved by DEP.

Pollutant reduction efficiencies for selected BMPs shall be in accordance with the BMP Effectiveness Values document published by DEP (3800-PM-BCW0100m) or Chesapeake Bay Program Office expert panel reports. The permittee shall submit a report demonstrating that one or both of the objectives have been achieved as an attachment to the first Annual MS4 Status Report that is due following the expiration date of this permit.

- B. The BMPs proposed in the TMDL Plan for the term of permit coverage shall be implemented in accordance with the schedule in the TMDL Plan. In the event the permittee decides to modify the location, type or number of proposed BMPs, modify the storm sewershed map, or modify the schedule by more than 180 days, the permittee shall submit an update to its TMDL Plan to DEP prior to implementing the changes. The modified TMDL Plan may be implemented upon submission to DEP unless DEP issues an objection in writing within 60 days.
- C. Where submission of a modified TMDL Plan to DEP is required, the permittee shall solicit public involvement and participation, as follows:
1. The permittee shall make a complete copy of the PRP available for public review.
  2. The permittee shall publish, in a newspaper of general circulation in the area, a public notice containing a statement describing the plan, where it may be reviewed by the public, and the length of time the permittee will provide for the receipt of comments. The public notice must be published at least 45 days prior to the deadline for submission of the PRP to DEP.
  3. The permittee shall accept written comments for a minimum of 30 days from the date of public notice.
  4. The permittee shall accept comments from any interested member of the public at a public meeting or hearing, which may include a regularly scheduled meeting of the governing body of the municipality or municipal authority that is the permittee.
  5. The permittee shall consider and make a record of the consideration of each timely comment received from the public during the public comment period concerning the plan, identifying any changes made to the plan in response to the comment.

Modified TMDL Plans submitted to DEP must include a copy of the newspaper notice, a copy of all written comments received from the public and a copy of the permittee's record of consideration of all timely comments received in the public comment period.

Progress with achieving the required pollutant load reductions shall be reported in each Annual MS4 Status Report.