

Stormwater Pollution Prevention Plan

Permittee Name: County of Essex

Facility Address: 900 Bloomfield Avenue, Verona, NJ 07044

NJPDES #: NJG0153397

Annual Review Date: 07/31/2026

Stormwater Program Coordinator: David Antonio

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Form 1 – Team Members

Stormwater Program Coordinator (SPC)			
Name	David Antonio	Title	County Planner
Phone	973-390-0226	Email	dantonio@essexcountynj.org
Individual(s) Responsible for Stormwater Management Major Development Project Review			
Name(s)	Sanjeev Varghese Willie Derricotte	Title(s)	County Engineer Assistant County Engineer
Email(s)	svarghese@essexcountynj.org wderricotte@essexcountynj.org		
Other Stormwater Team Members			
Name	Frank Pascucci Michael Droz Frak Palma	Title(s)	Director of Buildings & Grounds Director of Roads & Bridges Facilities Manager
Email(s)	fpascucci@essexcountynj.org mdroz@essexcountynj.org fpalma@essexcountynj.org		
Shared/Contracted Service Providers			
Provider Name	Service Provided	Term of Service	

Form 2 – Review and Revision History

[illegible]

Form 3 – Public Education and Outreach
Part IV.B. and C.

1. Provide a link to the permittee's dedicated stormwater webpage.
www.ecdpw.org/stormwater
2. List the name and title of person(s) responsible for stormwater webpage postings/updates.
Stormwater Coordinator Essex County Engineer
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.
www.ecdpw.org/stormwater Facebook Meetings of the Essex County Commissioners Direct email blasts
4. Describe the educational activities you conducted last year to earn the required 7 points set forth in Attachment A. Provide the dates for those activities.
5. Indicate the location of records associated with public education and outreach activities.
900 Bloomfield Avenue, Verona, NJ 07044

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

Part IV.E.

1. How does the permittee define “major development”? If it is different from the definition in N.J.A.C. 7:8, explain the difference.
Essex County defines “major development” the same as the updated definition from the July 17, 2023 Stormwater Management Rules at N.J.A.C. 7:8-1.2.
2. Describe the process for reviewing and approving major development project applications for compliance with the Stormwater Management Rules at N.J.A.C. 7:8.
Consulting Engineers are responsible for designing the projects and are reviewed and approved by the County Engineer. The Plans are reviewed to ensure they follow the water quality, water quantity, groundwater recharge and green infrastructure design standards in accordance with N.J.A.C. 7:8.
3. Did the permittee request a variance from the design and performance standards for the stormwater measures? Describe the process of developing a mitigation plan.
No variances have been requested.
4. Indicate the location of approved applications for major development projects.
900 Bloomfield Avenue, Verona, NJ 07044

Attachment D – Major Development Project List

Provide the following information for each approved development or redevelopment project that is regulated by the Highway Agency MS4 NJPDES Permit, and not exempted under N.J.A.C. 7:8-1.6(b).

Highway Agency: _____		NJPDES#: NJG: _____			PI ID#: _____		Calendar Year: _____	
Project Name	Municipality / County	5G3 Construction Stormwater Permit Auth.#	DLUR Stormwater Review? (Y/N)	Total Area of Disturbance (acres)	Water Quality Treatment Required? (Y/N)	Waiver Claimed Under N.J.A.C. 7:8-5.2(e)? (Y/N)	Project Design Engineer	Project Reviewer(s)

Form 5 – Regulatory Mechanisms

Part IV.F.1. & F.2.b.

Regulatory Mechanism	Date Adopted	Was the DEP model adopted without change? If not, explain how the permittee's Regulatory Mechanism is more stringent.	Entity Responsible for Enforcement	Fees & Fines
Pet Waste Control			Municipality/ Local Police Departments	\$ ____
Wildlife Feeding Control			Municipality/ Local Police Departments	\$ ____
Litter Control			Municipality/ Local Police Departments	\$ ____
Improper Disposal of Waste			Municipality/ Local Police Departments	\$ ____
1. List any additional stormwater-related regulations the permittee has adopted to address issues beyond the scope of the MS4 permit, if applicable. Include adoption date, entity responsible for enforcement, and related fees and fines.				
2. Describe how the permittee prevents illicit connections into the MS4 and the program in place to eliminate any observed illicit discharges.				
Essex County has adopted an Illicit Connection Prohibition regulatory mechanism.				
3. Indicate the location of records associated with regulations, related violations, and enforcement actions.				
Pet Waste Control, Wildlife Feeding Control, Improper Disposal of Waste & Litter Control: The county does not own or operate any rest areas, service areas, or any other areas along its roadways which serve the needs of the general public. Therefore, the county does not have an enforcement enabling pet waste, wildlife feeding control or litter control ordinance. Illicit Connections Records Available at: County of Essex Department of Public Works 900 Bloomfield Avenue Verona, NJ 07044				

Form 6 – Litter Pick-Up Program

Part IV.F.2.c.

1. Describe the permittee's program and schedule for roadside clean-ups of trash and debris.

Essex County's inspectors and citizen online/telephone provide litter pick up requests which are handled by Essex County Department of Public Works. Additionally, regularly scheduled litter pick up teams are deployed throughout the year.

Trash picked up by the Essex County Department of Public Works and brought to their Maintenance Yard where it is placed in roll-off containers. The records are kept on a daily work sheet, which includes pick-up date and number of bags collected.

For the remainder of the County roads, Essex County utilizes assistance for clean-ups from 2nd Chance Crew from the Corrections Facilities, which is based on availability of the crew. The New Jersey Clean Communities Program provides some funds to Essex County for litter pick-ups and supplies for the Maintenance Yard.

2. Indicate the location of records that include the dates and estimated amount of material collected from roadside clean-ups

99 West Bradford Avenue
Cedar Grove, NJ 07009

3. For permittees that own or operate rest/service areas, describe the program and schedule for regular collection of trash from litter and recycling receptacles at these locations.

Essex County does not operate any rest or service areas, nor do they own or operate any trash receptacles along County Roadways.

Form 7 – Street Sweeping

Part IV.F.2.d-f.

1. Provide a written description and/or attach a map identifying all streets and paved parking lots that the permittee owns or operates. Indicate the street sweeping schedule for each of the following:
 - a. Segments of limited-access highways (including ramps and parking areas) that are owned or operated by the permittee and have storm drain inlets or discharge directly to surface water.
 - b. Segments of streets, ramps, and parking areas that are owned or operated by the permittee and have storm drain inlets or discharge directly to surface water but are NOT limited-access highways.
 - c. Segments of streets, ramps and parking areas that are owned or operated by the permittee but do NOT have storm drain inlets or discharge directly to surface water.

A. The County does not operate any limited-access roadways.

B. All County roadways are swept on a weekly basis as per the street sweeping schedule found here: [Street Sweeping Schedule rev Oct 2025.xlsx](#)

C. County does not operate/own parking or other vehicular use areas lacking stormwater drainage.

2. Indicate the location of records that include sweeping dates, location of roads/parking areas swept, number of miles swept, and total amount of material collected.

Department of Public Works

900 Bloomfield Avenue

Verona, NJ 07044

Form 8 – Storm Drain Inlets – Labeling, Retrofitting, and Installation

Part IV.F.2.g-i.

1. Describe how inlets owned or operated by the permittee that do not have a permanent wording cast into the design are properly labelled.

The County replaces the frame and grates on any inlets that do not meet the latest NJDEP stormwater regulatory requirements.

2. Describe the permittee's plan to retrofit all storm drain inlets owned or operated by the permittee by EDPA + 59 months. Indicate the percentage completed of permittee owned or operated storm drain inlets that are retrofitted.

All County owned/operated all inlets have been replaced to meet the NJDEP stormwater regulatory requirements.

3. Describe how the permittee ensures all newly installed storm drain inlets include corresponding catch basins or other BMPs to collect solids, when applicable.

Essex County utilizes NJDOT standard details and specification on all roadway improvements projects.

Form 9 – Good Housekeeping

Part IV.F.2.b, j-o.

1. Herbicide Application Management Describe the permittee's program for preventing herbicides from being washed into the waters of the State and to prevent erosion caused by de-vegetation.
In accordance with the MS4 permit, the County only applies herbicides in a 2' radius, around structures where it is not practical to mow.
2. Excess De-icing Material Management Describe the permittee's program for ensuring that excess piles of salt and de-icing/anti-icing materials are removed in a timely manner after storm events.
The County's roadway winter snow and icing operations are managed and use road inspectors that ensure that any excess salt or salt piles are collected and returned to the appropriate salt storage facility. Additionally, salt screening/spreading is monitored and regulated by management to minimize the totality of salt applied on the roadway network.
3. Vegetative Waste Management Describe the permittee's program for ensuring proper pickup, handling, storage, and disposal of wood waste and yard trimmings generated by the permittee, such as trimming trees, mowing, etc.
Essex County uses its Roads & Bridges maintenance staff to maintain vegetation along county roads and any vegetative growth that may negatively affect other stormwater facilities such as detention facilities and outfalls. The personnel performing roadside vegetation management are trained to properly so that the various wastes are not deposited into stormwater facilities.
4. Tree Replacement Management Describe the permittee's program for ensuring the proper removal and replacement of trees on permittee owned or operated property.
The County has a tree unit within the Division of Roads and Bridges that removes trees that are either unhealthy, pose a public hazard or are identified in the Essex County Urban Forest

Structure and Composition Report of 2024. This Division typically plants trees through State grant programs.

5. Roadside Erosion Control

Describe the permittee's program to detect and repair erosion along permittee owned or operated curbed and uncurbed roadways, ramps, and parking areas.

County roadway inspectors inspect the roadway network and parking areas on a regular basis and identify deficiencies such as roadside erosion. Appropriate remedial action is undertaken by the Division of Roads & Bridges.

6. Outdoor Refuse Containers and Dumpsters

Describe the permittee's program to ensure outdoor refuse containers and dumpsters on permittee owned or operated property are managed to prevent stormwater run on and run through so as not to discharge pollutants.

Essex County's Road Department Standard Operating Procedure on Good Housekeeping contains general language concerning the proper use of outdoor refuse containers and dumpsters.

Form 10 – Stormwater Facility Inspection, Cleaning, and Maintenance
Part IV.F.3.b-i.

1. Outfall Condition

Describe the program in place to check the overall condition of stormwater outfalls. Include an inspection schedule, any repairs made, and a description of the equipment and techniques used.

Program is in place and in compliance with the permit to:

- a. Conduct outfall inspections at least once every five years, with a minimum of 20% of the total number of outfalls inspected per year using outfall inspection form (see attached)
- b. Document conditions under which an outfall must be cleaned, repaired, and maintained
- c. Remove trash and debris within 30 days of discovery
- d. Investigate, within 30 days of receipt, all complaints and reports of loss of structural integrity
- e. Complete repairs as soon as practicable, but no later than 30 days of investigation, unless the Department approves an alternative schedule of completion
- f. Document all outfall inspections, investigations, and actions taken using the Department's Outfall Inspection Form.

2. Stream Scouring at Outfall Locations

Describe the program in place to detect, investigate, and control localized stream scouring caused by stormwater outfalls. Include an inspection schedule, any repairs made, and a description of the equipment and techniques used.

Program is in place and in compliance with the permit to:

- a. Conduct outfall inspections for localized stream scouring of the stream banks or bottom and the surrounding area in the vicinity of the outfall(s) caused by the outfall(s) at least once every five years, with a minimum of 20% of the total number of outfalls inspected per year using stream scouring investigation form (see attached)
- b. Document details for detecting, investigating, and controlling any localized stream scouring of the stream banks or bottom and the surrounding area in the vicinity of the outfall(s)
- c. Investigate, within 30 days of receipt, all complaints, and reports of stream scouring
- d. Identify sources of stormwater, within 3 months, that contribute to the scouring from the outfall(s) when localized stream scouring is detected
- e. Take corrective action to reduce stormwater rate or volume within the contributing 16 drainage area, when feasible, for sources of scouring that are located on property owned or operated by Middlesex County
- f. Complete remediation of localized stream scouring as soon as practicable, but no later than 12 months of discovery, unless the Department approves an alternative schedule of completion
- g. Provide progress reports on remediation of stream scouring to the Department on a quarterly basis until completion
- h. Conduct stream scouring restoration 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

i. Document all outfall inspections, investigations, and actions taken to remediate stream scouring using the Department's Stream Scouring Investigation Recordkeeping Form

3. Illicit Discharge Detection and Elimination at Outfall Locations

Describe the program in place for conducting visual dry weather inspections at permittee owned or operated outfalls. Include an inspection schedule and 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.

Program is in place and in compliance with the permit to:

- a. Conduct outfall inspections to determine if dry weather flow or other evidence of illicit discharge is present at least once every five years, with a minimum of 20% of the total number of outfalls per year
- b. Document details for conducting visual dry weather inspections to determine if dry weather flow (flow occurring 72 hours after a rain event) or other evidence of illicit discharge is present
- c. Investigate, within 30 days of receipt of complaints and reports of illicit discharge
- d. Investigate, within 30 days of identification of dry weather flows to determine if illicit discharge is present
- e. Investigate, within 30 days, to determine the source of illicit discharge
- f. Eliminate as soon as practicable, but no later than within 12 months of discovery, non-stormwater discharges that are traced to their source and found to be illicit connections, unless the Department approves an alternative schedule of completion
- g. Provide progress reports on elimination of illicit discharges to the Department on a quarterly basis until completion
- h. Document all outfall inspections, investigations, and actions taken to remediate illicit discharge(s) using the Department's Illicit Connection Inspection Report 17 Form (see attached)
- i. Illicit Discharge Detection and Elimination Program is attached

4. Storm Drain Inlets

Describe how the permittee conducts inspections of storm drain inlets and the criteria used to determine when they need to be cleaned. Include an inspection schedule and description of equipment and techniques used.

Storm drain inlets will be inspected yearly to assess repairs needed, functionality, and maintenance required. Cleaning determination is made by checking for debris, sediment, trash, or other solid or floatable material or other obstructions. The inlets will be cleaned by the regular street sweeping of the roadways. If more than 20% of the inlet remains clogged, the inlet will be manually cleaned (vacuumed or swept) and the material will be disposed of properly. Inlets that are broken or damaged in any way will be replaced or repaired within 30 days of identifying the needed repair.

5. Catch Basins

Describe how the permittee conducts inspections of catch basins and the criteria used to determine when catch basins need to be cleaned. Include an inspection schedule and description of equipment and techniques used.

Catch basins will be cleaned when found to contain excessive sediment, trash or debris. If the catch basin contains a sump, if the sump is 50% or more filled, the catch basin will be clean. If the catch basin does not have a sump, if the sediment in the basin is blocking 20% or more of the inverts, the catch basin will be cleaned. To clean the catch basin, the inlet will be removed, and a vac-truck will be used to vacuum the debris from the catch basin. At times, public works employees may need to use shovels or other hand tools to loosen the debris so it can be captured with the vacuum. At the time of cleaning, catch basins will also be inspected for proper function. Additionally, any deterioration of the concrete in the catch basin that needs to be repaired will be identified. In some cases, the top edge of the catch basin that supports the inlet can deteriorate due to road salt. If this is the case, this portion of the catch basin will be replaced with concrete blocks to ensure the inlet does not collapse. These repairs will be made within 90 days from discovery.

6. MS4 Conveyance System

Describe how the permittee conducts inspections of MS4 conveyance systems, and the criteria used to determine when MS4 conveyance systems need to be cleaned. Include an inspection schedule and description of equipment and techniques used.

Program is in place and in compliance with the permit to inspect and maintain the MS4 conveyance system.

a. A visual inspection is performed if the catch basin is not draining after the storm. Additionally, conveyance pipes will be inspected at the time of catch basin cleaning. If evidence of clogging is observed an approved contractor will be retained for maintenance and cleaning.

b. Inspections will ensure that sediment, trash, and other solids or floatable materials are removed, and will note the conditions under which areas of the conveyance system must be

cleaned and maintained. Any clogged pipes will be cleaned manually and vacuumed, with debris and sediment taken to the Essex County Public Works Yard.

7. Other MS4 Infrastructure

List the types of MS4 infrastructure the permittee owns or operates that require inspection but are not noted above in items 1-6. Describe how the permittee conducts inspections of this infrastructure. Include an inspection schedule and description of equipment and techniques used for each.

N/A

8. Infrastructure Records

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

Essex County Department of Public Works
99 West Bradford Avenue
Cedar Grove, NJ 07009

Form 11 – Maintenance Yards & Other Ancillary Operations

Part IV.F.4.

Complete a separate Form 11 for each site. Indicate the number of sites the permittee owns or operates: 1 of 8

1. Site Name and Address	
Essex County DPW 99 West Bradford Avenue Cedar Grove, NJ	
2. Monthly Site Inspections	
Describe the frequency and nature of inspections conducted at this site. Indicate the location of inspection logs.	
Inspect the entire site, including the site periphery, monthly (under both dry and wet conditions, when possible). Maintain an inspection log detailing conditions requiring attention and remedial actions taken for all activities occurring at maintenance yards and other ancillary operations.	
3. Inventory List	
List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
See attached inventory list.	See attached inventory list.
4. Fueling Operations	
If fueling occurs on site, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If fueling does not occur on site, explain where fueling takes place.	
During fuel transfers, a trained employee is present to supervise the bulk transfer while ensuring that drip pans are placed under all hose or pipe connections and temporary berms are placed to block all storm sewer inlets. Additionally, proper signage and a clear contact list are posted on the pumps for individuals responsible for spills and safe fueling equipment operations. Any damaged equipment will be immediately repaired or replaced.	

5. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.
N/A - The fueling tanks are in concrete secondary closed containment systems. There is no way for rainwater to enter this system.
6. Vehicle/Equipment Maintenance and Repair If vehicle/equipment maintenance and repair occur outdoors, describe the BMPs in place to minimize contamination of stormwater from these activities.
N/A - Vehicle/Equipment Maintenance and Repair is performed indoors.
7. Wash Wastewater Containment If vehicle/equipment is washed on site, describe the BMPs in place to minimize contamination of stormwater from these activities. If not, explain where vehicle/equipment washing takes place. If containment is used for wash wastewater, indicate what procedures are in place to prevent any unpermitted discharges of wash wastewater to storm sewer inlets, surface waters, or groundwaters of the state. Indicate the location of records kept showing compliance with this section.
No vehicle washing occurs on site. All County vehicle washing occurs at private, off-site car-wash facilities.
8. Salt and Other Granular De-icing/Anti-icing Materials Describe where salt and other granular de-icing/anti-icing material is stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

No Salt and Other Granular De-icing/Anti-icing Materials are stored at this location.

1. Aggregate Material, Wood Chips, and Finished Leaf Compost

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

These materials are stored on site in three-sided storage bays where the openings are situated on an upslope and more than 50 feet away from any stormwater inlets and surface water. Any material left on the ground outside of the bays is swept up and put back in the storage bays.

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

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

We store construction and demolition waste, wood waste, and yard trimmings temporarily at our site. Construction and demolition waste are stored in a dedicated dumpster, which is covered when not in use and hauled for proper disposal when the container is full or every 4 months, whichever is sooner. Wood waste and yard trimmings are stored in storage bays which are more than 50 feet Storm County / NJG0123456 / 01/23/2025 19 from any stormwater inlets and surface water. Materials are hauled away when the bays get full or every 4 months, whichever is sooner.

3. Cold Patch Asphalt

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Cold patch is maintained in an enclosed structure facility located at 99 West Bradford Avenue, Cedar Grove.

4. Street Sweepings and Storm Sewer Clean-out Materials

Describe where these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Clean out materials are temporarily stored in a 20-yard roll off dumpster dedicated to these materials which is covered with a tarp when not actively being filled. The dumpster is regularly checked for damage or leaks. The dumpster is hauled off for proper disposal when it is full or every 4 months, whichever is sooner.

5. Scrap Tires Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.
Scrap tires are stored inside the garage.
6. Inoperable Vehicles and Equipment Describe where these are stored. Describe the BMPs in place to minimize contamination of stormwater from these. If they are not stored on site, explain where these are stored.
Any inoperable vehicles and equipment on site are inspected monthly to check for leaks, filled drip pans, and ensure that all BMPs are being appropriately followed. Any discovered leaks will be repaired or the fluid fully drained within 30 days of initial notice. These materials are stored at a minimum of 50 feet away from any storm drain inlets.

Form 11 – Maintenance Yards & Other Ancillary Operations

Part IV.F.4.

Complete a separate Form 11 for each site. Indicate the number of sites the permittee owns or operates: 2 of 8

1. Site Name and Address	
ECDPW 900 Bloomfield Avenue Verona, NJ 07044	
2. Monthly Site Inspections	
Describe the frequency and nature of inspections conducted at this site. Indicate the location of inspection logs.	
Site inspections are conducted at the beginning of each month and resulting inspection logs can be found within the DPW office.	
3. Inventory List	
List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
	County vehicles
Salt	Mowers
4. Fueling Operations	
If fueling occurs on site, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If fueling does not occur on site, explain where fueling takes place.	
No fueling operations at this location.	

5. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.
Not applicable to this location.
6. Vehicle/Equipment Maintenance and Repair If vehicle/equipment maintenance and repair occur outdoors, describe the BMPs in place to minimize contamination of stormwater from these activities.
Not applicable to this location.
7. Wash Wastewater Containment If vehicle/equipment is washed on site, describe the BMPs in place to minimize contamination of stormwater from these activities. If not, explain where vehicle/equipment washing takes place. If containment is used for wash wastewater, indicate what procedures are in place to prevent any unpermitted discharges of wash wastewater to storm sewer inlets, surface waters, or groundwaters of the state. Indicate the location of records kept showing compliance with this section.
Not applicable to this location.
8. Salt and Other Granular De-icing/Anti-icing Materials Describe where salt and other granular de-icing/anti-icing material is stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.
The County stores its salt in a salt dome. Haybales are used to prevent any spillage of salt out of the dome. The site is cleaned up at the end of each operating day.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.
Not applicable to this location.
10. Construction and Demolition Waste, Wood Waste, and Yard Trimmings Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.
Not applicable to this location.
11. Cold Patch Asphalt Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.
Not applicable to this location.
12. Street Sweepings and Storm Sewer Clean-out Materials Describe where these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.
Not applicable to this location.

13. Scrap Tires Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.
Not applicable to this location.
14. Inoperable Vehicles and Equipment Describe where these are stored. Describe the BMPs in place to minimize contamination of stormwater from these. If they are not stored on site, explain where these are stored.
Not applicable to this location.

Form 11 – Maintenance Yards & Other Ancillary Operations

Part IV.F.4.

Complete a separate Form 11 for each site. Indicate the number of sites the permittee owns or operates: 3 of 8

1. Site Name and Address	
ECDPW 2 Grove Avenue Cedar Grove, NJ 07044	
2. Monthly Site Inspections	
Describe the frequency and nature of inspections conducted at this site. Indicate the location of inspection logs.	
Site inspections are conducted at the beginning of each month and resulting inspection logs can be found within the DPW office.	
3. Inventory List	
List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
	County vehicles
4. Fueling Operations	
If fueling occurs on site, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If fueling does not occur on site, explain where fueling takes place.	
No fueling operations at this location.	

5. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.
Not applicable to this location.
6. Vehicle/Equipment Maintenance and Repair If vehicle/equipment maintenance and repair occur outdoors, describe the BMPs in place to minimize contamination of stormwater from these activities.
Not applicable to this location.
7. Wash Wastewater Containment If vehicle/equipment is washed on site, describe the BMPs in place to minimize contamination of stormwater from these activities. If not, explain where vehicle/equipment washing takes place. If containment is used for wash wastewater, indicate what procedures are in place to prevent any unpermitted discharges of wash wastewater to storm sewer inlets, surface waters, or groundwaters of the state. Indicate the location of records kept showing compliance with this section.
Not applicable to this location.
8. Salt and Other Granular De-icing/Anti-icing Materials Describe where salt and other granular de-icing/anti-icing material is stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.
Not applicable to this location.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.
Not applicable to this location.
10. Construction and Demolition Waste, Wood Waste, and Yard Trimmings Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.
Not applicable to this location.
11. Cold Patch Asphalt Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.
Not applicable to this location.
12. Street Sweepings and Storm Sewer Clean-out Materials Describe where these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.
Not applicable to this location.

13. Scrap Tires Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.
Not applicable to this location.
14. Inoperable Vehicles and Equipment Describe where these are stored. Describe the BMPs in place to minimize contamination of stormwater from these. If they are not stored on site, explain where these are stored.
Not applicable to this location.

Form 11 – Maintenance Yards & Other Ancillary Operations

Part IV.F.4.

Complete a separate Form 11 for each site. Indicate the number of sites the permittee owns or operates: 4 of 8

1. Site Name and Address	
South Mountain Reservation- Fuel Pumps South Orange Avenue/Cherry Lane Millburn, NJ 07041	
2. Monthly Site Inspections	
Describe the frequency and nature of inspections conducted at this site. Indicate the location of inspection logs.	
Site inspections are conducted at the beginning of each month and resulting inspection logs can be found within the DPW office.	
3. Inventory List	
List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
Gasoline/ Diesel	Fuel Pumps and related machinery
4. Fueling Operations	
If fueling occurs on site, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If fueling does not occur on site, explain where fueling takes place.	
During fuel transfers, a trained employee is present to supervise the bulk transfer while ensuring that drip pans are placed under all hose or pipe connections and temporary berms are placed to block all storm sewer inlets. Additionally, proper signage and a clear contact list are posted on the pumps for individuals responsible for spills and safe fueling equipment operations. Any damaged equipment will be immediately repaired or replaced.	

5. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.
Not applicable to this location.
6. Vehicle/Equipment Maintenance and Repair If vehicle/equipment maintenance and repair occur outdoors, describe the BMPs in place to minimize contamination of stormwater from these activities.
Not applicable to this location.
7. Wash Wastewater Containment If vehicle/equipment is washed on site, describe the BMPs in place to minimize contamination of stormwater from these activities. If not, explain where vehicle/equipment washing takes place. If containment is used for wash wastewater, indicate what procedures are in place to prevent any unpermitted discharges of wash wastewater to storm sewer inlets, surface waters, or groundwaters of the state. Indicate the location of records kept showing compliance with this section.
Not applicable to this location.
8. Salt and Other Granular De-icing/Anti-icing Materials

Describe where salt and other granular de-icing/anti-icing material is stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

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

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

11. Cold Patch Asphalt

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

12. Street Sweepings and Storm Sewer Clean-out Materials

Describe where these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

13. Scrap Tires

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

14. Inoperable Vehicles and Equipment

Describe where these are stored. Describe the BMPs in place to minimize contamination of stormwater from these. If they are not stored on site, explain where these are stored.

Not applicable to this location.

Form 11 – Maintenance Yards & Other Ancillary Operations

Part IV.F.4.

Complete a separate Form 11 for each site. Indicate the number of sites the permittee owns or operates: 5 of 8

1. Site Name and Address	
Howard Street- Fuel Pumps Howard Street/13 th Avenue Newark, NJ 07102	
2. Monthly Site Inspections	
Describe the frequency and nature of inspections conducted at this site. Indicate the location of inspection logs.	
Site inspections are conducted at the beginning of each month and resulting inspection logs can be found within the DPW office.	
3. Inventory List	
List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
Gasoline/ Diesel	Fuel Pumps and related machinery
4. Fueling Operations	
If fueling occurs on site, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If fueling does not occur on site, explain where fueling takes place.	
During fuel transfers, a trained employee is present to supervise the bulk transfer while ensuring that drip pans are placed under all hose or pipe connections and temporary berms are placed to block all storm sewer inlets. Additionally, proper signage and a clear contact list are posted on the pumps for individuals responsible for spills and safe fueling equipment operations. Any damaged equipment will be immediately repaired or replaced.	

5. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.
Not applicable to this location.
6. Vehicle/Equipment Maintenance and Repair If vehicle/equipment maintenance and repair occur outdoors, describe the BMPs in place to minimize contamination of stormwater from these activities.
Not applicable to this location.
7. Wash Wastewater Containment If vehicle/equipment is washed on site, describe the BMPs in place to minimize contamination of stormwater from these activities. If not, explain where vehicle/equipment washing takes place. If containment is used for wash wastewater, indicate what procedures are in place to prevent any unpermitted discharges of wash wastewater to storm sewer inlets, surface waters, or groundwaters of the state. Indicate the location of records kept showing compliance with this section.
Not applicable to this location.
8. Salt and Other Granular De-icing/Anti-icing Materials

Describe where salt and other granular de-icing/anti-icing material is stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

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

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

11. Cold Patch Asphalt

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

12. Street Sweepings and Storm Sewer Clean-out Materials

Describe where these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

13. Scrap Tires

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

14. Inoperable Vehicles and Equipment

Describe where these are stored. Describe the BMPs in place to minimize contamination of stormwater from these. If they are not stored on site, explain where these are stored.

Not applicable to this location.

Form 11 – Maintenance Yards & Other Ancillary Operations

Part IV.F.4.

Complete a separate Form 11 for each site. Indicate the number of sites the permittee owns or operates: 6 of 8

1. Site Name and Address	
Byrne Golf- Maint. – Fuel Location Mount Pleasant Avenue West Orange, NJ 07052	
2. Monthly Site Inspections	
Describe the frequency and nature of inspections conducted at this site. Indicate the location of inspection logs.	
Site inspections are conducted at the beginning of each month and resulting inspection logs can be found within the DPW office.	
3. Inventory List	
List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
Gasoline/ Diesel	Fuel Pumps and related machinery
4. Fueling Operations	
If fueling occurs on site, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If fueling does not occur on site, explain where fueling takes place.	
During fuel transfers, a trained employee is present to supervise the bulk transfer while ensuring that drip pans are placed under all hose or pipe connections and temporary berms are placed to block all storm sewer inlets. Additionally, proper signage and a clear contact list are posted on the pumps for individuals responsible for spills and safe fueling equipment operations. Any damaged equipment will be immediately repaired or replaced.	

5. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.
Not applicable to this location.
6. Vehicle/Equipment Maintenance and Repair If vehicle/equipment maintenance and repair occur outdoors, describe the BMPs in place to minimize contamination of stormwater from these activities.
Not applicable to this location.
7. Wash Wastewater Containment If vehicle/equipment is washed on site, describe the BMPs in place to minimize contamination of stormwater from these activities. If not, explain where vehicle/equipment washing takes place. If containment is used for wash wastewater, indicate what procedures are in place to prevent any unpermitted discharges of wash wastewater to storm sewer inlets, surface waters, or groundwaters of the state. Indicate the location of records kept showing compliance with this section.
Not applicable to this location.
8. Salt and Other Granular De-icing/Anti-icing Materials

Describe where salt and other granular de-icing/anti-icing material is stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

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

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

11. Cold Patch Asphalt

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

12. Street Sweepings and Storm Sewer Clean-out Materials

Describe where these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

13. Scrap Tires

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

14. Inoperable Vehicles and Equipment

Describe where these are stored. Describe the BMPs in place to minimize contamination of stormwater from these. If they are not stored on site, explain where these are stored.

Not applicable to this location.

Form 11 – Maintenance Yards & Other Ancillary Operations

Part IV.F.4.

Complete a separate Form 11 for each site. Indicate the number of sites the permittee owns or operates: 7 of 8

1. Site Name and Address	
Hendrick Field Golf- Maint. – Fuel Location 502 Belleville Avenue Belleville, NJ 07109	
2. Monthly Site Inspections	
Describe the frequency and nature of inspections conducted at this site. Indicate the location of inspection logs.	
Site inspections are conducted at the beginning of each month and resulting inspection logs can be found within the DPW office.	
3. Inventory List	
List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
Gasoline/ Diesel	Fuel Pumps and related machinery
4. Fueling Operations	
If fueling occurs on site, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If fueling does not occur on site, explain where fueling takes place.	
During fuel transfers, a trained employee is present to supervise the bulk transfer while ensuring that drip pans are placed under all hose or pipe connections and temporary berms are placed to block all storm sewer inlets. Additionally, proper signage and a clear contact list are posted on the pumps for individuals responsible for spills and safe fueling equipment operations. Any damaged equipment will be immediately repaired or replaced.	

5. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.
Not applicable to this location.
6. Vehicle/Equipment Maintenance and Repair If vehicle/equipment maintenance and repair occur outdoors, describe the BMPs in place to minimize contamination of stormwater from these activities.
Not applicable to this location.
7. Wash Wastewater Containment If vehicle/equipment is washed on site, describe the BMPs in place to minimize contamination of stormwater from these activities. If not, explain where vehicle/equipment washing takes place. If containment is used for wash wastewater, indicate what procedures are in place to prevent any unpermitted discharges of wash wastewater to storm sewer inlets, surface waters, or groundwaters of the state. Indicate the location of records kept showing compliance with this section.
Not applicable to this location.
8. Salt and Other Granular De-icing/Anti-icing Materials

Describe where salt and other granular de-icing/anti-icing material is stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

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

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

11. Cold Patch Asphalt

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

12. Street Sweepings and Storm Sewer Clean-out Materials

Describe where these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

13. Scrap Tires

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

14. Inoperable Vehicles and Equipment

Describe where these are stored. Describe the BMPs in place to minimize contamination of stormwater from these. If they are not stored on site, explain where these are stored.

Not applicable to this location.

Form 11 – Maintenance Yards & Other Ancillary Operations

Part IV.F.4.

Complete a separate Form 11 for each site. Indicate the number of sites the permittee owns or operates: 8 of 8

1. Site Name and Address	
Branch Brook Park. – Fuel Location Heller Parkway / City Subway Newark, NJ 07107	
2. Monthly Site Inspections	
Describe the frequency and nature of inspections conducted at this site. Indicate the location of inspection logs.	
Site inspections are conducted at the beginning of each month and resulting inspection logs can be found within the DPW office.	
3. Inventory List	
List all materials and machinery that are potentially exposed to stormwater.	
Materials	Machinery/Equipment
Gasoline/ Diesel	Fuel Pumps and related machinery
4. Fueling Operations	
If fueling occurs on site, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If fueling does not occur on site, explain where fueling takes place.	
During fuel transfers, a trained employee is present to supervise the bulk transfer while ensuring that drip pans are placed under all hose or pipe connections and temporary berms are placed to block all storm sewer inlets. Additionally, proper signage and a clear contact list are posted on the pumps for individuals responsible for spills and safe fueling equipment operations. Any damaged equipment will be immediately repaired or replaced.	

5. Discharge of Stormwater from Secondary Containment Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.
Not applicable to this location.
6. Vehicle/Equipment Maintenance and Repair If vehicle/equipment maintenance and repair occur outdoors, describe the BMPs in place to minimize contamination of stormwater from these activities.
Not applicable to this location.
7. Wash Wastewater Containment If vehicle/equipment is washed on site, describe the BMPs in place to minimize contamination of stormwater from these activities. If not, explain where vehicle/equipment washing takes place. If containment is used for wash wastewater, indicate what procedures are in place to prevent any unpermitted discharges of wash wastewater to storm sewer inlets, surface waters, or groundwaters of the state. Indicate the location of records kept showing compliance with this section.
Not applicable to this location.
8. Salt and Other Granular De-icing/Anti-icing Materials

Describe where salt and other granular de-icing/anti-icing material is stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

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

Describe where each of these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

11. Cold Patch Asphalt

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

12. Street Sweepings and Storm Sewer Clean-out Materials

Describe where these materials are stored. Describe the BMPs in place to minimize contamination of stormwater from these materials. If not stored on site, explain where these materials are stored.

Not applicable to this location.

13. Scrap Tires

Describe where this material is stored. Describe the BMPs in place to minimize contamination of stormwater from this material. If not stored on site, explain where this material is stored.

Not applicable to this location.

14. Inoperable Vehicles and Equipment

Describe where these are stored. Describe the BMPs in place to minimize contamination of stormwater from these. If they are not stored on site, explain where these are stored.

Not applicable to this location.

Form 12 – Training

Part IV.F.5-9.

NJDEP Provided Training		
Training	Attendee(s)	Date(s) Attended
Stormwater Program Coordinator (SPC) Training	David Antonio	12/30/2025
Stormwater Management Design Review (SWMDR) Training	David Antonio	Fall 2025 Spring 2023 Fall 2021
Stormwater Management Rule Amendment Training	David Antonio	08/15/2023 02/24/2026

Annual Employee Training	
Topic	Description of training provided to staff including location of training records
SPPP	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ
Construction Site Stormwater Runoff	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ
Post-Construction Stormwater Management in New and Redevelopment	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ
Regulatory Mechanisms	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ

Good Housekeeping	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ
Stormwater Facility Maintenance	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ
Maintenance Yard and Other Ancillary Operations	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ
De-icing/Anti-icing Material Application	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ
MS4 Mapping	In-person training with PowerPoint Slideshow with training packet for instructor with handouts. Training records maintained at: ECDPW 900 Bloomfield Avenue Verona, NJ
Watershed Improvement Plan	TBD

Form 13 – MS4 Mapping

Part IV.G.1.

1. Provide a link to the most current MS4 Infrastructure Map.	
Add link	
2. Indicate the total of each type of MS4 infrastructure listed below	
MS4 outfalls	524
MS4 ground water discharge points	0
MS4 interconnections	TBD
MS4 storm drain inlets	8215
MS4 manholes	TBD
Length of conveyance	415
MS4 pump stations	0
MS4 stormwater facilities (any that are not listed above)	0
Maintenance yard(s) and other ancillary operations	11
3. Describe the process for updating the MS4 Infrastructure Map for 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.).	
Th Office of the County Engineer along with the Division of Roads and Bridges will identify and maintain records of changes to the County's stormwater system.	
4. Describe how the permittee will update and maintain an MS4 Infrastructure Map. List the person(s) or group/department of people responsible for maintaining the electronic database.	
The County GIS consultant team will add any new infrastructure data to the County's Stormwater Infrastructure Map if and when directed by the Office of the County Engineer.	

Form 14 – Watershed Improvement Plan

Part IV.H.

1. Describe any regional collaboration efforts with municipalities or other MS4 permittees.
None
2. List the subwatersheds (HUC 14s) identified by the permittee, including any associated TMDLs and water quality impairments related to stormwater for each subwatershed.
See attached “HUC14 Areas in Essex County” Attachment.
3. List areas of flooding within the permittee’s jurisdiction.
Upper Passaic River and Tributaries Lower Passaic River and Tributaries Rahway River and Tributaries
4. Describe how the permittee is developing or has developed a Phase 1 Watershed Inventory.
The County will utilize the results of the infrastructure mapping and consultant services to create a GIS-based permit deliverable and not just a narrative report. The key will be to build one defensible geodatabase linking each County outfall and drainage area to its receiving water, impairment/TMDL status, flooding history, and impervious surface
5. Describe how the permittee will conduct public information session(s) for the start of the Phase 2 – Watershed Assessment Report. Indicate the date(s), time(s), and regional participant(s) for each public information session held.
To be determined. Completion of a Phase 1 Watershed Inventory is required.
6. Provide a link to the Phase 2 Watershed Assessment Report and indicate the start date of the 60-day comment period.
To be determined. Completion of a Phase 1 Watershed Inventory is required.
7. Describe how the permittee will conduct the FINAL public information session(s) no more than 45 days after the start of the 60-day public comment period for the Phase 2 Watershed Assessment Report. Indicate the date(s), time(s), and regional participant(s) for each public information session held.
To be determined. Completion of a Phase 1 Watershed Inventory and draft Phase 2 Watershed Assessment Report is required.

8. Provide a link to the final Watershed Improvement Plan Report.
<i>To be provided.</i>
9. Indicate the location of records related to all public information sessions and meetings for discussions of the Watershed Improvement Plan.
<i>To be provided.</i>

HUC-14 SUBWATERSHEDS WITHIN ESSEX COUNTY, NEW JERSEY

Compiled by Watershed Management Area

Total HUC-14 Areas

21 subwatersheds located wholly or partly within Essex County

Primary Source

New Jersey Department of Environmental Protection HUC-14 watershed mapping and related county/municipal watershed documents

WMA 6 - Upper Passaic River

Includes portions of Fairfield, West Caldwell, Caldwell, Roseland, Livingston, Essex Fells, Millburn, and adjoining western Essex County communities.

HUC-14 Code	Subwatershed Name
2030103040010	Passaic River Upper - Pompton River to Pine Brook
2030103010180	Passaic River Upper - Pine Brook Bridge to Rockaway River
2030103010170	Passaic River Upper - Rockaway River to Hanover Railroad
2030103010160	Passaic River Upper - Hanover Railroad to Columbia Road
2030103010150	Passaic River Upper - Columbia Road to 40°45' latitude
2030103010190	Slough Brook
2030103010140	Canoe Brook

WMA 4 - Lower Passaic River

Includes portions of Cedar Grove, Verona, Montclair, Glen Ridge, Bloomfield, Nutley, Belleville, and Newark.

HUC-14 Code	Subwatershed Name
2030103120060	Deepavaal Brook
2030103120020	Peckman River - below Cedar Grove Reservoir tributary
2030103120010	Peckman River - above Cedar Grove Reservoir tributary
2030103150010	Third River
2030103150020	Second River
2030103150030	Passaic River Lower - Second River to Saddle River
2030103150040	Passaic River Lower - 4th Street Bridge to Second River
2030103150050	Passaic River Lower - Newark Bay to 4th Street Bridge

WMA 7 - Arthur Kill, Newark Bay and Rahway River

Includes portions of West Orange, Orange, South Orange, Maplewood, Irvington, East Orange, and Newark, including Newark Liberty International Airport and Newark Bay.

HUC-14 Code	Subwatershed Name
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HUC-14 Code	Subwatershed Name
2030104050010	Rahway River West Branch
2030104050020	Rahway River East Branch
2030104020010	Elizabeth River - above Interstate 78
2030104020020	Elizabeth River - Elizabeth corporate boundary to Interstate 78
2030104010010	Newark Airport Peripheral Ditch
2030104010020	Newark Bay / Kill Van Kull - 74°07'30"

Important Mapping Note

For regulatory, permitting, or project-specific engineering work, the NJDEP GIS polygon layer should be used to confirm whether a particular parcel, roadway segment, or facility lies within a HUC-14 boundary. Small overlaps near county or municipal boundaries should be verified by GIS intersection using project coordinates.

Reference Sources

- New Jersey Department of Environmental Protection, HUC-14 Subwatersheds GIS layer.
- Essex County Wastewater Management Plan and watershed mapping.
- Municipal stormwater management plans and watershed mapping for Essex County municipalities.
- NJDEP metadata and mapping documentation for HUC-14 boundaries.