

Stormwater Pollution Prevention Plan

(City of Camden)

(Camden)

(Permit Number NJG0153338)

Annual Review Date: *(August, 2024)*

Stormwater Program Coordinator: *(Terence Vogt, PE, Consulting Engineer)*

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Form 1 – Team Members

Stormwater Program Coordinator (SPC)			
Name and Title		Dr. Edward C. Williams, PP, AICP, CSI, AHP, Director and Zoning Officer	
Phone	856-757-7680	Email	edwillia@ci.camden.nj.us
Individual(s) Responsible for Major Development Project Stormwater Management Review			
Name and Title		Dr. Edward C. Williams, PP, AICP, CSI, AHP, Director and Zoning Officer	
Phone	856-757-7680	Email	Development@ci.camden.nj.us
Name and Title		Keith L. Walker, Director of Public Works, City of Camden	
	856-757-7000	Email	KeWalker@ci.camden.nj.us ; publicWorks@ci.camden.nj.us
Other Municipal Stormwater Team Members			
Name and Title		Daniel Blackburn, City Attorney, City of Camden	
Name and Title		Timothy Cunningham, Business Administrator, City of Camden	
Name and Title		Terence Vogt, PE, Consulting Engineer	
Name and Title		Gary A. Brooks, Operations Manager, American Water Contract Services	
Name and Title		K Wendell Bibbs, PE, Remington & Vernick Engineers	
Name and Title		Anthony Morici, PE	
Shared/Contracted Service Providers			
Provider Name	Service Provided	Term of Service	

Form 2 – Revision History

Revision Date	Form # Changed	Reason for Revision (Updates to staff, policy, webpage, etc.)
11/06/19	1-15	2018 MS4 Permit SPPP Format
08/09/2024	1-12	2023 MS4 Permit Format, City updates
08/27/24	1-12	Additional AmWater review comments

Form 3 – Public Announcements
Part IV.B. and C.

1. Provide the link to the dedicated stormwater webpage for your municipality.
https://www.ci.camden.nj.us/
2. List the name and title of person(s) responsible for stormwater webpage postings/updates.
City of Camden Communications Office CityNews@ci.camden.nj.us
3. List the newspapers, social media outlets, websites, direct mailings (Email or postal), and other communication approaches typically used to inform/educate the public on stormwater program information and related events/activities.
City of Camden Communications office, <i>Courier Post</i> news paper

Form 4 – Post-Construction Stormwater Management in New Development and Redevelopment

Part IV.E.

<p>1. How does the municipality define “major development”? If it is different from the definition in N.J.A.C. 7:8, explain the difference.</p>
<p>“Major development” means any “development” that provides for ultimately disturbing one or more acres of land or increasing impervious surface by one-quarter acre or more. Disturbance for the purpose of this rule is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation.</p> <p>Projects undertaken by any government agency which otherwise meet the definition of “major development” but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq. are also considered “major development.”</p>
<p>2. Is the municipality’s stormwater control ordinance (SCO) the same as or more stringent than NJDEP’s model SCO? If more stringent, explain the difference.</p>
<p>Camden City’s SCO complies with the minimum requirements of the NJ Stormwater Rule (NJAC 7:8).</p>
<p>3. Describe the process for reviewing major development project applications for compliance with the SCO and Residential Site Improvement Standards (RSIS).</p>
<p>Yes, both residential and non-residential projects must comply with the Residential Site Improvement Standards for stormwater management and NJAC 7:8 concurrently.</p> <p>The Division of Capital Improvements and Construction Management will review the submission, to ensure compliance with the standards set forth in the City Stormwater Ordinance, Stormwater Management Plan, and the New Jersey Residential Site Improvements Standards (RSIS) N.J.A.C 5:12-7 et. seq. for both residential and nonresidential development.</p> <p>The applicant's site development project shall be reviewed as a part of the subdivision or site plan review process by the municipal board or official from which municipal approval is sought (the review agency).</p> <p>City engineer or board engineer shall review major development applications in accordance with NJDEP Stormwater Management Review guidelines.</p>

<p>4. Does your municipality have a mitigation plan included in your Municipal Stormwater Management Plan and Stormwater Control Ordinance? Indicate the location of records of all variances granted.</p>
<p>Mitigation shall mean an action by an applicant providing compensation or offset actions for on-site stormwater management requirements where the applicant has demonstrated the inability or impracticality of strict compliance with the stormwater management requirements set forth in N.J.A.C. 7:8, in an adopted regional stormwater management plan, or in this local ordinance, and has received a waiver from strict compliance from the municipality.</p> <p>The City of Camden Municipal Stormwater Management Plan is contained in Appendix III of the Land Development Ordinance of the City of Camden.</p> <p>Should Camden seek to expand its existing Mitigation plan as part of its future Stormwater Management Plan (MSWMP), the DEP’s Guidance for the Development of Municipal Mitigation Plans may be used: https://dep.nj.gov/wp-content/uploads/stormwater/munimitipplan030706.pdf.pdf</p> <p><i>No mitigation variances were granted by Camden City through August, 2024</i></p>
<p>5. Indicate the dates of each iteration of the township’s Stormwater Control Ordinance, starting with the initial adoption and including revisions.</p>
<p>Initial adoption 2005, revised March 2021.</p>
<p>6. Indicate the dates of each iteration of the township’s Municipal Stormwater Management Plan, starting with the initial adoption and including revisions.</p>
<p>Initial plan adopted 2005, last readoption March 2021</p>

Form 5 – Ordinances
Part IV.F.1.

Ordinance	Date Adopted	Was the DEP model adopted without change? If not, explain how the municipality's is more stringent.	Entity Responsible for Enforcement	Fees & Fines
1. Pet Waste	05/27/2008	Yes	Department of Code Enforcement	\$__
2. Wildlife Feeding	07/28/2009	Yes	Department of Code Enforcement	\$__
3. Litter Control	08/13/1981	Yes/NA	Department of Code Enforcement	\$__
4. Improper Disposal of Waste	12/14/2010	Yes	Department of Code Enforcement	\$__
5. Yard Waste	01/01/11	Yes	Department of Code Enforcement	\$__
6. Private Storm Drain Inlet Retrofitting	03/22/2017	Yes	Department of Code Enforcement	\$__
7. Illicit Connections	12/14/2010	Yes	Department of Code Enforcement	\$__
8. Privately-Owned Salt Storage	Pending	No	City of Camden Police	\$__
9. Tree Removal-Replacement	Pending	No	City of Camden Police	\$__

List any additional stormwater-related ordinances the municipality has adopted that address issues beyond the scope of the MS4 permit. Include adoption date, entity responsible for enforcement, and related fees and fines.

None beyond the scope of the MS4 permit or NJ Stormwater Rule.

Indicate the location of records associated with ordinances and related violations and enforcement actions below.

Records can be found at the stormwater program coordinator's office and online at <https://www.historicCamden.com/departments/stormwater>.

Form 6 – Street Sweeping

Part IV.F.2.a.i. and ii.

1. Provide a written description and/or attach a map outlining the sweeping schedule for the following:

- Segments of municipal roads with storm drain inlets that discharge to surface water (required at least 3 times each year)
- Segments of municipal roads that do not have storm drain inlets but do discharge to surface water (required at least 1 times each year)

Note: Only asphalt and concrete roads need to be swept. Roads that do not have storm drain inlets and do not discharge to surface water do not need to be swept.

Beginning January 1, 2026 (upon completion of digital stormwater mapping), the City of Camden will reevaluate its street sweeping program to ensure conformance with the minimum standards of the MS4 permit at that time.

As of **02/01/16**, street sweeping associated with the City of Camden’s Municipal Separate Storm Sewer System(s) (MS4) was included in the operation, maintenance, and management contract with American Water Operation & Maintenance, LLC. The MS4 areas are swept on the first full week of the month from March to December.

Records of the street sweeping logs, miles swept, and total tons collected are maintained by American Water Contract Services Operations Center at 100 South 17th Street, Camden, NJ 08105.

Sweeping is performed as follows:

1. Streets are to be swept at a minimum of monthly between March and December (weather permitting), or as needed.
2. Sweeping will be accomplished in the same direction as traffic flow at all times during sweeping.
3. Sweeping speed will be adjusted to street and debris condition, with a maximum speed of six (6) miles per hour.
4. Sweeping will be a minimum eight-foot (8') width as measured from the outside edge of the outside edge of the gutter broom in a single pass as close as practicable to the face of the curb, or to the edge of pavement where no curb exists, for both street edge curbs on raised medians and all intersection cross-gutters.
5. A disposal vehicle (dump truck) will follow the sweepers along their routes.
6. When a sweeper hopper is full, the sweeper will empty their hopper into the disposal vehicle.

Disposal of sweepings is performed as follows:

1. Only sweeping debris will be placed into the disposal vehicle.
2. Once the disposal vehicle is full, the bed will be covered so as not to lose any material enroute to the New Jersey Department of Environmental Protection (NJDEP) certified disposal facility.
3. The disposal vehicle operator will obtain a weight ticket for each load, documenting the quantity of debris disposed of at the (NJDEP) certified disposal facility.

2. Indicate if sweeping work is outsourced and if so, describe the arrangement.

See above - American Water Operation & Maintenance, LLC is contracted to sweep Camden City's streets.

Form 7 – MS4 Infrastructure

Part IV.F.2-4. and Part IV.G.2-3.

1. Municipal Storm Drain Inlets

- a. Describe how you ensure that municipal inlets without permanent wording cast into the design have been properly labelled.
- b. Describe how you ensure that municipal and private storm drain inlets have been retrofitted.
- c. Describe how you ensure that newly installed storm drain inlets include corresponding catch basins or other BMPs to collect solids.
- d. Describe when and how you conduct inspections of storm drain inlets and the criteria used to determine when they need to be cleaned.

- a. All pre-existing municipally owned and operated inlets have been labelled or have “no dumping -drains to waterway” type labels casted or imprinted on the inlets. The City inspects and maintains these inlets as part of its MS4 maintenance responsibilities.
- b. Private inlets are required, per City and/or Board development reviews to comply with current MS4 standards. All City owned and maintained inlets will be retrofitted by or before the December 2027 MS4 deadline.
- c. Newly installed storm drain inlets are inspected to ensure that grates meet the NJDEP opening requirements and installed per design plans.
- d. Camden inspects all municipally owned and operated storm drains at least once per year. Camden developed, updated, and implemented a storm drain inlet cleaning and maintenance program. The program shall establish the conditions under which a storm drain inlet must be cleaned, and maintenance performed. Cleaning and maintenance shall be conducted, at a minimum, as frequently as necessary to ensure that sediment, trash, or other debris is removed as necessary to restrict it from entering the waters of the State; to eliminate recurring problems. and maintain proper function.

2. Municipal Catch Basins

- a. Describe when and how you conduct inspections of catch basins.
- b. Describe the criteria used to determine when catch basins need to be cleaned.

- a. There are 271 catch basins in the City of Camden System. There is a crew (Catch Basin Crew) dedicated whose daily duties include these functions to ensure that all catch basins are inspected annually and cleaned on a three (3) year cycle.

- b. Over the past several decades the City has identified twenty-six (26) specific areas (Hot Spots) that experience some degree of flooding. When any significant precipitation is anticipated, the catch basins in these areas are inspected and cleaned.

The catch basins and/or the pipes between catch basins and from the catch basins to the stormwater mains shall be cleaned immediately if any debris, litter, or other obstruction is blocking the catch basin opening, or if there is any debris, litter, or other obstruction located in or at the bottom of the catch basin structure or at the bottom of the pipes. The catch basin and pipe cleaning program implemented by the Operator shall be included in the O&M Plan.

Records of catch basin and storm drain inlet inspections, and total tons collected are maintained by American Water Contract Services Operations Center at 100 South 17th Street, Camden, NJ 08105.

3. Municipal Conveyance System

Describe when and how inspections of MS4 conveyance systems are conducted, and the criteria used to determine when they need to be cleaned. Include a description of the equipment and techniques used.

The City of Camden has developed, implemented and updates an MS4 conveyance system inspection, cleaning and maintenance program including municipally owned and operated ditches and pipes.

The City of Camden inspects all stormwater infrastructure excluding storm drain inlets, catch basins, piping and other conveyances at least four (4) times per year and after each rainstorm exceeding 1” of rainfall.

The City of Camden and/or performs necessary maintenance of all stormwater infrastructure excluding storm drain inlets, catch basins, piping and other conveyances per approved maintenance plans or more frequently as needed to ensure proper function and operation.

Conventional stormwater conveyance system inspections are visual, at a frequency above and as-needed periodic inspections. At the discretion of the City, video of underground conveyance systems may be performed on a case-by-case basis to determine the cause(s) of malfunction drainage infrastructure.

4. Municipal Outfall Inspections – Stream Scouring

Describe the program in place to detect, investigate, and control localized stream scouring from stormwater outfalls. Include a description of the equipment and techniques used.

Outfall pipes are inspected quarterly. The work orders associated with the outfall inspections are maintained by American Water Contract Services Operations Center at 100 South 17th Street, Camden, NJ 08105.

Stream scouring identified during the quarterly outfall pipes inspections are documented on the respective work order, and referred to the Division of Capital Improvement and Construction Management for inclusion in the City’s Capital Improvement Program.

The work orders associated with the outfall inspections are maintained by American Water Contract Services Operations Center at 100 South 17th Street, Camden, NJ 08105.

The City of Camden has developed and implemented a Stream Scouring program which includes the following measures:

- i. Inspect each MS4 outfall that discharges to a stream, and the surrounding area in the vicinity of the MS4 outfall, for localized scouring of the stream banks or bottom caused by the outfall. Each outfall shall be inspected at least once every five years, with a minimum of 20% of the total number of outfalls.
- ii. Inspect, within 30 days of identification, any new and/or newly identified outfalls as required in i. above for localized scouring of the stream banks or bottom caused by the outfall;
- iii. Investigate, within 30 days of receipt, all complaints and reports of stream scouring;
- iv. When localized stream scouring is detected, identify sources of stormwater that contribute to the scouring from the outfall within 3 months;
- v. Where identified sources are located on property owned or operated by the permittee, corrective action shall be taken by the permittee to reduce stormwater rate or volume when feasible;
- vi. Where identified sources are within the jurisdiction of the permittee, but not located on property owned or operated by the permittee, the permittee shall ensure that proper operation and maintenance of stormwater facilities is performed by the entity responsible for the facility as required in Part IV.F.4;

vii. Prioritize, schedule and complete remediation of identified localized stream scouring as soon as possible, taking action based upon the requirements above. If not able to be completed within 12 months, a schedule for completion shall be submitted to the MS4 Case Manager before the 12 month deadline. (See https://www.nj.gov/dep/dwq/msrp_managers.htm). This schedule of completion shall be maintained with updated information and provided to the MS4 Case Manager on a quarterly basis until completion as required in Part IV.F.3 and IV.F.4;

viii. All stream scouring restoration shall be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey at N.J.A.C. 2:90-1 (e.g., Conduit Outlet Protection 12-1) and the requirements for bank stabilization and channel restoration found at N.J.A.C. 7:13;

5. Municipal Outfall Inspections – Illicit Discharge Detection and Elimination

Describe the program in place for conducting visual dry weather inspections of municipally owned or operated outfalls. Include a description of the equipment and techniques used. Record cases of illicit discharges using the DEP’s Illicit Connection Inspection Report Form from the Department’s main stormwater webpage.

The City’s program focuses on the detection of illicit connections and elimination of illicit discharges, and illegal dumping within the City. The Department of Public Works maintains a hot line for complaints, and the Mayor’s Office of Constituent Services acts as a clearing house for all complaints received by City agencies.

Any complaint involving an illicit connection or discharge is initially investigated by American Water Contract Services using the DEP’s Illicit Connection Inspection Report Form. The records involving an illicit connection complaint or investigation will be maintained by American Water Contract Services Operations Center at 100 South 17th Street, Camden, NJ 08105.

Camden City implemented the following program to detect investigate and enforce an ongoing Illicit Discharge Detection and Elimination Program in accordance with Camden’s MS4 permit. This program shall be documented in the written SPPP). As part of this program, Camden City shall perform the following tasks:

1. Camden will conduct visual dry weather inspection of all outfall pipes owned or operated by the City at least once every five years to determine if dry weather flow or other evidence of illicit discharge is present. Dry weather flow is flow occurring 72 hours after a rain event.
2. Camden City will investigate the source if evidence of illicit discharge is found and;
 - a. Eliminate non-stormwater discharges that are traced to their source and found to be illicit connections;

- b. Document investigations and actions taken using the Department’s Illicit Connection Inspection Report Form;
 - c. Inspect any outfall pipes newly identified in compliance with Part IV.B.6.a for illicit discharges;
 - d. Investigate dry weather flows discovered during routine inspection and maintenance of other elements of the MS4; and
 - e. Investigate, within three months of receipt, complaints and reports of illicit connections including those from operating entities of interconnected MS4s.
3. Camden City has adopted and will enforce an ordinance that prohibits illicit connections to the municipal separate storm sewer system operated by the City.
 4. Camden City shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control specified for Existing Permittees (Measurable Goals and Implementation Schedule).

6. Other Municipal Infrastructure

List the types of MS4 infrastructure in your town that require inspection but are not noted above in items 1-5. Describe when and how you conduct inspections of this infrastructure and the criteria used to determine when they need to be maintained and/or cleaned.

Where existing/proposed – Camden City shall inspect and maintain “other” municipal infrastructure as follows:

Infiltration Basins – DPW staff will perform inspections according to maintenance plans that were approved by the City for major development projects. If an approved maintenance plan is not available, we typically adopt the suggested maintenance plan from the Department’s BMP Manual.

Updates may be made to the maintenance plan based on the Department’s online guidance and in-person observations of the BMP’s functionality over time. Any trash or debris gets cleaned up on the spot.

Manufactured Treatment Devices (MTDs) – DPW staff will perform MTD inspections according to the manufacturer’s maintenance plans that were approved by the township for the major development. Maintenance is conducted more frequently as needed if the functionality of the MTD declines. MTD inspections involve removal of the covering to examine the interior of the structure.

7. Stormwater Facilities Not Owned or Operated by the Municipality

Describe your program for ensuring adequate long-term cleaning, operation, and maintenance of stormwater facilities not owned or operated by the municipality. This should include your plan for ensuring annual inspections are being done on these private properties and describe how you record the locations and logs associated with private infrastructure.

Camden City maintains a GIS database of the location of each non-municipal stormwater facility and the associated inspection/maintenance records. For stormwater basins, Camden City will institute a licensing program where we charge a fee to the owner of each basin. Fees are used for municipal staff to conduct annual inspections and review maintenance records.

For all other stormwater infrastructure, each December, Camden City will send out a form to all private stormwater facility owners for them to complete and return to the City. The form requires the location and type of each stormwater facility on the property and the dates and details of inspections, maintenance, cleaning, and repairs that were performed. The form requires certification by the property owner that the stormwater facilities are functioning as designed, approved maintenance plans were followed (where appropriate) and has an area to explain if this is not the case. In instances where the owners do not perform the necessary maintenance, Camden may perform the maintenance and bill the owner.

8. Infrastructure Records

Indicate the location of records related to stormwater infrastructure inspection, cleaning, maintenance, and repair activities.

American Water Contract Services Operations
Center at 100 South 17th Street, Camden, NJ 08105.

Form 8 – Community-wide Measures

Part IV.F.2.

<p>1. Herbicide Application Management Describe your program for preventing herbicides from being washed into the waters of the State and to prevent erosion caused by de-vegetation.</p>
<p>Camden City does not apply herbicides at all. We do all de-vegetation by mowing or clipping and have not experienced erosion because of this practice.</p> <p>If Camden elects to use herbicides in the future, the City shall restrict the application of herbicides to prevent herbicides from being washed into the waters of the State and to prevent erosion caused by de-vegetation. At a minimum, the permittee shall: (1) not apply herbicides on or adjacent to storm drain inlets, or on steeply sloping ground; (2) only apply herbicides along curb lines and unobstructed shoulders that contain unwanted vegetation; and (3) only apply herbicides within a 2-foot radius around structures where overgrowth presents a safety hazard and where it is unsafe to mow.</p>
<p>2. Excess Deicing Material Management Describe your program for ensuring that excess salt piles are removed in a timely manner after storm events.</p>
<p>Camden City DPW staff are trained to shovel up excess salt piles that remain on all municipally owned or operated roadways and parking areas within three days (72 hours) after a storm is over, conditions permitting. The salt is collected in a covered trash bin on the truck and the salt is reused during the next storm.</p>
<p>3. Roadside Vegetative Waste Describe your program for ensuring proper pickup, handling, storage, and disposal of wood waste and yard trimmings generated by the permittee along municipal roads or on municipal properties (trimming trees, mowing, etc.).</p>
<p>Camden City does not collect yard trimmings. Wood collected is chipped and given away as mulch to residents.</p> <p>Where municipal maintenance occurs, DPW staff use mower bags to collect grass clippings in most areas. The clippings are dumped on a paved surface temporarily at the maintenance yard and covered. Tree branches that result from trimming activities are also collected and brought back to the maintenance yard.</p> <p>City roadside vegetative waste maintenance occurs during Spring-Fall as needed. Camden prohibits the blowing or depositing of vegetative wastes into storm drain inlets and stormwater facilities during routine municipal roadside vegetative maintenance activities.</p>

4. Roadside Erosion Control

Describe your program to detect and repair erosion along municipal roadways.

As DPW staff perform annual storm drain inlet inspections as noted above, they also check for erosion of shoulders, embankments, ditches, and soils along roads. If they notice any such erosion or sedimentation collecting in areas, including in the waters near the road, they log it in the maintenance schedule and fix the issue within three months. We either plant vegetation or use other methods, such as riprap in areas prone to erosion along roads to promote soil stabilization as described in the Standards for Soil Erosion and Sediment Control. We will contact our City engineer for guidance for cases where planting will not remedy this issue.

Form 9 – Municipal Maintenance Yards & Other Ancillary Operations

Part IV.F.5.

Please complete a separate Form 9 for each yard or site. Indicate the number of yards/sites the municipality owns or operates: _____

1. Site Name and Address

City of Camden
Department of Public Works
101 Newton Avenue
Camden, NJ 08102

NOTE: THIS SITE IS LOCATED IN A COMBINED SEWER SERVICE AREA – STORMWATER DISCHARGES FROM THE FACILITY, IF ANY ENTER THE SANITARY SEWER COLLECTION SYSTEM AND ARE CONVEYED FOR OFF-SITE WASTEWATER FACILITY TREATMENT (OTHER THAN SEVERE WET WEATHER CSO OVERFLOWS).

2. Monthly Site Inspections

Describe the nature of inspections conducted at this site and the location of inspection logs.

Beginning January 1, 2023, Camden shall implement Best Management Practices (BMPs) at municipal maintenance yard (MMY) and ancillary operation owned or operated by Camden.

Daily inspections are conducted by DPW crew during daily operations. A trained DPW crew member walks the whole site at least once each month to ensure that all materials and machinery stored outside are stored in such a way that minimizes exposure to stormwater, ensuring the materials are on impervious surfaces as required, and completely covered. Remedial actions taken during inspection, as well as those that are still needed, are noted in the inspection log. Follow-up actions are scheduled for completion within one week. Specifically, we check if outdoor containers are covered and placed on spill platforms or clean pallets and labels are in good condition. We check that spill kits are accessible near liquid transfer areas. We check if bulk liquids are protected with secondary containment and that all accessories (hoses, valves, etc.) are in good condition and within the containment area. We check that all outdoor refuse containers and dumpsters are always covered. We keep all inspection records in the DPW office.

City of Camden ensures dumpster and refuse containers that are exposed to stormwater are covered at all times.

3. Inventory List List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
Intermediate Products	None – Intermediate products stored indoor, not exposed to stormwater
Final Products	None – Final products stored indoor, not exposed to stormwater
Waste Materials	None – Waste materials stored indoor, not exposed to stormwater
By-Products	None – By-products stored indoor, not exposed to stormwater
4. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.	
None	
5. Fueling Operations Does fueling occur on site? If so, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If not, explain where fueling takes place.	
City uses three (3) fuel pumps, covered by an overhead canopy, and operates per applicable fuel management SOP's. Fueling activities do not take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).	
6. Vehicle/Equipment Maintenance and Repair Do you perform maintenance and repair on site? Is this conducted indoors or outdoors? If outdoors, describe the BMPs in place to minimize contamination of stormwater from maintenance and repair activities.	
Vehicle maintenance done per applicable SOPs. Maintenance activities do not take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).	
7. Wash Wastewater Containment Do you wash vehicles on site? If so, describe the BMPs in place to minimize contamination of stormwater from these activities. Note that on site containment structures require annual inspections by a NJ licensed professional engineer. If not, explain where vehicle washing takes place.	
N/A – wash water containment or discharges take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).	

<p>8. Salt and Other Granular De-icing Materials Do you store salt and other granular deicing materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p>This activity does not take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).</p>
<p>9. Aggregate Material, Wood Chips, and Finished Leaf Compost Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p>This activity does not take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).</p>
<p>10. Cold Patch Asphalt Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p>This activity does not take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).</p>
<p>11. Street Sweepings and Storm Sewer Cleanout Materials Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p>As indicated previously, American Water Operation & Maintenance, LLC is contracted to sweep Camden City’s streets.</p> <p>Disposal of sweepings is performed as follows:</p> <ol style="list-style-type: none"> 1. Only sweeping debris will be placed into the disposal vehicle. 2. Once the disposal vehicle is full, the bed will be covered so as not to lose any material enroute to the New Jersey Department of Environmental Protection (NJDEP) certified disposal facility. 3. The disposal vehicle operator will obtain a weight ticket for each load, documenting the quantity of debris disposed of at the (NJDEP) certified disposal facility.

12. Construction and Demolition Waste, Wood Waste, and Yard Trimmings

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

This activity does not take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).

13. Scrap Tires

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

This activity does not take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).

14. Inoperable Vehicles and Equipment

Do you store inoperable vehicles or equipment on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater. If not, explain where they are stored.

This activity does not take place in a MS4 area, this location is in a combine sewer area (i.e. sanitary and stormwater in a single pipe).

Form 10 – Training

Part IV.F.6-10.

Stormwater Program Coordinators
Describe the training provided for the municipal Stormwater Program Coordinator.
<p>The Stormwater Program Coordinator (SPC) for Camden City attends NJDEP training every permit cycle. Training covers the SPC responsibilities, permit conditions, annual reporting, and required submissions and documentation.</p>

Topic	Municipal Employees
Examples: in-person or virtual group sessions, e-Learning, field trainings, and videos	
Describe the training provided for municipal staff.	
SPPP	<p>Camden City trains staff whose job duties support the stormwater program. Training on the site-specific details in the SPPP, review MS4 permit requirements, and record-keeping is conducted annually via combined in-person/virtual training. This and all these training modules listed below are also recorded and made available for informational purposes for staff to re-review certain material presented, and for any absent or new staff, or staff that takes on new responsibilities prior to the next training session.</p>
Construction Site Stormwater Runoff	<p>Staff who are responsible for inspections of construction projects that disturb one acre of soil or more, are trained annually on related MS4 permit conditions. Property owners must obtain a 5G3 permit from NJDEP prior to commencement of construction activities and must comply with their approved soil erosion and sediment control plan.</p>
Post-Construction Stormwater Management in New and Redevelopment	<p>Staff who are responsible for implementing stormwater permit requirements receive an annual review of the fundamentals of the municipality’s postconstruction stormwater management program to address stormwater runoff. Training explains the municipality’s definition of major development and the interconnection among the Stormwater Management rules at N.J.A.C. 7:8, Camden City’s SCO, stormwater permit conditions, the Department’s BMP Manual, and Guidance Documents. For example, we identify where the Department’s maintenance guidance is available on the website for DPW staff reference when an approved maintenance plan does not exist.</p>

Community-wide Ordinances	Staff who are responsible for approving and/or enforcing stormwater-related ordinances receive annual training on related MS4 permit conditions and to review the purpose of each ordinance and what steps to take if violations are reported.
Community-wide Measures	Staff who are responsible for conducting activities associated with communitywide stormwater management measures attend annual training to discuss the MS4 permit requirements and town specific measures employed to comply with the street sweeping, storm drain inlets (labeling, retrofitting, and installations), herbicide application, de-icing operations, roadside vegetative waste, and roadside erosion control requirements. Information is also presented regarding current best management practices, safety equipment and procedures, frequency of activities, and proper documentation of work.
Stormwater Facilities Maintenance	<p>Staff responsible for conducting activities associated with inspections, maintenance and repair of stormwater infrastructure attend annual training on the MS4 related permit requirements. This training details what infrastructure is to be maintained according to approved manufacturers' maintenance plans, versus the remaining infrastructure that is to be maintained according to the NJDEP's BMP Manual.</p> <p>Training also includes requirements for current BMPs, safety equipment and procedures, frequency of activities, and proper documentation of work. All types of stormwater infrastructure in the Township are addressed in the training, which includes but is not limited to storm drain inlets, catch basins, piped and open swale MS4 conveyances, stormwater infiltration basins, and manufactured treatment devices.</p>
Municipal Maintenance Yards and Other Ancillary Operations	Staff who are responsible for conducting activities associated with our municipal maintenance yard and salt yard attend annual training to discuss related MS4 permit conditions, current best management practices, safety equipment and procedures, frequency of activities, and proper documentation of work.
MS4 Mapping	Our City Engineer (RVE) who prepares and submits ³ our electronic mapping of stormwater infrastructure attend State of the Art (SOTA) training to review the MS4 permit requirements for electronic mapping.

<p>Outfall Stream Scouring</p>	<p>Staff who are responsible for conducting inspections and repairs of stormwater outfalls attend annual training to discuss how to identify, remediate, and document cases of stream scouring as described in the MS4 permit. Training also includes current best management practices, safety equipment and procedures, frequency of activities, and proper documentation of work.</p>
<p>Illicit Discharge Detection and Elimination</p>	<p>Staff who are responsible for conducting inspections and repairs of stormwater outfalls attend annual training to discuss how to identify, remediate, and document cases of illicit discharge as described in the MS4 permit. Training also includes current best management practices, safety equipment and procedures, frequency of activities, and proper documentation of work.</p>

<p>Stormwater Management Design Reviewers</p>
<p>Describe the training provided for individuals responsible for reviews and approvals of stormwater management designs.</p>
<p>Individuals who review and approve stormwater management designs for major developments on behalf of the municipality are required under the MS4 permit to attend the mandatory NJDEP Stormwater Management Design Review course at least once every 5 years. They are required by the MS4 permit to also attend mandatory NJDEP training on amendments to the stormwater management rules at N.J.A.C. 7:8.</p>

<p>Municipal Board and Governing Body Members</p>
<p>Describe the training provided for members of the planning/zoning board and municipal council.</p>
<p>Within 6 months of joining town council or the planning or zoning board, each member is required under the MS4 permit to watch the NJDEP video titled, Asking the Right Questions in Stormwater Review https://nj.gov/dep/stormwater/asking_the_right_questions.html.</p> <p>Each term thereafter, members are required to watch another NJDEP video from the choices provided on the stormwater training webpage:</p> <p>Stormwater Management Rules Applicability https://nj.gov/dep/stormwater/training.htm</p> <p>Stormwater Management Rules Planning https://nj.gov/dep/stormwater/training.htm</p>

Stormwater Management Rules Design & Performance

<https://nj.gov/dep/stormwater/training.htm>

Stormwater Management Rules Safety <https://nj.gov/dep/stormwater/training.htm>

Training Records

Indicate the location of training records for the above required training.

Logs of all training including the type of training, date conducted, attendees and trainers are kept in the DPW Director's office.

Form 11 – MS4 Mapping

Part IV.G.1.

1. Provide a link to the most current MS4 outfall/infrastructure map.	
https://www.ci.camden.nj.us/wp-content/uploads/2020/02/Outfall-Maps.pdf	
2. Indicate the total of each type of MS4 infrastructure listed below (due 01 Jan 2026).	
a. MS4 outfalls	<i>11</i>
b. MS4 ground water discharge points (basins or overland flow infiltration areas)	<i>To be determined (TBD)</i>
c. MS4 interconnections	<i>TBD</i>
d. MS4 storm drain inlets	<i>271</i>
e. MS4 manholes	<i>132</i>
f. Length of conveyance (channels, pipes, ditches, etc.)	<i>TBD</i>
g. MS4 pump stations	<i>0</i>
h. MS4 stormwater facilities (any that are not listed above)	<i>TBD</i>
i. Maintenance yard(s) and other ancillary operations	<i>1</i>
3. Describe how the municipality’s outfall/infrastructure map is reviewed and updated to reflect any new or newly identified MS4 infrastructure (e.g., an outfall is closed, a new basin is constructed, ownership of an outfall has changed, etc.).	
<p>By January 1, 2026, City of Camden shall develop and maintain an MS4 Infrastructure Map which delineates the location of the following stormwater features that are owned or operated by the Township, including their associated attributes noted in parentheses:</p> <ul style="list-style-type: none"> • MS4 outfalls (receiving surface water name, type of outfall); • MS4 groundwater discharge points (type); • MS4 Interconnections (type into/from, entity); • Storm Drain inlets (type, catch basin present, label presented, retrofitted); • MS4 manholes; • MS4 conveyances (type, direction of flow); • MS4 pump stations; • Stormwater facilities (type); and • Property boundaries of maintenance yards and other ancillary operations (and type). <p>DPW staff shall coordinate with the City Engineer every year to discuss any new major development projects happening around town throughout the year. All infrastructure being built for those projects are then mapped by the City Engineer (RVE), and the corresponding data is submitted to our MS4 Case Manager.</p>	

4. Describe how the municipality will create and update its MS4 Infrastructure Map.

Camden City plans to continue working with American Water and/or the City Engineer (RVE) to complete the MS4 Infrastructure Map. Their staff will work with our DPW staff to locate and map all stormwater infrastructure around town until all infrastructure is mapped. RVE staff will then convert all data into Shape files and submit to our MS4 Case Manager before the mapping deadline of 01 Jan 2026.

Form 12 – Watershed Improvement Plan

Part IV.H.

1. Describe how your municipality is developing its Watershed Improvement Plan.

The City of Camden is gathering data to meet the requirements for the phase 1, Watershed Inventory Report, which is due and will be posted on our stormwater webpage by January 1, 2026. The City is completing its stormwater infrastructure map (due January 1, 2026 per its MS4 permit obligations) to include these requirements.

Camden City will include the Camden City Environmental Commission and other stakeholders in our discussions to identify opportunities for public participation and education sessions, **as well as NJDEP Guidance Documents made available on the attached weblink:**

<https://dep.nj.gov/njpdes-stormwater/municipal-stormwater-regulation-program/watershed-improvement-plan-guidance/>

- a. The City of Camden shall develop a Watershed Improvement Plan in the three phases specified below that describes what actions the permittee will take to:
 - i. Improve water quality by reducing the contribution of pollutant parameters for all receiving waters within and bordering the town that have percent reductions listed for stormwater in the Total Maximum Daily Loads (see the TMDL Look-up Tool at <https://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm>);
 - ii. Improve water quality by reducing the contribution of pollutant parameters for all receiving waters within and bordering the town that have water quality impairments as per the Department’s Integrated Report.
(See the 303(d) list portion of the Department’s Integrated Report at https://www.epa.gov/sites/default/files/2020-01/documents/2016_final_integrated_report_appendix_b.pdf); and
 - iii. Reduce and/or eliminate stormwater flooding in the municipality, prioritizing the areas of flooding for corrective actions based on threat to human health and safety, environmental impacts, and frequency of occurrence.

b. The City of Camden shall solicit input from stakeholders, including residents, business owners, owners of private stormwater facilities (as per b.xiii below), and other municipalities and/or dischargers to the subwatershed(s) to be involved in the Plan development process.

c. The City of Camden shall conduct semi-annual public information sessions (in-person or virtual) beginning on or before January 1 2026, throughout the development of the Plan. These sessions could be included on the agenda for town council (or equivalent) meetings.

d. The City of Camden shall prepare and submit to the Department, on or before January 1, 2026, the Watershed Inventory Report, as the first step of the Watershed Improvement Plan, which shall summarize and include an electronic map of the items listed below. The permittee may use any information available from the Department's GIS database at <https://gisdata-njdep.opendata.arcgis.com/> to assist with the preparation of this Report, except for items ii. through vi. For i., existing permittees shall use the outfall pipe map as the base map:

- i. All stormwater outfalls owned/operated by the permittee;
- ii. The drainage area for each outfall(s);
- iii. The receiving waterbodies of those outfalls;
- iv. The water quality classification of all receiving waterbody segments;
- v. All stormwater interconnections from the municipality into another entities' storm or sanitary sewer system;
- vi. The drainage area for each interconnection into another entities' storm or sanitary sewer system;
- vii. All stormwater connection points into the municipality from another entities' storm sewer system;
- viii. All storm drain inlets owned/operated by the permittee;
- ix. Area associated with each TMDL for waters that lie within or bordering the municipality;
- x. Area associated with each water quality impairment for waters that lie within or bordering the municipality;
- xi. Overburdened communities;
- xii. Impervious areas; and
- xiii. The location and ownership of all stormwater outfalls and basins/infrastructure not owned/operated by the permittee.

e. The City of Camden shall prepare and submit to the Department, on or before January 1, 2027, the second phase Watershed Assessment Report, which shall include, but not be limited to:

- i. An assessment of potential water quality improvement projects by sub-watershed and parameter;
- ii. An estimate of the percent reduction in loading of the TMDL/impaired parameters due to project(s) in i. above;
- iii. A summary of feedback from public information sessions;
- iv. An estimate of funding needs for each project, and identification of potential funding sources, including the New Jersey Water Bank (NJWB); the formation of an SWU, using 319 grants, FEMA BRIC grants; and
- v. An estimate of an implementation schedule.

f. The City of Camden shall post the Watershed Assessment Report, along with an announcement of a 60-day comment period for formal public input on its municipal website.

g. The City of Camden shall prepare and submit to the Department, on or before December 1, 2027, the final Watershed Improvement Plan Report, which shall include:

- i. A summary of proposed locations and load reductions of water quality improvement projects, both public and private, to be implemented;
- ii. A summary of the public comments received, and the changes made to the Final Plan;
- iii. A summary of how the projects will be coordinated with other regulatory requirements, such as:

- flood protection;
- endangered habitat/species;
- surface & ground drinking water protection;
- climate change/resiliency;
- green infrastructure/SWM requirements;
- wildlife corridors;
- green acres;
- environmental justice;
- wetlands;
- riparian buffers;
- forest corridors;

- related ongoing projects;
- and
- Delaware River Basin Commission.

iv. The proposed implementation schedule for the water quality improvement projects;

v. A schedule of the public information sessions to be held;

vi. Problems identified that are outside the jurisdiction of the permittee, if any. These can be related to pollutant loading due to agricultural properties, or other lands not under the jurisdiction of the municipality, and opportunities to address them;

vii. Costs, broken down by project and year, the funding opportunities that will be sought; and

viii. This plan shall describe how stormwater related problems in overburdened communities have been prioritized.

h. The City of Camden shall begin implementation of the Watershed Improvement Plan in accordance with the schedule set forth in the Plan.

i. The City of Camden shall update this Plan, when necessary, based upon the biennial (every 2 years) review of the revisions to the impairments of the permittee's waterbodies as per the Department's Integrated Report and newly adopted TMDLs.

2. Describe any regional projects or collaboration efforts with other municipalities.

No regional projects or collaborative efforts are proposed at this time.

3. Indicate the location of records related to all public information sessions and meetings for discussions of the Watershed Improvement Plan.

Logs of all comments received during public information sessions and minutes from meetings will be kept in the municipal clerk's office.