

Highway Agency Stormwater Pollution Prevention Plan

County of Union

NJD0153320


9/1/2023

Updated 12/24/2024

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SPPP Form 1 – SPPP Team Members

Stormwater Program Coordinator (SPC)	
Print Name and Title	Ricardo Matias, County Engineer
Office Phone # and Email	908-789-3675 ricardo.matias@ucnj.org
Signature and Date	 9/1/2023
Individual Responsible for Major Development Project Stormwater Management Review	
Please see training requirements for stormwater management reviewers on Form 13.	
Print Name and Title/Affiliation	Ricardo Matias, County Engineer
Print Name and Title/Affiliation	
Print Name and Title/Affiliation	
Print Name and Title/Affiliation	
Print Name and Title/Affiliation	
Other SPPP Team Members	
Print Name and Title/Affiliation	Kelly Martins, Public Information Office
Print Name and Title/Affiliation	Bruce Bergen, County Counsel
Print Name and Title/Affiliation	Charles Lombardo, Employee Training Coordinator
Print Name and Title/Affiliation	Joseph Policay, Director of Public Works

SPPP Form 2 – Revision History

Revision Date	SPC Initials	SPPP Form Changed	Reason for Revision
9/1/2023	RM	All	Revised to the new format documents
12/24/2024	RM	2, 4, 6, 15, 17	Made revisions to several forms as indicated, added appendix K, L and Z, and included the newly authorized permit.

SPPP Form 3 – Public Involvement and Participation Including Public Notice

Website where the Stormwater Pollution Prevention Plan (SPPP) is posted online:	www.uncj.org
Physical Location and/or website where records of public notices, meeting dates, minutes, etc. are kept:	<p style="text-align: center;">County of Union Division of Engineering 2325 South Avenue Scotch Plains, NJ 07076</p>
Describe how the permittee complies with applicable state and local public notice requirements when providing for public participation in the development and implementation of its MS4 stormwater program:	
<p>For any meetings where public notice is required under the Open Public Meetings Act ("Sunshine Law", N.J.S.A. 10:4-6 et seq.), the COUNTY OF UNION provides public notice in a manner that complies with the requirements of that Act. Also, in regard to the county budget, the COUNTY OF UNION provides public notice in a manner that complies with the requirements of the Local Budget Law, N.J.S.A. 40A:4-1 et seq. For resolutions of the COUNTY OF UNION's Board of County Commissioners that provide a penalty for violation thereof, the COUNTY OF UNION provides public notice that complies with the requirements of N.J.S.A. 40:24-3.</p>	

SPPP Form 4 – Public Education and Outreach

This is only required for Highway Agencies that own or operate rest areas and/or service areas.

5 Point System: Each year, Highway Agencies that own or operate rest areas and/or service areas must conduct activities related to educating the public on stormwater pollution prevention. Sample activities include posting stormwater information on their website or social media, running local ads, posting signs at green infrastructure sites, posting stormwater signs, billboards, or murals at rest/service areas, presenting a stormwater related display or materials at rest/service areas, and providing pet waste bags at rest/service areas.

Permittees must earn at least 5 points as described in Attachment B of the permit. Describe how you are meeting the minimum 5-point requirement.

The County of Union owns and operates a combination of eleven (11) facilities comprised of the following maintenance and fueling areas:

1. Galloping Hill Yard (Golf & DPW) – 21 North 31st Street, Kenilworth NJ
2. Ashbrook Yard (Gold & DPW) – 1210 Raritan Road, Scotch Plains (direct 1602 Raritan Rd, Scotch Plains NJ)
3. Warinanco Park Yard – 114 Acme Street, Elizabeth NJ
4. Echo Lake Park Yard – Park Drive, Echo Lake Park, Mountainside NJ
5. Cedar Brook Park Yard – Mathewson Drive, Cedar Brook Park, Plainfield NJ
6. Houdaille Quarry – 301 Shunpike Road, Springfield, NJ
7. Scotch Plains Yard – 2371 South Avenue, Scotch Plains, NJ
8. Oak Ridge Park Yard – 136 Oak Ridge Avenue, Clark, NJ
9. Rahway River Park Yard – Parkway Drive, Rahway, NJ
10. Watchung Stables – 1160 Summit Lane, Mountainside, NJ
11. Public Safety Complex – 300 North Avenue, Westfield, NJ

The County has determined that the most efficient way to provide for public education on the required topics at these areas is to post the following signs as appropriate: 1) "NO FEEDING OF WILDLIFE" 2) "CLEAN UP PET WASTE" 3) "NO LITTERING"

The County has also recently launched a website dedicated to stormwater at:

<https://ucnj.org/stormwater/>

Records: Indicate where public education and outreach records are maintained.

2325 South Avenue, Scotch Plains, NJ & on ucnj.org

SPPP Form 5 – Post-Construction Stormwater Management in New Development and Redevelopment Program

<p>Major Development: How does the permittee define ‘major development’?</p>
<p>“Major development” means an individual “development,” as well as multiple developments that individually or collectively result in: 1. The disturbance of one or more acres of land since February 2, 2004; 2. The creation of one-quarter acre or more of “regulated impervious surface” since February 2, 2004; 3. The creation of onequarter acre or more of “regulated motor vehicle surface” since March 2, 2021; or 4. A combination of 2 and 3 above that totals an area of one-quarter acre or more. The same surface shall not be counted twice when determining if the combination area equals one-quarter acre or more.</p>
<p>Approval Process: 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 et seq. Attach a flow chart if available. Provide the location of the mitigation plan (if one exists) to allow for alternative locations or designs.</p>
<p>All development plans will be designed by hired consultants and reviewed by the County Engineer for compliance with the stormwater management rules of NJAC 7:8 et seq.</p>
<p>Records: Indicate the location of approved applications for major development projects.</p>
<p>Physical copies of the construction plans shall be located at the County Engineers Office at 2325 South Avenue, Scotch Plains NJ 07076.</p>

SPPP Form 6 – Regulatory Mechanisms

Regulatory Mechanism	Date of Adoption	Website	Entity Responsible for Enforcement
1. Pet Waste Control Permit cite IV.B.5.a.i.	12/18/2024	https://ucnj.org/stormwater/	County Police
2. Wildlife Feeding Control Permit cite IV.B.5.a.ii.	12/18/2024	https://ucnj.org/stormwater/	County Police
3. Litter Control Permit cite IV.B.5.a.iii.	12/18/2024	https://ucnj.org/stormwater/	County Police
4. Improper Disposal of Waste Permit cite IV.B.5.a.iv.	N/A	N/A	N/A
5. Illicit Connection Prohibition Permit cite IV.B.5.a.vii.	N/A	N/A	N/A

Records: Indicate the location of records associated with the regulatory mechanisms above and related enforcement actions.

2325 South Avenue, Scotch Plains, NJ 07076

SPPP Form 7 – Litter Pick-Up Program

<p>Roadside Clean-up: Describe the program and schedule for roadside clean-up of trash and debris.</p>
<p>Trash is collected and picked up from all locations where public trash cans are available.</p> <p>Garbage and refuse are collected from Union County's 30 parks and 2 golf courses on a regular basis. A refuse truck is deployed with a 3-man crew in each of the County's 5 geographical sections every Monday and Friday throughout the year. During the heavier park use months of the summer, trucks area also an additional day as needed and on weekends that are expected to be unusually busy, such as holidays or during large public events. On occasion refuse crews may be sent out on Saturdays and Sundays as well. Besides emptying refuse cans into the packer trucks, the crew also has a standing assignment to pick up litter as needed, in picnic areas, on ballfields and open lawns, and along roadsides. After large public events, litter pick-up efforts are supplemented with workers from the Sheriff's Labor Assistance Program.</p>
<p>Rest/Service Area Trash/Recycling Collection: For Highway Agencies that own or operate rest/service areas, describe the program and schedule for regular collection of trash from litter and recycling receptacles at those locations.</p>
<p>N/A</p>
<p>Records: Indicate the location of records, including the dates and amount of materials collected from roadside clean-ups.</p>
<p>Records are kept at the Springfield Recycling Center.</p>

SPPP Form 8 – Street Sweeping

<p>Street Locations: Attach a map or describe the location of all streets and paved parking lots that are owned or operated by the permittee.</p> <ul style="list-style-type: none">a. Indicate which segments of limited-access roads have storm drain inlets or discharge directly to surface water.b. Indicate which segments of non-limited-access roads have storm drain inlets or discharge directly to surface water.c. Indicate which segments of roads do not have storm drain inlets or do not discharge directly to surface water.
<p>See Attached map.</p> <ul style="list-style-type: none">a) No roadways have limited-accessb) All roadways have storms drainsc) N/A
<p>Schedule: Describe the sweeping schedule for all streets and paved parking lots that are owned or operated by the permittee.</p>
<p>The COUNTY OF UNION has been sweeping its roads which require monthly sweeping under the Highway Permit and will continue the monthly street sweeping program of those roads. See attached Sweeping Schedule.</p>
<p>Records: Indicate the location of records, including sweeping dates, areas swept, number of miles swept, and total amount of materials collected each month.</p>
<p>The records are kept at the Springfield Recycling Facility. The County Maintains a sweeping schedule which is included and attached.</p>

SPPP Form 9 – Herbicide Application and Roadside Vegetative Waste Management

Herbicide Application Management: Describe the program for ensuring the proper application of herbicides. Include details about how the permittee ensures that herbicides are not washed into waters of the State and how they prevent erosion caused by de-vegetation.

In accordance with the Highway Permit, the COUNTY OF UNION no longer applies herbicides outside the prescribed radius of two (2) feet around any structure for which it is impractical to mow around.

Roadside Vegetative Waste Management: Describe the program for ensuring that wood waste and yard trimmings generated by the permittee are not blown or deposited into stormwater facilities, e.g., storm drain inlets and basins.

Wood waste and yard trimmings include the following: tree parts, brush, wood chips, leaves, untreated/unpainted lumber, and grass clippings.

All wood debris, wood waste, trimmings generated by the County are moved to the Springfield Recycling Facility.

SPPP Form 10 – Maintenance Yards and Other Ancillary Operations

Complete a separate Form 10 for each yard/location. This includes but is not limited to all maintenance yards, impound yards, fueling locations, and yard trimming/wood waste management sites.

1. Address of maintenance yard or ancillary operation.
2325 South Avenue, Scotch Plains, NJ 07076
2. List all materials that are exposed to stormwater which could be a source of pollutants in a stormwater discharge. Indicate what type of container the materials are in, if they are covered, what they are placed upon, and if the area is graded or contained by berms. This includes, but is not limited to, raw materials, intermediate products, final products, waste materials, by-products, fuels, lubricants, solvents, and detergents. For example, brine, fertilizer, used oil, refuse containers, etc.
N/A
3. List all machinery that is exposed to stormwater which could be a source of pollutants in a stormwater discharge.
N/A
4. Describe the procedures for cleaning spills and disposing of clean-up waste. Indicate the location of materials used for cleaning, e.g., kitty litter, sawdust, etc.
Absorbent is used if/when any materials are spilled. The absorbent is then properly disposed of following the manufactures recommendations.
5. For each category below, describe the best management practices in place to ensure compliance with all requirements in the permit.
a. Fueling Operations
Fueling operations are handled at the various locations noted in the appendix.

b. Discharge of Stormwater from Secondary Containment
<p>Any discharge of Stormwater from Secondary Containment that may be encounter is disposed of by having it enter the local sanitary sewer or by having it removed by a 3rd party.</p>
c. Vehicle Maintenance
<p>Vehicle Maintenance is conducted in the covered portion of the DPW yard at 2327 South Avenue, Scotch Plains, NJ.</p>
d. On-Site Equipment and Vehicle Washing/Wastewater Containment See permit for certification and log forms for Underground Storage Tanks.
<p>A wash station is available for the washing of equipment and vehicles at 2327 South Avenue. An oil water separator is available on site.</p>

<p>e. Salt and De-icing Material Storage and Handling</p>
<p>Salt and De-icing material is stored in a covered dome facility at 2327 South Avenue, Scotch Plains, NJ.</p>
<p>f. Aggregate Material and Construction Debris Storage</p>
<p>No aggregate material is stored uncovered and all construction debris is hauled to the Houdaille Quarry and placed in containers.</p>
<p>g. Street Sweepings, Catch Basin Clean Out, and Other Material Storage</p>
<p>All street sweepings, catch basin clean out material is disposed of by a third part entity.</p>

h. Yard Trimmings and Wood Waste Management

All yard trimmings and woody waste is hauled to the Class C facility at the Houdaille Quarry.

Records: Indicate the location of inspection logs and tracking forms associated with this maintenance yard or ancillary operation, including documentation of conditions requiring attention and remedial actions that have been taken or planned. Documentation should include the date and time of inspection, the name of the person conducting the inspection, and relevant findings.

All records are kept at the Houdaille Quarry.

SPPP Form 11 – Storm Drain Inlets

Storm drain inlets are the point of entry into the storm drain system.

<p>Inspections: Describe the program and frequency of inspections, cleaning, and maintenance of storm drain inlets that are owned or operated by the permittee.</p>
<p>Storms drains are inspected at a minimum of once per year following the posted schedule which is attached and available.</p>
<p>Design and Retrofitting: Describe how the permittee ensures that the current design standards for storm drain inlets (specified in permit Attachment C) are incorporated in development projects. Also describe how the permittee ensures that retrofitting of storm drain inlets is completed when required.</p>
<p>The county ensures all retrofitting is done during the annual re-paving program.</p>
<p>Labeling: Describe the inspection and label maintenance plan on storm drain inlets that do not have permanent wording cast into the design.</p>
<p>The County has converted the majority of the storm drains to meet the phase 2 requirements. Any additional inlets that are founding during the repaving program are included in the project.</p>
<p>Records: Indicate the location of records that include storm drain inlet locations, inspection dates, observations, and maintenance/repairs performed, if applicable.</p>
<p>The County uses the basin cleaning schedule for the annual inspection and cleaning. Any necessary repairs are completed immediately by the County DPW team.</p>

SPPP Form 12 – Catch Basins

Catch basins are the cistern, vault, chamber or well that is usually built along a street as part of the storm sewer system to capture sediment, debris and pollutants.

Inspections: Describe the program for inspections of catch basins that are owned or operated by the permittee.

The basin are inspected and cleaned as described above.

Cleaning and Maintenance: Describe when a catch basin must be cleaned. The program must include procedures for cleaning, and shall be implemented as frequently as necessary to ensure, at a minimum, that sediment, trash, or other debris is removed as necessary to control it from entering the waters of the State, to eliminate recurring problems and maintain proper function.

A Catch basin must be cleaned when the following is observed:

- Debris, including leaves, brush and garbage are covering the grate.
- Water appears to be flowing slowly into the grate.
- The basin grate does not appear to be accepting water flow.
- When water is observed in the basin during dry weather.
- When water is observed moving slowly within the catch basin.
- When debris is observed within the catch basin itself.
-

Records: Indicate the location of records that include catch basin locations, inspection dates, observations, amount of materials collected in wet tons and maintenance/repairs performed, if applicable.

A record of the catch basin debris is kept at the Houdaille Quarry.

SPPP Form 13 – Employee Training

Employee Training: Stormwater Program Coordinator (SPC) must ensure appropriate staff receive training on topics in the chart below.		
Topic	Frequency	Office/Entity Responsible for Training
1. Maintenance Yard/Ancillary Operations	Once per year	County Engineer / Outside Consultant
2. Stormwater Facility Maintenance	Once per year	County Engineer / Outside Consultant
3. SPPP Training & Recordkeeping	Once per year	County Engineer / Outside Consultant
4. Street Sweeping	Once per year	County Engineer / Outside Consultant
5. Illicit Connections & Outfall Mapping	Once per year	County Engineer / Outside Consultant
6. Outfall Stream Scouring	Once per year	County Engineer / Outside Consultant
7. Waste Disposal Education	Once per year	County Engineer / Outside Consultant
8. Regulatory Mechanisms	Once per year	County Engineer / Outside Consultant
9. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment	Once per year	County Engineer / Outside Consultant
Records: Indicate the location of associated training sign in sheets, dates, and agendas or description for each topic for employee training.		
The sign in sheets are available through the County Engineer and the Training Coordinator located at 2325 South Avenue, Scotch Plains, NJ.		
Stormwater Management Reviewer Training: Indicate the names of all individuals who review the stormwater management design for development and redevelopment projects on behalf of the permittee. Indicate the dates on which these individuals attended the required NJDEP training course.		
Ricardo Matias, County Engineer – May 2018		

SPPP Form 14 – Mapping Outfall Pipes and Stormwater Facilities

Visit https://www.nj.gov/dep/dwq/msrp_map_aid.htm for the NJ DEP free mapping application. Outfall pipe maps and stormwater facilities maps may be combined. Updates to these maps shall be submitted annually to include new or newly identified outfall pipes and stormwater facilities.

Mapping Outfall Pipes: Attach an image or provide a link to a map of the outfall pipes owned or operated by the permittee, showing the location of the end of all MS4 outfall pipes (in tidal and non-tidal receiving waters) owned or operated by the permittee which discharge to a surface water body. Include the location and name of all surface water bodies receiving discharges from those outfall pipes.

Map is attached.

Mapping Stormwater Facilities: Attach an image or provide a link to a map of the stormwater facilities owned or operated by the permittee. Include the property boundaries of the Highway Agency maintenance yards, ancillary operations, rest areas, and service areas as well as an annotated map of roadways and thoroughfares owned or operated by the permittee. The map shall include the location and type of each stormwater facility, e.g., outfalls, inlets (constructed after Jan 1, 2020), basins, subsurface infiltration/detention systems, MTDs, green infrastructure, etc.

Map of DPW service yard is attached.

SPPP Form 15 – Outfall Pipe Inspections

Inspection Schedule: Describe the frequency and the program in place for inspecting outfall pipes owned or operated by the permittee.

The COUNTY OF UNION is developing and will implement a stormwater outfall pipe stream scouring detection, remediation and maintenance program schedule to detect and control localized stream and bank scouring in the vicinity of the highway system outfall pipes operated by the County. The initial steps of this effort have been coordinated and completed with the mapping and inspections of outfall pipes. Outfall pipes found to have scouring will be prioritized in the order in which they will need to be repaired. To help in prioritizing the outfall pipes, the scouring found at each outfall site will be photographed. A schedule will be established for repairs, beginning with the outfall pipes most in need of remediation or those with easy access. In addition, repairs that do not need any NJDEP permits or other local, State or Federal permits may be done first. All repairs will be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey. Currently the outfalls are inspected by the Bureau of Mosquito Control and addressed immediately by that staff.

Stream Scouring: Describe the program in place to detect, investigate and control localized stream scouring from stormwater outfall pipes.

As the outfalls are inspected per the above, scouring will also be investigated. Currently outfalls are inspected by the Bureau of Mosquito Control and are remedied during the inspection by the team. The County is working to implement a tracking system for this work.

Illicit Discharges: Describe the program in place for conducting visual dry weather inspections of outfall pipes that are owned or operated by the permittee.

As the outfalls are inspected per the above, dry weather flow will be inspected.

Records: Indicate the location of all records related to outfall pipe inspection, including the location, inspection date, inspector name, findings, preventative and corrective maintenance performed.

If scouring is observed, records of stream scouring must include the contributing source(s) of stormwater, recommended corrective action, and a prioritized list and schedule to remediate scouring cases.

If illicit discharge is observed, record results of illicit discharge investigations and actions taken using NJDEP's form at

https://www.nj.gov/dep/dwq/public_complex/pdf/PC_Illicit%20Connection%20Inspection%20Report%20Formpdf.pdf.

Illicit Connection Inspection Report Forms shall be submitted to the Department as an attachment to the Annual Report and Certification.

2325 South Avenue, Scotch Plains, NJ

SPPP Form 16 – Stormwater Facilities Inspection and Maintenance

Inspections: Describe the program in place to inspect, clean, and maintain the stormwater facilities that are owned or operated by the permittee.

The program includes the following:

- Each location where stormwater facilities are located has a dedicated maintenance team.
- Each maintenance team is responsible for stormwater maintenance on their respective site.
- At a minimum of once per year the stormwater facility is inspected and if necessary cleaned.
- Should the inspection demonstrate the need for maintenance, a worked order is input into the County Work Order system.

Records: Indicate the location of records related to stormwater facilities that are owned or operated by the permittee. Records must include the type of stormwater facility, location, inspection date, inspector name, findings, preventative and corrective maintenance performed.

Also indicate the location of maintenance plans related to maintenance of stormwater facilities that are owned or operated by the permittee. NJDEP provides materials to assist with this requirement at https://www.nj.gov/dep/stormwater/maintenance_guidance.htm.

As maintenance is required work orders are placed into the work order system.

SPPP Form 17 – Total Maximum Daily Load (TMDL) Information

Identification: List the names of the adopted TMDLs, parameters addressed, and the affected water bodies associated with any segment of surface water wholly or partially within or bordering all maintenance yards, rest areas, service area properties, and new major development projects as defined by the permittee's stormwater program.

Refer to the list of TMDL reports provided at <http://www.nj.gov/dep/wms/bears/tmdls.html>. Utilize the TMDL look-up tool at <https://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm> to identify impaired water bodies at locations described above.

See Appendix K

Strategies: Describe how the permittee uses TMDL information to prioritize stormwater facilities maintenance projects and to address specific sources of stormwater pollutants. For guidance on TMDLs, visit <https://www.nj.gov/dep/dwq/pdf/10-21-16-tmdl-tool-box.pdf>.

See Appendix K

SPPP Form 18 – Additional Measures and Optional Measures

Additional Measures: Describe any Best Management Practice(s) and the related measurable goal or numeric effluent limitations that are expressly required by the Department to be included in the permittee’s stormwater program by a TMDL.

See Attached on Good Housekeeping.

Optional Measures: Describe any Best Management Practice(s) the permittee has developed that extend beyond the requirements of the permit that prevents or reduces water pollution.

See Attached on Good Housekeeping.

SPPP Form 19 – Shared or Contracted Services

Arrangements: List the permit conditions that are satisfied through a shared or contracted service where an entity other than the permittee is implementing BMP(s) or control measure(s) on behalf of the permittee. Include the name of the responsible entity and describe the arrangements in place.

There is a shared service with several municipalities where the County provides Salt during snow operations:

Berkeley Heights

Garwood

Linden

Springfield

Records: The permittee is responsible for maintaining the appropriate documentation related to permit conditions, including those satisfied through shared services, in the SPPP and on the Annual Report and Certification. Indicate the physical location of the written agreements and records.

The County DPW maintains records which indicate the amount of salt provided to the municipalities noted above.

APPENDIX A

PERMIT



State of New Jersey

PHILIP D. MURPHY

Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Division of Watershed Protection and Restoration
Bureau of NJPDES Stormwater Permitting
P.O. Box 420 – 501 E. State St., 1st Flr
Trenton, NJ 08625-0420
Tel: (609) 633-7021 / Mail Code - 501-02A

SHAWN M. LATOURETTE

Commissioner

TAHESHA L. WAY

Lt. Governor

December 18, 2024

SENT VIA EMAIL to: Ricardo.Matias@ucnj.org

Ricardo Matias
Union County
2325 South Avenue
Scotch Plains Township, NJ 07076

Re: Stormwater Discharge General Permit Authorization Renewal
Category: R12 - MS4 - Highway Agency Stormwater (GP)
NJPDES: NJG0153320 / PI ID #: 222925
Union County
Scotch Plains Township, Union County

Dear Stormwater Program Coordinator:

Enclosed is New Jersey Pollutant Discharge Elimination System (NJPDES) Authorization to Discharge Renewal No. NJG0153320 (Category R12 - MS4 - Highway Agency Stormwater (GP)) issued under the authority of Stormwater NJPDES Master General Permit No. NJ0141887 (Highway Agency Master GP).

The Highway Agency Master GP and associated documents are posted at <https://www.nj.gov/dep/dwq/highway.htm>, which includes a Response to Comments document that includes a summary of the significant and relevant comments received during the public comment period, the Department's responses, and an explanation of any changes from the draft action.

If you have any questions or comments regarding the above referenced action, please contact Gabryella Pulsinelli by telephone at 609-633-7021.

Sincerely,

Gabriel Mahon, Chief
Bureau of NJPDES Stormwater Permitting

C: Water Compliance and Enforcement Regional Office



Division of Watershed Protection and Restoration
Bureau of NJPDES Stormwater Permitting
P.O. Box 420 – 501 E. State St., 1st Flr
Trenton, NJ 08625-0420
Tel: (609) 633-7021 / Mail Code - 501-02A

**AUTHORIZATION TO DISCHARGE
R12 - MS4 - Highway Agency Stormwater (GP)**

Facility Name: Union County

Permit Number: NJG0153320

Program Interest No.: 222925

Facility Address:

2325 South Avenue
Scotch Plains, NJ 07076

Type of Activity: Stormwater Discharge General Permit Authorization Renewal

Owner:

Union County
2325 South Avenue
Scotch Plains, NJ 07076

Operating Entity:

Union County
2325 South Avenue
Scotch Plains, NJ 07076

Issuance Date:

12/18/2024

Effective Date:

01/01/2025

Expiration Date:

12/31/2029

Your Request for Authorization under NJPDES General Permit No. NJ0141887 has been approved by the New Jersey Department of Environmental Protection.

Date: 12/18/2024

Gabriel Mahon, Chief
Bureau of NJPDES Stormwater Permitting
Division of Watershed Protection and Restoration
New Jersey Department of Environmental Protection

PART I GENERAL REQUIREMENTS: NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

- a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.
- b. General Conditions
 - Penalties for Violations N.J.A.C. 7:14-8.1 et seq.
 - Incorporation by Reference N.J.A.C. 7:14A-2.3
 - Toxic Pollutants N.J.A.C. 7:14A-6.2(a)4i
 - Duty to Comply N.J.A.C. 7:14A-6.2(a)1 & 4
 - Duty to Mitigate N.J.A.C. 7:14A-6.2(a)5 & 11
 - Inspection and Entry N.J.A.C. 7:14A-2.11(e)
 - Enforcement Action N.J.A.C. 7:14A-2.9
 - Duty to Reapply N.J.A.C. 7:14A-4.2(e)3
 - Signatory Requirements for Applications and Reports N.J.A.C. 7:14A-4.9
 - Effect of Permit/Other Laws N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
 - Severability N.J.A.C. 7:14A-2.2
 - Administrative Continuation of Permits N.J.A.C. 7:14A-2.8
 - Permit Actions N.J.A.C. 7:14A-2.7(c)
 - Reopener Clause N.J.A.C. 7:14A-6.2(a)10
 - Permit Duration and Renewal N.J.A.C. 7:14A-2.7(a) & (b)
 - Consolidation of Permit Process N.J.A.C. 7:14A-15.5
 - Confidentiality N.J.A.C. 7:14A-18.2 & 2.11(g)
 - Fee Schedule N.J.A.C. 7:14A-3.1
 - Treatment Works Approval N.J.A.C. 7:14A-22 & 23
- c. Operation And Maintenance
 - Need to Halt or Reduce not a Defense N.J.A.C. 7:14A-2.9(b)
 - Proper Operation and Maintenance N.J.A.C. 7:14A-6.12
- d. Monitoring And Records
 - Monitoring N.J.A.C. 7:14A-6.5
 - Recordkeeping N.J.A.C. 7:14A-6.6
 - Signatory Requirements for Monitoring Reports N.J.A.C. 7:14A-6.9
- e. Reporting Requirements
 - Planned Changes N.J.A.C. 7:14A-6.7
 - Reporting of Monitoring Results N.J.A.C. 7:14A-6.8
 - Noncompliance Reporting
 - Hotline/Two Hour & Twenty-four Hour Reporting N.J.A.C. 7:14A-6.10 & 6.8(h)
 - Written Reporting N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h)
 - Duty to Provide Information N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
 - Schedules of Compliance N.J.A.C. 7:14A-6.4
 - Transfer N.J.A.C. 7:14A-6.2(a)8 & 16.2

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

1. Additional Requirements

- a. In addition to the requirements in Part I of this permit, the permittee is required to comply with the following requirements which are in effect as of the effective date of the final permit.
 - i. The Stormwater Management rules at N.J.A.C. 7:8.
 - ii. Conditions for General Permits at N.J.A.C. 7:14A-6.13.
 - iii. Additional Conditions applicable to UIC permits at N.J.A.C. 7:14A-8.9, UIC Corrective Action (N.J.A.C. 7:14A-8.11) and UIC Operating Criteria (N.J.A.C. 7:14A-8.16).
 - iv. Conditions for reopening and modification of MS4 permits at N.J.A.C. 7:14A-16.4(b) and N.J.A.C. 7:14A-25.7(b).
 - v. Requirements for Discharges to Ground Water at N.J.A.C. 7:14A-7.
 - vi. National Pollutant Discharge Elimination System (NPDES) Electronic Reporting rule at 40 CFR Part 127.

B. General Conditions

1. Notification of Non-Compliance

- a. The permittee shall notify the Department of any non-compliance when required by N.J.A.C. 7:14A-6.10 by contacting the DEP Hotline at 1-877-WARN-DEP.

2. Discharge of Pollutants

- a. For discharges authorized by this permit, the permittee is exempt from N.J.A.C. 7:14A-6.2(a)2. This exemption means that the discharge of any pollutant not specifically regulated in this NJPDES permit or listed and quantified in the Request for Authorization (RFA) shall not constitute a violation of the permit.

3. Standard Reporting Requirements – Electronic Reporting of NJPDES Information

- a. The following documents and reports shall be electronically submitted via the Department's designated electronic submission services:
 - i. General permit authorization requests, i.e., RFAs (https://dep.nj.gov/dwq/permitting_information/permits_application_forms_and_checklists/#additional_forms);
 - ii. General permit termination/revocation requests (https://dep.nj.gov/dwq/permitting_information/permits_application_forms_and_checklists/#additional_forms); and

iii. Municipal separate storm sewer system (MS4) annual reports (see Part IV.K.).

4. Other Regulatory Requirements

- a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed, or revoked by the Department.
- b. The issuance of this permit shall not be considered as a waiver of any applicable federal, State, or local rules, regulations, and regulatory mechanisms.
- c. In accordance with N.J.A.C. 7:14A-6.2(a)7, this permit does not authorize any infringement of State or local law or regulations, including, but not limited to, N.J.A.C. 7:50 (the Pinelands rules), N.J.A.C. 7:1-E (Discharges of Petroleum and other Hazardous Substances), regulations concerning threatened and endangered species and their designated critical habitat, and other Department rules. No discharge of hazardous substances (as defined in N.J.A.C. 7:1E-1.6) resulting from an onsite spill shall be deemed to be “pursuant to and in compliance with this permit” within the meaning of the Spill Compensation and Control Act at N.J.S.A. 58:10-23.11c.
- d. While the permittee is required to comply with applicable operation and maintenance requirements of N.J.A.C. 7:14A-6.12(a), the permittee is exempt from the operations and maintenance manual requirements of N.J.A.C. 7:14A-6.12(c). This exemption applies only to discharges authorized under this permit and does not alter the operation and maintenance requirements for stormwater facilities specified in this permit or N.J.A.C. 7:8.

C. Eligibility

1. Permit Scope

- a. This general permit applies to all stormwater discharges from small MS4s at highways or other thoroughfares that are owned or operated by a “Highway Agency” under N.J.A.C. 7:14A-25.2(a)3.
- b. For purposes of this permit and as described under N.J.A.C. 7:14A-25.2(a)3, a “Highway Agency” is a county, state, interstate, or federal agency that operates a small MS4 at a “highway or other thoroughfare” (including a maintenance or service facility or rest area for such a thoroughfare). A “highway or other thoroughfare” does not include:
 - i. Any thoroughfare confined to the grounds of a single building, or of two or more buildings that are not a “public complex” as described in N.J.A.C. 7:14-A-25.2(a)2 (unless that building(s) is a maintenance or service facility for a highway or other thoroughfare not confined to such grounds);
 - ii. Any thoroughfare confined to the grounds of a “public complex” (each such thoroughfare is instead considered part of the “public complex”); or
 - iii. Any thoroughfare (other than the Palisades Interstate Parkway) confined to an officially designated park, forest, recreational area, natural area, wildlife management area, or area set aside for water supply protection.
- c. The short title of this permit is the Highway Agency Permit.

2. Authorized Discharges

- a. Authorized Stormwater Discharges – Except as provided in Part II.C.3. below, this permit authorizes all new and existing stormwater discharges to surface water and groundwater from:
 - i. Small MS4s (as defined at N.J.A.C. 7:14A-1.2) that are owned or operated by a “Highway Agency”.

- ii. Maintenance yards and other ancillary operations, excluding wood waste recycling and wood composting operations, that are owned or operated by a “Highway Agency” under 1.a. above.
- b. Authorized Non-Stormwater Discharges – Except as identified in Part II.C.3.e. below, the following new and existing non-stormwater discharges from small MS4s owned or operated by the permittee and from Highway Agency maintenance yards and other ancillary operations are authorized under this permit:
- i. Potable water line flushing and discharges from potable water sources, excluding the discharge of filter backwash and first flush water from potable well development/redevelopment activities utilizing chemicals in accordance with N.J.A.C. 7:9D. The volume of first flush water, which is a minimum of three times the volume of the well water column, shall be handled and disposed of properly;
 - ii. Uncontaminated ground water, e.g., infiltration, crawl space or basement sump pumps, foundation or footing drains, rising ground waters;
 - iii. Air conditioning condensate (excluding contact and non-contact cooling water and industrial refrigerant condensate);
 - iv. Irrigation water (including landscape and lawn watering runoff);
 - v. Flows from springs, riparian habitats, wetlands, water reservoir discharges, and diverted stream flows;
 - vi. Residential car washing water and dechlorinated swimming pool discharges from single family residential homes;
 - vii. Sidewalk, driveway and street wash water;
 - viii. Flows from firefighting activities;
 - ix. Flows from clean water rinsing of beach maintenance equipment immediately following use and only if the equipment is used for its intended purpose;
 - x. Flows from clean water rinsing of equipment and vehicles used in the application of salt and de-icing/anti-icing materials. Prior to rinsing, all equipment shall be cleaned using dry methods such as shoveling and sweeping. Recovered materials are to be returned to storage or properly discarded; and
 - xi. Rinsing of equipment in Part II.C.2.b.ix. and x., above is limited to exterior, undercarriage, and exposed parts and does not apply to engines or other enclosed machinery.

3. Discharges Not Authorized

- a. This permit does not authorize “stormwater discharge associated with industrial activity” as defined in N.J.A.C. 7:14A-1.2 except as otherwise specifically provided in this permit:
 - i. Types of facilities that the permittee might operate and that are considered to be engaging in “industrial activity” include but are not limited to certain:
 - 1) landfills,
 - 2) transportation facilities (including certain local passenger transit and air transportation facilities),
 - 3) facilities that manage domestic sewage or sewage sludge,
 - 4) steam electric power generating facilities, and
 - 5) facilities that process and/or compost recyclable materials as defined in N.J.A.C. 7:26A (Recycling Rules) including wood waste recycling and leaf composting facilities; and

- ii. Any permittee that has stormwater discharges associated with industrial activities shall submit a separate RFA or individual permit application for that discharge.
- b. This permit does not authorize “stormwater discharges associated with construction activity” as described in N.J.A.C. 7:14A-24.10(a) which is defined as the discharge to surface water of stormwater from construction activity that disturbs at least one acre:
 - i. Any permittee that operates a construction site with such a discharge shall submit a separate RFA under NJPDES Permit No. NJ0088323 (General Stormwater Permit Construction Activity), or an application for an individual permit for that discharge. An RFA submitted for this permit does not qualify as an RFA for such a discharge. See <https://dep.nj.gov/njpdcs-stormwater/industrial-stormwater-program/> for information regarding these two types of permits.
- c. This permit does not authorize any stormwater discharge that is authorized under another NJPDES permit. The permittee does not have to implement measures contained in this NJPDES permit for stormwater discharges at Highway Agency properties owned or operated by that permittee that are regulated under a separate NJPDES stormwater permit authorizing those discharges.
- d. This permit does not authorize stormwater discharges from projects or activities that conflict with an adopted Areawide Water Quality Management Plan.
- e. This permit does not authorize stormwater discharges listed in Part II.C.2.b., above, that are determined to be a significant contributor of pollutants to or from the MS4, which must be addressed as an illicit connection as specified in Part IV.F.2.b. and Part IV.F.3.d. of this permit, or as an improper disposal of waste.

4. Exclusions

- a. Any owner, operator, and/or discharger authorized by this general permit may request to be excluded from the coverage of the general NJPDES permit by applying for an individual permit. The owner, operator, and/or discharger shall submit an application in accordance with N.J.A.C. 7:14A-4, with reasons supporting the request, to the NJDEP. The request shall be processed under N.J.A.C. 7:14A-15, 16 and 17. The request shall be granted by the issuance of an individual permit if the reasons cited by the owner, operator, and/or discharger are adequate to support the request.
- b. An owner, operator, and/or discharger excluded from this general NJPDES permit solely because of an existing individual permit may request that that individual permit be revoked or modified, as appropriate, and that the discharge be authorized by this general NJPDES permit. An authorization under this General Permit can only be issued on or after the revocation or modification of the individual permit.

D. Administrative Process

1. Automatic Renewal

- a. Existing authorizations shall be automatically renewed as provided by N.J.A.C. 7:14A-6.13(d)9 and 25.4(a)3 using the information provided in the permittee’s most recently submitted RFA.

2. Notification of Change in Ownership and/or Permittee/Operating Entity

- a. As set forth at N.J.A.C. 7:14A-16.2, prior to any change in ownership and/or the permittee/operating entity, the current permittee shall provide written notice to the Department at least thirty (30) days prior to the proposed transfer date.

- i. Written notice to the Department shall be in the form of a completed Application for Transfer of a NJPDES Permit form, which is available on the Department's website (See B.3. above).

3. Notification of Changes to the Facility/Permit Contacts

- a. The permittee shall notify the Department within 30 days of a change in contact information for any of the following persons associated with the facility/permit:
 - i. Permittee/Operating Entity Contact;
 - ii. Property Owner Contact;
 - iii. Facility Contact; or
 - iv. Fees/Billing Contact.
- b. Notification to the Department shall be in the form of a completed Contact Information Update form (i.e. NJPDES-2 form), which is available on the Department's website (See B.3. above).

4. Request for Authorization

- a. A single RFA is required for the entire eligible discharge from the small MS4 owned or operated by a Highway Agency. Multiple RFAs are not required for multiple operations (e.g., maintenance yards or other ancillary operations, garages, and/or offices owned or operated by the permittee on the property of the Highway Agency), however these operations shall be included in the RFA as applicable.
- b. An RFA under this general permit shall include: A completed Checklist and Request for MS4 Stormwater Permits and any other information as required by the Department.
- c. Upon receipt of an RFA the Department may, in accordance with N.J.A.C. 7:14A-6.13, do one of the following:
 - i. Issue notification of authorization under this permit;
 - ii. Deny authorization under this permit and require submittal of an application for an individual permit; or
 - iii. Deny authorization under this permit and require submittal of an RFA for another general permit.
- d. The Department may notify a person that the discharge is authorized by a general permit, even if the person has not submitted an RFA. A person so notified may nonetheless request an individual permit under C.4. above.

PART III

Recordkeeping and Reporting

The Highway Agency shall keep records necessary to document, in the Annual Report and Certification, the status of compliance with the conditions of this permit. The requirement to keep records and to submit an Annual Report and Certification is found at Part IV.J & K of this permit.

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Notes and Definitions

A. Footnotes

1. Acronyms

- a. Stormwater acronyms included in this permit are as follows:
 - i. "BMP" - Best Management Practice
 - ii. "CFR" - Code of Federal Regulations
 - iii. "EDPA" - Effective Date of Permit Authorization
 - iv. "EPA" - United States Environmental Protection Agency
 - v. "GIS" – Geographic Information System
 - vi. "MS4" - Municipal Separate Storm Sewer System
 - vii. "MSRP" - Municipal Stormwater Regulation Program
 - viii. "MTD" - Manufactured Treatment Device
 - ix. "MY" – Maintenance Yard
 - x. "N.J.A.C." - New Jersey Administrative Code
 - xi. "NJPDES" - New Jersey Pollutant Discharge Elimination System
 - xii. "N.J.S.A." - New Jersey Statutes Annotated
 - xiii. "RFA" - Request for Authorization
 - xiv. "SPC" – Stormwater Program Coordinator
 - xv. "SPPP" - Stormwater Pollution Prevention Plan
 - xvi. "TMDL" - Total Maximum Daily Load
 - xvii. "WIP" – Watershed Improvement Plan

2. Internal Cross References

- a. For the purposes of this permit:
 - i. References to Part IV Notes and Definitions are preceded with the words "Notes and Definitions", e.g., Notes and Definitions Part IV.A.1 refers to Acronyms; and

Notes and Definitions

- ii. References to Part IV of the Highway Agency Permit are not preceded by descriptive text, e.g., Part IV.A.1 refers to Stormwater Program Requirements.

B. Definitions

1. Definitions

- a. All words and terms used in this permit shall have meanings as defined in the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A), unless otherwise stated or unless the context clearly requires a different meaning.
- b. Definitions for terms A through O
 - i. "Anti-icing" means the proactive application of melting products to driving or walking surface before a storm. Anti-icing helps prevent snow and ice from bonding to the pavement, allowing workers to clear the surfaces more easily and creating safe winter conditions.
 - ii. "Catch Basin" means a cistern, vault, chamber, or well that is typically built along a street and below an inlet grate as part of the storm sewer system that is designed to capture and retain sediment, debris, and pollutants so those particles do not pass on to the stormwater sewer system.
 - iii. "Culvert" means a pipe or other man-made structure conveying a watercourse under a road, railroad, bridge, driveway, etc.
 - iv. "De-icing" means the reactive application of ice-control products to driving or walking surfaces to melt existing snow and ice.
 - v. "Effective Date of Permit Authorization" means the date the permittee's authorization to discharge under this permit becomes effective. This date may be found on the permittee's Authorization to Discharge page.
 - vi. "Green infrastructure" means green infrastructure as defined in N.J.A.C. 7:8.
 - vii. "Ground water discharge point" means the lowest invert elevation of any stormwater facility where stormwater discharges into the surficial ground water aquifer.
 - viii. "Hazard Tree" means a tree or limbs thereof that meet one or more of the criteria below. Trees that do not meet any of the criteria below and are proposed to be removed solely for development purposes are not hazard trees.
 - 1) Has an infectious disease or insect infestation;
 - 2) Is dead or dying;
 - 3) Obstructs the view of traffic signs or the free passage of pedestrians or vehicles where pruning attempts have not been effective;
 - 4) Is or has the potential to cause obvious damage to structures (such as building foundations, sidewalks, bridges, retaining walls, noise barriers, etc.); or
 - 5) Is determined to be a threat to public health, safety, and/or welfare by a certified arborist or Licensed Tree Expert.
 - ix. "HUC 14" or "hydrologic unit code 14" means an area within which water drains to a particular receiving surface water body, also known as a subwatershed, which is identified by a 14-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey. (N.J.A.C. 7:9B)

- x. "Illicit connection" means any physical or non-physical connection that discharges the following to a municipal separate storm sewer system (unless that discharge is authorized under a NJPDES permit other than the NJPDES permit for discharges from that system):
 - 1) Domestic sewage;
 - 2) Non-contact cooling water, process wastewater, or other industrial waste (other than stormwater); or
 - 3) Any category of non-stormwater discharges that a permittee for the MS4 identifies as a source or significant contributor of pollutants pursuant to 40 C.F.R. 122.26(d)(2)(iv)(B)(1) or 122.34(b)(3)(iii).
 - xi. "Limited-access highway" means every highway, street, or roadway in respect to which owners or occupants of abutting lands and other persons have no legal right of access to or from the same except at such points only and in such manner as may be determined by the public authority having jurisdiction over such highway, street, or roadway, and includes any highway designated as a "freeway" or "parkway" by authority of law.
 - xii. "Maintenance plan" means a maintenance plan pursuant to N.J.A.C. 7:8-5.2(b) and 5.8 prepared by the design engineer for the stormwater management measures incorporated into the design of a major development. Alternately, a maintenance plan may be developed and/or modified after the stormwater facility has been constructed based on operational experience.
 - xiii. "Maintenance yard and ancillary operation" means a maintenance and storage yard owned or operated by the permittee on the property of the Highway Agency, including but not limited to, fleet or maintenance shop with outdoor storage areas, impound yard, permanent and mobile fueling location, salt/sand storage location, and snow disposal area.
 - xiv. "Major Development" means a major development as defined in N.J.A.C. 7:8.
 - xv. "Manufactured treatment device" means a pre-fabricated stormwater treatment structure utilizing settling, filtration, absorptive/adsorptive materials, vortex separation, vegetative components, and/or other appropriate technology to remove pollutants from stormwater runoff.
 - xvi. "MS4 interconnection" means any point at which one MS4 system is connected to a second MS4 system in such a way that it allows for direct discharges into the second system."
 - xvii. "Municipal separate storm sewer" (or MS4 conveyance) means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) as defined in more detail at N.J.A.C. 7:14A-1.2.
 - xviii. "Outfall" means any point source which discharges directly to waters of the United States and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other waters of the United States and are used to convey waters of the United States.
- c. Definitions for terms P through Z

- i. "Permanent structure" means a permanent building or permanent structure that is anchored to a permanent foundation with an impermeable floor, and that is completely roofed and walled (new structures require a door or other means of preventing wind driven rainfall from coming in contact with stored de-icing/anti-icing material). A fabric frame structure is a permanent structure if it meets the following specifications:
 - 1) Concrete blocks, jersey barriers or other similar material shall be placed around the interior of the structure to protect the side walls during loading and unloading of de-icing/anti-icing materials;
 - 2) The design shall prevent stormwater run-on and run-through, and the fabric cannot leak;
 - 3) The structure shall be erected on an impermeable slab;
 - 4) The structure cannot be open sided; and
 - 5) The structure shall have a roll up door or other means of preventing wind driven rainfall from coming in contact with stored de-icing/anti-icing material.
- ii. "Point source" means any discernible, confined, and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft, from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.
- iii. "Regulatory mechanism" means an ordinance, permit, standard, contract language, or any other procedure, that will be enforced by the permittee.
- iv. "Rest Area" means a roadside facility that provides parking at a minimum, including service areas, scenic overlooks, weigh stations, truck park/sleep areas, and emergency pull-off areas.
- v. "Small MS4" means all municipal separate storm sewers (other than "large" or "medium" municipal separate storm sewer systems as defined in N.J.A.C. 7:14A-1.2) that are:
 - 1) Owned or operated by municipalities described under N.J.A.C. 7:14A- 25.1(b);
 - 2) Owned or operated by county, State, interstate, or Federal agencies, and located at Public Complexes as described under N.J.A.C. 7:14A-25.2(a)2;
 - 3) Owned or operated by county, State, interstate, or Federal agencies, and located at highways and other thoroughfares as described under N.J.A.C. 7:14A-25.2(a)3; or
 - 4) Owned or operated by county, State, interstate, Federal, or other agencies, and receive special designation under N.J.A.C. 7:14A-25.2(a)4.
- vi. "Solid and floatable materials" means sediment, debris, trash, and other floating, suspended, or settleable solids.
- vii. "Storm drain inlet" means the point of entry into the storm sewer system.
- viii. "Stormwater" means water resulting from precipitation (including rain and snow) that runs off the land's surface, is transmitted to the subsurface, is captured by separate storm sewers or other sewerage or drainage facilities or is conveyed by snow removal equipment.
- ix. "Stormwater facility" means stormwater infrastructure including, but not limited to, catch basins, infiltration basins, detention basins, green infrastructure (GI), filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, Manufactured Treatment Devices (MTDs), and stormwater conveyances.
- x. "Stormwater management basin" means a stormwater management basin as defined in N.J.A.C. 7:8.

- xi. "Stormwater management measure" means a stormwater management measure as defined in N.J.A.C. 7:8.
- xii. "Stormwater runoff" means water flow on the surface of the ground or in storm sewers, resulting from precipitation.
- xiii. "Stream scouring" means the erosion or removal of streambed or bank material by the physical action of flowing water and the sediment that it carries.
- xiv. "Street tree" means a tree planted in the sidewalk, planting strip, and/or in the permittee's right-of-way adjacent to (or specified distance from) the portion of the street reserved for vehicular traffic. This also includes trees planted in planting strips within the permittee's right-of-way, i.e., islands, medians, pedestrian refuges. Trees within the permittee's right-of-way of limited access highways are not considered street trees.
- xv. "Subsurface infiltration/detention system" means a vault, perforated pipe, and/or stone bed that is located entirely below the ground surface and that temporarily stores and attenuates stormwater runoff.
- xvi. "Total maximum daily load" or "TMDL" means a total maximum daily load formally established pursuant to Section 7 of the Water Quality Planning Act (N.J.S.A. 58:11A-7) and Section 303(d) of the Clean Water Act, 33 U.S.C. §§12512 et seq. A TMDL is the sum of individual wasteload allocations for point sources, load allocations for nonpoint sources of pollution, other sources such as tributaries or adjacent segments, and allocations to a reserve or margin of safety for an individual pollutant.
- xvii. "Tree" means a woody perennial plant, typically having a single stem or trunk growing to a considerable height and bearing lateral branches at some distance from the ground.
- xviii. "Waters of the State" means the ocean and its estuaries, all springs, streams and bodies of surface or ground water, whether natural or artificial, within the boundaries of the State of New Jersey or subject to its jurisdiction" (see N.J.A.C. 7:9B-1.4).
- xix. "Wood waste" means source separated whole trees, tree trunks, tree parts, tree stumps, brush, and lumber (non-chemically treated, glued, dyed, or painted).
- xx. "Yard trimmings" (N.J.A.C. 7:26A-1.3) means grass clippings, leaves, wood chips from tree parts, and brush.

MS4 - Highway Agency Stormwater (GP)

A. Minimum Standards for Stormwater Management Program

1. Stormwater Program Requirements

- a. The permittee shall develop, update, implement, and enforce an MS4 stormwater program. A primary objective of the MS4 stormwater program shall be to implement best management practices and other measures that are designed to reduce the discharge of pollutants from the permittee's MS4, maintenance yards and other ancillary operations, to the maximum extent practicable pursuant to N.J.A.C. 7:14A-25.6(a)1 and 40 CFR 122.34(a), to protect water quality, and to satisfy the applicable water quality requirements of the Clean Water Act.
- b. The permittee shall modify and update its MS4 stormwater program (including applicable plans and appropriate regulatory mechanisms) to conform with applicable new legislation or new or amended regulations.
 - i. Such modification and update shall be completed and effective within 12 months of written notification by the Department of the need for modification and update.
- c. The permittee shall develop, update, implement, and maintain a written Stormwater Pollution Prevention Plan (SPPP) that documents the permittee's MS4 stormwater program and describes the measures necessary for compliance with all permit conditions.
- d. A principal executive officer or a ranking elected official shall designate a duly authorized Stormwater Program Coordinator (SPC) who has the knowledge to manage the implementation and compliance of the permittee's MS4 stormwater program and shall be responsible for the following:
 - i. Coordinating the permittee's implementation of its MS4 stormwater program, permit conditions, and SPPP;
 - ii. Signing and dating the SPPP; and
 - iii. The completion and submittal of the Municipal Stormwater Regulation Program (MSRP) Annual Report, consistent with Part IV.K.
- e. The permittee shall notify the Department of any SPC assignment changes and designate a new SPC within thirty (30) days of the change through the completion of the Stormwater Program Coordinator Information Update Sheet, which can be found on the Department's website (See Part II.B.3. above).

2. Stormwater Pollution Prevention Plan (SPPP) Requirements

- a. The permittee shall include in the SPPP, at a minimum, information that:
 - i. Identifies the person designated as the SPC per Part IV.A.1.d. above, and the members of the stormwater team, which is comprised of the people responsible for implementing or coordinating the stormwater program activities;
 - ii. Describes the measures the permittee has established to ensure compliance with all components of this permit with details regarding how each element of the stormwater program is implemented and tailored specifically to their Highway Agency;
 - iii. Identifies each individual maintenance yard and ancillary operation on a separate form within the SPPP that includes the site-specific details of each yard or ancillary operation;

MS4 - Highway Agency Stormwater (GP)

- iv. Documents all shared or contracted services as allowed under Part IV.A.3., below;
 - v. Notes the location of all records/documentation required by this permit; and
 - vi. Reflects the measurable goals, implementation schedules, recordkeeping, and other requirements of this permit.
- b. The permittee's SPPP shall be submitted electronically to the Department via the NJDEP Online Stormwater Document Submittal Service on or before EDPA + 6 months.
- c. The SPPP shall be posted on the permittee's dedicated stormwater webpage or other approved webpage (See Part IV.B.2.) on or before EDPA + 6 months.
- d. The permittee shall review the SPPP at least annually and update it as often as necessary to reflect changes related to the permittee's MS4 stormwater program. Any amendments to the SPPP:
- i. Shall continue to meet the requirements of this permit;
 - ii. Shall be incorporated into the SPPP;
 - iii. Shall be recorded on the SPPP revisions page;
 - iv. Shall be signed and dated by the SPC;
 - v. Shall be submitted electronically as in b. above to the Department within thirty (30) days of the amendments; and
 - vi. Shall be posted on the permittee's dedicated stormwater webpage or other approved webpage within thirty (30) days of the amendments.
- e. The permittee shall amend the SPPP to adequately address any deficiencies identified by the Department within thirty (30) days of notice, unless otherwise specified by the Department.

3. Implementation of SPPP Conditions Through Shared or Contracted Services

- a. The permittee may rely on another entity (e.g., governmental, stormwater utility, private, or nonprofit organization such as a watershed association) to satisfy one or more of the permit conditions, or component thereof, through the implementation of best management practices or control measures, provided that:
- i. The other entity implements best management practice(s), control measure(s), or component(s) thereof, which are at least as stringent and as frequent as the corresponding permit requirement;
 - ii. The other entity agrees in writing or is required by law to implement the measure(s) or component(s) thereof, in such a manner that complies with the permit on the permittee's behalf;
 - iii. The permittee specifies in its SPPP which permit conditions will be implemented by each other entity; and
 - iv. The permittee specifies in its SPPP the name of each other entity.
- b. If permit requirements are contracted to an outside entity to be completed in whole or in part, work shall be completed in a manner that is in compliance with this permit.
- c. The permittee is responsible for compliance with this permit if the other entity fails to implement the measure(s) or component(s) thereof.

B. Minimum Standards for Public Involvement and Participation Including Public Notice

1. Public Involvement and Participation Including Public Notice

- a. The permittee shall comply with applicable State and local public notice requirements when providing for public participation in the development and implementation of the MS4 stormwater program. Requirements include, but are not limited to:
 - i. The Open Public Meetings Act (“Sunshine Law,” N.J.S.A. 10:4-6 et seq.); and
 - ii. Statutory procedures for the enactment of ordinances (N.J.S.A. 40:49-2), including the stormwater control ordinance and other ordinances adopted to comply with Part IV of this permit.
- b. The permittee shall maintain records necessary to demonstrate compliance with the public participation requirements of Part IV.B.1.a. above.
- c. All permittees shall comply with this requirement on EDPA.

2. Dedicated Stormwater Webpage

- a. The permittee shall develop a dedicated stormwater webpage and make the following elements of its MS4 stormwater program available to the public by providing links to the latest version of the following:
 - i. Stormwater Pollution Prevention Plan (excluding inspection logs and other recordkeeping documents);
 - ii. Pet Waste Control Regulatory Mechanism;
 - iii. Wildlife Feeding Control Regulatory Mechanism;
 - iv. Litter Control Regulatory Mechanism;
 - v. Improper Disposal of Waste Regulatory Mechanism;
 - vi. MS4 Outfall Pipe Map;
 - vii. MS4 Infrastructure Map (due on or before EDPA + 36 months as per Part IV.G.); and
 - viii. Watershed Improvement Plan (due in accordance with the phases identified in Part IV.H.).
- b. If the permittee does not have a specific website for their Highway Agency, they shall request approval via email to stormwatermanager@dep.nj.gov to post their stormwater documents listed in a. above on an alternate website hosted by their county (for county-owned Highway Agencies), state agency (for state-owned Highway Agencies), or federal agency (for federally-owned Highway Agencies).
- c. All permittees shall comply with this requirement on or before EDPA + 6 months.

C. Minimum Standards for Local Public Education and Outreach

1. Local Public Education and Outreach

- a. Permittees shall implement a Public Education and Outreach Program that focuses on educational and pollution prevention activities about the impacts of stormwater discharges on surface water and ground water and involves the public in reducing pollutants in stormwater and mitigating flow. The permittee shall:
 - i. Annually conduct activities that total at least 7 points as set forth in Attachment A – Point System for Public Education and Outreach Activities;
 - ii. Include at least three different activities;
 - iii. Ensure that at least one of the activities involves educating businesses, which discharge to the permittee’s MS4, and the general public of hazards associated with illicit connections and improper disposal of waste;
 - iv. The permittee may conduct public education and outreach activities not included in Attachment A of the permit provided that those activities are submitted to the Department for review and approval prior to being conducted; and
 - v. Keep records necessary to demonstrate compliance, including date of activities and any other relevant documentation.
- b. All permittees shall comply with this requirement on EDPA.

D. Minimum Standards for Construction Site Stormwater Runoff

1. Construction Site Stormwater Runoff Requirements

- a. Construction site stormwater runoff activities are authorized under a separate NJPDES permit, which is typically the Construction Activity NJPDES Stormwater General Permit No. NJ0088323 pursuant to N.J.A.C. 7:14A-25.6(b)2, or an individual stormwater permit pursuant to N.J.A.C. 7:14A-24.7(a)2. (See Part II.C.3.b.)
- b. Pursuant to N.J.A.C. 7:14A-25.7(b), the permittee is not required to reference construction site stormwater runoff control in its SPPP.
- c. All permittees shall comply with this requirement on EDPA.

E. Minimum Standards for Post Construction Stormwater Management in Development and Redevelopment

1. Stormwater Management Program to Address Post Construction Stormwater Management in New Development and Redevelopment

- a. The permittee shall develop, update, implement, and enforce its stormwater management program to address post construction stormwater runoff in new development and redevelopment and to ensure compliance with the Stormwater Management rules at N.J.A.C. 7:8.
- b. The permittee shall ensure that its stormwater management program addresses stormwater runoff from “major development” as defined in the Stormwater Management rules at N.J.A.C. 7:8.
- c. The permittee shall ensure that the post construction stormwater management program complies with the applicable design, performance, and maintenance standards established under N.J.A.C. 7:8 for “major development”.

- d. The permittee shall meet the stormwater management requirements for a “major development” for any public roadway project that has determined a preferred alternative or reached an equivalent milestone as follows:
 - i. A “major development” that reached a preferred alternative or equivalent milestone prior to March 2, 2021, is subject to the requirements of N.J.A.C. 7:8 in effect on March 2, 2021; and
 - ii. A “major development” that reached a preferred alternative or equivalent milestone on or after March 2, 2021, is subject to the requirements of N.J.A.C. 7:8 in effect on the date the preferred alternative or equivalent milestone is reached.
 - iii. Should the permittee initiate a substantial change to a “major development” that had previously reached a preferred alternative or equivalent milestone, the “major development” shall instead be subject to the requirements of N.J.A.C. 7:8 in effect when the amended milestone is reached.
 - iv. Notwithstanding the requirements above, any public roadway project that has determined a preferred alternative or equivalent milestone by March 2, 2021, shall not be subject to N.J.A.C. 7:8-5.3(b), (c), or (d) provided that major development project appears on the list of projects provided to the Department pursuant to N.J.A.C. 7:8-5.3(k).
- e. The permittee shall review and analyze development plans for compliance with N.J.A.C. 7:8 even if a permit is required by the Department for the same or similar activity, e.g., a Land Use permit.
- f. The permittee shall ensure that “major development” projects are constructed in accordance with the approved development plans.
- g. The permittee shall ensure that the engineer that reviews stormwater management designs for development and redevelopment projects for compliance with N.J.A.C. 7:8 shall be independent from the design engineer.
- h. The permittee shall ensure that all review engineers are up to date with the Department’s Stormwater Management Design Review Course, as per Part IV.F.8.
- i. The permittee shall ensure that all review engineers are up to date with the Department’s Stormwater Management Rule Amendment Training if required, as per Part IV.F.9.
- j. The permittee shall include each approved major development on the Major Development Project List.
- k. The permittee shall submit the Major Development Project List to the Department annually with the MSRP Annual Report.
- l. The Stormwater Management rules (N.J.A.C. 7:8), independently and as implemented in this permit, apply to all areas of the Highway Agency.
- m. All permittees shall comply with this requirement on EDPA.

2. Variance From the Design and Performance Standards for Stormwater Management Measures

- a. The permittee may be granted a variance from the design and performance standards at N.J.A.C. 7:8-5.3 through 5.6 by the Department for aspects of a particular major development project provided requirements b. through f. below are completed.

- b. The permittee shall create a written report which demonstrates how the requirements of N.J.A.C. 7:8-4.6(a)1, 2, and 3 and the requirements of Part IV.E. are met. At a minimum, this demonstration shall include the following information in the written report:
 - i. An explanation as to why it is impracticable to accomplish the onsite stormwater management requirements of N.J.A.C. 7:8; and
 - ii. A demonstration of how the proposed offsite mitigation will ensure that the requirements of N.J.A.C. 7:8-5.3 through 5.6 are met.
 - iii. If the variance that resulted in the mitigation project being required is from the green infrastructure standards at N.J.A.C. 7:8-5.3, then, notwithstanding the requirement at N.J.A.C. 7:8-4.6(a)3.vi. regarding the use of green infrastructure BMPS in Table 5-1, the mitigation project may use green infrastructure BMPs listed in either Table 5-1 or Table 5-2 provided that the project is a public roadway project and all other requirements of Part IV.E.2. are met.
- c. The permittee shall create no adverse impacts to surrounding properties as a result of granting the variance pursuant to the requirements set forth above.
- d. The permittee shall submit the written report to the Department electronically via the NJDEP Online Stormwater Document Submittal Service.
- e. The permittee shall not begin construction of a project until written approval of the requested variance from the design and performance standards is received from the Department.
- f. The permittee shall provide documentation to the Department that the approved mitigation was accomplished within 30 days of completion of the mitigation project(s).
- g. The use of the waiver provisions at N.J.A.C. 7:8-5.2 are not subject to the requirements above.

F. Minimum Standards for Pollution Prevention/Good Housekeeping

1. Regulatory Mechanisms

- a. Pet Waste Control: The permittee shall adopt and enforce an appropriate regulatory mechanism that:
 - i. Requires pet owners or their keepers to immediately and properly dispose of their pet's solid waste deposited on any part of the Highway Agency property or prohibit pets from being allowed on Highway Agency property.
 - ii. Any owner or keeper who requires the use of a service animal shall be exempt from these provisions while such animal is being used for that purpose.
- b. Wildlife Feeding Control: The permittee shall adopt and enforce an appropriate regulatory mechanism that prohibits the feeding of any wildlife, e.g., Canada Geese, on Highway Agency property owned or operated by the permittee.
 - i. Exclusions include unconfined wildlife at environmental education centers and feral cats as part of an approved Trap-Neuter-Release program.
- c. Litter Control: The permittee shall enforce the existing State litter statute at N.J.S.A. 13:1E-99.3 or adopt and enforce an appropriate regulatory mechanism that is at least as stringent as the State litter statute.

- d. Improper Disposal of Waste: The permittee shall adopt and enforce an appropriate regulatory mechanism prohibiting the improper spilling, dumping, or disposal of materials other than stormwater into the MS4 excluding those discharges as allowable under Part II.C.2.b.
- e. Permittees shall comply with this requirement on EDPA.

2. Good Housekeeping

- a. The permittee shall develop and implement the following good housekeeping measures described in b. through o. below.
- b. Illicit Connections: The permittee shall prevent illicit connections into the MS4. In addition, the permittee shall inspect outfalls and eliminate any observed illicit discharges in accordance with Part IV.F.3.
 - i. Permittees shall implement this requirement on EDPA.
- c. Litter Pick-Up Program: The permittee shall develop and implement a litter pick up program that includes roadside cleanup of trash and debris and regular collection of refuse from litter and recycling receptacles owned and operated by the permittee, including those located at rest areas.
 - i. The permittee shall maintain records of roadside clean-ups and estimates of the total amount of trash and debris collected; and
 - ii. Permittees shall implement this requirement on EDPA.
- d. Quarterly Street Sweeping: The permittee shall sweep, at a minimum of once every three months, or more frequently as necessary to eliminate recurring problems, all 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.
 - i. Permittees shall implement this requirement on EDPA.
- e. Triannual Street Sweeping: The permittee shall sweep, at a minimum of once every four months, or more frequently as necessary to eliminate recurring problems, all 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.
 - i. Permittees shall implement this requirement on EDPA.
- f. Annual Street Sweeping: The permittee shall sweep, at a minimum of once per year, or more frequently as necessary to eliminate recurring problems, all 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.
 - i. Permittees shall implement this requirement on EDPA.
- g. Storm Drain Inlet Labeling: The permittee shall label all storm drain inlets that eventually discharge to surface water and do not have permanent wording cast into the structure of the inlet to indicate that it drains into a local waterway. This applies to inlets that are located at rest areas, maintenance facilities, and along streets with sidewalks.
 - i. The permittee shall maintain the legibility of storm drain inlet labels and replace any labels that are missing or not legible;

- ii. The permittee shall maintain records of which inlets have been labeled; and
 - iii. Permittees shall implement this requirement on EDPA.
- h. Storm Drain Inlet Retrofitting: The permittee shall comply with the standards set forth in Attachment B (Design Standards for Storm Drain Inlets) of this permit to control passage of solid and floatable materials through storm drain inlets owned or operated by the permittee.
- i. The permittee shall retrofit all storm drain inlets owned or operated by the permittee with the standards set forth in Attachment B on or before EDPA + 59 months.
- i. Storm Drain Inlet Installation: The permittee shall install storm drains that include a catch basin or other BMP designed to collect solids directly below the inlet grate in areas that drain to surface waters. This applies to new storm drain inlet installations that are due to construction that is not considered a major development as defined by N.J.A.C. 7:8.
- i. As an alternative, the permittee shall install a BMP downstream of the storm drain inlet to capture solids before the stormwater reaches the surface water discharge point;
 - ii. Storm drains installed on bridges or culverts are exempt from this requirement;
 - iii. Storm drains are exempt from this standard when additional hydraulic losses will result in unavoidable adverse hydraulic impacts; and
 - iv. Permittees shall implement this requirement on EDPA.
- j. Herbicide Application Management: The permittee shall restrict the application of herbicides as follows:
- i. In a manner that prevents the herbicides from being washed into the waters of the State;
 - ii. In a manner that prevents erosion caused by de-vegetation;
 - iii. Not on or adjacent to storm drain inlets;
 - iv. Not on steeply sloping ground unless it is unsafe or unfeasible to access with equipment;
 - v. Only along curb lines, highway median barriers, and unobstructed shoulders that contain unwanted vegetation;
 - vi. Only within a 2-foot radius around structures where overgrowth presents a safety hazard and where it is unsafe to mow; and
 - vii. Permittees shall implement this requirement on EDPA.
- k. Excess De-Icing/Anti-Icing Material Management: The permittee shall remove, within 72 hours after the end of the storm event, conditions permitting, piles of excess salt and de-icing/anti-icing materials that have been deposited during spreading operations (e.g., piles resulting from accidental spillage or when spreading equipment is started or stopped) on streets, ramps, and parking areas owned or operated by the permittee. Excess de-icing material removed may be returned to storage or properly managed if unsuitable for reuse.
- i. Permittees shall implement this requirement on EDPA.

- l. Vegetative Waste Management: The permittee shall ensure the proper pickup, handling, storage, and disposal of wood waste and yard trimmings generated by the permittee to minimize the impact of vegetative maintenance activities on stormwater discharge quality. At a minimum, the permittee shall:
 - i. Ensure that wood waste and yard trimmings are not swept, raked, blown, or otherwise deposited onto other areas, such as streets or parking areas, where the material can be transported by the MS4 system;
 - ii. Ensure that no person sweeps, rakes, blows, or otherwise places loose wood waste and yard trimmings into streets or parking areas; and
 - iii. Permittees shall implement this requirement on EDPA.
- m. Tree Replacement Management: The permittee shall ensure that any tree removed from the property owned or operated by the permittee be replaced with a tree of equal or greater size or according to the following:
 - i. Any street tree removed with DBH of 2.5" to 5.99" shall be replaced with one tree with caliper of 2-2.5" or more;
 - ii. Any tree removed with DBH of 6" to 12.99" shall be replaced with one tree with caliper of 2-2.5" or more;
 - iii. Any tree removed with a DBH of 13" to 22.99" shall be replaced with two trees with caliper of 2-2.5" or more;
 - iv. Any tree removed with a DBH of 23" to 32.99" shall be replaced with three trees with caliper of 2-2.5" or more;
 - v. Any tree removed with DBH of 33" or greater shall be replaced with four trees with caliper of 2-2.5" or more;
 - vi. Any tree removed shall be replaced within one year of removal, within the timeframe of project completion, or in accordance with other mitigation requirements, as applicable;
 - vii. If the permittee determines that some or all required replacement trees cannot be replanted as part of the project during which the removal occurred, then the permittee shall do one of the following:
 - Plant replacement trees in a separate area; or
 - Pay a fee of \$300 per tree removed unless it can be demonstrated that the actual cost of the tree(s) purchase and installation is less. This fee shall be placed into a fund dedicated to tree planting and continued maintenance of trees.
 - viii. The permittee may remove any trees within a tree farm if the farm is in active operation, this includes nurseries, fruit orchards, and garden centers;
 - ix. The permittee may remove any trees pursuant to a New Jersey Department of Environmental Protection (NJDEP) or U.S. Environmental Protection Agency (EPA) approved environmental remediation, NJDEP approved habitat enhancement plan, or NJDEP Division of Parks and Forestry approved deforestation plan without any additional compensation required;
 - x. The permittee may remove any trees involving approved game management practices, as recommended by the State of New Jersey Department of Environmental Protection, Division of Fish, Game and Wildlife without any additional compensation required;

- xi. The permittee may remove hazard trees with no replacement requirement;
 - xii. The permittee may remove trees from in or around stormwater management basins that are not designed to have trees, including those that are interfering or have the potential to interfere with the function of the basin, and those that are causing or have the potential to cause structural damage to the basin with no replacement requirement;
 - xiii. The permittee may remove trees on dams in accordance with the Dam Safety Standards at N.J.A.C. 7:20 with no replacement requirement;
 - xiv. The permittee may remove trees along existing roadways to meet sight distance and clear zone requirements with no replacement requirement;
 - xv. The permittee may plant replacement trees in alternative area(s);
 - xvi. Mitigation for tree removal other than preservation (i.e., replanting trees, monetary compensation, or purchasing credits from mitigation banks) that is conducted in accordance with other regulatory requirements (e.g., Flood Hazard Area Riparian Zone Mitigation or No Net Loss Reforestation Act) that meet those requirements can also be credited toward compliance with this requirement;
 - xvii. The permittee shall maintain a log of the alternative area(s) designated for tree replacement planting(s); and
 - xviii. All permittees shall implement this requirement on EDPA.
- n. Roadside Erosion Control: The permittee shall develop a program to detect and repair erosion along curbed and uncurbed roadways, ramps, and parking areas owned or operated by the permittee and to inspect and maintain the stability of shoulders, embankments, ditches, and soils along these areas to ensure that they are not eroding and contributing to the sedimentation of receiving waters or stormwater infrastructure:
- i. Inspections of roadways, ramps, and parking areas shall occur at least once per year;
 - ii. Any repairs shall be completed as soon as practicable, but no later than 90 days from discovery, unless the Department has approved an alternative schedule of completion or Department permits are required;
 - iii. Made in accordance with Standards for Soil Erosion and Sediment Control in New Jersey, N.J.A.C. 2:90-1 or the New Jersey Department of Transportation Soil Erosion and Sediment Control Standards, as applicable; and
 - iv. Permittees shall implement this requirement on or before EDPA + 12 months.
- o. Outdoor Refuse Containers and Dumpsters: The permittee shall ensure that refuse containers and dumpsters that are outdoors or exposed to stormwater are managed as follows:
- i. Must always be covered with a tarp, lid, or under a permanent structure to prevent the contact of waste materials with stormwater unless actively being filled or emptied; Temporary demolition containers (e.g., rubble, construction waste, and wood waste) or containers that hold large bulky items, e.g., furniture, do not need to be covered as long as they do not contain putrescible waste;

- ii. Must be leak proof to prevent the discharge of leachate from the contents of the container. Temporary demolition containers (e.g., rubble, construction waste, and wood waste) or containers that hold large bulky items, e.g., furniture, do not need to be leak proof as long as they do not contain putrescible waste;
 - iii. Clean roll-offs or other open top containers used to collect clean household recyclables (such as cans, bottles, or paper, but not including materials such as electronics) must be covered when not in use, at the end of each workday, and before any anticipated storm event;
 - iv. This measure is not intended for litter receptacles; recycling receptacles; and refuse containers at industrial facilities where the discharge of stormwater from the area is regulated by a valid NJPDES permit; and
 - v. Permittees shall implement this requirement on EDPA.
- p. The permittee shall maintain a log sufficient to demonstrate compliance with this section.

3. Inspection and Maintenance of Stormwater Facilities Owned or Operated by the Permittee

- a. The permittee shall develop, update, and implement a program to ensure adequate long-term cleaning, operation, and maintenance of all stormwater facilities owned or operated by the permittee to restrict pollutants from entering the waters of the State, to eliminate recurring problems, and maintain proper function. This program shall include all stormwater infrastructure, including but not limited to b. through h. below.
- b. Stormwater Outfall Inspections and Maintenance for Condition: At a minimum, the permittee shall:
 - i. Conduct outfall inspections at least once every five years, with a minimum of 20% of the total number of outfalls inspected per year;
 - ii. Document conditions under which an outfall must be cleaned, repaired, and maintained;
 - iii. Remove trash and debris within 30 days of discovery;
 - iv. Investigate, within 30 days of receipt, of all complaints and reports of loss of structural integrity;
 - v. Complete repairs as soon as practicable, but no later than 30 days of investigation, unless the Department approves an alternative schedule of completion; and
 - vi. Document all outfall inspections, investigations, and actions taken using the Department's Outfall Inspection Form at <https://dep.nj.gov/njpdес-stormwater/municipal-stormwater-regulation-program/>.
- c. Stormwater Outfall Inspections and Maintenance for Stream Scouring: At a minimum, the permittee shall:
 - i. 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;
 - ii. 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);
 - iii. Investigate, within 30 days of receipt, all complaints, and reports of stream scouring;

- iv. Identify sources of stormwater, within 3 months, that contribute to the scouring from the outfall(s) when localized stream scouring is detected;
 - v. Take corrective action to reduce stormwater rate or volume within the contributing drainage area, when feasible, for sources of scouring that are located on property owned or operated by the permittee;
 - vi. 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;
 - vii. Provide progress reports on remediation of stream scouring to the Department on a quarterly basis until completion;
 - viii. 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; and
 - ix. Document all outfall inspections, investigations, and actions taken to remediate stream scouring using the Department's Stream Scouring Investigation Recordkeeping Form at <https://dep.nj.gov/njpdcs-stormwater/municipal-stormwater-regulation-program/>.
- d. Stormwater Outfall Inspections and Maintenance for Illicit Discharge Detection and Elimination: At a minimum, the permittee shall:
- i. 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;
 - ii. 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;
 - iii. Investigate, within 30 days of receipt of complaints and reports of illicit discharge;
 - iv. Investigate, within 30 days of identification of dry weather flows to determine if illicit discharge is present;
 - v. Investigate, within 30 days, to determine the source of illicit discharge;
 - vi. 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;
 - vii. Provide progress reports on elimination of illicit discharges to the Department on a quarterly basis until completion; and
 - viii. Document all outfall inspections, investigations, and actions taken to remediate illicit discharge(s) using the Department's Illicit Connection Inspection Report Form.
- e. Storm Drain Inlet Inspection, Cleaning, and Maintenance: At a minimum, the permittee shall:
- i. Perform inspections of all storm drain inlets at a minimum of once per year; and
 - ii. Describe conditions under which a storm drain inlet must be cleaned and maintained to ensure, at a minimum, that sediment, trash, or other debris is removed to eliminate recurring problems and maintain proper function.

- f. Catch Basin Inspection, Cleaning, and Maintenance: At a minimum, the permittee shall:
- i. Include inspections of all catch basins at a minimum of once per year for permittees who own or operate less than 2,500 catch basins. Permittees who own or operate 2,500 catch basins or more shall inspect a minimum of 20% of the total or 2,500 per year, whichever is greater, rotating the schedule in such a way that all catch basins are inspected at least once every five years on approximately the same frequency; and
 - ii. Describe the conditions under which a catch basin must be cleaned and maintained, including any specific procedures that must be followed at a frequency to ensure, at a minimum, that sediment, trash, or other solid or floatable material or other obstructions are removed.
 - iii. For guidance related to catch basin cleaning, refer to the EPA Catch Basin Technology Overview and Assessment at <https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=300002QL.TXT>.
- g. MS4 Conveyance Inspection, Cleaning, and Maintenance: At a minimum, the permittee shall:
- i. Include inspections at a frequency to determine if cleaning and/or maintenance are necessary. The frequency for inspections shall be based on known areas of storm sewer back-ups/complaints, and other relevant factors;
 - ii. Ensure that sediment, trash, or other solids or floatable material is removed; and
 - iii. Describe the conditions under which areas of the MS4 conveyance system must be cleaned and maintained.
- h. Stormwater Facility Inspection, Cleaning, and Maintenance (excluding b. through g. above): At a minimum, the permittee shall:
- i. Inspect all stormwater facilities pursuant to approved maintenance plans; and
 - ii. Conduct cleaning and maintenance pursuant to approved maintenance plans, or more frequently as needed (see the Department's maintenance guidance at <https://dep.nj.gov/stormwater/maintenance-guidance/>).
 - iii. If no plan or guidance exists for a particular type of stormwater facility, the permittee shall inspect the infrastructure at least four times annually; and
 - iv. If there are no approved maintenance plans for certain stormwater facilities, the permittee may create one by following the Department's Best Management Practice Manual at <https://dep.nj.gov/stormwater/bmp-manual/> or other maintenance guidance at <https://dep.nj.gov/stormwater/maintenance-guidance/>.
- i. The permittee shall maintain a log sufficient to demonstrate compliance with e. through h. above, including but not limited to the following (example Maintenance Logs and Inspection Records forms are available on the Department's MS4 website under the maintenance guidance link):
- i. Type of stormwater facility;
 - ii. Location information of the facility with geographic coordinates;
 - iii. Name of inspector;
 - iv. Date of inspection;
 - v. Date of most recent precipitation or snowmelt event;

- vi. Presence of standing water or discharge;
 - vii. Observations of the structural integrity;
 - viii. History of problems and complaints;
 - ix. Evidence of current or previous flooding;
 - x. Any preventative and corrective maintenance performed; and
 - xi. Any additional information or findings, if appropriate.
- j. If stormwater facilities (excluding b. through d. above) are found not to be functioning properly, cleaning, corrective maintenance and repairs shall be completed as soon as practicable, but no later than 90 days from discovery, unless the Department is notified ahead of time of an alternative schedule of completion.
- k. The permittee shall prioritize cleaning, corrective maintenance and repairs based upon environmental, health, and safety concerns.
- l. Maintenance or repairs to stormwater facilities shall be made in accordance with N.J.A.C. 7:8.
- m. Any changes to stormwater facilities that were originally approved as part of a major development project must be reviewed for compliance with N.J.A.C. 7:8 and the permittee's Stormwater Program as applicable, by a design review engineer who has completed the Department's Stormwater Management Design Review course, as well as any amendment training that was required.
- n. Permittees shall develop and implement this program on EDPA.

4. Best Management Practices at Maintenance Yards and Other Ancillary Operations

- a. Documenting Best Management Practices: The permittee shall implement Best Management Practices (BMPs) at all maintenance yards and ancillary operations (MYs) to restrict pollutants from entering the waters of the State.
- i. Each MY and ancillary operation shall be identified by its own form in the SPPP which shall include a description of the site-specific activities and associated BMPs; and
 - ii. Permittees shall implement this requirement upon EDPA.
- b. Site Inspections: The permittee shall inspect the entire site, including the site periphery, to identify conditions that would contribute to stormwater contamination, illicit discharges, or negative impacts to the permittee's MS4.
- i. Inspections shall be conducted monthly under dry conditions;
 - ii. Inspections shall also be conducted monthly during precipitation or a snowmelt event when possible;
 - iii. Between monthly inspections, if instances of non-compliance are observed, corrective actions shall be initiated immediately;

- iv. Maintain a log on-site sufficient to demonstrate compliance with this section, including but not limited to:
 - Name of inspector;
 - Date of inspection;
 - Date of most recent precipitation or snowmelt event;
 - Relevant findings;
 - Conditions requiring attention; and
 - Remedial actions taken.
 - v. The location of the log shall be noted in the SPPP; and
 - vi. Permittees shall implement this requirement on EDPA.
- c. Inventory List: The permittee shall maintain a list of all materials and machinery that are potentially present at each maintenance yard or ancillary operation which could be a source of pollutants in a stormwater discharge. These materials include, but are not limited to, raw materials, intermediate products, final products, waste materials, by-products, machinery and fuels, lubricants, solvents, and detergents. Materials or machinery that are stored in a permanent structure and therefore not exposed to stormwater do not need to be included in the list.
- i. Permittees shall implement this requirement on EDPA.
- d. Container Labels and Storage: The permittee shall properly label and store all containers as follows:
- i. Labels shall be legible, clean, and visible;
 - ii. Containers shall be kept in good condition;
 - iii. Containers shall be protected from damage and spillage;
 - iv. Containers shall be tightly closed when not in use;
 - v. Containers stored outside shall be covered and placed on spill platforms or clean pallets. An area that is graded and/or bermed to prevent run-through of stormwater may be used in place of spill platforms or clean pallets;
 - vi. Outdoor storage locations shall be regularly maintained to allow for proper inspection and accessibility; and
 - vii. Permittees shall implement this requirement on EDPA.
- e. Spill Kits: The permittee shall conduct cleanups of spills of liquids or dry materials immediately after discovery, as follows:
- i. Spills that are suspected to be a threat to human health or the environment shall be immediately reported to the NJDEP Hotline at 1-877-WARNDEP (1-877-927-6337);
 - ii. All spills shall be cleaned using dry absorbent material and cleaning methods only, e.g., kitty litter, sawdust, etc.;
 - iii. All dry absorbent materials shall be swept up once spill is absorbed and disposed of properly;
 - iv. Store clean-up materials, spill kits, and drip pans near all liquid transfer areas;

- v. Ensure that clean-up materials are protected from rainfall; and
 - vi. Permittees shall implement this requirement on EDPA.
- f. Bulk Liquid Storage: The permittee shall surround above ground tanks with a secondary containment barrier, such as a spill containment dike, to contain the drips and spillage that might happen during operations. This applies for new and existing aboveground storage tanks containing bulk liquid (including but not limited to gasoline, diesel fuel, heating oil, hydraulic oil, and used oil), and new liquid de-icing/anti-icing tanks, as follows:
- i. The containment area shall be impervious;
 - ii. The containment area shall be able to contain the volumetric capacity of at least 110% of the largest tank's capacity within the containment area;
 - iii. The containment area shall be constructed so that no volume of bulk liquid can escape through drains, storm sewer systems, or to the surface waters or ground waters of the state;
 - iv. All accessory pipes, hoses, valves, and pumps shall also be located within the containment area or under cover and not exposed to stormwater. It is recommended that the tank be protected to prevent stormwater from accumulating in the containment structure; and
 - v. Permittees shall implement this requirement on or before EDPA + 12 months.
- g. Fueling and other Bulk Liquid Operations: The permittee shall establish, maintain, and implement standard BMPs to address vehicle fueling, receipt of bulk fuel and other bulk liquid deliveries, and inspection and maintenance of storage tanks, including the associated piping and pumps, as follows:
- i. A trained employee shall be present to supervise the bulk transfer of fuel or other bulk liquids to ensure BMPs are followed;
 - ii. Place drip pans under all hose and pipe connections and other leak-prone areas during bulk transfer of fuels or other bulk liquids;
 - iii. Block storm sewer inlets or contain tank trucks used for bulk transfer with temporary berms or temporary absorbent booms during the transfer process;
 - iv. If temporary berms or booms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel or other bulk liquids shall be within the temporarily bermed or boomed area during the loading/unloading of bulk fuels or other bulk liquids;
 - v. Clearly post, in a prominent area of the fueling area, the contact information for the person(s) responsible for spill response and instructions for safe operation of fueling equipment that include all the following: "Topping off of vehicles, mobile fuel tanks, and storage tanks is strictly prohibited."; "Stay in view of fueling nozzle during dispensing.";
 - vi. Immediately repair or replace any equipment, tanks, pumps, piping, and fuel or other bulk liquid dispensing equipment found to be leaking or in disrepair; and
 - vii. Permittees shall implement this requirement on EDPA.

- h. Discharge of Stormwater from Secondary Containment: The permittee shall only discharge stormwater accumulated in a secondary containment area, e.g., fuel storage, de-icing/anti-icing solution storage, brine solution, as follows:
 - i. Conduct visual inspections to ensure that bulk liquids have not contaminated the stormwater collected in the secondary containment area when dealing with materials that can be observed, e.g., petroleum;
 - ii. If the contents of the tank are not visible in stormwater, e.g., brine solution, the permittee shall determine based on recent tank inspections and bulk liquid transfers that the bulk liquids have not contaminated the stormwater collected in the secondary containment area;
 - iii. If the permittee cannot determine that the stormwater in the secondary containment area is uncontaminated, then the stormwater shall be hauled offsite for proper disposal;
 - iv. If the secondary containment area contains a valve, this valve shall remain closed at all times except as described above; and
 - v. Permittees shall implement this requirement on EDPA.
- i. Vehicle and Equipment Maintenance: The permittee shall conduct vehicle and equipment maintenance and/or repair activities indoors. However, if these activities cannot be performed indoors, the permittee shall perform vehicle and equipment maintenance in a manner that prevents the exposure of pollutants to stormwater as follows:
 - i. For projects that last more than one day, portable tents or covers shall be placed over the equipment being serviced when not being worked on;
 - ii. Drip pans shall be used at all times;
 - iii. These activities shall only occur in designated areas away from storm drains, or storm drain inlets shall be blocked, to prevent stormwater runoff from entering the storm drain inlets; and
 - iv. Permittees shall implement this requirement on EDPA.
- j. Wash Wastewater Containment: The permittee shall discharge wash wastewater to a sanitary sewer. However, if this wash wastewater cannot be discharged to a sanitary sewer, the permittee shall manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to storm sewer inlets or to surface or ground waters of the State, as follows:
 - i. Wash wastewater shall be temporarily stored in a containment structure prior to proper disposal;
 - ii. The containment structure(s) containing the wash wastewater shall not leak;
 - iii. Any underground tanks and associated piping shall be tested for integrity every three (3) years using appropriate methods determined by "The List of Leak Detection Evaluations for Storage Tank Systems" created by the National Work Group on Leak Detection Evaluations, or as determined appropriate and certified by a professional engineer for the site-specific containment structure(s);
 - iv. Any cathodically-protected containment system shall have a passing cathodic protection survey every three years;

- v. Before each use of the wash wastewater containment, inspections shall be performed of all visible portions of containment structures to ensure that they are structurally sound;
 - vi. Containment structures shall be prevented from overflowing as a result of operations, malfunctions of equipment, or human error;
 - vii. Wash wastewater shall not be introduced to the containment structure when it is determined to be at 95% capacity;
 - viii. Each volumetric measurement shall be measured and recorded to the nearest ½ inch using the “Underground Vehicle Wash Water Storage Tank Use Log” form on the Department’s website at <https://dep.nj.gov/njpdес-stormwater/municipal-stormwater-regulation-program/highway-agency->
 - ix. Leak containment structures shall be emptied and taken out of service immediately upon detection of deterioration that could result in a leak;
 - x. All necessary repairs shall be conducted to ensure structural integrity before placing a containment structure back into service;
 - xi. Any spills or suspected release of hazardous substances shall be immediately reported to the NJDEP Hotline at 1-877-WARN DEP (1-877-927-6337) which will be followed by a site investigation in accordance with N.J.A.C. 7:26C and N.J.A.C 7:26E if the discharge is confirmed;
 - xii. All wash wastewater from pump-outs and clean-outs shall be disposed of properly;
 - xiii. A log of equipment and vehicle wash wastewater containment structure pump-outs (removes only water) and clean-outs (removes all water and sludge) shall be maintained that includes the date and method of removal, mode of transportation (including name of hauler if applicable) and the location of disposal. See “Underground Vehicle Wash Water Storage Tank Pump Out Log” form on the Department’s MS4 website at <https://dep.nj.gov/njpdес-stormwater/municipal-stormwater-regulation-program/highway-agency-> and
 - xiv. Permittees shall implement this requirement on EDPA.
- k. Salt and Other Granular De-icing/Anti-icing Material Storage and Handling: The permittee shall establish, maintain, and implement salt and de-icing/anti-icing material storage and handling BMPs as follows:
- i. Store material in a permanent structure;
 - ii. Prevent the exposure of stored salt and other granular de-icing/anti-icing material to rain, snow, or stormwater run-on. Stormwater runoff containing de-icing/anti-icing material from a material storage and handling area is not authorized for discharge under this permit;
 - iii. Prevent spillage;
 - iv. Minimize tracking of materials from loading and unloading operations;
 - v. Loading and unloading materials shall be conducted during dry weather, when possible;
 - vi. Minimize loader travel distance between the storage area and the spreading vehicle;

- vii. Sweep (or clean using other dry-cleaning methods), after loading and unloading, the areas surrounding the storage structure to eliminate the contact of de-icing/anti-icing materials with stormwater that were tracked away from storage areas;
 - viii. Spilled material may be returned to storage or properly discarded if unsuitable for reuse;
 - ix. Excess material not used during spreading activities shall be returned to the storage area.
 - x. Temporary storage of salt and other granular de-icing/anti-icing materials in a non-permanent structure is permitted only when a permanent structure is under construction, repair, or replacement;
 - xi. Stormwater run-on and de-icing/anti-icing material runoff shall be minimized when de-icing/anti-icing material is temporarily stored;
 - xii. Materials in temporary storage shall be covered, e.g., in a temporary structure or under a tarp, when not in use;
 - xiii. Temporary storage shall not exceed 30 days unless otherwise approved in writing by the Department; and
 - xiv. Permittees shall implement this requirement on EDPA.
- l. Aggregate Material, Wood Chips, and Finished Leaf Compost Storage: The permittee shall store materials such as sand, gravel, stone, topsoil, wood chips, and finished leaf compost as follows:
- i. Materials shall be stored a minimum of 50 feet from surface water bodies, storm sewer inlets, and/or ditches or other stormwater conveyance channels;
 - ii. Materials shall be stored in a manner to minimize stormwater run-on and pollutant runoff via surface grading, dikes and/or berms, (which may include sandbags, hay bales and curbing, among others), or three-sided storage bays;
 - iii. Situate the open side of the storage bays on the upslope where possible;
 - iv. Sweep all areas in front of storage bays and adjacent to storage areas after loading/unloading;
 - v. Materials shall not be processed, e.g., composting, chipping, grinding, screening, and/or size-reducing, under this permit authorization;
 - vi. Permittees conducting processing activities of these materials, e.g., composting, chipping, grinding, screening, and/or size-reducing, shall obtain an appropriate NJPDES Industrial Stormwater Discharge permit for those activity(ies). Contact the Industrial Stormwater Permitting Unit at industrialstormwaterpermitting@dep.nj.gov or the MS4 Unit at stormwatermanager@dep.nj.gov to determine which stormwater permit application would be appropriate; and
 - vii. Permittees shall implement this requirement on EDPA.
- m. Construction and Demolition Waste, Wood Waste, and Yard Trimmings Storage: The permittee may store construction and demolition waste, wood waste, and yard trimmings as follows:
- i. Materials shall be removed within six (6) months of placement into storage;
 - ii. Materials shall be stored a minimum of 50 feet from surface water bodies, storm sewer inlets and/or ditches, or other stormwater conveyance channels;

- iii. Materials shall be stored in a manner to control stormwater run-on and pollutant runoff via surface grading, dikes and/or berms (which may include sandbags, hay bales and curbing, among others), or three-sided storage bays;
 - iv. Situate the open side of the storage bays on the upslope where possible;
 - v. The area in front of storage bays and adjacent to storage areas shall be swept clean after loading/unloading;
 - vi. Materials shall not be processed, e.g., composting, chipping, grinding, screening, and/or size-reducing, under this permit authorization;
 - vii. Permittees conducting processing activities of these materials, e.g., composting, chipping, grinding, screening, and/or size-reducing, shall obtain an appropriate NJPDES Industrial Stormwater Discharge permit for those activity(ies). Contact the Industrial Stormwater Permitting Unit at industrialstormwaterpermitting@dep.nj.gov or the MS4 Unit at stormwatermanager@dep.nj.gov to determine which stormwater permit application would be appropriate; and
 - viii. Permittees shall implement this requirement on EDPA.
- n. Cold Patch Asphalt Storage: The permittee shall store cold patch asphalt as follows:
- i. In a permanent structure or on an impervious surface and covered with a waterproof material, e.g., tarp or 10-mil plastic sheeting;
 - ii. Contained by an impervious barrier to control leachate and stormwater run-on or run-through; and
 - iii. Permittees shall implement this requirement on EDPA.
- o. Street Sweepings and Storm Sewer Clean-out Material Storage: The permittee shall store street sweepings, storm sewer and catch basin clean-out materials, stormwater basin clean-out materials, and other similar materials as follows:
- i. Shall only be stored temporarily and shall be removed for disposal within six (6) months of placement into storage;
 - ii. Shall be dewatered in a manner that prevents discharge to surface or ground water;
 - iii. Shall not include liquids, wastes which are removed from sanitary sewer systems, or material which constitutes hazardous waste in accordance with N.J.A.C. 7:26G;
 - iv. Shall be stored in leak-proof containers or on an impervious surface and covered with a waterproof material, e.g., tarp or 10-mil plastic sheeting;
 - v. Shall be contained by an impervious barrier to control leachate and stormwater run-on or run-through; and
 - vi. Permittees shall implement this requirement on EDPA.
- p. Scrap Tires: The permittee shall store scrap tires as follows:
- i. In a covered container or enclosure to prevent exposure to stormwater.

- ii. If a covered container or enclosure is not available, tires shall be stored on an impervious surface and covered with a waterproof material, e.g., tarp or 10-mil plastic sheeting; and
 - iii. Permittees shall implement this requirement on EDPA.
- q. Inoperable Vehicles or Equipment: The permittee shall store any inoperable vehicles and equipment as follows:
- i. In a manner that prevents stormwater runoff of pollutants;
 - ii. No internal components may be exposed;
 - iii. For inoperable vehicles and equipment that have exposure of internal components, such as body damage, rust damage, missing body panels, or broken windows, such that the exterior is no longer impervious to precipitation, portable tents or covers must be placed over vehicles;
 - iv. Inoperable vehicles and equipment shall be managed so there are no leaking fluids;
 - v. Designated storage areas must be located at least fifty (50) feet away from storm drain inlets;
 - vi. Monthly inspections must be conducted to ensure that BMPs are implemented properly, including inspections for leaks, and filled drip pans;
 - vii. If any inoperable vehicle or equipment is found to be leaking, drip pans shall be utilized immediately;
 - viii. Leaks must be repaired, or the fluid must be drained from the vehicle within 30 days; and
 - ix. Permittees shall implement this requirement on EDPA.

5. Stormwater Program Coordinator (SPC) Training

- a. The permittee shall ensure that all individuals who serve as Stormwater Program Coordinators (SPC) complete mandatory Department training regarding their responsibilities to implement the stormwater program at their Highway Agency.
- b. The Department will conduct free interactive SPC trainings approximately twice each year.
- c. SPCs are required to attend this training within EDPA + 12 months and once per permit cycle thereafter.
- d. In the event of SPC turnover, the permittee shall comply with the conditions set forth in Part IV.A.1.e. and ensure that the new SPC attends the next available Department training session.
- e. Previous recordings of SPC training sessions will be posted on the MSRP webpage, but viewing a pre-recorded session can only be used for informational purposes and will not satisfy this requirement.

6. Annual Employee Training

- a. The permittee shall develop, update, and implement a program that ensures duty-specific annual training of all individuals responsible for the implementation of the stormwater program on the following topics:
 - i. SPPP;

- ii. Construction Site Stormwater Runoff;
 - iii. Post-Construction Stormwater Management in New Development and Redevelopment;
 - iv. Regulatory Mechanisms;
 - v. Good Housekeeping;
 - vi. Stormwater Facility Maintenance;
 - vii. Maintenance Yard Operations and Other Ancillary Operations;
 - viii. De-icing/Anti-icing Material Application;
 - ix. MS4 Mapping; and
 - x. Watershed Improvement Plan.
- b. The permittee shall ensure that the training describes the procedures necessary to ensure compliance with all permit conditions and includes site-specific details described in the SPPP, at a minimum.
 - c. The permittee shall ensure that all individuals receive initial training on those stormwater topics applicable to their title and duties within 3 months of commencement of duties.
 - d. Methods of training may include in-person group training sessions, e-Learning sessions, on-the-job/field training, and instructional videos.
 - e. The permittee shall document and maintain records of the training of each individual employee of the permittee, indicating participant(s) name, title, signature, date(s) of training, agenda or topic(s) discussed, and instructor(s) name and title or video title and website link address(es).
 - f. The permittee shall ensure the adequate training of external contractors, consultants, and vendors by requiring compliance with training outlined in the permittee's SPPP by including it as a condition of the contract.
 - g. Permittees shall implement these requirements on EDPA.

7. De-icing/Anti-icing Material Application Training

- a. The permittee shall develop a de-icing/anti-icing material application training program.
- b. The permittee shall ensure that all individuals (including employees, contractors, or volunteers) who apply de-icing/anti-icing material on permittee owned or operated roadways, ramps, and parking areas complete de-icing/anti-icing material application training at a minimum of once per year.
- c. The permittee shall document and maintain records of the training of each individual, indicating participant(s) name, title, signature, date(s) of training, and instructor(s) name.
- d. Permittees shall implement these requirements on EDPA.

8. Stormwater Management Design Review (SWMDR) Training

- a. The permittee shall ensure that all individuals that review and approve stormwater management designs for major development projects on behalf of the permittee for compliance with the Stormwater Management rules at N.J.A.C. 7:8 have completed this mandatory Department-provided training. Information regarding this training can be found on the Department's website at <https://dep.nj.gov/stormwater/stormwater-management-design-review-course/>.
- b. This SWMDR training course covers the rule's requirements, calculation methodologies, and how to review a major development project. This training shall be completed, at a minimum, once every five years.
- c. A list of the individuals that completed this training course is posted on the Department's MS4 website, including their five-year expiration date.
- d. Permittees shall implement this requirement on EDPA.

9. Stormwater Management Rule Amendment Training

- a. Whenever the Stormwater Management rules at N.J.A.C. 7:8 are amended and the Department determines that training is warranted, the permittee shall ensure that all individuals that have completed the SWMDR course in Part IV.F.8. above also complete this mandatory Department-provided training. If training is required, the Department will issue email notification to Stormwater Program Coordinators and individuals listed on the Department's SWMDR certified list.
- b. If the Department issues notice of Stormwater Management Rule Amendment training, the reviewer shall complete the training no later than one (1) year after the adoption of the amendment(s) to the Stormwater Management rules at N.J.A.C. 7:8.

G. Minimum Standards for MS4 Mapping

1. MS4 Infrastructure Map

- a. The permittee shall develop, update, and maintain an electronic MS4 Infrastructure Map that delineates the location of the following stormwater features that are owned or operated by the permittee, including their associated attributes noted in parentheses:
 - i. MS4 outfalls (receiving surface water name, type of outfall);
 - ii. MS4 ground water discharge points (type);
 - iii. MS4 interconnections (type, upstream entity, downstream entity);
 - iv. Storm drain inlets (type, catch basin present, label present, retrofitted);
 - v. MS4 manholes;
 - vi. MS4 conveyance (type, direction of flow);
 - vii. MS4 pump stations;
 - viii. Stormwater management measures (type);
 - ix. Streets, ramps, parking areas, and thoroughfares; and

- x. Property boundaries of rest area(s), maintenance yard(s) and other ancillary operations (type).
- b. The permittee shall ensure that the MS4 Infrastructure Map is:
 - i. Reviewed and updated annually, or more frequently as necessary, to include the location or attributes of any new or newly identified MS4 infrastructure;
 - ii. Posted on the permittee's webpage and included as a weblink within the SPPP;
 - iii. Submitted to the Department as a georeferenced shapefile, geodatabase, or an AutoCAD file (with all other non-applicable data stripped out) via the NJDEP Online Stormwater Document Submittal Service on or before EDPA + 36 months. If the DEP Mapping Tool is used, then no separate submittal is required as the data is automatically submitted to the Department via the mapping tool; and
 - iv. This time frame does not extend the deadline for the submission of the MS4 outfall pipe map, or the submission of the stormwater facilities map as per the 2020 permit.
- c. The permittee may submit a proposed alternative timeline for the submission of MS4 conveyance and interconnection data to the Department on or before EDPA + 36 month. Proposals must include the following at a minimum;
 - i. Proposed alternative deadline for submission;
 - ii. Proposed interim milestone submissions;
 - iii. Amount of conveyance mapped at the time of the proposal; and
 - iv. Estimate of unmapped conveyance remaining.

H. Minimum Standards for the Watershed Improvement Plan

1. General Watershed Improvement Plan Requirements

- a. The permittee shall develop a Watershed Improvement Plan in three (3) phases specified below that describe what actions the permittee will take to:
 - i. Improve water quality by reducing the contribution of pollutant parameters for all receiving subwatersheds within and bordering the Highway Agency owned or operated property that have percent reductions listed for stormwater in the Total Maximum Daily Loads (See the New Jersey Watershed Evaluation Tool at <https://experience.arcgis.com/experience/f40f65d807bb4372bd92b48bb98f1972>);
 - ii. Improve water quality by reducing the contribution of pollutant parameters for all receiving subwatersheds within and bordering the Highway Agency owned or operated property 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://dep.nj.gov/wms/bears/water-quality-assessment/integrated-report/>); and
 - iii. Reduce and/or eliminate stormwater flooding within the Highway Agency owned or operated property, prioritizing the areas of flooding for corrective actions based on threat to human health and safety, environmental impacts, and frequency of occurrence.
- b. The permittee shall provide other MS4 permittees that discharge to shared subwatershed(s) the following data if requested by other MS4 permittee(s):

- i. MS4 interconnection locations; and
- ii. Information regarding the ownership of specific stormwater infrastructure.

2. Phase 1 – Watershed Inventory

- a. The permittee shall prepare an electronic map which includes 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 inventory. Permittees may use their current MS4 Infrastructure Map as the base map:
 - i. All stormwater outfalls owned or operated by the permittee;
 - ii. The drainage area for each outfall (drainage areas may be delineated by computer analysis and any available topography including LIDAR data);
 - iii. The receiving waterbodies of each outfall;
 - iv. The water quality classification of all receiving waterbody segments;
 - v. All known stormwater interconnections from the permittee's storm or sanitary sewer system into another entities' storm or sanitary sewer system included on the permittee's MS4 infrastructure map;
 - vi. All known stormwater interconnections into the permittee's storm or sanitary sewer system from another entities' storm sewer system included on the permittee's MS4 infrastructure map;
 - vii. The drainage area from the permittee's system for each interconnection (drainage areas may be delineated by computer analysis and any available topography including LIDAR data);
 - viii. All storm drain inlets owned or operated by the permittee;
 - ix. Areas associated with each TMDL for waters that lie within or bordering the Highway Agency owned or operated property, including roadways, access roads, ramps, rest areas, maintenance yards, and all other ancillary operations. Excess parcels not associated with roadways, rest areas, maintenance yards, and other ancillary operations, to be added to the map as the data becomes available;
 - x. Area associated with each water quality impairment for waters that lie within or bordering the Highway Agency owned or operated property, including roadways, access roads, ramps, rest areas, maintenance yards, and all other ancillary operations. Excess parcels not associated with roadways, rest areas, maintenance yards, and other ancillary operations, to be added to the map as the data becomes available;
 - xi. Areas associated with MS4 related stormwater flooding; and
 - xii. Impervious areas owned or operated by the permittee.
- b. The permittee shall submit the Watershed Inventory to the Department via the NJDEP Online Stormwater Document Submittal Service by EDPA + 36 months.

3. Phase 2 - Watershed Assessment Report

- a. The permittee shall conduct an initial Phase 2 public information session at the start of the Watershed Assessment Report phase as follows:

- i. Must conduct a public information session in each of the permittee's permitted regions;
 - ii. Must notify the MS4 Case Manager of the date of the public information session 60 days prior;
 - iii. Must post the date of the public information session on the permittee's website;
 - iv. Must, at a minimum, present the information gathered from Phase 1 – Watershed Inventory and the preliminary goals of the permittee's Watershed Improvement Plan;
 - v. Must record all input received from public information session attendees; and
 - vi. Must hold additional public information sessions if all attendees could not be accommodated or all of the necessary information could not be adequately presented in a single session.
- b. The permittee shall prepare a report to include the following, at a minimum:
- i. An assessment of potential water quality and quantity improvement BMPs to be implemented at all permittee owned or operated maintenance yards, ancillary operations, and rest areas by subwatershed and parameter;
 - ii. An estimate of the percent reduction in loading of the TMDL/impaired parameters and stormwater runoff quantity due to BMPs in i. above;
 - iii. An estimate of funding needs for each BMP identified in i. above, and identification of potential funding sources, including funding available through the New Jersey Water Bank (NJWB), the formation of a Stormwater Utility (SWU), FEMA BRIC grants, etc. as applicable;
 - iv. An estimate of an implementation schedule for the BMPs associated with i. above;
 - v. An assessment of potential water quality and quantity improvement BMPs to be implemented as part of all future capital improvement projects associated with any roadway, access road, or ramp owned or operated by the permittee by subwatershed and parameter; and
 - vi. A summary of input received from the public information session(s) as per a. above.
- c. The permittee shall submit the Watershed Assessment Report to the Department via the NJDEP Online Stormwater Document Submittal Service by EDPA + 48 months.
- d. The permittee shall ensure that the Watershed Assessment Report is posted, along with an announcement of a 60-day comment period for formal public input on the permittee's website or Department-approved alternate website.
- e. The permittee shall conduct a final Phase 2 public information session no more than 45 days after the start of the 60-day comment period as follows:
- i. Must conduct a public information session in each of the permittee's permitted regions;
 - ii. Must notify the MS4 Case Manager of the date of the public information session 60 days prior;
 - iii. Must post the date of the public information session on the permittee's website;
 - iv. Must present, at a minimum, the findings of the Watershed Assessment Report;
 - v. Must record all input received from public information session attendees; and

- vi. Must hold additional public information sessions if all attendees could not be accommodated or all the necessary information could not be adequately presented in a single session.

4. Phase 3 – Watershed Improvement Plan Final Report

- a. The permittee shall prepare the final report to include the following, at a minimum:
 - i. A summary of proposed locations and load reductions of water quality and quantity improvement BMPs to be implemented at permittee owned or operated maintenance yards, ancillary operations, and rest areas;
 - ii. The proposed implementation schedule for the water quality and quantity improvement BMPs at permittee owned or operated maintenance yards, ancillary operations, and rest areas;
 - iii. Costs, broken down by project and year for water quality and quantity improvement BMPs at permittee owned or operated maintenance yards, ancillary operations, and rest areas and the funding opportunities that will be sought;
 - iv. A summary of potential water quality and quantity improvement BMPs to be implemented as part of all future capital improvement projects associated with any roadway, access road, or ramp owned or operated by the permittee;
 - v. A summary of the public comments received during the 60-day comment period and corresponding public information session, and the changes made to the final report resulting from those public comments;
 - vi. A summary of how the projects will be coordinated with other regulatory requirements;
 - vii. A summary of any collaboration with other MS4 permittees; and
 - viii. A summary of problems identified that are outside the jurisdiction of the permittee, if any, and opportunities to address them. These can be related to pollutant loading due to agricultural properties, interconnections from other entities, etc.
- b. The permittee shall submit the final Watershed Improvement Plan Report to the Department via the NJDEP Online Stormwater Document Submittal Service by EDPA + 59 months.
- c. The permittee shall ensure that the final Watershed Improvement Plan Report is posted on the permittee's website or Department-approved alternate website.
- d. The permittee shall conduct a Phase 3 public information session within 60 days after the final Watershed Improvement Plan Report is submitted to the Department as follows:
 - i. Must conduct a public information session in each of the permittee's permitted regions;
 - ii. Must notify the MS4 Case Manager of the date of the public information session 60 days prior;
 - iii. Must post the date of the public information session on the permittee's website;
 - iv. Must present, at a minimum, the findings of the final Watershed Improvement Plan Report;
 - v. Must record all input received from public information session attendees; and
 - vi. Must hold additional public information sessions if all attendees could not be accommodated or all the necessary information could not be adequately presented in a single session.

- e. The permittee shall begin implementation of the Watershed Improvement Plan in accordance with the schedule set forth in the Plan.
- f. The permittee shall update this Plan, when necessary, based upon the biennial review of the revisions to the impairments of the permittee's waterbodies as per the Department's Integrated Report and newly adopted TMDLs.

I. Additional and Optional Measures

1. Incorporation of Additional Measures

- a. Additional Measures are non-numeric, e.g., best management practices, or numeric effluent limitations that are expressly required to be included in a permittee's stormwater program by a TMDL, a regional stormwater management plan, or other elements of an adopted areawide Water Quality Management Plan.
- b. The Department will provide written notice of the adoption of any Additional Measure(s) to any affected permittee. The Department will list each adopted Additional Measure in a minor modification to the permit. The required Additional Measure(s) will also specify the implementation schedule.

2. Incorporation of Optional Measures

- a. Optional Measures are BMPs, developed by the permittee, that extend beyond the requirements of the MS4 NJPDES permit and that prevent or reduce pollution and flooding to waters of the State.
- b. The permittee may, at its own discretion, incorporate Optional Measures into its MS4 stormwater program. Such BMPs shall be identified in the SPPP as Optional Measures.
- c. Failure to implement an Optional Measure identified in the SPPP shall not be considered a violation of the NJPDES permit.

J. Recordkeeping

1. Standard Recordkeeping Requirements

- a. The permittee shall retain copies of all records required to demonstrate compliance with this permit on site for a period of at least five years.
- b. The permittee shall provide a copy of all records to the Department upon request.
- c. Permittees shall implement this requirement on EDPA.

K. Annual Report and Certification

1. Annual Reporting Requirements

- a. The permittee shall complete an Annual Report and Certification using the Department's electronic MSRP Annual Report service tool in the Regulatory Services Portal at <https://www.njdeponline.com>. The Annual Report shall summarize the status of compliance with the permit conditions for the subject year between January 1 and December 31.
- b. The permittee shall include the Major Development Project List for any major development projects approved during the calendar year and upload it as an attachment to the Annual Report.
- c. The permittee shall include all certifications required at N.J.A.C. 7:8-5.3(j).

- d. The permittee shall complete the following forms each calendar year (available at <https://dep.nj.gov/njpdcs-stormwater/municipal-stormwater-regulation-program/highway-agency-st>) and upload them as attachments to the Annual Report:
 - i. Outfall Inspection Forms;
 - ii. Illicit Connection Inspection Report Forms; and
 - iii. Stream Scouring Investigation Recordkeeping Forms.
- e. The Stormwater Program Coordinator shall certify, sign, and date the Annual Report.
- f. Submit an Annual Report and Certification: on or before May 1st annually.

UNION CNTY , Scotch Plains

Permit No.NJG0153320
DST240001 Stormwater Discharge General Permit Authorization
Renewal

Attachment A – Points System for Public Education and Outreach Activities

The permittee shall annually conduct educational activities that total at least **7 points** from three different activities listed below. Each activity may only be done once each year for points. At least one of the activities shall involve education about the hazards associated with illicit connections and improper disposal of waste. The permittee shall maintain records of activity dates and educational materials related to the activity.

**Activity meets the requirement for education about the hazards associated with illicit connections and improper disposal of waste.*

Activity	Description	Points
Social Media	Post stormwater materials from your Highway Agency on a social media site quarterly, such as a Facebook, Instagram, or Twitter page. This may include links to other stormwater resources, your dedicated stormwater webpage, or the NJDEP stormwater website (www.njstormwater.org).	1
Newsletter and Newspaper Ads	Use Department-approved stormwater education materials to publish an ad in a newsletter or newspaper quarterly that serves the permittee.	1
Radio and Television Ads	Quarterly broadcast a stormwater-related radio or television public service announcement from www.cleanwaternj.org on a local radio or public service channel.	1
Stormwater Facility Signage	Post and/or maintain a minimum of six (6) signs on property owned or operated by the permittee at green infrastructure sites, stormwater management basins or other stormwater management measures that describe the function and importance of the facility, contact phone number, permittee identification number, and/or website for more information.	3
Billboard/Sign	Produce and/or maintain a stormwater-related billboard or large sign/digital sign for display on a roadway, bus, bus stop vestibule, recreation field, rest area, or other common public gathering area.	1
Mural	Produce and/or maintain a stormwater pollution themed mural, storm drain art or other artwork at a common public gathering area.	2
Stormwater Display	Present a stormwater-related display or materials at any rest area or at any community event, e.g., county or state fair, parade, community gathering, or other similar public venue.	1
Promotional Item Giveaway	Distribute an item or items with a stormwater related message (e.g., refrigerator magnets, temporary tattoos, key chains, bookmarks, pet waste bag dispensers, coloring books, and pens or pencils) at any rest area or	2

Activity	Description	Points
	at any community event, e.g., county or state fair, parade, community gathering, or other similar public venue.	
Designated Pet Relief Area(s)	Designate and/or maintain a pet waste relief area at any rest area and provide pet waste bags and pet waste receptacles.	3
Regulatory Mechanism Signage*	Post and/or maintain a minimum of six (6) signs on property owned or operated by the permittee that describes the purposes of Regulatory Mechanisms and the benefits to water quality and the community, e.g. including water quality benefits to pet waste receptacles, no feeding wildlife signage, litter pickup signage, etc.	3
Regulatory Mechanism Education*	Provide and maintain a flyer or handout specific to any regulatory mechanisms in place to address Pet Waste, Wildlife Feeding, Litter Control, and Improper Disposal of Waste, at any rest area or at any community event, e.g., county or state fair, parade, community gathering, or other similar public venue. Provide a link to the appropriate public facing webpage where these regulatory mechanisms are posted.	1
Storm Drain Labeling Campaign*	Organize a project to label and/or maintain storm drain labels (that are not already precast with a message) with a scout troop, local school district, or faith-based group, or other community youth group for a minimum of 40 labels. This project could also include stenciling over precast labels to improve legibility.	1
Litter Cleanup Campaign*	Sponsor or organize a litter cleanup for a community group along a local waterway, public park, stormwater facility, or in an area with storm drains that discharge to a local lake or waterway.	3
Report Excess Road Salt Pile Program	Maintain a website or phone number for the public to report piles of excess de-icing/anti-icing materials that have been deposited during spreading operations on streets, ramps, and parking areas owned or operated by the permittee after 72 hours after the end of a storm event.	3
Road Salt Education Campaign	Provide and maintain a flyer or handout for homeowners specific to proper de-icing/road salt application at any rest area or at any community event, e.g., county or state fair, parade, community gathering, or other similar public venue.	1

Attachment B – Design Standards for Storm Drain Inlets

Application of Design Standard

The below design standard applies to the following types of storm drain inlet installation or retrofit projects:

- Storm drain inlets installed as part of new development and redevelopment (public or private) that disturb one acre or more;
- Storm drain inlets installed as part of new development and redevelopment (public or private) that disturb less than one acre that are part of a larger common plan of development or sale, e.g., phased residential development that ultimately disturbs one acre or more; and
- Storm drain inlets must be retrofitted where the storm drains are (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of stormwater facilities.

Design Standard

Grates in pavement or other ground surfaces shall meet either of the following standards:

- The New Jersey Department of Transportation (NJDOT) bicycle safe grate standards described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines (see www.state.nj.us/transportation/about/publicat/pdf/BikeComp/introtofac.pdf); or
- A grate where each individual clear space in that grate has an area of no more than seven (7.0) square inches or is not greater than 0.5 inches across the smallest dimension. Note that the Residential Site Improvement Standards at N.J.A.C. 5:21 include requirements for bicycle safe grates.

Examples of grates subject to this standard include grates in grate inlets; the grate portion (non-curb opening portion) of combination inlets; grates on storm sewer manholes; ditch grates; trench grates; and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads, (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater basin floors used to collect stormwater from the surface into a storm drain or surface water body.

For curb-openings inlets, including curb-opening inlets in combination inlets, the clear space in the curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches or be no greater than two (2.0) inches across the smallest dimension.

Exemptions from the Design Standard

- Where each individual clear space in the curb opening in existing curb-opening inlets does not have an area of more than nine (9.0) square inches;
- Where the review agency determines that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets;
- Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device, e.g., manufactured treatment device, or a catch basin hood, that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:

A rectangular space four and five-eighths inches long and one and one-half inches wide;

or

A bar screen having a bar spacing of 0.5 inches;

Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).

- Where flows are conveyed through a trash rack that has parallel bars with one inch (1") spacing between the bars, to the elevation of the water quality design storm as specified in N.J.A.C. 7:8; or
- Where the Department determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet the standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

New Jersey Department of Environmental Protection
Division of Watershed & Land Management
Bureau of NJPDES Stormwater Permitting

RESPONSE TO COMMENTS

Comments were received on the draft NJPDES Master General Permit No. NJ0141887 issued on August 23, 2024. The 30-day public comment period began on August 22, 2024, when the Public Notice was published in the Atlantic City Press. The Public Notice was also published in the Star Ledger, and The Times on August 21, 2024. The public comment period ended on September 24, 2024, at the close of the Public Hearing on the draft permit. The following person[s] commented on the draft permit:

1. Jolyn Mitchell, CPWM, Assistant Superintendent of Public Works, Salem County, in a letter dated September 23, 2024.
2. Chris Sotiro, Policy and Program Coordinator, New Jersey Future, in a letter dated September 24, 2024.
3. Bill Koppenaar, P.E., Administrator, Department of Engineering & Planning, Sussex County in a letter dated September 24, 2024.
4. Environmental Protection Agency in a letter dated September 30, 2024.

General Comments

1. COMMENT: The NJDEP may not fully understand or be aware of the challenges faced by local and county government agencies in the ongoing demands placed on these entities as it pertains to the day-to-day operations of a transportation system.

The Highway Agency General Permit encompasses but one of the many requirements borne by these local and county government entities. Locally, these agencies face ever more complex and difficult rules, regulations and requirements which are assigned to a very limited contingent of staffing professionals and public workers. It becomes unattainable when these rules and regulations continue to expand and increase the burden of compliance expectations on the limited resources of the local agencies. Local agencies facing a myriad of competing needs and demands always find themselves in a position of prioritizing the allocation of very limited resources toward both regulatory and highway safety demands.

Compounding this difficulty are a variety of factors which serve to hinder the expansion of work production to meet the expanding needs and expectations. While the Permit goals & objectives may be beneficial it appears lost that the local agencies tasked with meeting these regulatory requirements are faced with significant hardships when working to meet these expectations. Continued expansion of permit requirements represents a significant burden to the agency and local citizens.

Resources should be made available at the state level to assist local agencies with the implementation of these permits and expansion of the basic requirements stipulated therein. Resource needs include both professional subject matter experts, professionals to augment development of permit programs, and funding to implement programs. [3]

RESPONSE 1: The Department acknowledges the commentor's concerns and need for resources to comply with the requirements in this renewal permit and has developed many resources to assist MS4 permittees with meeting the requirements of the permit, as explained further below.

However, as explained on page 48 of the draft permit fact sheet, most of the surface waters in the State are impaired for at least one pollutant and the existence of the impairments places the need to improve water quality on the existing dischargers to those waters. In many of the waters there are no other discharges into these waters other than municipal stormwater. In addition, many areas of the State experience stormwater related flooding which can be alleviated through the implementation of proactive stormwater facilities' maintenance programs. Requirements to

address water quality impairments and to perform stormwater facility maintenance are not new and have been included in previous MS4 permits, including the Highway Agency Permit.

In order to assist permittees with various aspects of permit compliance, the Department has developed a variety of resources for MS4 permittees (as noted below), and will continue to develop new resources according to need and as Departmental resources are available. Specifically, the Department currently provides the following resources:

- The free-of-charge 12-hour Stormwater Management Design Reviewer Course (SWMDR) for stormwater management design reviewers twice per year,
- Stormwater rule amendment training (when needed) to address amendments to the Stormwater Management rules, within one year of the effective date of any rule amendments,
- Multiple employee and municipal board and governing body members training videos,
- Stormwater Program Coordinator (SPC) training,
- SPC Technical Training for assistance meeting the MS4 Infrastructure Map and Watershed Improvement Plan (WIP) requirements.
- A free to use mapping application, templates, available one-on-one direct technical assistance, and guidance and training for using the available tools. This training is offered either in person or virtually, upon request of the permittee, to assist with the mapping of the permittees' stormwater infrastructure.
- Direct technical assistance for the dedicated stormwater webpage development. See https://www.nj.gov/dep/dwq/msrp_outreach_material.htm for examples and contact information.
- A wide range of guidance manuals, model regulatory mechanisms, forms and template materials which are available at https://www.state.nj.us/dep/dwq/msrp_home.htm.

The Department is also preparing updates to the Highway Agency guidance documents, forms, and templates, etc. which will be available following the renewal of this permit. Once these documents are completed, the Department will email the permittees' SPCs and post them on its website at <https://dep.nj.gov/njpdcs-stormwater/municipal-stormwater-regulation-program/highway-agency-stormwater-permit/>.

As a continual effort to prepare guidance and assistance to our permittees, the Department has created a WIP Guidance Webpage that may be accessed at <https://dep.nj.gov/njpdcs-stormwater/municipal-stormwater-regulation-program/watershed-improvement-plan-resource-page/>. This webpage hosts the most updated guidance and tools that the Department has prepared for the creation and implementation of permittees' WIPs. Additionally, the webpage hosts the Department's newest free web-based application, titled New Jersey Watershed Evaluation Tool (NJ-WET). This easy-to-use tool aggregates all of the most updated public stormwater data and other data required to be included in the permittee's WIP. The tool is hosted by the Department as an interactive map that allows users to view permittee specific data, create PDF maps, and extract permittee specific data. The following data layers are available through NJ-WET: TMDLs, HUC 14s, Water Quality Impairments, Surface Water Quality Classifications, and Impervious Areas. Templates for each phase of the WIP will be added to the website as they are developed. Once the WIP templates are completed, the Department will email the permittees' SPCs and post them on the website. The Department will also offer a 30-day informal comment period for permittees and other stakeholders to review the WIP template for Highway Agencies and provide suggested changes, etc. Permittees will also be notified via email when the final version of the template is posted online. While the Department will offer a specific 30-day informal comment period for the WIP template, informal comments or suggestions for improvements are always welcomed and may be emailed to StormwaterManager@dep.nj.com.

The Department is continually looking to provide financial assistance to its permittees to aid in permit compliance. The Department is currently finalizing a funding program to aid county MS4s in developing their stormwater infrastructure maps. Counties also have the ability to establish a regional stormwater utility that would generate money from fees to be used for implementing their stormwater program. Permittees also have the ability to access low to zero interest loans to implement stormwater management projects through the NJ Water Bank.

The Department encourages neighboring Highway Agencies to work together with neighboring municipalities, other Highway Agencies, and/or Public Complexes to develop more regional approaches to improving stormwater quality and reducing stormwater-related flooding as these approaches can include shared services among two or more permittees to reduce each individual permittee's cost burdens in complying with permit requirements.

No changes have been made to the final permit as a result of this comment.

2. COMMENT: Ensuring the Implementation of Green Infrastructure

New Jersey Future (NJF) regards green infrastructure as an integral stormwater management practice that achieves co-benefits for the economy, society, and climate mitigation. The Department should prioritize nature-based solutions to stormwater runoff, like green infrastructure. We recommend NJDEP to encourage green infrastructure and the maintenance of these projects throughout the permit. NJDEP should:

- Require coordination with local and county Complete and Green Streets policies and ordinances. Development and redevelopment projects should take every opportunity to incorporate green streets elements to manage stormwater, such as permeable pavement, tree pits, and bioswales where applicable.
- Require collaboration on Complete and Green Streets projects with relevant local entities, such as municipalities, counties, and state agencies. Redevelopment and capital improvement projects should seek to coordinate efforts with *Working for Smarter Growth...More Livable Places and Open Spaces* overlapping infrastructure upgrades, such as lead service line removals, to save both time and money for all parties involved.
- Require permittees to address approved Total Maximum Daily Loads (TMDLs) through green infrastructure and prioritize maintenance and repairs in those areas.
- The New Jersey Department of Transportation's (NJDOT) current Complete Streets policy has not been updated since 2009 and does not include green infrastructure requirements. The policy should be updated by incorporating language from the 2019 Complete and Green Streets Model Policy. [2]

RESPONSE 2: The Department agrees that green infrastructure is an integral stormwater best management practice that achieves co-benefits for the economy, society, and climate mitigation. Accordingly, the Department included a requirement in amendments to the Stormwater Management rules at N.J.A.C. 7:8 which were adopted in March of 2020 that new major development and redevelopment must implement green infrastructure best management practices, unless a waiver is granted in accordance with the rules.

However, requiring permittees to coordinate with local and county Complete and Green Streets policies and ordinances, and requiring permittees to collaborate on Complete and Green Streets projects with local municipalities, counties, and state agencies, is beyond the scope of this permit renewal. In addition, requesting that the New Jersey Department of Transportation (NJDOT) update its current Complete Streets policy is also beyond the scope of this permit renewal action.

Requiring permittees to address approved TMDLs through green infrastructure and to prioritize maintenance and repairs in those areas for over 600 TMDLs, which are covered in 50 TMDL documents for pollutants which include pathogens, total phosphorus, mercury, PCBs, and various other pollutants is not always possible or advisable. There may also be numerous other more cost effective strategies, including source reduction and other types of structural BMPs, for reducing pollutant loading. While green infrastructure BMPs may be a viable option, the Stormwater Management rules as noted above specifically only require green infrastructure BMPs for new major development and redevelopment.

Additionally, the Watershed Improvement Plan (WIP) is a new requirement in this permit renewal, included as Part IV.H. of the permit, and the goal in instituting a WIP is to make reasonable progress towards restoring water quality in the impaired waters of the state, including those waters with adopted/approved TMDLs. In the first phase of the

WIP, the permittee shall summarize and include the area associated with each TMDL, and water quality impairment, for waters that lie within or bordering the Highway Agency owned or operated property, including roadways, access roads, ramps, rest areas, maintenance yards, and all other ancillary operations.

The second phase of the WIP must include an assessment of potential water quality and quantity improvement BMPs to be implemented at all permittee owned or operated maintenance yards, ancillary operations, and rest areas by subwatershed and parameter and an estimate of the percent reduction in loading of the TMDL/impaired parameters and stormwater runoff quantity due to those BMPs.

The third phase of the WIP shall include a summary of proposed locations and load reductions of water quality and quantity improvement BMPs to be implemented at permittee owned or operated maintenance yards, ancillary operations, and rest areas.

It is important to note that permittees are only required to complete an assessment of percent reduction in loading, funding needs, and implementation schedules for potential BMPs to be implemented at permittee owned or operated maintenance yards, ancillary operations, and rest areas due to the large number of roadways, access road, and ramp miles typically owned or operated by Highway Agency permittees. The impacts from stormwater generated from roadways, access roads, and ramps owned or operated by the permittee are to be addressed during all future capital improvement projects, which may trigger the green infrastructure BMP requirement in the aforementioned Stormwater Management rules at N.J.A.C. 7:8. In order to assist permittees with choosing appropriate BMPs for future capital improvement projects that properly address the TMDLs/impairments in the permittee's corresponding HUC14s, a summary, or library, of those BMPs are to be included in the permittees' WIPs. The Department has created a stormwater project matrix to assist permittees with selecting the appropriate BMPs. The project matrix and a project summary can be found on the Department's website <https://dep.nj.gov/njpdcs-stormwater/municipal-stormwater-regulation-program/watershed-improvement-plan-resource-page/>.

Finally, as for prioritizing maintenance and repairs of green infrastructure projects, Part IV.F.3.a. of the permit requires the permittee to develop, update, and implement a program to ensure adequate long-term cleaning, operation, and maintenance of all stormwater facilities owned or operated by the permittee to restrict pollutants from entering the waters of the State, to eliminate recurring problems, and maintain proper function. Green infrastructure is a category of "stormwater facility" and is adequately covered under Stormwater Facility Inspection, Cleaning, and Maintenance in Part IV.F.3.h. of the permit.

No changes have been made to the final permit as a result of this comment.

3. COMMENT: Step Up Permit Enforcement

While not explicitly outlined in the permit, NJDEP will need to be proactive and consistent in its enforcement of permittees to ensure compliance. In the Draft Permit's Fact Sheet, it is noted that most permittees during the last cycle did not include their TMDLs in their Stormwater Pollution Prevention Plan (SPPP) despite the requirement to do so in the 2020 permit. To ensure full compliance with the permit, NJF advises NJDEP to increase the staff capacity of the compliance and enforcement unit in Water Resource Management. Compliance audits should include an initial education and support component where highway agencies that are found to be lacking are then required to complete hands-on training that would help them come into compliance. [2]

RESPONSE 3: The Department acknowledges the commenter's concerns regarding enforcement of permit requirements and the need for effective training for permittees and their employees, however, staff capacity and compliance and enforcement activities are outside the scope of this permit renewal.

The renewal permit now requires the Stormwater Program Coordinators (SPCs) of Highway Agencies to complete the mandatory SPC Training, which is offered at least twice per year at no cost to attendees. An entire segment of this training is devoted to the requirements of the Watershed Improvement Plan (WIP) and provides links to online resources.

No changes have been made to the final permit as a result of this comment.

4. COMMENT: It appears many of the sections have expanded and have defined repair requirements. Target timeframes could be identified but should not be established as set standards. The County should be able to develop and control the best management of transportation structure maintenance including prioritization in consideration of available resources, complexity of projects, right-of-way, permitting needs, materials, engineering and competing needs. [3]

RESPONSE 4: The Department acknowledges the commentors concerns about defined repair requirements and associated repair schedules in the renewal permit. The Department recognizes that repair schedules may vary depending on the complexity and cost of the project and acknowledges that often, the necessary repairs may not be able to be completed within the timeframes required by the permit. Part IV.F.2.n. (Roadside Erosion Control) and Part IV.F.3. (Inspection and Maintenance of Stormwater Facilities Owned or Operated by the Permittee) require 90-day and 30-day repair schedules respectively.

As discussed in the 2023 Tier A MS4 permit renewal, all MS4 permittees have been required to certify annually in the Annual Reports that all their stormwater facilities were functioning properly. However, through enforcement inspections, compliance assistance audit and numerous complaints, the Department has discovered that the cleaning, maintenance and repairs that are necessary for stormwater facilities to operate properly as designed has been noticeably lacking. The lack of cleaning, maintenance and repairs of stormwater facilities ultimately leads to increased flooding causing public safety issues, as well as the discharge of pollutants to waterbodies of the State.

The Department maintains that ensuring proper maintenance is not a new requirement and the enhanced requirement to perform repairs within certain timeframes is a progression of the requirement to ensure proper operation and maintenance, with the added language in compliance with the Federal NPDES MS4 rules at 40 CFR 122.34(a) which state that MS4 permit conditions be expressed in “clear, specific and measurable terms” which EPA has also commented on in various previous draft MS4 General Permits. The Department also maintains that this requirement is consistent with the intent of the federal MS4 program’s pollution prevention requirements at 40 CFR Part 122.34(b)(6). Additionally, since the adoption of the 2023 Tier A permit, no permittee has requested an alternative timeframe to complete necessary repairs. Therefore, the Department has no reason to believe that these proposed timeframes cannot be met for the most common level of repairs.

Further, in recognition that some repairs may be more complicated and require additional time, it should also be noted that the Department included a provision in the renewal permit for permittees to request extensions of the original time frames. As such, the Department maintains that the standard timeframes allotted in the renewal permit are sufficient and provide flexibility to the permittee should repairs not be feasible within the indicated timeframe.

No changes have been made to the final permit as a result of these comments.

5. COMMENT: EPA suggests NJDEP includes page numbering consistent with previous finalized permits (i.e., Page XX of YY) for the public’s and permittee’s ease of reference. [4]

RESPONSE 5:

The Department understands EPA’s concerns regarding ease of reference within the permit.

The Department has added page numbers consistent with previous finalized permits in the final version of the permit.

Permit Section II: General Requirements: Discharge Category

6. COMMENT: Regarding Part II.A.1.iv, is the rule cited consistent with the SCOTUS July 2024 decision in overturning chevron deference?

Court Case NJ-22-451, 603 U.S. (2024)

Relentless, Inc. vs. Department of Commerce, No. 22-12-19 [1]

RESPONSE 6: N.J.A.C. 7:14A-16.4(b)21 and N.J.A.C. 7:14A-25.7(b) are two rules that have been governing the MS4 permits since their inception in New Jersey in 2004.

The US Supreme Court Case referenced only applies to federal statutes/agencies and does not apply to state agencies or to this permit for several reasons.

First, the case referenced relied on language within the federal Administrative Protective Act regarding judicial review, but New Jersey Administrative Procedure Act does not contain similar language. Second, the case involved statutory interpretation, rather than regulatory interpretation, as here. The Department notes that it is well-settled in New Jersey that agencies receive deference on their regulatory interpretation not only due to the agency's technical expertise, but also because the agency wrote the rule, so it is in the best position to interpret the rule's meaning.

Third, the Department would like to note that a comment on a draft permit is not the correct place to challenge the New Jersey Administrative Code; rule challenges occur in the Appellate Division.

No changes have been made to the final permit as a result of this comment.

7. COMMENT: Please remove “including the washing of fire fighting vehicles” as this language is not included as an authorized discharge under the current Highway Agency permit. [4]

RESPONSE 7: As the Department has previously stated in the response to comments for the 2020 Highway Agency General Permit and the 2018 Tier A Municipal Stormwater General Permit, the Department does not consider the washing of firefighting vehicles to be a significant source of pollutants to MS4 discharges and is a necessary measure undertaken to ensure their proper operation, thus fitting into the category of “firefighting activities.” However, since this type of non-stormwater discharge is not applicable to Highway Agencies the Department agrees to remove the language that authorizes the “washing of fire fighting vehicles” from the final permit

This change affects Part II.C.2.b.viii of the final permit.

8. COMMENT: Flows from clean water rinsing of beach maintenance equipment and flows from clean water rinsing of equipment and vehicles used in the application of salt and de-icing/anti-icing materials are identified as authorized stormwater discharges. The aforementioned categories are not included in 40 CFR § 122.34(b)(3)(ii). [4]

RESPONSE 8: As the Department has previously stated in the response to comments for the 2020 Highway Agency General Permit, the categories of non-stormwater discharges at Part II.C.2.b.ix – xi are not additions and were included in the 2020 Highway Agency permit at Part II.C.2.b.ix - xi and in the 2009 permit at Part I.A.2.d.ix. The Department considers clean water rinsing of beach maintenance equipment and equipment and vehicles used in the application of salt and de-icing materials a necessary measure undertaken to ensure their proper operation and not to be significant source of pollutants to MS4 discharges when done in accordance with Part II.C.2.b.ix–xi of the permit.

No changes have been made as a result of this comment.

9. COMMENT:

The term RFA has previously been defined at Part II.B.2.a. EPA suggests NJDEP update the paragraph to “Any permittee that has stormwater discharges associated with industrial activities shall submit a separate ~~Request for Authorization~~ (RFA) or individual permit application for that discharge.” [4]

RESPONSE 9: The Department thanks EPA for their suggestion and has removed “Request for Authorization” from Part II.C.3.a.ii of the final permit.

This change affects Part II.C.3.a.ii of the final permit.

Permit Section IV.A.2. Stormwater Pollution Prevention Plan (SPPP) Requirements

10. COMMENT: The proposed permit renewal identifies the agency's SPPP must be updated within 6 months of EDPA. Consider modifying the timeframe to EDPA + 12 months. This would coincide with the next annual update and certification and thereby reduce demands on already stretched staffing resources. [3]

RESPONSE 10: The Department understands the commenters' concerns regarding resources needed to update the SPPP and will be providing an updated version of the SPPP template to follow this renewal permit to assist permittees with meeting this permit requirement.

The Department anticipates this updated SPPP document to be finalized shortly, and permittees will be notified via email when the final version of the SPPP, as well as the other guidance materials, forms, and templates are available on the website. Also note that the SPPP is not intended to be a technical engineering document, but rather a plainly worded document that describes the measures the permittee is taking to comply with their permit and can also be used to educate employees on their job responsibilities. Also, as compliance is not required with any significantly modified or new permit requirements until later in the permit term, the SPPP does not need to reflect those requirements until they become effective.

Permittees are also encouraged to contact their county case managers with any questions regarding completing their SPPPs, as well as any other MS4 permit-related questions. See https://www.nj.gov/dep/dwq/msrp_managers.htm to obtain the name of your respective case manager.

The 2020 Highway Agency permit required permittees to create, review annually, and update as often as necessary to reflect changes in their stormwater program, a SPPP. Permittees should already have an up-to-date SPPP that reflects their current stormwater program and therefore should only need to update their SPPP to reflect any new requirements in the permit. Therefore, the Department maintains that EDPA + 6 months is an adequate amount of time for permittees to update their existing SPPP to meet the requirements of the renewal permit.

No changes have been made to the final permit as a result of this comment.

Permit Section IV.C.1. Local Public Education and Outreach

11. COMMENT: This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. If newly required by all Highway Agencies, not just owners of rest stops, Salem County would suggest alternative and creative options that wouldn't burden the taxpayers. [1]

RESPONSE 11: The Department acknowledges the commentors' concerns related to completing the local public education and outreach requirements for all permittees, not just those Highway Agencies with rest stops.

The Department has updated "Attachment A – Points System for Public Education and Outreach Activities" to include a multitude of activities, including ones that can be accomplished digitally and do not require additional funding. There are many flyers and handout templates on the Department's website for permittees to use, free of charge. In an effort to provide increased flexibility to permittees that do not own or operate rest areas or service areas, the Department included in the renewal permit the ability for permittees to develop their own public education and outreach activities not included in Attachment A of the permit, provided that those activities are submitted to the Department for review and approval prior to being conducted.

This permit requirement is due annually and therefore, the permittee may take the entirety of the year, beginning from the effective date of the permit authorization, to implement their new or updated public outreach and education program. If any costs are involved, those costs can be spread out through the calendar year. Since public outreach

and education is already being conducted by all Tier A permittees across the state, Highway Agency permittees may choose to work with neighboring municipalities to implement their program. This could potentially save time and cost, depending on the types of activities that were chosen.

No changes have been made to the final permit as a result of this comment.

12. COMMENT: EPA suggests NJDEP consider modifying the section to read: “Annually conduct activities that total at least 7 points as set forth in Attachment A (Point System for Public Education and Outreach Activities) of this permit.” Adding the clarification language to this permit condition will make it readily clear to the permittee and public where to find applicable activities, including activities that will meet the requirement to educate businesses, and the general public of hazards associated with illicit connections and improper disposal of waste. EPA recognizes that Part IV.C.1.a.iv cites Attachment A in the context of conducting public education and outreach activities not listed in Attachment A; however, EPA suggests also stating Attachment A in Part IV.C.1.a.i so that it is clear to the public and permittee where the list of approved public education and outreach activities are identified. [4]

RESPONSE 12: The Department agrees with EPA regarding their suggestion and has added “as set forth in Attachment A – Point System for Public Education and Outreach Activities” to Part IV.C.1.a.i for clarity.

This change affects Part IV.C.1.a.i of the final permit.

Permit Section IV.D.1. Construction Site Stormwater Runoff

13. COMMENT: The County of Salem does not have the necessary manpower to enforce this section as it currently outlined and enforced at the local level. Salem County is requesting clarification of “Construction Site” as referenced in this section. [1]

RESPONSE 13: This requirement regarding Construction Site Stormwater Runoff in the permit renewal has been a permit requirement since the 2004 Highway Agency permit and has simply been carried forward from the existing 2020 Highway Agency permit.

The Department maintains a separate general stormwater permit to address stormwater runoff associated with construction activities (5G3), as identified in Part IV.D.1 of the permit to satisfy the requirement. This 5G3 general stormwater permit authorizes stormwater discharges to surface water from certain construction activities, including clearing, grading, and excavation (generally, construction activities that disturb one acre or more of land, or disturb less than one acre but are part of a larger plan of development or sale), as described in the Stormwater Management Rule, N.J.A.C. 7:8.

The Department would also like to note that the local soil district offices are responsible for administering this permit in partnership with the NJDEP. It is the permittee’s responsibility to ensure that projects undertaken by the permittee, or those that occur within the permittee’s jurisdiction, obtain the proper 5G3 permit authorization but are not required to issue, review, or enforce the requirements of the 5G3 general permit.

No changes have been made to the final permit as a result of this comment.

Permit Section IV.E.1. Minimum Standards for Post Construction Stormwater Management in Development and Redevelopment

14. COMMENT: Maintaining Consistency with Stormwater Management Rules Amendments:

NJF commends the Department for its efforts to maintain consistent language between the draft permit and proposed amendments to N.J.A.C. 7:8 Stormwater Management Rules.

- Regarding Part IV.E.1 of the renewal permit, “Minimum Standards for Post-Construction Stormwater Management in Development and Redevelopment,” the definition of major

development should be updated to reflect anticipated amendments to N.J.A.C. 7:8-5.5 Stormwater Runoff Quality Standards.

- As written, the permittee’s post-construction stormwater management program would apply to major developments, including “new development and redevelopment projects that individually or collectively result in [...] the creation of one-quarter acre or more of a combination of ‘regulated impervious surface’ and ‘regulated motor vehicle surface’ that are owned or operation by the Highway Agency”.
- Through the Department’s Resilient Environments and Landscapes (REAL) rule proposal, N.J.A.C. 7:8-5.5 Stormwater Runoff Quality Standards now require water quality treatment for redeveloped motor vehicle surfaces, even if there is no net increase of one-quarter acre. [2]

RESPONSE 14: The Department acknowledges the commenter’s support for the Department’s efforts to maintain consistent language between the permit and proposed amendments to the N.J.A.C. 7:8 Stormwater Management rule.

In Notes and Definitions Part IV.B.1.a.xiv, the renewal permit states that, “‘Major Development’ means a major development as defined in N.J.A.C. 7:8.” Part IV.E.1.b states that, “The permittee shall ensure that its stormwater management program addresses stormwater runoff from ‘major development’ as defined in the Stormwater Management rules at N.J.A.C. 7:8.” Since the definition in the permit does not specifically define “major development” but instead refers the definition found in N.J.A.C. 7:8, when the rule amendments are adopted, the permit will immediately be referencing the updated definition.

In regard to the NJPACT REAL rule proposal, Part IV.E.1.a, b, c, and e of the renewal permit all reference the requirements at N.J.A.C. 7:8 and do not specifically define those requirements in the permit. Therefore, once the amendments to N.J.A.C. 7:8 are adopted, the permit requires permittees to immediately address those amendments in all projects thereafter.

No changes have been made to the final permit as a result of this comment.

Permit Section IV.F.2. Pollution Prevention/Good Housekeeping

15. COMMENT: Quarterly Street Sweeping – This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. As a rural county with miles of roadway constructed without curb, gutter or storm sewers; this mandate is excessive. Salem County would suggest alternative options to address organic material and would suggest consideration for approval of a unique/county specific plan to accommodate the goals of the permit. [1]

16. COMMENT: Triannual Street Sweeping – This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. As a rural county with miles of roadway constructed without curb, gutter or storm sewers; this mandate is excessive. Salem County would suggest alternative options to address organic material and would suggest consideration for approval of a unique/county specific plan to accommodate the goals of the permit. [1]

17. COMMENT: Annual Street Sweeping – This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. As a rural county with miles of roadway constructed without curb, gutter or storm sewers; this mandate is excessive. Salem County would suggest alternative options to address organic material and would suggest consideration for approval of a unique/county specific plan to accommodate the goals of the permit. [1]

18. COMMENT: Sweeping should include a provision for the county's inspection and sweep only if needed. Why expend resources sweeping if the facility has been inspected and determined clean? [3]

RESPONSE 15-18: The Department acknowledges the commentors' concerns related to permit requirements for street sweeping. Street Sweeping has been a permit requirement since the 2004 Highway Agency permit. The sweeping requirements proposed in this permit renewal carry forward the language from the 2020 Highway Agency permit without change. These requirements continue to meet the reduction/elimination of solid and floatable materials requirement in the Federal MS4 rule at 40 CFR 122.34(b)(6)(ii) and N.J.A.C. 7:14A-25.6(b)6.

The regulatory basis for the street sweeping requirements in this renewal permit and past permits is noted in the draft permit Fact Sheet. In the Background section of the Fact Sheet, which begins on page 44, it is explained that the majority of the surface waters, in terms of subwatersheds, in the State are documented in the Department's "Integrated Water Quality Assessment Reports" as being impaired for one or more stormwater related pollutants. Further, the "Clean Stormwater and Flood Reduction Act" notes that it is "estimated that up to 60 percent of the State's existing water pollution is attributable to stormwater and nonpoint sources of pollution."

Many pollutants are associated with the solid and floatable materials that street sweeping removes from the road's surfaces. For example, oils, metals, and other pollutants from normal vehicle wear and tear become deposited on the roads and adhere to the materials removed by street sweeping. These pollutants can kill fish and other aquatic life and contaminate drinking water supplies. Leaves and grass clippings that accumulate along the gutters of roads also contribute pollutants to surface and ground waters as they decompose and are washed along into the storm sewer system, contributing to harmful conditions in the surface waters.

The Department reviewed the surface water quality impairments and TMDLs in the Integrated Report, as noted in the Fact Sheet, when preparing this permit renewal and found that water quality impairments associated with these types of pollutants are present across the State. As these materials are present on all types of roads in the State, removing these materials and their associated pollutants from the roads before they are conveyed further through the storm sewer system is an effective pollution reduction measure designed to restore the surface water quality to meet the Surface Water Quality Standards at N.J.A.C. 7:9B, and is a necessary cleaning measure to ensure the proper operation of the MS4s.

No changes have been made to the final permit as a result of these comments.

19. COMMENT: EPA suggests NJDEP add a requirement that permittees identify/document streets that meet the different frequencies to assist in implementation of this requirement. As permittees were required to implement the enhanced sweeping requirements as part of the 2020 MS4 permit, EPA believes it should not be a burdensome requirement and will further assist permittees in ensuring specified categories of streets are being swept in accordance with the frequencies identified in the permit. EPA suggests including the following statement "The permittee shall maintain records of street sweeping, including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons" for quarterly, triannual and annual sweeping as specified in Part IV.F.2.d, e., and f. [4]

20. COMMENT: Storm Drain Inlet Retrofitting: EPA suggests NJDEP include a requirement for permittees to maintain records of which inlets have been Retrofitted. [4]

21. COMMENT: Storm Drain Inlet Installation: EPA suggests NJDEP include a requirement for permittees to maintain records for new storm drain inlet installations due to construction that is not considered a major development as defined by N.J.A.C. 7:8. [4]

22. COMMENT: Roadside Erosion Control: As NJDEP states "inspections of roadways, ramps, and parking areas shall occur at least once per year;," EPA suggests also specifically requiring an on-site log sufficient to demonstrate compliance with this section and specifying what should be included in the log, at a minimum and state the log must be kept with the SPPP. [4]

RESPONSE 19-22: The Department acknowledges EPA's concerns related to demonstrating compliance with the requirements for Good Housekeeping. However, this information is already required to be collected as per the Recordkeeping requirements in the permit at Part IV.J.

Additionally, the permittees are also required to submit some of this information to the Department in their Annual Reports. All recordkeeping information is also required to be made available by the permittee upon request. Also, in Part IV.F.2.p, the permit states that, "the permittee shall maintain a log sufficient to demonstrate compliance with this section". This requirement applies to street sweeping, inlet inspection, roadside erosion and all other requirements in the Good Housekeeping section of the permit.

In the SPPP template provided by the Department, permittees are asked to label each street under their jurisdiction that corresponds with the quarterly, triannual and annual requirements. In the annual report, permittees are asked if all the required streets were swept, the total miles swept, and the total amount of materials collected in tons. Additionally, logging which inlets have been retrofitted and any new storm drain installation is required to be documented in the infrastructure maps that must be submitted to the Department.

The Department maintains that the current requirements for monitoring and documenting street sweeping, inlet retrofitting and installation, and roadside erosion control activities are adequate.

No changes have been made to the final permit as a result of this comment.

23. COMMENT: Storm Drain Inlet Retrofitting – This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. Salem County would suggest that retrofitting continue to be met throughout resurfacing of roadway projects and additional time be permitted to complete all retrofitting. As the draft requirement is proposed, this places a cost of \$600,000 over the next 5 years solely in retrofitting storm drain inlets. [1]

RESPONSE 23: The Department understands the commenters' concerns regarding the increased costs for some permittees due to the revised storm drain inlet retrofitting requirement, and notes that this requirement pertains to the storm drain inlets, not the catch basins located below the inlet.

The Department maintains that the requirement for permittees to retrofit all remaining permittee owned or operated storm drain inlets to meet the standards set forth in Attachment B by EDPA + 59 months is appropriate. Permittees have been required to retrofit any storm drain inlets that come in contact with repaving activities since the first iteration of the MS4 general permits in 2004. The Department anticipates that the percentage of inlets that permittees will need to retrofit (outside of those that are in non-compliance of the existing requirement during repaving, etc.) is relatively low since permittees have been working on retrofitting their storm drain inlets that were associated with repaving projects for approximately 20 years. By the compliance date of December 1, 2029, permittees will have had 25 years to complete the inlet retrofits, which is generally longer than the estimated average lifespan of a paved road. It must also be noted that retrofitting most storm drain inlets can be accomplished with relatively minimal cost by bolting a bar, plate, or grate over the large curb opening, which is a much less costly option than replacing the entire inlet structure.

One of the main purposes of retrofitting the storm drain inlet openings is to reduce the size amount of solid and floatable materials that can pass through the inlet, so those materials are not transported through the storm sewer system to the surface waters. Reducing the size of these materials also has another important, and cost saving, purpose which is to prevent those materials from accumulating in the storm sewer and causing backups of flow and flooding. Removing these materials from the stormwater before they enter the downstream parts of the system is less costly overall as it will reduce the incidents of catch basin and conveyance system cleaning which usually requires heavy machinery to remove the storm drain inlet in order to gain access to the infrastructure below so a vacuum truck can extract the accumulated material.

The renewal permit retains “Exemptions from the Design Standards” in Attachment B – Design Standards for Storm Drain Inlets to continue to provide permittees appropriate flexibility regarding the inlet retrofits.

No changes have been made to the final permit as a result of this comment.

24. COMMENT: NJF supports the requirement to retrofit all applicable storm drain inlets by the end of the permit’s 5-year cycle. [2]

RESPONSE 24: The Department acknowledges the commenter’s support for the requirement to retrofit all applicable storm drain inlets by the end of the permit’s 5-year cycle.

No changes have been made to the final permit as a result of this comment.

25. COMMENT: Storm Drain Inlet Installation – This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. By placing this mechanism in a storm drain inlet, it increases manpower needs to ensure flow is possible through an inlet grate. Compliance with this requirement will contribute to additional flooding. Additional flooding will adversely affect emergency evacuation routes established for the nuclear power generating station located in Salem County. [1]

RESPONSE 25: The Department notes that this is a new condition not included in the 2020 Highway Agency permit. This requirement applies to the installation of new storm drain inlets and is not a requirement to begin retrofitting existing storm drain inlets. This requirement is being added in the renewal permit to reduce the amount of solid and floatable material being discharged into the receiving waters and to meet the reduction/elimination of solid and floatable materials requirement in the Federal rule at 40 CFR 122.34(b)(6)(ii).

Additional costs should be minimal for most permittees as retrofitting existing storm drain inlets to add catch basins or other BMPs is not required. This requirement will only be triggered when permittees install new storm drain inlets that are not part of a project that meets the definition of “major development”, and the cost of installing a new storm drain inlet with a catch basin should be minimal relative to the cost of the overall improvement project and are minimal compared to the overall water quality benefit they produce.

Catch basins would only be required when there is no other BMP (such as a stormwater management basin, MTD, or downstream catch basin) located between the new storm drain inlet and the outfall and are not required to be installed on bridges or culverts. Further, storm drains are exempt from needing catch basins if the hydraulic losses will result in unavoidable adverse hydraulic impacts. If a permittee believes that installation of any catch basin pursuant to this permit requirement will result in adverse hydraulic impacts, that permittee shall document the engineering findings of such impacts and note such in the SPPP. The permittee is also required to maintain those records in accordance with Part IV.J. of the permit.

Since this permit requirement does not require permittees to immediately begin installing catch basins in existing storm drain inlets and the overall number of storm drain inlets that would be subject to this requirement is not substantial, the Department does not feel that this creates an undue burden on the permittee.

No changes have been made to the final permit as a result of this comment.

26. COMMENT: Vegetative Waste Management – If this requirement, as proposed, would require alteration to current equipment, it would place an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. [1]

RESPONSE 26: The requirement to properly manage vegetative waste was carried forward with minimal change from the 2020 Highway Agency permit. The minor rewording in the renewal permit clarifies the requirements for

the proper management of wood waste and yard trimmings in order to minimize the impact of vegetative maintenance activities on stormwater discharge quality. The requirements are also broken out in a manner that is clear and enforceable. The clarification does not add any additional requirements and will not require additional equipment or resources to be implemented. Therefore, no additional time is necessary to come into compliance.

This requirement is intended to ensure the appropriate management of materials generated from activities such as mowing, tree trimming, and wood chipping along permittee owned roads or at other properties owned or operated by the Highway Agency. This is so that these materials are not transported into the MS4 thus increasing maintenance requirements and resulting in increased costs for the permittee. This requirement is also intended to eliminate these materials from being discharged from the MS4 to surface water bodies ultimately resulting in negative impacts in those receiving waters.

No changes have been made to the final permit as a result of this comment.

27. COMMENT: Tree Replacement Management – This requirement is not consistent with Highway Agencies routine duties. Should the need arise for a tree to be removed from the property owned or operated by the permittee, it would be to protect the safety and welfare of the residents. A Highway Agency does not have the jurisdiction, responsibility or burden to maintain a tree farm including nurseries, fruit orchards, and garden centers. Furthermore, regulating removal/replacement of trees less than DBH of 4” is not consistent with various NJDEP’s Best Management Practices that Salem County is familiar with. This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. [1]

RESPONSE 27: This new permit requirement is derived from discussions with stakeholders during the 2019 Stormwater Management rule stakeholder outreach sessions. These discussions included improvements to the Stormwater Management program and the ongoing need for enhanced stormwater management strategies. Trees play a critical, often overlooked, role in the water cycle and can mitigate stormwater runoff issues. This good housekeeping requirement is intended to ensure that permittees are considering these undervalued assets in their water quality management efforts. This permit renewal requires permittees to replace certain trees in an effort to reduce stormwater runoff and pollutants, and to promote infiltration of rainwater into the soil. This requirement was also added to the 2023 MS4 Tier A permit and 2024 MS4 Public Complex permit renewals and does not require permittees to plant trees to make up for past removals.

The Department acknowledges the commentor’s statement about removing trees from their property to protect the safety and welfare of residents. The Department notes that trees of this nature would fall under the category of a “Hazard Tree” as defined in the permit and would therefore be exempt from the replacement requirement. This requirement also does not require the Highway Agency permittees to “maintain a tree farm including nurseries, fruit orchards, and garden centers” as mentioned above.

This tree replacement permit requirement would be triggered, for example, if a highway agency was undertaking a road improvement or expansion project that involved removing healthy trees that met the minimum threshold of a 2.5” DBH tree, as per Part IV.F.2.m of the renewal permit.

No changes have been made to the final permit as a result of this comment.

28. COMMENT: NJF supports the requirement that specified trees be replaced if they are removed from the property owned or operated by the permittee. [2]

RESPONSE 28: The Department acknowledges the commentor’s support for the requirement that specified trees be replaced if they are removed from the property owned or operated by the permittee.

No changes have been made to the final permit as a result of this comment.

29. COMMENT: Roadside Erosion Control – Salem County is requesting guidance/an explanation of what is expected to be included in annual inspections of roadways, ramps and parking areas. Visual inspections of roadways, ramps and parking areas are considered part of the daily operations in the Highway Agency. If annual inspections are required, what specifically would NJDEP expect to be documented?

This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. [1]

30. COMMENT: Roadside Erosion: 90-day repair should be extended if the repair is included in a programmed capital project. Some repairs will require design, permitting and possibly right-of-way. The county should be able to assess this and as appropriate develop a capital project which would not be subject to the 90-day. Additionally, project programming should be a local government determination not a NJDEP determination. [3]

RESPONSE 29-30: This permit renewal re-incorporates the Roadside Erosion Control requirement from the original 2004 Highway Agency permit. This requirement has been reintroduced in response to citizen complaints and Department inspections and observations of roadside erosion. New Jersey has approximately 35,600 miles of roads, and more highways per square mile than any other state, and erosion of or along these streets, highways, and other roads contributes suspended solids, sediment and other materials to storm sewer systems and waterways. This condition is being restored in the permit to provide additional water quality protection, and as a stormwater facility maintenance requirement, as roads are considered to be part of the permittees' stormwater conveyance systems.

The introduction of suspended solids, sediment, and other pollutants not only causes an increase in permittee costs for ditch, culvert, and catch basin cleaning to ensure proper operation and maintenance and prevent associated flooding, it is also the single largest contributor of pollution to our nation's waters. Sedimentation and the deposition of material eroded by runoff from roads and roadsides can significantly impact water quality, and when not maintained, this erosion can also convey a significant number of pollutants in the stormwater runoff. Sedimentation can also lead to a decrease in water carrying and storage capacities of streams and reservoirs, as well as destroying fish and other aquatic habitats.

The Department recognizes that permittees may be concerned that implementing this condition will incur more costs and resources and acknowledges that often the necessary road repairs may not be able to be implemented within the 90 days due to repair and cost constraints noted in the comment. The permit gives permittees the ability to provide the Department with an alternative schedule of completion within 90 days of discovery. As such, the Department maintains that the requirement at Part IV.F.2.n. is sufficient and provides flexibility to the permittee should repairs not be feasible within 90 days.

The Department also recognizes that permittees may be concerned that implementing this condition will expand the burden of inspection activities and incur more costs and resources. As stated by the commentor, visual inspections of roadways, ramps and parking areas are considered part of the daily operations. The Department reiterates that there is no requirement for permittees to schedule separate roadside erosion inspections as these inspections can occur incidental to conducting routine inspections or other activities as long as the inspections are properly documented. As such, the permittee should not incur any additional significant costs due to inspection. Permittees will be required to inspect and maintain the stability of shoulders, embankments, ditches, and soils along these streets at a minimum of once per year to ensure that they are not eroding and contributing to clogging or destabilization of stormwater infrastructure, or sedimentation of receiving waters. Any driveway, street, and parking area repairs would need to be conducted for public safety reasons, as well as to ensure the proper operations and maintenance of the stormwater conveyance system.

Logs sufficient to demonstrate compliance with this permit requirement can include, but are not limited to, the date of inspection, name of inspector, road inspected, observed instances of roadside erosion, and whether repairs are required. This information can be included on other permit related inspection logs with other information such as storm drain inlet inspections, street sweeping logs, or storm drain inlet label inspection logs.

No changes have been made to the final permit as a result of these comments.

31. COMMENT: Outdoor Refuse Containers & Dumpsters: EPA recommends NJDEP also specify that outdoor containers holding metal signs (i.e., from Highway Agency sign manufacturing shops or waste signs) be covered when not in use, at the end of each workday and before any anticipated storm event. [4]

RESPONSE 31: The temporary storage of newly manufactured signs is not believed to be a significant contributor of pollutants at this time. The majority of waste signage, which fall under the category of waste materials, would be included in the requirements in part IV.F.2.o.i. of the permit which states that refuse containers and dumpsters that are outdoors or exposed to stormwater must always be covered with a tarp, lid or under a permanent structure to prevent the contact of waste materials with stormwater unless actively being filled or emptied. Therefore, the Department feels that the permit adequately addresses the management of metal signs.

No changes have been made to the final permit as a result of this comment.

Permit Section IV.F.3. Inspection and Maintenance of Stormwater Facilities Owned or Operated by the Permittee

32. COMMENT: This requirement, as proposed, places an undue financial and staffing burden on the County. The required 30-day window would not always provide adequate time in which Salem County would be able to conduct required maintenance in house or by securing contractors via Public Contract Law procedures. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP paired with a more reasonable time frame allowed for follow-up maintenance. [1]

33. COMMENT: The 30-day repair timeframe for outfall condition should be extended to 90 days. Additionally, some repairs will require design, permitting and possibly right-of-way. The county should be able to assess this and as appropriate develop a capital project which would not be subject to the 90-day timeframe. Additionally, project programming should be a local government determination not a NJDEP determination. [3]

RESPONSE 32-33: The Department recognizes the commenters' concerns regarding the requirement to complete structural repairs on outfalls within 30 days of investigation. However, the requirement to ensure that the permittee's stormwater facilities are functioning properly has been a requirement since the 2004 Highway Agency permit. This requirement exists so that permittees discover and address problems with any storm drain inlets, outfalls, catch basins and other stormwater facilities in a timely manner to avoid adverse water quality and/or quantity impacts, and to avoid more costly repairs if the stormwater facilities continue to deteriorate. When they are identified early, these problems may be fixed through minor maintenance and cleaning activities, before they require costly repair and replacement, or result in damaging flooding, injuries or pollutant discharges.

While the permit renewal requires a timeframe of 30 days for corrective maintenance and repairs, the permit gives permittees the ability to provide the Department with an alternative schedule of completion within 30 days of investigation. As such, the Department maintains that the requirement at Part IV.F.3.b.v. is sufficient and provides adequate flexibility to the permittee should maintenance and repairs not be feasible within 30 days.

No changes have been made to the final permit as a result of these comments.

34. COMMENT: Stormwater Outfall Inspections and Maintenance for Illicit Discharge Detection and Elimination): EPA suggests removing the word "of" from beginning of sentence, so the requirement reads as "Document of all outfall inspections, ..." [4]

RESPONSE 34: The Department thanks EPA for their suggestion and has made the suggested change.

This change affects Part IV.F.3.d.viii of the final permit.

Permit Section IV.F.4. Best Management Practices at Maintenance Yards and Other Ancillary Operations

35. COMMENT: Bulk Liquid Storage: Secondary Containment – this needs to be clarified if the expansion applies to new & existing de-icing tanks or only new de-icing tanks. Additionally, construction or providing for secondary containment can require advanced site plan designs, permitting, costs and budget allocations. An EDPA + 12 months will not provide ample time for agencies with multiple locations and storage tanks, nor will it provide for the budgeting component. The permit should identify a priority for compliance, e.g. possibly based upon the liquid stored, along with a percentage of system completion based upon the number of tanks in operation. Additionally, for existing serviceable tanks this should be enforced as part of a system upgrade or replacement. Specific budget requests will require a minimum of EDPA + 18 months for the funding to even be allocated. Once funding is allocated the design, bidding/purchase and construction can occur. [3]

RESPONSE 35: The Department recognizes the commenters' concerns regarding the addition of bulk liquid storage BMPs. This is a new requirement for Highway Agency permittees. Secondary containment for containers utilized in the normal course of storage, transfer, or use of bulk liquids is necessary for preventing leaks and spills from becoming illegal discharges to the MS4 system or directly to surface or ground water. Secondary containment is also required to hold leaks and leakage where they can be cleaned up and removed prior to their discharge into groundwater, or surface waters of the State.

Secondary containment for any existing bulk liquid material storage may include concrete blocks, so long as they are leak- proof, hold 110% of the capacity of the tank, and are on an impervious surface. Since the requirement for secondary containment is limited to new and existing above ground storage tanks containing bulk liquid materials (including but not limited to gasoline, diesel, fuel, heating oil, hydraulic oil, and used oil) and only new liquid deicing/anti-icing tanks, the Department determined that 12 months from EDPA is enough time to allocate funding for secondary containment for future installation of liquid de-icing/anti-icing tanks as well as adding secondary containment to existing non de-icing/anti-icing tanks.

No changes have been made to the final permit as a result of these comments.

36. COMMENT: Fueling and other Bulk Liquid Operations. It will be extremely difficult to assure a trained employee is available and present for bulk fluid deliveries. Limiting the delivery schedule and impacting critical safety services. Alternate methods need to be evaluated. [3]

RESPONSE 36: The Department acknowledges the commentors' concerns regarding the requirement for a trained employee to be present during bulk liquid deliveries. However, the requirement to provide Annual Employee Training to employees according to the employees' specific job duties has been required since the 2004 MS4 permits. This training is required to educate employees on how to perform their jobs in compliance with the permit requirements as they pertain to each permittee.

Stormwater contamination can occur from residual spillage from topping off fuel tanks, not being attentive during loading and unloading procedures, or improper cleanup after a spill occurs. The renewal permit shall continue to require permittees to establish, maintain, and implement standard BMPs for vehicle fueling; receipt of bulk fuel deliveries; and inspection and maintenance of storage tanks, including the associated piping and fuel pumps.

The Department also maintains that adequate training is essential for the success of the MS4 program and some form of employee training has been required since the 2004 Highway Agency permit. The requirement for a trained employee to be present during fuel or other bulk liquid transfers to ensure BMPs are followed is critical since the entity delivering the fuel or other bulk liquid is not trained in how to best prevent the potential discharge of pollutants to highway agency's MS4. The renewal permit provides the permittee with the flexibility to train multiple employees on proper bulk liquid transfer BMPs so that the same employee is not required to be present at every bulk

liquid transfer. The Annual Employee training for this specific job duty will ensure that the BMPs required by the permit will be properly implemented at the time of receipt of fuel or other bulk liquids.

Furthermore, the Department is developing a new Stormwater Program Coordinator training to train SPCs, so they are not only better familiar with the permit requirements, but also for SPCs to better inform or train other staff. SPCs will be required to attend this training EDPA + 12 months, and once per permit cycle thereafter. The Department will post recordings of previous trainings to the webpage (<https://dep.nj.gov/njpdess-stormwater/municipal-stormwater-regulation-program/highway-agency-stormwater-permit/>) for permittees' continual use.

No changes have been made to the final permit as a result of this comment.

37. COMMENT: Inoperable Vehicles or Equipment: Acquisition of tents and drip pans would be subject to the County Purchasing regulations. Implementation at EDPA does not account for procuring (purchasing), delivery, or setup of such devices. The initial inspection should have a EDPA + 3 months implementation with the purchase and deployment of tents and/or drip pans implementation of EDPA + 9 months. [3]

RESPONSE 37: While many permittees store inoperable vehicles or equipment at their maintenance yards, management of these sources of stormwater pollution was not addressed in the 2020 Highway Agency permit. MS4 stormwater compliance audits confirmed that many permittees are storing vehicles and/or equipment in various states of disrepair in their maintenance yards. This permit renewal authorizes permittees to store inoperable vehicles or equipment, provided portable tents or covers are placed over and drip pans under any leaking vehicle or equipment, and use designated areas that must be located at least fifty (50) feet away from storm drains for the storage of inoperable vehicles or equipment.

The Department recognizes that permittees may need to store certain inoperable vehicles and equipment at maintenance and/or other ancillary yards, but permittees must ensure that the storage of these vehicles and other equipment is managed in a manner to prevent contaminants, as a result of the inoperable vehicles, from being transported via stormwater into the surface and ground waters.

Specifically, inoperable vehicles and equipment with intact bodies and exteriors capable of preventing the contact of stormwater with internal components and fluids capable of discharging pollutants and not leaking any fluids may be stored indefinitely. For those that have body damage, rust damage, missing body panels, or broken windows, such that the exterior is no longer impervious to precipitation must have portable tents or covers placed over those vehicles. If any inoperable vehicle is found to be leaking, drip pans must be utilized immediately, and that leak must be repaired or that fluid must be drained from the vehicle. For all inoperable vehicles and equipment in storage, the permittee must ensure that there is designated storage areas sited away from storm drain inlets, and monthly inspections are conducted for leaks and filled drip pans. These BMPs are designed to prevent stormwater exposure to potential pollutants generated by the vehicles while in storage. This change provides the permittees with a more economical usage of the end-of-life vehicles and equipment while still providing adequate environmental protection.

Compliance with this requirement would only entail the use of minimal and inexpensive equipment, such as tarps, tents and drips pans. The acquisition of this inexpensive equipment is only required when inoperable vehicles and equipment that have exposure of internal components, such as body damage, rust damage, missing body panels, or broken windows, such that the exterior is no longer impervious to precipitation. Since the discharge of vehicle fluids would be considered an illegal unpermitted discharge, permittees shall implement this requirement upon EDPA.

No changes have been made to the final permit as a result of this comment.

38. COMMENT: Inoperable Vehicles or Equipment: As NJDEP states “monthly inspections must be conducted to ensure that BMPs are implemented properly, including inspections for leaks, and filled drip pans;”, EPA suggests also specifically requiring an on-site log sufficient to demonstrate compliance with this section, including but not limited to: - Name of inspector; - Date of inspection; - Date of most recent precipitation or snowmelt event; -

Relevant findings; - Conditions requiring attention; and - Remedial actions taken. The permittee should also note the location of this log in its SPPP. [4]

RESPONSE 38: The Department acknowledges EPA's concern for maintaining a log for inoperable vehicles or equipment. As per Part IV.F.4.b of the permit, the permittee shall inspect the entire site, including the site periphery, monthly (under both dry and wet conditions, when possible), and identify conditions that would contribute to stormwater contamination, illicit discharges, or negative impacts to the permittee's MS4. Leaking vehicles would fall under conditions that would contribute to stormwater contamination and should already be present in the inspection logs. Inspection logs are required to be kept with the SPPP and must be made available upon Department request according to Part IV.J of the permit.

No changes have been made to the final permit as a result of this comment.

Permit Section IV.F.6. Annual Employee Training

39. COMMENT: NJF supports requiring Stormwater Program Coordinators (SPC) to attend a Department-hosted SPC course. [2]

RESPONSE 39: The Department acknowledges the commenter's support for requiring Stormwater Program Coordinators (SPC) to attend a Department-hosted SPC course.

No changes have been made to the final permit as a result of this comment.

40. COMMENT: It is unreasonable to require the Highway Agency to require attendance and compensate vendors for their time spent in training. Services are provided by vendors to the Highway Agency under the direction of the Highway Agency. Salem County suggests a more feasible way to communicate the requirements of the Highway Agency's NJPDES permit to contracted vendors.

This requirement, as proposed, places an undue financial and staffing burden on the County. Salem County will not be able to comply with this requirement without continual and substantial funding assistance from NJDEP. [1]

RESPONSE 40: The Department disagrees that the extension of employee training to vendors will place an undue financial burden on permittees. Since the issuance of the 2004 Highway Agency permit, the Department has required the permittee to train ALL staff that conduct activities required by the Highway Agency permit, which should have included contractors or vendors if those job responsibilities were outsourced to vendors or contractors.

Employee, and by extension vendor, training is essential to meeting the requirements of the Highway Agency MS4 permit to the maximum extent practicable. This permit renewal retains the training requirements included in the 2020 Highway Agency permit, and clarifies some topics that were listed as biennial in the 2020 Highway Agency permit, but should have been covered annually during the SPPP training. Annual training also supports the annual reviews/updates that permittees are required to make to the SPPP and will ensure that the employees are trained on the most up-to-date stormwater program requirements and information.

The Department's position is that permittees should not incur any additional costs associated with training external contractors, consultants, and vendors as these individuals can be invited to the same in-person or virtual training sessions being held for Highway Agency employees. It should also be noted that employees, including external contractors and vendors, only need to be trained on the specific stormwater-related tasks they are performing and do not need to be present for all training topics. These training sessions should not need to take an extensive amount of time, and training for most tasks should be able to be completed in a few hours' time.

The Department maintains that it is important to train employees of external contractors, consultants, and vendors if they are conducting activities required by the permit in order to ensure that these individuals are conducting those activities consistent with the permittee's SPPP and the requirements of the permit. Over the years, the Department

has observed poor implementation of many permit requirements during audits and inspections by the Enforcement staff, and therefore maintains employee training as a crucial and necessary permit requirement.

Additionally, the Department would like to note that all services being provided by external contractors, consultants, or vendors need to be documented in writing in the SPPP and some may need to be recorded as shared services in accordance with Part IV.A.3. In the case of a shared or outsourced service, training requirements can and should be incorporated into the written agreement with that entity, before any work related to the permit requirements begins. That way, the permittee and those external contractors are all on the same page regarding how to perform activities in compliance with the Highway Agency MS4 permit.

No changes have been made to the final permit as a result of this comment.

41. COMMENT: NJF supports requiring review engineers to complete a Stormwater Management Design Review Course. [2]

RESPONSE 41: The Department acknowledges the commenter's support for requiring review engineers to complete a Stormwater Management Design Review Course.

No changes have been made to the final permit as a result of this comment.

42. COMMENT: NJF supports requiring review engineers to complete Stormwater Management Rule Amendment Training. [2]

RESPONSE 42: The Department acknowledges the commenter's support for requiring review engineers to complete Stormwater Management Rule Amendment Training.

No changes have been made to the final permit as a result of this comment.

Permit Section IV.G.1. MS4 Infrastructure Map

43. COMMENT: Facilitating Regional Watershed Planning:

NJF supports the Department's efforts to encourage highway agencies to satisfy permit conditions via cooperative agreements with local or regional governments and private or non-profit organizations. Specifically, with regard to the new Watershed Improvement Plan (WIP) requirements, permittees can reduce costs and time spent by coordinating efforts or sharing data with municipalities, which also must complete individual WIPs. Below are areas where the Department can better facilitate cooperation:

- Permittees are required to meet MS4 mapping minimum standards and share the completed data with the Department by EDPA + 36 months, outlined in Part IV.G.1.a.

Expanding this requirement also to include sharing the mapping data with the Stormwater Program Coordinators of affected municipalities would assist local governments by eliminating any crossover with their own MS4 mapping requirements. [2]

RESPONSE 43: The Department acknowledges the commenter's support for the Department's efforts to encourage Highway Agencies to satisfy permit conditions via cooperative agreements with local or regional governments.

Part IV.H.1.b. of the renewal permit requires Highway Agencies to share their mapping data with affected municipalities. When requested by other MS4 permittees that discharge within the shared subwatershed(s), Highway Agency permittees are required to provide their MS4 interconnection locations and stormwater infrastructure

ownership information to these MS4 permittees. In addition, this information will be uploaded onto the Department's MS4 public mapping layer making it available for viewing by any other users.

No changes have been made to the final permit as a result of this comment.

44. COMMENT: Placing the responsibility of delineating the location of the stormwater features listed in Part IV.G.1 of the draft permit renewal that are owned or operated by the permittee, including their associated attributes noted in parentheses, is an unreasonable request that would require unnecessary staffing and resources. Should this information be necessary, on a case-by-case basis, the information can be obtained from a previously established database within the State of New Jersey such as NJ Geo Web, for example. [1]

45. COMMENT: Mapping of All MS4 infrastructure:

a. Stormwater conveyances need to be better defined.

b. Additional time should be provided to collect the requested data. The data requested will be significantly more complex to acquire than other MS4 components. Consider providing 5 years to complete the data acquisition with annual goals of 25% with the first 25% acquired within 24 months of the EDPA. [3]

RESPONSE 44-45: The Department understands the commenters' concerns about completing the enhanced infrastructure mapping. However, the previous stormwater infrastructure mapping will provide a good foundation for the addition of the new mapping requirements in this renewal permit.

Specifically, permittees should have already developed a map of their outfall pipes pursuant to the 2004 and 2009 Highway Agency permits, and then converted that mapping information, as well as any new outfalls, into an electronic Outfall Pipe Map and submitted that to the Department as of December 21, 2020, which was required by the 2020 Highway Agency permit. This map was required to show the location of the end of all MS4 outfall pipes (in tidal and non-tidal receiving waters) owned or operated by the permittee which discharge to a surface water body. The outfall pipe map was also required to include the location and name of all surface water bodies receiving discharges from those outfall pipes

Additionally, permittees should have also already completed a Stormwater Facilities Map and submitted it to the Department as of January 1st, 2023, which was also required by the 2020 Highway Agency permit. This map was required to include:

- i. Storm drain inlets constructed after EDPA;
- ii. Stormwater management basins;
- iii. Subsurface infiltration/detention systems;
- iv. Manufactured treatment devices (MTDs);
- v. Green infrastructure;
- vi. Property boundaries of the Highway Agency maintenance yard(s), ancillary operations, rest areas, and service areas as well as an annotated map of roadways and thoroughfares owned or operated by the permittee; and
- vii. Include the type of each stormwater facility.

Since all permittees were required to complete these two requirements as of January 1, 2023, the MS4 Infrastructure Map requirement for this renewal permit should only require some additional attribute fields and potential rearrangement of existing data to be considered complete. Stormwater infrastructure that is now required to be collected by this renewal permit includes:

- i. MS4 ground water discharge points;
- ii. MS4 interconnections;
- iii. Storm drain inlets (inlets constructed after 1/1/2020 were due to be mapped 1/1/2023);
- iv. MS4 manholes;

- v. MS4 conveyance; and
- vi. MS4 pump stations.

As per the draft Highway Agency permit Fact Sheet issued on August 23, 2024, the Department asserts that enhanced stormwater infrastructure mapping is necessary to ensure and improve the proper operation and maintenance of the storm sewer systems throughout the State as permittees must be aware of the location of their storm sewer system components in order to conduct proper operation and maintenance, which is critical to the protection of public health, safety, and the environment.

Proper operation and maintenance of this infrastructure consequently improves the quality of the stormwater that is managed by that infrastructure, aiding in the goal of improving water quality. Proper maintenance of stormwater infrastructure also ensures that that infrastructure will operate as designed during storm events to alleviate localized flooding due to stormwater runoff. For example, performing street sweeping removes material containing pollutants from the road surfaces that can cause water quality impairments and prevents that same material from clogging inlets, catch basins and conveyance pipes which can cause localized flooding and public safety concerns.

Further, knowing the location of storm sewer system components is also necessary when implementing a stream scouring and illicit discharge detection and elimination program in order to be able to identify likely sources causing scouring and illicit discharges.

The Department will continue to make available a free to use mapping application and ArcGIS Online licenses as well as one-on-one direct technical assistance, and guidance and training for using the application in order to ease the potential cost burden of the mapping requirement. This training is offered either in person or virtually, upon request of the permittee, to assist with the mapping of the permittees' stormwater infrastructure.

No changes have been made to the final permit as a result of these comments.

46. COMMENT: The fact sheet includes additional details such as the original due date for each map element (page 43 of 54). For example, the fact sheet states: “a summary of the proposed mapping requirements is as follows (note that the required attributes are in parentheses and the new stormwater infrastructure elements to be mapped are included in **bold text**):

- MS4 outfalls (receiving surface water name, type of outfall) (receiving surface water name, type of outfall – EPA notes this is a duplicate statement) (was due 1/1/2021 and electronically by 12/21/2020);
- **MS4 ground water discharge points (type);**
- **MS4 interconnections (type, upstream entity, downstream entity);**
- Storm drain inlets (type, catch basin present, label present, retrofitted) (inlets constructed after 1/1/2020 were due to be mapped 1/1/2023);
- **MS4 manholes;**
- **MS4 conveyance (type, direction of flow);**
- **MS4 pump stations;**
- Stormwater management measures (type) (manufactured treatment devices (MTDs), green infrastructure, stormwater management basins and infiltration/detention systems were due 1/1/2023); • Streets, ramps, parking areas, and thoroughfares (was due 1/1/2023); and • Property boundaries of rest area(s), maintenance yard(s) and other ancillary operations (type) (was due 1/1/2023).”

EPA suggests NJDEP include the additional detail (e.g., original due dates for each required element and emphasis of new map requirements in bold text) in the permit itself so the new requirements are clear to the public and the permittee. [4]

RESPONSE 46: The Department does not include requirement deadlines from previous permits in subsequent permit renewal language. The permittee can refer to the Highway Agency permit's Fact Sheet which will remain posted on the Department's webpage with the draft permit for information about requirements and due dates in

previous iterations of the Highway Agency permit. The Department will also develop a deliverables timeline that will reference prior mapping requirements.

No changes have been made to the final permit as a result of these comments.

Permit Section IV.H.1. General Watershed Improvement Plan Requirements

47. COMMENT: Placing the burden on a Highway Agency of all the above outlined requirements to implement a Watershed Improvement Plan is unacceptable. Salem County's Highway Agency provides an array of public works activities, with limited staff, to the community outside of all reporting and requirements set forth in the NJPDES Permit. It is Salem County's position that other established government agencies currently have knowledge, skill and resources available to meet these goals. [1]

48. COMMENT: Watershed Improvement Plan: Development and implementation of the described plan represent a complex and demanding task for a County Government. Of particular concern should be:

- a. Available staff time, staff expertise, available date, available software programs, the sheer enormity of the data sets being requested, the related data being requested and understanding most government agencies already operate with significant work backlogs, this seems like a very complex, difficult and long-range planning task for the local government to undertake.
- b. MS4s are rarely the originator of the impairment source. MS4s collect and convey stormwater runoff from numerous private properties. More focus should be directed to controlling the non-point issues resulting in the creation of the impairment. These are monumental issues that should not be pushed to the local governments to manage. The county road surface is almost negligible in comparison to the actual non-point contributors.
- c. Land Use and control is a function of the local municipal governments. Development and success of a WIP will be dependent upon close collaboration between all levels of government. It is not practical to accomplish this using the current levels of staffing at Sussex County.
- d. Similar plan development efforts at any government level have required years of time and significant investment of both professional and financial resources. As such, if this is to remain a component of the permit the phase implementation schedules should be significantly extended.
- e. Identification and implementation of phase two should be expected to require significant project scoping efforts and is not reasonable to accomplish under such a limited schedule. Plans could be developed on a case-by-case basis with a priority of locations established as part of Phase 1. When considering local government operating constraints, it is completely reasonable to anticipate planning, scoping, design and implementation of these plans will require significantly longer implementation schedules.
- f. It will be impossible for existing staffing resources to absorb this task. Expansion of staff and retaining professional consultants will be required to complete this goal. Additionally, even beginning the process will be subject inclusion in a new annual budget request seeking Commissioner Approval to hiring new staff, retaining consultants, and advancing the plan development process. [3]

RESPONSE 47-48: The Department acknowledges the commentors' concerns and challenges presented regarding the development and implementation of a Watershed Improvement Plan (WIP). However, all dischargers to the waters of the State, including MS4s, have a mutual obligation to control those discharges so they do not cause or contribute to water quality impairments. Further, the Department disagrees that county road surface is negligible in comparison to non-point contributors. Highway agencies own or operate vast areas of impervious surfaces and are among the largest overall contributors of stormwater related pollution in the State. It would not be appropriate for the Department to attempt to pass the responsibility to reduce pollution from highway agencies onto other

established government agencies, though the highway agency would be free to enlist those agencies as partners in developing their WIP. As noted in the Fact Sheet, the Department determined that a more specific permit requirement than the related 2020 permit requirement, such as requiring each Highway Agency permittees to develop, or take part in a regional WIP, was necessary to obtain pollutant reductions from stormwater discharges. The 2020 Highway Agency permit required permittees to evaluate the TMDLs that had been developed for their waters and develop strategies to address their discharges of stormwater related pollutants. The 2020 permit required:

- i. “The permittee shall annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering all: maintenance yards; rest areas; service area properties; and new "major development" projects as defined by the permittee's stormwater program.
- ii. The permittee shall use this TMDL information to, at a minimum (1) Assist in the selection and design of stormwater BMPs for "major development" projects, and the prioritization of stormwater facility maintenance, including schedules for repairs required at Part IV.B.6.b.vi. (Stream Scouring) and IV.C.3. (Stormwater Facilities Maintenance); and (2) Identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this permit. Strategies may include but are not limited to those found in the implementation section of approved or adopted TMDL reports (for examples see “Total Maximum Daily Load (TMDL) Guidance” found at https://dep.nj.gov/wp-content/uploads/njpdcs-stormwater/stormwater_tmdl-tool-box.pdf (note that this link has been updated from the 2020 permit)).
- iii. The permittee shall annually update its SPPP to list information identified in i. above.
- iv. The permittee shall incorporate any strategies identified in i. above as an Optional Measure. See Part IV.E (Optional Measures), and Part IV.A.2.c (SPPP).
- v. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Total Maximum Daily Load (TMDL) Information specified in Attachment A (Measurable Goals and Implementation Schedule).”

Since 2020, the Department conducted numerous compliance assistance audits, and most permittees did not include any information about their TMDLs in their SPPPs. Furthermore, they did not explain in their SPPPs how they would prioritize maintenance and repairs in those areas, nor provide any strategies developed to improve water quality in TMDL affected waters. While the requirement in the 2020 permit could have led to some water quality improvements in the TMDL associated waters, if implemented, this permit requirement did not address the surface water quality impairments, include a specific timeframe for implementation, or provide for improvements to achieve compliance with the wasteload allocations specified in the TMDLs. It should also be noted that each permittee is only responsible for addressing the contribution of the pollutant(s) causing the surface water quality impairment(s) that are discharged from their MS4, and each permittee’s WIP would therefore be tailored to the unique circumstances of that Highway Agency and their respective subwatersheds. The Department does not have the information, resources, or authority to make those decisions for the permittee. Similar to the requirement in the 2020 Highway Agency permit, permittees are required to update their WIPs 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.

Based on current information including, but not limited to, surface water quality impairments, TMDLs, Harmful Algal Blooms (HABs), upgrades to the surface water quality classifications, and flooding due to storm events including Hurricane Ida, the Department determined additional measures, including the development of a WIP, were necessary to address these concerns. Specifically, Part IV.H.1.a. requires that permittees improve water quality by reducing the contribution of pollutant parameters for all receiving waters within and bordering the Highway Agency that have impairments and that have percent reductions listed for stormwater in the Total Maximum Daily Loads. Each discharger, including each MS4 discharger, is responsible to reduce their loading contribution of the applicable

parameter to meet the waste load allocations (WLAs) set forth in these final Total Maximum Daily Load (TMDL) documents as percent reductions. The goal in instituting a WIP is to make reasonable progress towards restoring water quality in the impaired waters of the State, including those waters with adopted/approved TMDLs. Many of the surface waters subject to TMDLs and impairments do not have point source discharges outside of the contributions from MS4 systems.

The correct completion of these tasks will take time; therefore, the Department maintains that the timeframes allotted in this renewal permit are appropriate due to the amount of information that must first be developed, then evaluated for potential BMPs to be implemented at all permittee owned or operated maintenance/ancillary yards and rest areas appropriate for the pollutant(s) and area. This information then is required to be coordinated with other stakeholders, including the other MS4s discharging to the same subwatersheds, and the public. The Department would also like to note that permittees will be required to discuss their WIP progress within their annual reports and their SPPP.

As a continual effort to prepare guidance and assistance to our permittees, the Department has created a WIP Guidance Webpage that may be accessed at <https://dep.nj.gov/njpdcs-stormwater/municipal-stormwater-regulation-program/watershed-improvement-plan-resource-page/>. This webpage hosts the most updated guidance and tools that the Department has prepared for the creation and implementation of permittees' WIPs. Additionally, the webpage hosts the Department's newest free web-based application, titled New Jersey Watershed Evaluation Tool (NJ-WET). This easy-to-use tool aggregates all of the most updated public data related to stormwater hosted by the Department in an interactive map that allows users to view permittee specific data, create PDF maps, and extract permittee specific data. The following public data layers hosted by the Department are available through NJ-WET: TMDLs, HUC 14s, Water Quality Impairments, Surface Water Quality Classifications, Overburdened Communities, and Impervious Areas. Templates for each phase will be added to the website as they become available. Once the Highway Agency WIP templates are completed, the Department will email the permittees' SPCs and post them on the website. The Department will also offer a 30-day informal comment period for permittees and other stakeholders to review the WIP template and provide suggested changes, etc. Permittees will also be notified via email when the final version of the template is posted online.

Training on the WIP will also be part of the required SPC Training. The recordings of the training sessions will be made available on the webpage for continual use after the training sessions. In addition to the webpage and the required SPC training, the Department has also created an optional Technical Assistance training for permittees who wish to learn more about the MS4 Infrastructure Map and Watershed Inventory Report requirements, including a demonstration of NJ-WET that will also be posted to the webpage.

The Department would like to remind permittees that they can decrease some of the resource burdens by utilizing shared service agreements with other MS4 permittees, including municipalities, counties, and the State, to satisfy some permit requirements. Counties also have the opportunity to form or be part of a larger stormwater utility, which would be an alternate funding mechanism to use to satisfy permit requirements.

As noted above, each discharger, including each MS4 discharger, is ultimately responsible to reduce their loading contribution of the applicable parameter(s) to meet the waste load allocations (WLAs) set forth in the final Total Maximum Daily Load (TMDL) documents as percent reductions. The Department's guidance to permittees for impaired waters, where no TMDL has been established, will explain how permittees can make informed decisions based on the potential source(s) of the pollutant(s), and available technology, while complying with the CWA requirement noted above.

Finally, the Department is continually looking to provide financial assistance to its permittees to aid in permit compliance. The Department is currently finalizing a funding program to aid county MS4s in developing their stormwater infrastructure maps, as well as investigating other potential programs to provide additional resources.

No changes have been made to the final permit as a result of these comments.

49. COMMENT: Facilitating Regional Watershed Planning:

In Part IV.H, Phases 2 and 3 of the WIP require permittees to conduct public information sessions to report on the Watershed Assessment Reports and the WIP Final Reports, respectively, for each of the permittee's permitted regions. The Department should encourage permittees to coordinate these public information sessions with local governments that are required to schedule similar sessions for their municipal-based WIPs. [2]

RESPONSE 49: Although the Department encourages coordination in many aspects of the WIP process between MS4s within the same watersheds, the public information sessions are not feasible to coordinate across certain MS4 permit sectors. Since the Highway Agency permit is being renewed two years after the Tier A permit was renewed, it is not possible to align these permits' WIP schedules on a task-by-task basis. If the Department required Highway Agencies to coordinate their public information sessions with local governments' sessions, that would only give Highway Agencies one year to conduct their Phase 1 mapping and inventory tasks.

When the Public Complex permit was renewed one year after the Tier A permit renewal, the Department did compress the schedule for Public Complex permittees because their smaller footprints require less work in Phase 1 than Tier A permittees, but Highway Agencies extend across multiple areas so they could not be expected to complete their mapping and inventory tasks on a compressed schedule. However, Highway Agencies that have reached Phases 2 and 3 may choose to coordinate their public outreach sessions with any Tier A municipalities' sessions that may be occurring during the same time frame.

Part IV.H.1. of the renewal permit requires Highway Agency permittees to share their MS4 mapping data with other MS4 permittees within their shared subwatershed(s); Part IV.H.2. requires mapping of all known stormwater interconnections between the permittee's storm or sanitary sewer system and other entities' storm or sanitary sewer systems; Part IV.H.3. requires permittees to conduct public information session(s) in each of their permitted regions; and Part IV.H.4. requires a summary of any collaboration with other MS4 permittees.

While each MS4 permittee, including each Highway Agency MS4 permittee, is individually responsible for complying with the requirement to develop a WIP, the Department requires the permittee to solicit input from other stakeholders, including other MS4 permittees discharging to the same subwatersheds. While the Department is not requiring MS4 permittees to create regional WIPs, it would support that effort as noted below and also encourages permittees to work together in developing more regionalized WIPs, especially where a regional approach would be more effective at meeting the surface water quality standards or would result in accelerated water quality improvements. Regionalized WIPs will be accepted as compliant with this requirement, as long as each permittee's responsibilities under the regional WIP are clearly outlined and agreed upon by the group of permittees covered by the regional WIP. Also, while establishing a regional stormwater management plan pursuant to N.J.A.C. 7:8-3 would likely meet most, if not all, of the WIP requirements, the creation of a regional stormwater management plan pursuant to N.J.A.C. 7:8-3 is not specifically required under this permit.

Further, the Department will prioritize regional WIPs in terms of Department assistance, funding opportunities, and review and approval.

No changes have been made to the final permit as a result of this comment.

50. COMMENT: Facilitating Regional Watershed Planning:

The Department should provide guidance to improve coordination with local and regional stormwater management plans and WIPs to ensure plans are consistent and address climate-related hazards. [2]

RESPONSE 50: Permittees are encouraged to explore the idea of working together to establish and implement a regional WIP. The Department posted draft guidance for the WIP, as well as a WIP template, to assist Tier A and Public Complex permittees with understanding the information that will need to be included in the WIPs for an informal 30-day comment period beginning on October 30, 2024. This comment period was established to allow those permittees and other stakeholders to review the template and provide suggested changes, etc. The Department's review and potential changes will be directed at ensuring the provided WIPs meet the requirements of those permits. The Department will also follow this same process regarding the Highway Agency WIP template and guidance, and once the Highway Agency WIP template is finalized, the Department will email the Highway Agency

permittees' SPCs, post this template on its website at <https://dep.nj.gov/njpdess-stormwater/municipal-stormwater-regulation-program/watershed-improvement-plan-resource-page/>.

The Department is also providing guidance through the Stormwater Program Coordinator (SPC) Training. Each permittee also has a stormwater program case manager assigned by county in the MS4 permitting group <https://dep.nj.gov/njpdess-stormwater/municipal-stormwater-regulation-program/ms4-case-manager-list/> to provide one-on-one assistance with any issues permittees may have with implementation of the program.

The Department is also willing to meet with permittees and facilitate conversations regarding regional collaboration on WIPs to address local and regional stormwater concerns.

No changes have been made to the final permit as a result of this comment.

51. COMMENT: Strengthening Watershed Improvement Plan Requirements:

NJF supports the new requirement for highway agencies to develop a Watershed Improvement Plan. Adding "Areas where the Highway Agency owned or operated property intersects with Overburdened Communities" to the Watershed Inventory Report mapping requirements would ensure a more holistic understanding of the permittee's effects on its constituency. [2]

RESPONSE 51: The Department acknowledges the commenter's support for the new requirement for Highway Agencies to develop a Watershed Improvement Plan.

A portion of the required mapping data is available through the Department's Open Data site and the Department has also created the New Jersey Watershed Evaluation Tool (NJ-WET). NJ-WET is a web-based application displaying all NJDEP stormwater related data required to be included in the WIP in one place. This interactive tool allows users to view and download data that intersects with each municipality, including but not limited to: TMDLs, HUC14s, Water Quality Impairments Related to Stormwater, Surface Water Quality Classifications, MS4 Infrastructure, Overburdened Communities, and Impervious Surfaces.

Since Tier A MS4 permittees are required to include Overburdened Communities data pertinent to their municipalities in the preparation of their Watershed Inventory Reports, the Department does not believe that this requirement needed to be duplicated in the Highway Agency permit.

No changes have been made to the final permit as a result of this comment.

52. COMMENT: Strengthening Watershed Improvement Plan Requirements:

The Department should require an expedited timeline for the development of the WIP since permittees were previously required to fulfill certain mapping requirements associated with the Watershed Inventory Report, such as mapping all stormwater facilities and outfalls. Recommended timeline:

- Prepare the Watershed Inventory Report on or before EDPA + 24 months;
- Prepare the Watershed Assessment Report on or before EDPA + 36 months; and
- Prepare the Watershed Improvement Plan Final Report on or before EDPA + 48 months. [2]

RESPONSE 52: While the Department acknowledges that some permittees may have the resources available to complete some tasks sooner than others, it must be recognized that this is a general permit, ultimately applicable to 33 Highway Agencies with diverse resources, obstacles and needs. Phases 2 and 3 of the WIP build on the previous phase(s), with the first being the mapping of the stormwater system paired with identifying the water quality concerns related to the specified areas of each Highway Agency's stormwater system. Permittees are required to solicit input from stakeholders, including residents, business owners, owners of private stormwater facilities, MS4 municipalities and other dischargers to the subwatershed(s) to be involved in the WIP development process, and begin conducting semi-annual public information sessions on or before EDPA +36 months. The permittees will also need to include information regarding their WIP in their SPPPs, and the status of compliance with the WIP when

they submit their Annual Reports. Completing all aspects of the new mapping requirements, developing proposed water quality improvement projects and providing for a robust public involvement process will likely not be quick nor simple to complete for most permittees, which is why the Department has allotted 3 years for completion of this first phase of the WIP (as was allotted to Tier A municipalities), with the next 2 phases of the WIP due in the subsequent 2 years.

The Department maintains that the due dates in this general permit have been established to obtain the required water quality improvements from the Highway Agencies as quickly as practicable.

No changes have been made to the final permit as a result of this comment.

Fueling Operations

1. Establish, maintain and implement standard operating procedures to address vehicle fueling; receipt of bulk fuel deliveries; and inspection and maintenance of storage tanks, including the associated piping and fuel pumps.
 - a. Place drip pans under all hose and pipe connections and other leak-prone areas during bulk transfer of fuels.
 - b. Block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary absorbent booms during the transfer process. If temporary berms or booms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel shall be within the temporarily contained by berms or boomed area during the loading/unloading of bulk fuels. A trained employee shall be present to supervise the bulk transfer of fuel.
 - c. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment. Include the following:
 - “Topping off vehicles, mobile fuel tanks, and storage tanks is strictly prohibited”
 - “Stay in view of fueling nozzle during dispensing”
 - Contact information for the person(s) responsible for spill response.
 - d. Immediately repair or replace any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair.

Discharge of Stormwater from Secondary Containment

The discharge pipe/outfall from a secondary containment area (e.g., fuel storage, de-icing solution storage, brine solution) shall have a valve and the valve shall remain closed except as described below. The permittee may discharge stormwater accumulated in a secondary containment area if a visual inspection is performed to ensure that the contents of aboveground storage tank have not been in contact with the stormwater to be discharged. Visual inspections are only effective when dealing with materials that can be observed, like petroleum. If the contents of the tank are not visible in stormwater, the permittee shall rely on previous tank inspections to determine with some degree of certainty that the tank has not leaked. If the permittee cannot determine with reasonable certainty that the stormwater in the secondary containment area is uncontaminated by the contents of the tank, then the stormwater shall be hauled for proper disposal.

Vehicle Maintenance

1. Operate and maintain equipment to prevent the exposure of pollutants to stormwater.
2. Whenever possible, conduct vehicle and equipment maintenance activities indoors. Floor drain discharge locations shall be identified in the SPPP.
3. For projects that must be conducted outdoors, and that last more than one day, portable tents or covers shall be placed over the equipment being serviced when not being worked on, and drip pans shall be used. Use designated areas away from storm drains or block storm drain inlets when vehicle and equipment maintenance is being conducted outdoors.

On-Site Equipment and Vehicle Washing and Wash Wastewater Containment

1. Manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to storm sewer inlets or to surface or ground waters of the State.
2. Permittee's which cannot discharge wash wastewater to a sanitary sewer or which cannot otherwise comply with 1, above, may temporarily contain wash wastewater prior to proper disposal under the following conditions:
 - a. Containment structures shall not leak. Any underground tanks and associated piping shall be tested for integrity every 3 years using appropriate methods determined by "*The List of Leak Detection Evaluations for Storage Tank Systems*" created by the National Work Group on Leak Detection Evaluations (NWGLDE) or as determined appropriate and certified by a professional engineer for the site-specific containment structure(s).
 - b. For any containment system protected by cathode, provide a passing cathodic protection survey every three years.
 - c. Operate containment structures to prevent overflowing resulting from normal or abnormal operations, overflowing, malfunctions of equipment, and human error. Overfill prevention shall include manual sticking/gauging of the tank before each use unless system design prevents such measurement. Tank shall no longer accept wash wastewater when determined to be at 95% capacity. Record each measurement to the nearest ½ inch.
 - d. Before each use, perform inspections of all visible portions of containment structures to ensure that they are structurally sound, and to detect deterioration of the wash pad, catch basin, sump, tank, piping, risers, walls, floors, joints, seams, pumps and pipe connections or other containment devices. The wash pad, catch basin, sump and associated drains shall be kept free of debris before each use. Log dates of inspection; inspector's name, and conditions. This inspection is not required if system design prevents such inspection.
 - e. Containment structures shall be emptied and taken out of service immediately upon detection of a leak. Complete all necessary repairs to ensure structural integrity prior to placing the containment structure back into service. Any spills or suspected release of hazardous substances shall be immediately reported to the NJDEP Hotline (1-877-927-6337) followed by a site investigation in accordance with N.J.A.C. 7:26C and N.J.A.C 7:26E if the discharge is confirmed.
 - f. All equipment and vehicle wash wastewater placed into storage must be disposed of in a legally permitted manner (e.g., pumped out and delivered to a duly permitted and/or approved wastewater treatment facility).
 - g. Maintain a log of equipment and vehicle wash wastewater containment structure clean-outs including date and method of removal, mode of transportation (including name of hauler if applicable) and the location of disposal. See Underground Vehicle Wash Water Storage Tank Use Log at end of this attachment.
 - h. Containment structures shall be inspected annually by a NJ licensed professional engineer. The engineer shall certify the condition of all structures including: wash pad, catch basin, sump, tank, piping, risers to detect deterioration in the, walls, floors, joints, seams, pumps and

pipe connections or other containment devices using the attached Engineer's Certification of Annual Inspection of Equipment and Vehicle Wash Wastewater Containment Structure. This certification may be waived for self-contained systems on a case-by-case basis. Any such waiver would be issued in writing by the Department.

3. Maintain all logs, inspection records, and certifications on-site. Such records shall be made available to the Department upon request.

Salt and De-icing Material Storage and Handling

1. Store material in a permanent structure.
2. Perform regular inspections and maintenance of storage structure and surrounding area.
3. Minimize tracking of material from loading and unloading operations.
4. During loading and unloading:
 - a. Conduct during dry weather, if possible;
 - b. Prevent and/or minimize spillage; and
 - c. Minimize loader travel distance between storage area and spreading vehicle.
5. Sweep (or clean using other dry-cleaning methods):
 - a. Storage areas on a regular basis;
 - b. Material tracked away from storage areas;
 - c. Immediately after loading and unloading is complete.
6. Reuse or properly discard materials collected during cleanup.
7. Temporary outdoor storage is permitted only under the following conditions:
 - a. A permanent structure is under construction, repair or replacement;
 - b. Stormwater run-on and de-icing material run-off is minimized;
 - c. Materials in temporary storage are tarped when not in use;
 - d. The requirements of 2 through 6, above are met; and
 - e. Temporary outdoor storage shall not exceed 30 days unless otherwise approved in writing by the Department;
8. Sand must be stored in accordance with Aggregate Material and Construction Debris Storage below.

Aggregate Material and Construction Debris Storage

1. Store materials such as sand, gravel, stone, top soil, road millings, waste concrete, asphalt, brick, block and asphalt-based roofing scrap and processed aggregate in such a manner as to minimize stormwater run-on and aggregate run-off via surface grading, dikes and/or berms (which may include sand bags, hay bales and curbing, among others) or three-sided storage bays. The area in front of storage bays and adjacent to storage areas shall be swept clean after loading/unloading.
2. Sand, top soil, road millings and processed aggregate may only be stored outside and uncovered if in compliance with item 1 above and a 50-foot setback is maintained from surface water bodies, storm sewer inlets, and/or ditches or other stormwater conveyance channels.
3. Road millings must be managed in conformance with the “Recycled Asphalt Pavement and Asphalt Millings (RAP) Reuse Guidance” (see www.nj.gov/dep/dshw/rrtp/asphaltguidance.pdf) or properly disposed of as solid waste pursuant to N.J.A.C. 7:26-1 et seq.
4. Cold patch shall be stored in a permanent structure or on an impervious surface and covered with a waterproof material (i.e., tarpaulin or 10-mil plastic sheeting) that is contained (e.g., contained by berms) to control leachate and stormwater run-on or run through.
5. The stockpiling of materials and construction of storage bays on certain land (including but not limited to coastal areas, wetlands and floodplains) may be subject to regulation by the Division of Land Use Regulation (see www.nj.gov/dep/landuse/ for more information).

Street Sweepings, Catch Basin Clean Out, and Other Material Storage

1. For the purposes of this permit, this BMP is intended for road cleanup materials as well as other similar materials. Road cleanup materials may include but are not limited to street sweepings, storm sewer clean out materials, stormwater basin clean out materials and other similar materials that may be collected during road cleanup operations. These BMPs do not include materials such as liquids, wastes which are removed from sanitary sewer systems or material which constitutes hazardous waste in accordance with N.J.A.C. 7:26G-1.1 et seq.
2. Road cleanup materials must be ultimately disposed of in accordance with N.J.A.C. 7:26-1.1 et seq. See the “Guidance Document for the Management of Street Sweepings and Other Road Cleanup Materials” (www.nj.gov/dep/dshw/rrtp/sweeping.htm).
3. Road cleanup materials placed into temporary storage must be, at a minimum:
 - a. Stored in leak-proof containers or on an impervious surface and covered with a waterproof material (i.e., tarpaulin or 10-mil plastic sheeting) that is contained (e.g., contained by berms) to control leachate and stormwater run-on or run through; and
 - b. Removed for disposal (in accordance with 2, above) within six (6) months of placement into storage.

Yard Trimmings and Wood Waste Management Sites

1. These practices are applicable to any yard trimmings or wood waste management site:
 - a. Owned and operated by the permittee;
 - i. For staging, storing, composting or otherwise managing yard trimmings, or
 - ii. For staging, storing or otherwise managing wood waste, and
 - b. Operated in compliance with the Recycling Rules found at N.J.A.C. 7:26A.
2. Yard trimmings or wood waste management sites must be operated in a manner that:
 - a. Diverts stormwater away from yard trimmings and wood waste management operations;
 - b. Minimizes or eliminates the exposure of yard trimmings, wood waste and related materials to stormwater;
 - c. Eliminates the discharge of stormwater that contacts source material from yard trimmings or wood waste management sites to storm sewer inlets or surface waters of the State.
3. Yard trimmings and wood waste management site specific practices:
 - a. Construct windrows, staging and storage piles:
 - i. In such a manner that materials contained in the windrows, staging and storage piles (processed and unprocessed) do not enter waterways of the State;
 - ii. On ground which is not susceptible to seasonal flooding;
 - iii. In such a manner that prevents stormwater run-on and leachate run-off (e.g., use of covered areas, diversion swales, ditches or other designs to divert stormwater from contacting yard trimmings and wood waste).
 - b. Maintain perimeter controls such as curbs, berms, hay bales, silt fences, jersey barriers or setbacks, to eliminate the discharge of stormwater runoff carrying leachate or litter from the site to storm sewer inlets or to surface waters of the State.
 - c. Prevent on-site storm drain inlets from siltation using controls such as hay bales, silt fences, or filter fabric inlet protection.
 - d. Dry weather run-off that reaches a stormwater sewer system is an illicit discharge. Possible sources of dry weather run-off include wetting of piles by the site operator; uncontrolled pile leachate or uncontrolled leachate from other materials stored at the site.
 - e. Remove trash from yard trimmings and wood waste upon receipt.
 - f. Monitor site for trash on a routine basis.
 - g. Store trash in leak-proof containers or on an impervious surface that is contained (e.g., contained by berms) to control leachate and litter;
 - h. Dispose of collected trash at a permitted solid waste facility.
 - i. Employ preventative tracking measures, such as gravel, quarry blend, or rumble strips at exits.

**ENGINEERS CERTIFICATION OF ANNUAL INSPECTION OF EQUIPMENT
AND VEHICLE WASH WASTEWATER CONTAINMENT STRUCTURE
(Complete a separate form for each vehicle wash wastewater containment structure)**

Permittee: _____ NJPDES Permit No: _____

Containment Structure Location: _____

The annual inspection of the above referenced vehicle wash wastewater containment structure was conducted on _____ (date). The containment structure and appurtenances have been inspected for:

1. The integrity of the structure including walls, floors, joints, seams, pumps and pipe connections
2. Leakage from the structure's piping, vacuum hose connections, etc.
2. Bursting potential of tank.
3. Transfer equipment
4. Venting
5. Overflow, spill control and maintenance.
6. Corrosion, splits, and perforations to tank, piping and vacuum hoses

The tank and appurtenances have been inspected for all of the above and have been determined to be:

Acceptable _____

Unacceptable _____

Conditionally Acceptable _____

List necessary repairs and other conditions: _____

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment (N.J.A.C. 7:14A-2.4(d)).

Name (print): _____ Seal: _____

Signature: _____

Date: _____

Underground Vehicle Wash Water Storage Tank Use Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____

Tank Location _____

Tank Volume _____ gallons

Tank Height _____ inches

95% Volume _____ gallons

95% Volume _____ inches

<u>Date and Time</u>	<u>Inspector</u>	<u>Height of Product Before Introducing Liquid (inches)</u>	<u>Is Tank Less Than 95% Full? (Y/N)</u>	<u>Visual Inspection Pass? (Y/N)</u>	<u>Comments</u>

Notes: The volume of liquid in the tank shall be measured **before** each use.

Liquid **shall not be introduced** if the tank contains liquid at 95% of the capacity or greater.

A visual inspection of all exposed portions of the collection system shall be performed before each use. Use the comments column to document the inspection and any repairs.

Underground Vehicle Wash Water Storage Tank Pump Out Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____

Tank Location _____

Tank Volume _____ gallons

<u>Date and Time of Pump Out</u>	<u>Volume of Liquid Removed</u>	<u>Waste Hauler *</u>	<u>Destination of the Liquid Disposal *</u>

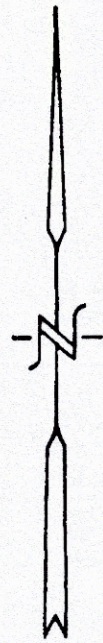
*** The Permittee must maintain copies of all hauling and disposal records and make them available for inspection**

APPENDIX B

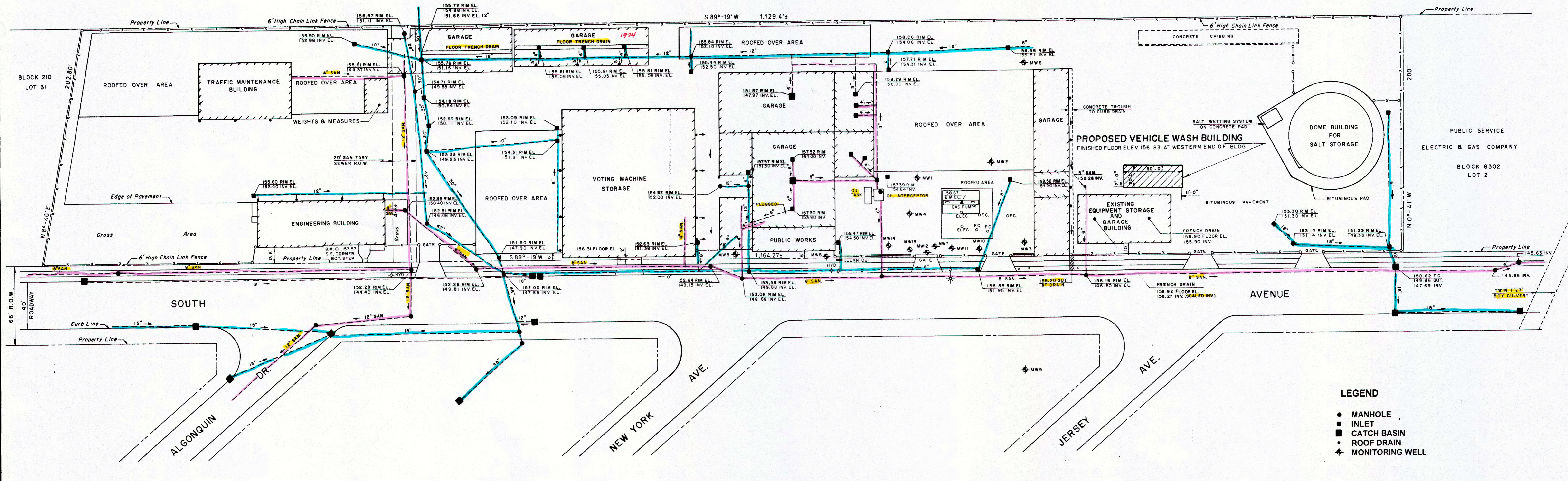
HIGHWAY

COMPLEX

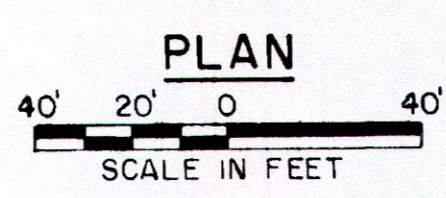
LOCATIONS



NEW JERSEY TRANSIT RARITAN LINE



- LEGEND**
- MANHOLE
 - INLET
 - CATCH BASIN
 - ◆ ROOF DRAIN
 - ◆ MONITORING WELL



REVISION	BY	CKD	DATE
PROPOSED VEHICLE WASH BUILDING PUBLIC WORKS COMPLEX			
TOWNSHIP OF SCOTCH PLAINS		UNION COUNTY, NJ	
SITE PLAN			
DIVISION OF ENGINEERING COUNTY OF UNION, NJ			
G. BRUCE CONNOR, P.E. DIRECTOR OF ENGINEERING		COUNTY ENGINEER NJ LIC No. 25058	
<i>G. Bruce Connor</i>		DATE: 11/10/06	
		SHEET NO. 01 OF 07	

LDS UC 13445

10-381

Union County High Complex Locations

1. Galloping Hill Yard (Golf & DPW) – 21 North 31st Street, Kenilworth NJ
2. Ashbrook Yard (Gold & DPW) – 1210 Raritan Road, Scotch Plains (direct 1602 Raritan Rd, Scotch Plains NJ)
3. Warinanco Park Yard – 114 Acme Street, Elizabeth NJ
4. Echo Lake Park Yard – Park Drive, Echo Lake Park, Mountainside NJ
5. Cedar Brook Park Yard – Mathewson Drive, Cedar Brook Park, Plainfield NJ
6. Houdaille Quarry – 301 Shunpike Road, Springfield, NJ
7. Scotch Plains Yard – 2371 South Avenue, Scotch Plains, NJ
8. Oak Ridge Park Yard – 136 Oak Ridge Avenue, Clark, NJ
9. Rahway River Park Yard – Parkway Drive, Rahway, NJ
10. Watchung Stables – 1160 Summit Lane, Mountainside, NJ
11. Public Safety Complex – 300 North Avenue, Westfield, NJ
- ~~12. Cherry Street Garage – 101 Rahway Avenue, Elizabeth, NJ (Recently Demolished/Vacant Property)~~
- ~~13. Runnells Hospital – 40 Watchung Way, Berkeley Heights, NJ (Sold/No longer County Property)~~

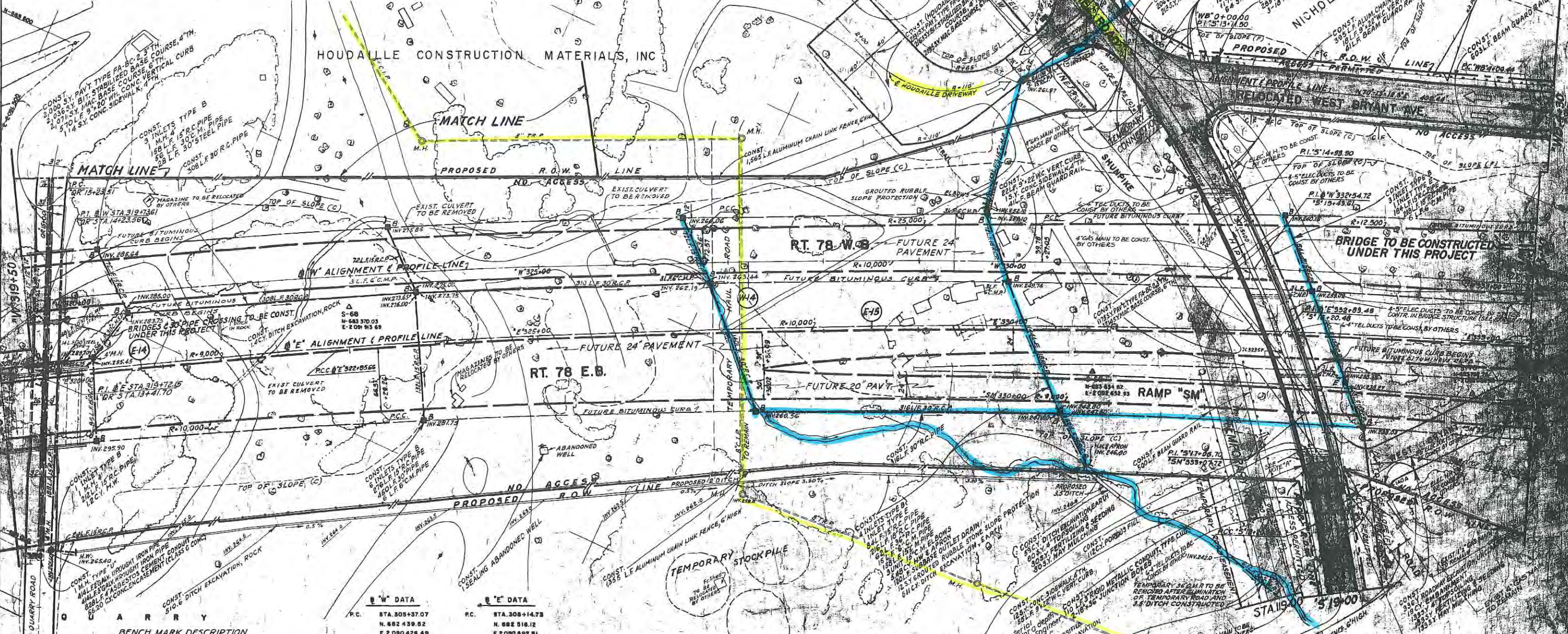
The combination of above locations summarize to a total of 20 total locations noted as:

- 1) Nine (9) rest areas
- 2) Four (4) Maintenance & fueling areas
- 3) Three (3) Maintenance, fueling and rest areas
- 4) Two (2) Maintenance areas
- 5) One (1) Fueling area
- 6) One (1) Maintenance and rest areas

TO BE CONSTRUCTED

- Pavement Type FA-BC-1, 2" Thick
- Pavement Type FA-BC-2, 3" Thick
- Bituminous Stabilized Base Course, 4" Thick
- Macadam Base Course, 6" Thick
- Prime Coat
- Subbase
- Porous Fill
- Roadway Excavation, Unclassified
- Embankment
- Ditch Excavation, Earth
- Ditch Excavation, Rock
- Topsoiling
- Fertilizing & Seeding
- Hay Mulching
- Inlets, Type B (2'-8" Heads, 15'-10" Heads)
- Inlets, Type E
- Mannholes
- Mannholes, Type U
- 15" Reinforced Concrete Culvert Pipe
- 18" Reinforced Concrete Culvert Pipe
- 30" Reinforced Concrete Culvert Pipe
- 36" Reinforced Concrete Culvert Pipe

- 4,136 Sq.Yd.
- 5,320 Sq.Yd.
- 6,204 Sq.Yd.
- 1,637 Sq.Yd.
- 2,408 Cu.Yd.
- 1,636 Cu.Yd.
- 112 Cu.Yd.
- 501 Cu.Yd.
- 92 Cu.Yd.
- 685 Cu.Yd.
- 512 Cu.Yd.
- 705 Sq.Yd.
- 705 Sq.Yd.
- 17 Unit
- 2 Unit
- 2 Unit
- 1 Unit
- 914 Lin.Ft.
- 434 Lin.Ft.
- 1074 Lin.Ft.
- 62 Lin.Ft.
- 6" Corrugated Metal Pipe
- 15" Corrugated Metal Culvert Pipe
- 30" Corrugated Metal Culvert Pipe
- 36" Corrugated Metal Culvert Pipe
- 30" Steel Pipe
- 15" Corrugated Metal Elbows
- Subbase Outlet Drain
- Mannholes, Inlets and Catch Basins, Additional Depth
- Class C Concrete (Headwalls & Aprons, Encasements, etc.)
- Grouted Rubble Stone Slope Protection
- Sealing Abandoned Wells
- 3" x 20" White Concrete Vertical Curb
- 3" x 22" White Concrete Vertical Curb
- Concrete Sidewalk, 4" Thick
- Beam Guard Rail
- Bridge Foundation, Borrow Excavation
- Aluminum Chain Link Fence, 6 High
- Galvanized Wrought Iron Pipe
- Galvanized Wrought Iron Pipe
- Asbestos Cement Conduit
- 3" Rigid Metallic Conduit, Type C.U.G.
- 18" x 36" Junction Box
- 27 Lin.Ft.
- 156 Lin.Ft.
- 56 Lin.Ft.
- 65 Lin.Ft.
- 23 Lin.Ft.
- 3 Unit
- 120 Lin.Ft.
- 10,361 Cu.Yd.
- 72,88 Cu.Yd.
- 12 Sq.Yd.
- 1 Lin.Ft.
- 2,454 Lin.Ft.
- 55 Lin.Ft.
- 191 Sq.Yd.
- 146,89 Lin.Ft.
- 424 Cu.Yd.
- 3,520 Lin.Ft.
- 414 Lin.Ft.
- 414 Lin.Ft.
- 286 Lin.Ft.
- 310 Lin.Ft.
- 8 Unit



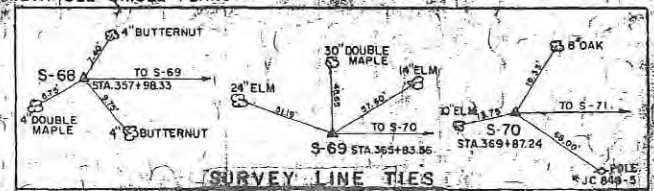
QUARRY

BENCH MARK DESCRIPTION
 BM P-27 EL. 262.72
 CHISELED SQUARE ON SOUTH CORNER OF CINDER BLOCK FOUNDATION 6' x 6'-2.5' ABOVE GROUND, 75' WEST OF WEST EDGE ROAD, 175' NORTH WEST OF WEIGH STATION BUILDING.

R.W. DATA		R.E. DATA	
P.C.	STA. 305+37.07	P.C.	STA. 308+14.73
	N. 682 439.52		N. 682 516.12
	E. 2 090 426.49		E. 2 090 492.51
R.W.14 = 10,000'	A = 18° 25' 01"	R.E.14 = 9,000'	A = 9° 21' 31"
	T = 1,921.16'		T = 737.11'
	L = 3,214.37'		L = 1,470.93'
P.C.C.	STA. 327+01.44	P.C.C.	STA. 322+09.66
	N. 683 988.91		N. 683 321.68
	E. 2 093 228.11		E. 2 091 921.28
		P.C.C.	STA. 349+01.73
			N. 684 200.32
			E. 2 094 443.04

HOUDAILLE CONSTRUCTION MATERIALS, INC.

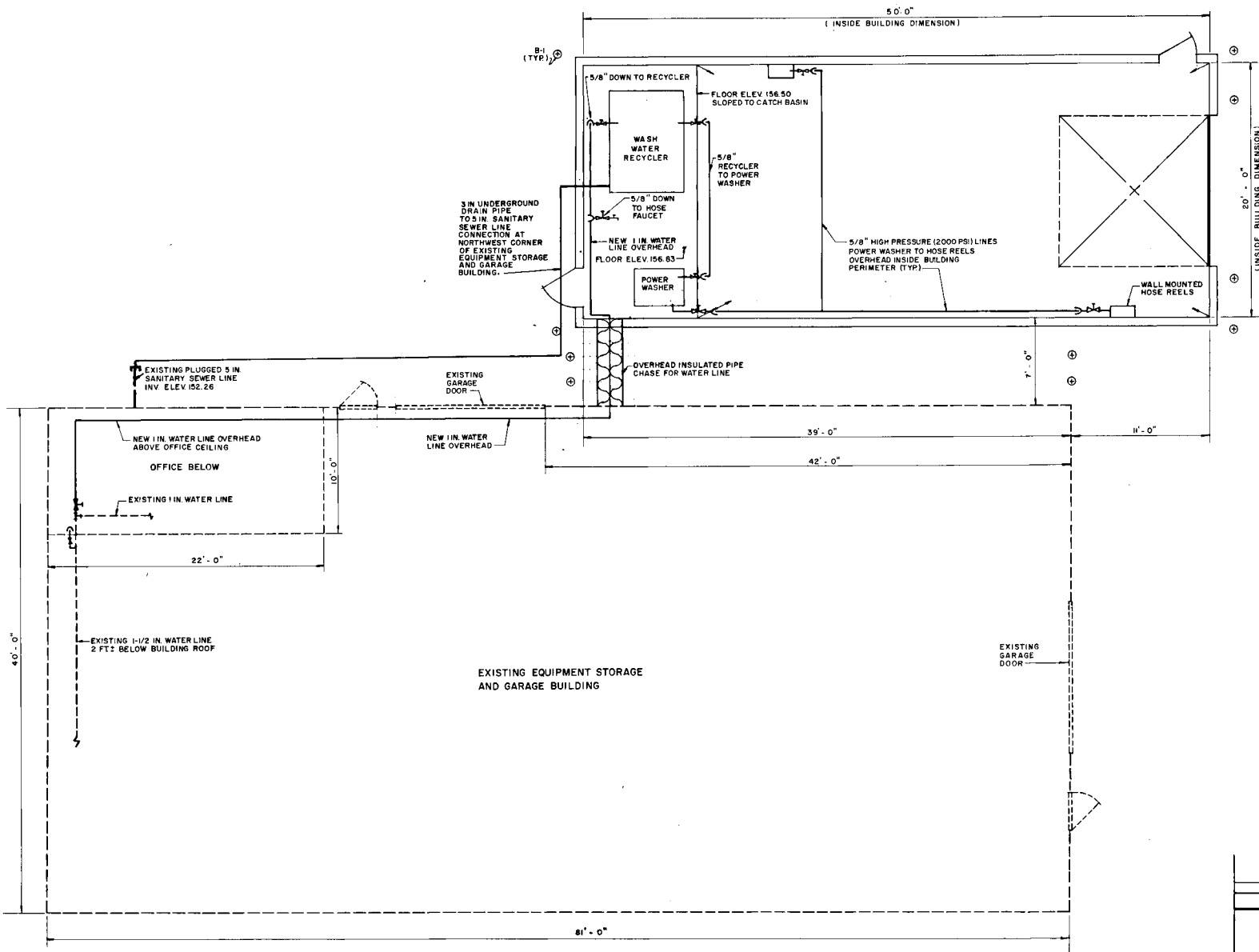
NOTES:
 1- THE LOCATIONS OF EXISTING AND PROPOSED UNDERGROUND UTILITIES ARE DIAGRAMMATIC ONLY. THE EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
 2- FOR ADDITIONAL ELECTRICAL WORK BY CONTRACTOR SEE ELECTRICAL PLANS AND BRIDGE PLANS.
 NOTE "A" FOR CONTINUATION OF 1.5" RIGID METALLIC CONDUIT (SEE BRIDGE PLANS).



PLAN SHEET

New Jersey
 State Highway Department
PLAN SHEET
 ROUTE 78
 From West of Shunpike Road to Springfield Avenue
 ROUTE 24 FREEWAY
 From Erie - East Lawrence Road to Easton
 ROUTE 24 FREEWAY
 Intersection of Major Road and Highway
 SECTION 1
 SECTION 2
 SECTION 3

LDS UC 20002207



REVISION	BY	CK'D	DATE
PROPOSED VEHICLE WASH BUILDING PUBLIC WORKS COMPLEX			
TOWNSHIP OF SCOTCH PLAINS		COUNTY OF UNION, NJ	
WATER LINES			
DIVISION OF ENGINEERING			
COUNTY OF UNION, NJ			
G. BRUCE CONNOR, P.E.		COUNTY ENGINEER	
DIVISION OF ENGINEERING		NJ LIC. NO. 25058	
<i>G. Bruce Connor</i>		DATE 4/10/01	
SHEET NO 05 OF 07			

LDS UC 13449

APPENDIX C
ROADWAY
JURISDICTION
MAP

2018 JURISDICTION REVIEW UNION COUNTY

Hudson County

Essex County

Morris County

Legend

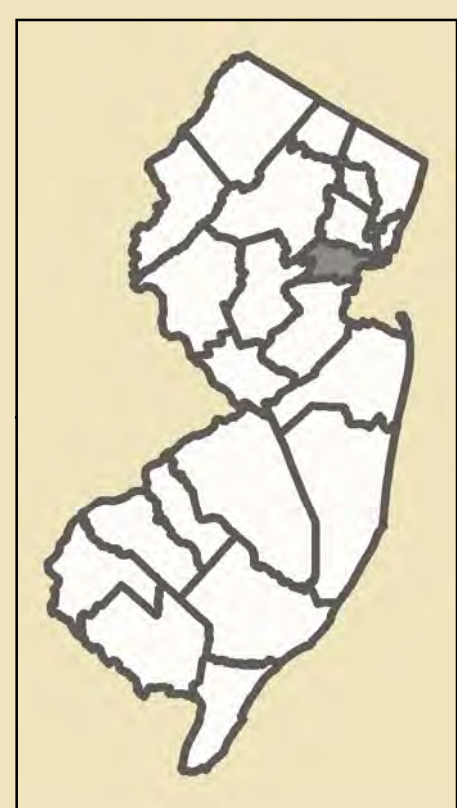
- US Route - County Jurisdiction
- State Route - County Jurisdiction
- County 500 - State Jurisdiction
- County 500 - County Jurisdiction
- County 500 - Municipal Jurisdiction
- County 600 - County Jurisdiction
- County 600 - Not County Jurisdiction
- Local - County Jurisdiction
- Other Routes

Somerset County

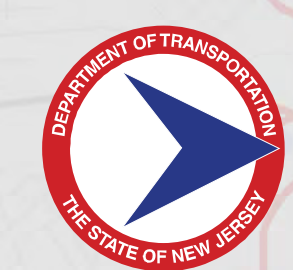
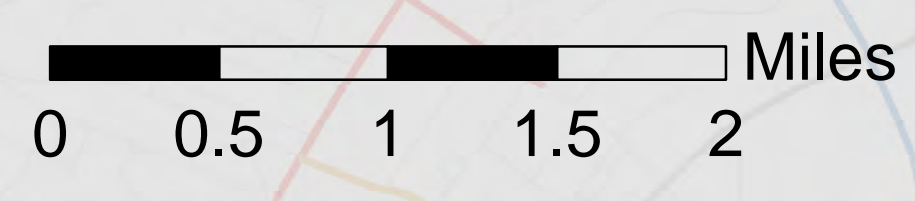
Hudson County

State of New York

Middlesex County



LOCATOR MAP



STATE OF
NEW JERSEY

COMPUTER GENERATED BY THE

NEW JERSEY DEPARTMENT OF TRANSPORTATION
DIVISION OF PLANNING, MULTIMODAL AND GRANT ADMINISTRATION
BUREAU OF TRANSPORTATION DATA AND SAFETY

Raritan Bay

APPENDIX D

CATCH

BASINS

Assets

Map Filter Search by address Measure Select County Aerials

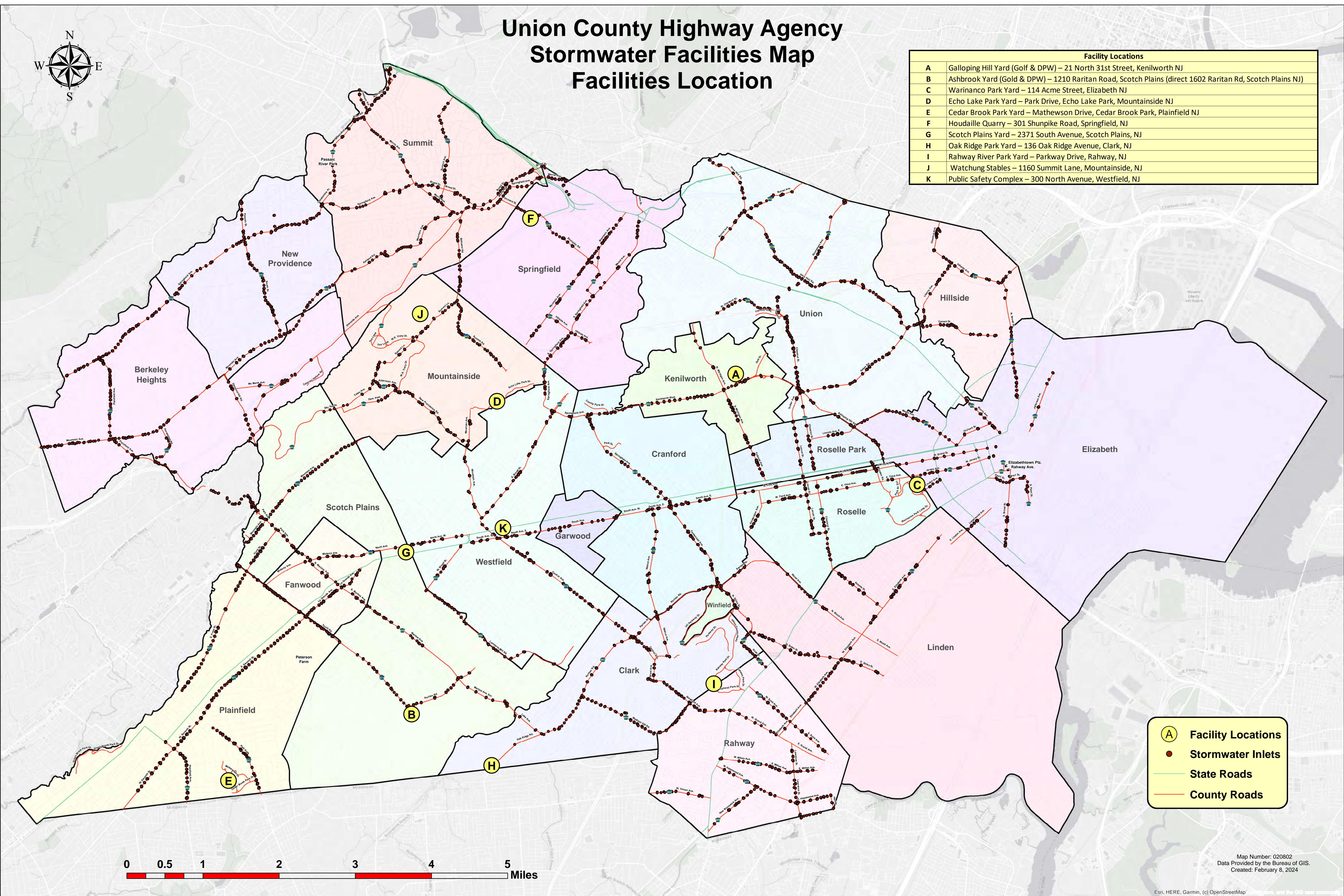
- + Add layer
- ✓ All Storm Basins 5105
- ✓ All Signs 4470
- + Add Condition
- ✓ County Maintained
- Is:
- Like this layer? SAVE LAYER
- ✓ All Bridges 425



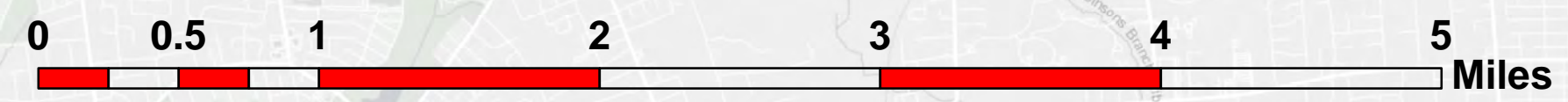
Union County Highway Agency Stormwater Facilities Map Facilities Location



Facility Locations	
A	Galloping Hill Yard (Golf & DPW) – 21 North 31st Street, Kenilworth NJ
B	Ashbrook Yard (Gold & DPW) – 1210 Raritan Road, Scotch Plains (direct 1602 Raritan Rd, Scotch Plains NJ)
C	Warinanco Park Yard – 114 Acme Street, Elizabeth NJ
D	Echo Lake Park Yard – Park Drive, Echo Lake Park, Mountainside NJ
E	Cedar Brook Park Yard – Mathewson Drive, Cedar Brook Park, Plainfield NJ
F	Houdaille Quarry – 301 Shunpike Road, Springfield, NJ
G	Scotch Plains Yard – 2371 South Avenue, Scotch Plains, NJ
H	Oak Ridge Park Yard – 136 Oak Ridge Avenue, Clark, NJ
I	Rahway River Park Yard – Parkway Drive, Rahway, NJ
J	Watchung Stables – 1160 Summit Lane, Mountainside, NJ
K	Public Safety Complex – 300 North Avenue, Westfield, NJ



- A Facility Locations
- Stormwater Inlets
- State Roads
- County Roads



Engineering, Public Works & Facilities Management

Basin Cleaning Schedule

- **BE** – Berkeley Heights
- **CL** – Clark
- **CR** – Cranford
- **EL** – Elizabeth
- **FA** – Fanwood
- **GA** – Garwood
- **HI** – Hillside
- **KE** – Kenilworth
- **LI** – Linden
- **MO** – Mountainside
- **NE** -New Providence
- **PL** – Plainfield
- **RA** -Rahway
- **RO** – Roselle
- **RP** – Roselle Park
- **SC**– Scotch Plains
- **SP** – Springfield
- **SU** – Summit
- **UN** – Union
- **WE** – Westfield
- **WI** – Winfield Park



January						
S	M	T	W	T	F	S
			1	2	3	4
	5	6	7	8	9	10
	12	13	14	15	16	17
	19	20	21	22	23	24
	26	27	28	29	30	31

HI
RO/WI
BE
KE/RP
CL

April						
S	M	T	W	T	F	S
			1	2	3	4
	5	6	7	8	9	10
	12	13	14	15	16	17
	19	20	21	22	23	24
	26	27	28	29	30	

FA
PL
UN
GA/RA
WE

February						
S	M	T	W	T	F	S
						1
	2	3	4	5	6	7
	9	10	11	12	13	14
	16	17	18	19	20	21
	23	24	25	26	27	28
						29

CL
LI
SC
CR
MO

May						
S	M	T	W	T	F	S
					1	2
	3	4	5	6	7	8
	10	11	12	13	14	15
	17	18	19	20	21	22
	24	25	26	27	28	29
	31					

HI
RO/WI
BE
KE/RP
CL

March						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

MO
SP
EL
NE
SU
FA

June						
S	M	T	W	T	F	S
	1	2	3	4	5	6
	7	8	9	10	11	12
	14	15	16	17	18	19
	21	22	23	24	25	26
	28	29	30			

CL
LI
SC
CR
MO

<https://ucnj.org/wp-content/uploads/2019/05/Jan-June-2020.png>

July							
	S	M	T	W	T	F	S
SP				1	2	3	4
EL	5	6	7	8	9	10	11
NE	12	13	14	15	16	17	18
SU	19	20	21	22	23	24	25
FA	26	27	28	29	30	31	

October							
	S	M	T	W	T	F	S
CL					1	2	3
LI	4	5	6	7	8	9	10
SC	11	12	13	14	15	16	17
CR	18	19	20	21	22	23	24
MO	25	26	27	28	29	30	31

August							
	S	M	T	W	T	F	S
FA							1
PL	2	3	4	5	6	7	8
UN	9	10	11	12	13	14	15
GA/RA	16	17	18	19	20	21	22
WE	23	24	25	26	27	28	29
	30	31					

November							
	S	M	T	W	T	F	S
MO	1	2	3	4	5	6	7
SP	8	9	10	11	12	13	14
EL	15	16	17	18	19	20	21
NE	22	23	24	25	26	27	28
SU	29	30					

September							
	S	M	T	W	T	F	S
			1	2	3	4	5
HI	6	7	8	9	10	11	12
RO/WI	13	14	15	16	17	18	19
BE	20	21	22	23	24	25	26
KE/RP	27	28	29	30			

December							
	S	M	T	W	T	F	S
			1	2	3	4	5
FA	6	7	8	9	10	11	12
UN	13	14	15	16	17	18	19
GA/RA	20	21	22	23	24	25	26
WE	27	28	29	30	31		
HI							

<https://ucnj.org/wp-content/uploads/2019/05/June-Dec-2020.png>

Up ↑

APPENDIX E

OUTFALLS

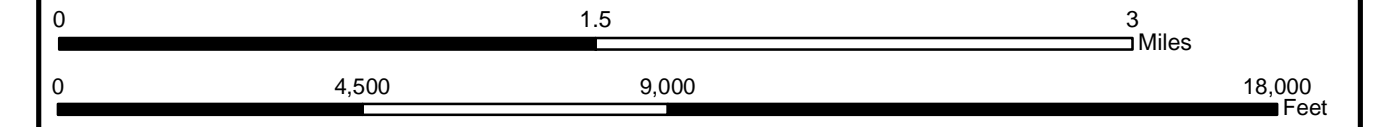


Union County Outfalls NEW JERSEY

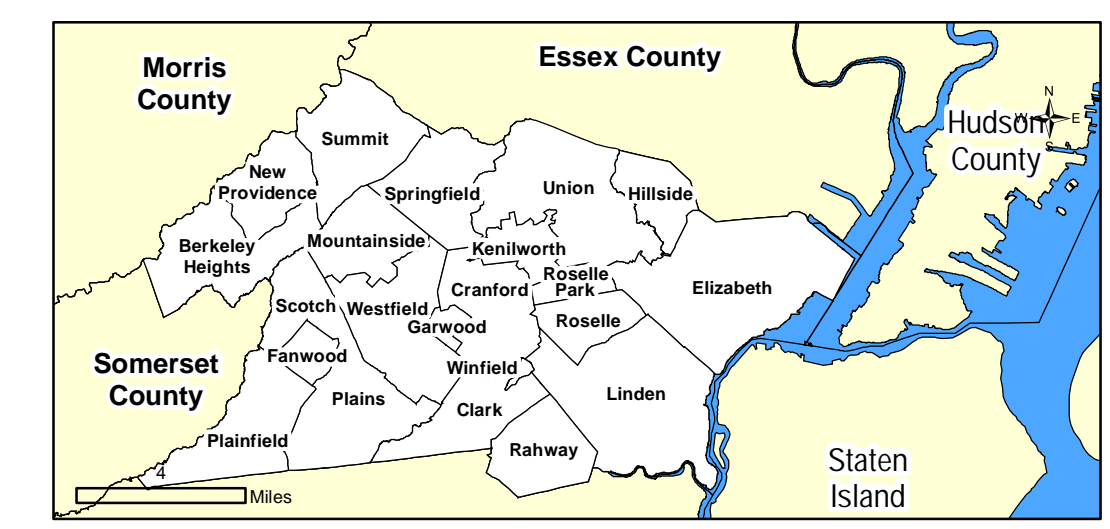
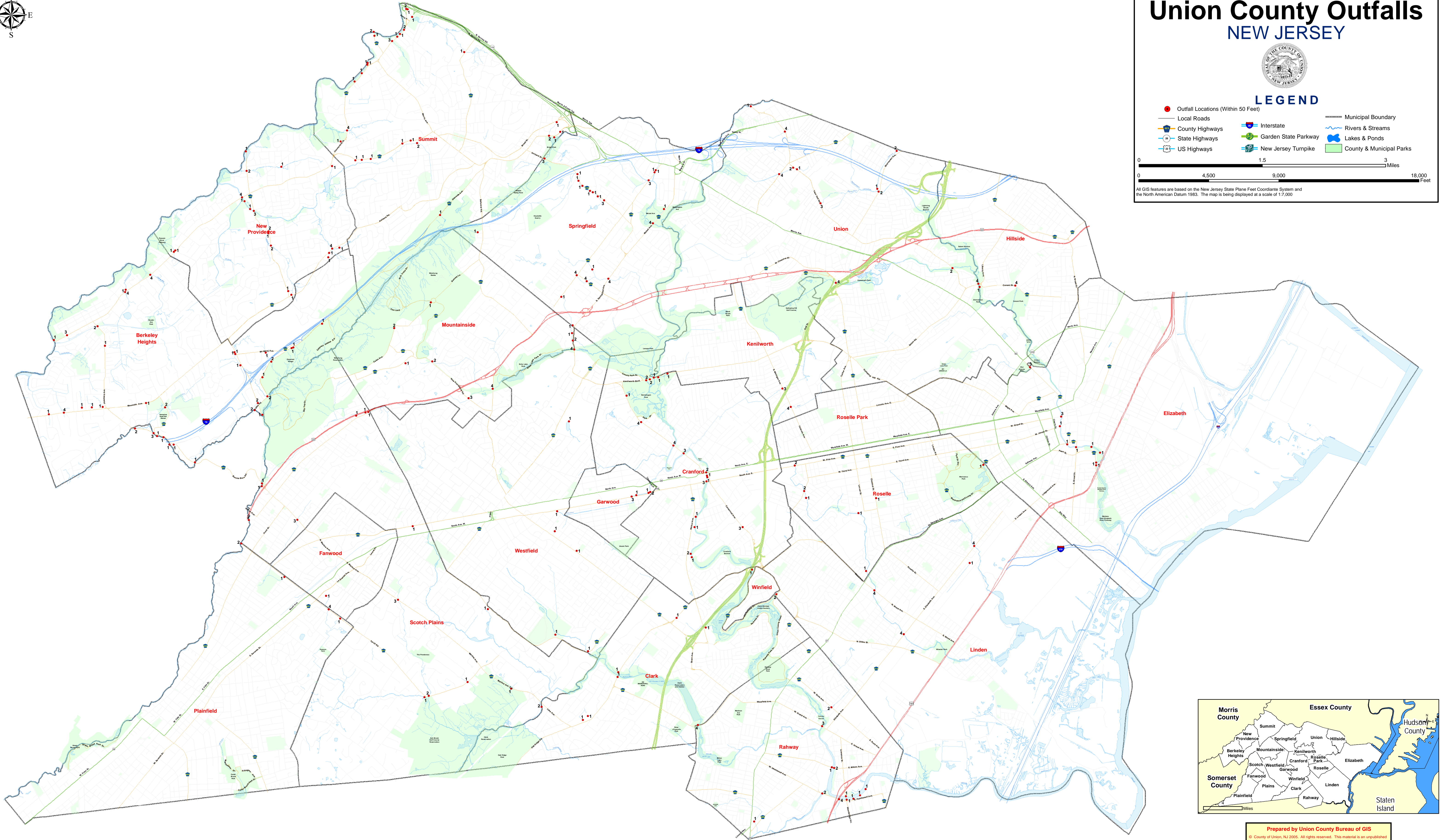


LEGEND

- Outfall Locations (Within 50 Feet)
- Local Roads
- County Highways
- State Highways
- US Highways
- Interstate
- Garden State Parkway
- New Jersey Turnpike
- Municipal Boundary
- Rivers & Streams
- Lakes & Ponds
- County & Municipal Parks



All GIS features are based on the New Jersey State Plane Feet Coordinate System and the North American Datum 1983. The map is being displayed at a scale of 1:7,200.



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 Department of Public Works
 Division of Engineering
 Bureau of GIS
 Map No. 020302

Union County Outfall Data

February 3, 2020

367 Outfalls

ID	ROAD	MUNICIPALITY	WATERBODY	LOCATION	OUTFALL SIZE	PIPE MATERIAL	NOTES	Visible	Accessible	Under Road	OLD_ID	BRIDGE_ID	BR.CG_ID	X	Y	Sheet Num
2001002A	Diamond Hill Rd.	Berkeley Heights	14-14-8-1	Diamond Hill Rd near McMane Ave	18						Be002A	Be2	2001002	517106.00	517106.00	65
2001003A	Plainfield Ave.	Berkeley Heights	3-58	Plainfield Ave @ Park Ave	15							Be3		508325.00	508325.00	67
2001003B	Plainfield Ave.	Berkeley Heights	3-58	Plainfield Ave @ Park Ave			Size Unknown					Be3		508327.00	508327.00	67
2001004A	Plainfield Ave.	Berkeley Heights	3-58	Plainfield Ave @ Harwood Ave			Size Unknown	No			Be004A	Be4		508797.00	508797.00	67
2001008A	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave over Green Brook	18					Yes	Be008A	Be8	2001008	510728.00	510728.00	67
2001008B	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave over Green Brook	15					Yes	Be008B	Be8	2001008	510715.00	510715.00	67
2001011A	Glenside Ave	Berkeley Heights	14-14	Glenside Ave near Valley Rd	16	RCP		No			Be011A	Be11		518908.00	518908.00	61
2001013A	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Horseshoe Rd	15	RCCP				Yes		Be13		511908.00	511908.00	67
2001013B	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Horseshoe Rd	15	RCCP				Yes		Be13		511926.00	511926.00	67
2001013C	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Horseshoe Rd	15	RCCP				Yes		Be13		511932.00	511932.00	67
2001014A	Valley Rd.	Berkeley Heights	14-14	Valley Rd near Twin Falls Rd.	15							Be14		518376.00	518376.00	61
2001014B	Valley Rd.	Berkeley Heights	14-14	Valley Rd near Twin Falls Rd.	15							Be14		518420.00	518420.00	61
2001016A	Springfield Ave.	Berkeley Heights	3- 54	Springfield Ave near Robbins Ave	15						Be016A	Be16	2001016	511676.00	511676.00	13
2001016B	Springfield Ave.	Berkeley Heights	3- 54	Springfield Ave near Robbins Ave	15						Be016B	Be16	2001016	511703.00	511703.00	13
2001016C	Springfield Ave.	Berkeley Heights	3- 54	Springfield Ave near Robbins Ave	15						Be016C	Be16	2001016	511726.00	511726.00	13
2001016D	Springfield Ave.	Berkeley Heights	3- 54	Springfield Ave near Robbins Ave	15						Be016D	Be16	2001016	511732.00	511732.00	13
2001017A	Springfield Ave.	Berkeley Heights	3	Springfield Ave over Passaic River	18		West of Bridge				Be017xA	Be17	2001017	505518.00	505518.00	13
2001019A	Springfield Ave.	Berkeley Heights	3-55	Springfield Ave near Kuntz Ave	24						Be019A	Be19	2001019	510074.00	510074.00	13
2001019B	Springfield Ave.	Berkeley Heights	3-55	Springfield Ave near Kuntz Ave	15						Be019B	Be19	2001019	510099.00	510099.00	13
2001019C	Springfield Ave.	Berkeley Heights	3-55	Springfield Ave near Kuntz Ave	15						Be019C	Be19	2001019	510088.00	510088.00	13
2001019D	Springfield Ave.	Berkeley Heights	3-55	Springfield Ave near Kuntz Ave	15						Be019D	Be19	2001019	510110.00	510110.00	13
2001023A	Springfield Ave.	Berkeley Heights	3-58	Springfield Ave near Passaic St	12							Be23		506354.00	506354.00	13
2001023B	Springfield Ave.	Berkeley Heights	3-58	Springfield Ave near Passaic St	12							Be23		506378.00	506378.00	13
2001023C	Springfield Ave.	Berkeley Heights	3-58	Springfield Ave near Passaic St	15							Be23		506378.00	506378.00	13
2001024A	Mountainside Ave.	Berkeley Heights	3-61	Mountain Ave near Yale St	30		Size Unknown	No			Be024A	Be24		507314.00	507314.00	63
2001025A	Mountainside Ave.	Berkeley Heights	3-61-1	Mountain Ave near Inwood Dr	30		Size Unknown	No			Be025A	Be25		507954.00	507954.00	63
2001026A	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Sherbrook Dr	18							Be26		506157.00	506157.00	63
2001026B	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Sherbrook Dr	18							Be26		506172.00	506172.00	63
2001026C	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Sherbrook Dr	18							Be26		506161.00	506161.00	63
2001026D	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Sherbrook Dr	24							Be26		506174.00	506174.00	63
2001037A	Glenside Ave	Berkeley Heights	14-14	Glenside Ave 400' West of Cataract Hollow Rd	16	RCP	outfall location may not be correct	No	No		Be037A	Be37		522733.00	522733.00	61
2001039A	Mountainside Ave.	Berkeley Heights	3-60	Mountain Ave @ Deep Dale Dr	36		Size Unknown	No			Be039A	Be39		508658.00	508658.00	63
2001040A	Diamond Hill Rd.	Berkeley Heights	14-14-8-1	Diamond Hill Rd near McMane Ave	15	RCP		No			Be040A	Be40		517493.00	517493.00	65
2001044A	Kuntz Ave.	Berkeley Heights	3-55	Kuntz Ave near Springfield Ave	18		Adjacent Outfall is Municipality's Responsibility				Be044A	Be44	2001044	510132.00	510132.00	13
2001051A	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave 400: North of Valley Rd	15						Be051A	Be51	2001051	514575.00	514575.00	67
2001056A	Valley Road	Berkeley Heights	14-14-8-1	Valley Rd at Glenside Ave	15	RCP		No		Yes	Be056A	Be56	2001056	519221.00	519221.00	61
2001056B	Valley Road	Berkeley Heights	14-14-8-1	Valley Rd at Glenside Ave	15	RCP		No		Yes	Be056A	Be56	2001056	519226.00	519226.00	61
2001057A	Diamond Hill Rd.	Berkeley Heights	14-14-9	Diamond Hill Rd near Valley Rd	27	RCP		No			Be057B	Be57		518590.00	518590.00	61
2001057B	Diamond Hill Rd.	Berkeley Heights	14-14-9	Diamond Hill Rd near Valley Rd	27	RCP		No			Be057B	Be57		518633.00	518633.00	61
2001058A	Horseshoe Rd.	Berkeley Heights	14-14-11	Horse Shoe Rd near Watchung Way	15	RCP			Yes	No	Be058A	Be58	2001058	512654.00	512654.00	66
2001058B	Horseshoe Rd.	Berkeley Heights	14-14-11	Horse Shoe Rd near Watchung Way	15	RCP			Yes	No	Be058B	Be58	2001058	512658.00	512658.00	66
2001060A	Glenside Ave 2000' NE Valley	Berkeley Heights	14-14	Glenside Ave 2000' Northeast of Valley Rd	16	RCP	sw of #60	No			Be060A	Be60	2001060	519465.00	519465.00	61
2001061A	Glenside Ave	Berkeley Heights	14-14-7	Glenside Ave 1500' West McMane Ave	15							Be61		520778.00	520778.00	61
2001062A	Glenside Ave 900' NE McMane	Berkeley Heights	14-14	Glenside Ave 900' West McMane Ave	16			No			Be062A	Be62		520892.00	520892.00	61
2001063A	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Kent Dr	24			No			Be063A	Be63		505200.00	505200.00	64
2001x01	McMane Rd.	Berkeley Heights	14-14	McMane Rd near PVT Rd	42	RCP								519120.00	519120.00	62
2001x02A	Diamond Hill Rd.	Berkeley Heights	14-14-8-1	Diamond Hill Rd @ McMane Ave	18									517164.00	517164.00	65
2001x03A	Diamond Hill Rd.	Berkeley Heights	14-14	Diamond Hill Rd near County Border	15									518903.00	518903.00	65
2001x04A	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Rt 78 Overpass	12		May not be accessible							512145.00	512145.00	67
2001x04B	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Rt 78 Overpass	15		May not be accessible							512560.00	512560.00	67
2001x04C	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Rt 78 Overpass	15		May not be accessible							512935.00	512935.00	67
2001x04D	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Rt 78 Overpass	15									513206.00	513206.00	67
2001x05A	Mountain Ave.	Berkeley Heights	14-14-11	Mountain Ave near Oak Ridge Rd			Size Unknown							511434.00	511434.00	64
2002013A	Raritan Rd.	Clark	10-7-12	Raritan Rd 450' North of Central Ave			Size Unknown					Cl13		545494.00	545494.00	36
2002019A	Raritan Rd.	Clark	10-7	Raritan Rd over Reservoir	24							Cl19		541749.00	541749.00	36
2002019B	Raritan Rd.	Clark	10-7	Raritan Rd over Reservoir	48						Cl019A	Cl19	2002019	541711.00	541711.00	36
2002027A	Goodmans Crossing S.	Clark	10-7	Goodman's Crossing near Lake Ave	18	RCP			Yes			Cl27		536833.00	536833.00	24

2002027B	Goodmans Crossing S.	Clark	10-7	Goodman's Crossing near Lake Ave	18	RCP			Yes			CI27		536821.00	536821.00	24	
2002033A	Raritan Rd.	Clark	10-7-16-1	Raritan Rd @ Oak Ridge Rd	36				No			CI033A	CI33	539800.00	539800.00	24	
2002x01A	Oak Ridge Rd.	Clark	10-1-6-1	Oak Ridge Rd by Raritan Rd	18		Located behind house							539482.00	539482.00	24	
2002x02A	Walnut Ave.	Clark	10-14	Walnut Ave near GSP	24									547368.00	547368.00	30	
2002x03A	Raritan Rd.	Clark	10-20	Raritan Rd along GSP	24									550337.00	550337.00	35	
2003006A	Kenilworth Blvd.	Cranford	10-30	Kenilworth Blvd over Rahway River	18							Cr006A	Cr6	2003006	544035.00	544035.00	06
2003014A	Springfield Ave.	Cranford	10	Springfield Ave near Orange Ave Bridge	18							Cr014A	Cr14	2003014	545909.00	545909.00	16
2003014B	Springfield Ave.	Cranford	10	Springfield Ave near Orange Ave Bridge	15							Cr014A	Cr14	2003014	545955.00	545955.00	16
2003014C	Springfield Ave.	Cranford	10	Springfield Ave near Orange Ave Bridge	15							Cr014A	Cr14	2003014	545988.00	545988.00	16
2003018A	Kenilworth Blvd.	Cranford	10-29	Kenilworth Blvd near Nomahegan Rd	15							Cr018A	Cr18	2003018	543530.00	543530.00	06
2003018B	Kenilworth Blvd.	Cranford	10-29	Kenilworth Blvd near Nomahegan Rd	24							Cr018A	Cr18	2003018	543546.00	543546.00	06
2003028A	South Ave.	Cranford	10	South Ave near Centennial Ave	21							Cr028A	Cr28	2003028	547441.00	547441.00	16
2003028B	South Ave.	Cranford	10	South Ave near Centennial Ave	24							Cr028B	Cr28	2003028	547441.00	547441.00	16
2003028C	South Ave.	Cranford	10	South Ave near Centennial Ave	21							Cr028A	Cr28	2003028	547366.00	547366.00	39
2003035A	North Ave.	Cranford	10	North Ave near Springfield Ave	12								Cr35		547392.00	547392.00	16
2003035B	North Ave.	Cranford	10	North Ave near Springfield Ave	21								Cr35		547391.00	547391.00	16
2003050A	Springfield Ave.	Cranford	10-27	Springfield Ave near Romore Ave			Size Unknown					Cr050A	Cr50	2003050	543197.00	543197.00	16
2003050B	Springfield Ave.	Cranford	10-27	Springfield Ave near Romore Ave			Size Unknown					Cr050A	Cr50	2003050	543218.00	543218.00	16
2003050C	Springfield Ave.	Cranford	10-27	Springfield Ave near Romore Ave			Size Unknown					Cr050A	Cr50	2003050	543213.00	543213.00	16
2003050D	Springfield Ave.	Cranford	10-27	Springfield Ave near Romore Ave			Size Unknown					Cr050A	Cr50	2003050	543234.00	543234.00	16
2003051A	Springfield Ave.	Cranford	10-27	Springfield Ave near Pawnee Rd	48				No			Cr051A	Cr51		542285.00	542285.00	16
2003052A	Walnut Ave.	Cranford	10	Walnut Ave near Lincoln Ave West									Cr52		546721.00	546721.00	29
2003053A	Walnut Ave.	Cranford	10	Walnut Ave @ Blake St	24				No			Cr053A	Cr53		546651.00	546651.00	29
2003054A	Walnut Ave.	Cranford	10-20	Walnut Ave near Lenhome Dr S	15		Unknown Location		No			Cr054A	Cr54		546404.00	546404.00	30
2003054B	Walnut Ave.	Cranford	10-20	Walnut Ave near Lenhome Dr S	30		Unknown Location		No			Cr054A	Cr54		546405.00	546405.00	30
2003058A	Cennennial Ave.	Cranford	10-18	Centennial Ave @ near Wall Street	15							Cr058A	Cr58	2003058	549735.00	549735.00	17
2003058B	Cennennial Ave.	Cranford	10-18	Centennial Ave @ near Wall Street	15							Cr058A	Cr58	2003058	549722.00	549722.00	17
2003058C	Cennennial Ave.	Cranford	10-18	Centennial Ave @ near Wall Street	15							Cr058A	Cr58	2003058	549752.00	549752.00	17
2003072A	Springfield Ave.	Cranford	10	Springfield Ave near Hampton Rd	12							Cr072A	Cr72	2003072	545260.00	545260.00	16
2003072B	Springfield Ave.	Cranford	10	Springfield Ave near Hampton Rd	12							Cr072A	Cr72	2003072	545275.00	545275.00	16
2003072C	Springfield Ave.	Cranford	10	Springfield Ave near Hampton Rd	36							Cr072A	Cr72	2003072	545298.00	545298.00	16
2003072D	Springfield Ave.	Cranford	10	Springfield Ave near Hampton Rd	12							Cr072A	Cr72	2003072	545322.00	545322.00	16
2003X01A	Kenilworth Blvd.	Cranford	10-30	Kenilworth Blvd before Rahway River	15									544312.00	544312.00	06	
2003x01B	Kenilworth Blvd .	Cranford	10-30	Kenilworth Blvd near Dorset Dr	12									544914.00	544914.00	06	
2003X02A	Kenilworth Blvd.	Cranford	10-29	Kenilworth Blvd after Rahway River	15									543772.00	543772.00	06	
2003X02B	Kenilworth Blvd.	Cranford	10-29	Kenilworth Blvd after Rahway River	15									543789.00	543789.00	06	
2003x03A	Centennial Ave.	Cranford	10	Centennial Ave under RR bridge	24									547446.00	547446.00	16	
2003x03B	Centennial Ave.	Cranford	10	Centennial Ave under RR bridge	24									547467.00	547467.00	16	
2003x04A	Walnut Ave.	Cranford	10-20	Walnut Ave along RR tracks	24									546469.00	546469.00	30	
2004005A	South St.	Elizabeth	08	South St over Elizabeth River	18					Yes		EI005A	EI5	2004005	572432.00	572432.00	71
2004006A	Bridge St.	Elizabeth	08	Bridge St over Elizabeth River	12					Yes		EI006A	EI6	2004006	572132.00	572132.00	71
2004007A	S. Broad St.	Elizabeth	08	S Broad St over Elizabeth River	12					Yes		EI007A	EI7	2004007	571133.00	571133.00	71
2004010A	W. Jersey St.	Elizabeth	08	W Jersey St over Elizabeth River			Size Unknown					EI010A	EI10	2004010	570098.00	570098.00	56
2004011A	W. Grand St.	Elizabeth	08	W Grand St over Elizabeth River	12					Yes		EI011A	EI11	2004011	570181.00	570181.00	37
2004011B	W. Grand St.	Elizabeth	08	W Grand St over Elizabeth River	15					Yes		EI011A	EI11	2004011	570183.00	570183.00	37
2004011C	W. Grand St.	Elizabeth	08	W Grand St over Elizabeth River	12					Yes		EI011A	EI11	2004011	570185.00	570185.00	37
2004016A	Morris Ave.	Elizabeth	8-2	Trotters Ln over Elizabeth River	18								EI16		568166.00	568166.00	02
2004016B	Morris Ave.	Elizabeth	8-2	Trotters Ln over Elizabeth River	18								EI16		568168.00	568168.00	02
2004016C	Morris Ave.	Elizabeth	8-2	Trotters Ln over Elizabeth River	18								EI16		568192.00	568192.00	02
2004x01A	Linden Ave.	Elizabeth	9-2-3-1	Linden Ave near Acme St	15					Yes				565191.00	565191.00	58A	
2004x02A	Pearl St.	Elizabeth	08	Pearl St near Bridge St	36									572673.00	572673.00	71	
2004x03A	Pearl St.	Elizabeth	08	Pearl St near South St	15		32 Rahway Avenue							572429.00	572429.00	71	
2004x04A	Rahway Ave.	Elizabeth	08	Ruotolo Justice Center Parking Lot	15									570567.90	665969.31		
2005001A	La Grande Ave.	Fanwood	10-7-22	LaGrande Ave near Staggard Pl	66	RCP						Fa001A	Fa1		522995.00	522995.00	47
2006009A	South Ave.	Garwood	10-25	South Ave @ Elise St	15	RCP						Ga009A	Ga9	2006009	543810.00	543810.00	40
2006009B	South Ave.	Garwood	10-25	South Ave @ Elise St	15	RCP						Ga009A	Ga9	2006009	543802.00	543802.00	40
2006009C	South Ave.	Garwood	10-25	South Ave @ Elise St	24	RCP						Ga009A	Ga9	2006009	543689.00	543689.00	40
2006011A	South Ave.	Garwood	10-25	South Ave near Oak St	30	RCP						Ga011A	Ga11	2006011	542605.00	542605.00	40
2006011B	South Ave.	Garwood	10-25	South Ave near Oak St	15	RCP						Ga011A	Ga11	2006011	542606.00	542606.00	40
2006011C	South Ave.	Garwood	10-25	South Ave near Oak St	15	RCP						Ga011A	Ga11	2006011	542613.00	542613.00	40
2006x01A	South Ave.	Garwood	10-25	South Ave @ New St	15		Unknown Location							542909.00	542909.00	40	
2007020A	Liberty Ave.	Hillside	08	Liberty Ave near Conant St	15	RCP	New Construction (2007)			Yes		Hi020A	Hi20	2007020	564889.00	564889.00	43
2007020B	Liberty Ave.	Hillside	08	Liberty Ave near Conant St	15	RCP	New Construction (2007)					Hi020B	Hi20	2007020	564914.00	564914.00	43

2007020C	Liberty Ave.	Hillside	08	Liberty Ave near Conant St	24	RCP	New Construction (2007)			Yes	Hi020C	Hi20	2007020	564805.00	564805.00	43
2007020D	Liberty Ave.	Hillside	08	Liberty Ave near Conant St	15	RCP	New Construction (2007)			Yes	Hi020C	Hi20	2007020	564827.00	564827.00	43
2007032A	Conant St.	Hillside	8-5	Conant St @ Central Ave	15		Outfall to Culvert	No	No	Yes		Hi32		567184.00	567184.00	66
2007032B	Conant St.	Hillside	8-5	Conant St @ Central Ave	18		Outfall to Culvert	No	No	Yes		Hi32		567224.00	567224.00	66
2007032C	Conant St.	Hillside	8-5	Conant St @ Central Ave	12		Outfall to Culvert	No	No	Yes		Hi32		567231.00	567231.00	66
2007032D	Conant St.	Hillside	8-5	Conant St @ Central Ave	12		Outfall to Culvert	No	No	Yes		Hi32		567285.00	567285.00	66
2007x01A	Conant St.	Hillside	08	Conant St near Valley View Rd	18									564948.00	564948.00	66
2008002A	Michigan Ave.	Kenilworth	10-24	Michigan Ave near Trenton Ave	18	RCP					Ke002A	Ke2		552260.00	552260.00	55
2008002B	Michigan Ave.	Kenilworth	10-24	Michigan Ave near Trenton Ave	36	RCP					Ke002B	Ke2		552314.00	552314.00	55
2008002C	Michigan Ave.	Kenilworth	10-24	Michigan Ave near Trenton Ave	18	RCP					Ke002C	Ke2		552283.00	552283.00	55
2008003A	Michigan Ave.	Kenilworth	9-1	Michigan Ave near Lexington Ave	18	RCP					Ke003A	Ke3	2008003	552804.00	552804.00	55
2008003B	Michigan Ave.	Kenilworth	9-1	Michigan Ave near Lexington Ave	18	RCP					Ke003B	Ke3	2008003	552844.00	552844.00	55
2008003C	Michigan Ave.	Kenilworth	9-1	Michigan Ave near Lexington Ave	15	RCP					Ke003C	Ke3	2008003	552810.00	552810.00	55
2008003D	Michigan Ave.	Kenilworth	9-1	Michigan Ave near Lexington Ave	15	RCP					Ke003C	Ke3	2008003	552849.00	552849.00	55
2009014A	Elizabeth Ave.	Linden	9-1	Elizabeth Ave near Lumber St	24	RCP				Yes	Li014A	Li14	2009014	560068.00	560068.00	73
2009014B	Elizabeth Ave.	Linden	9-1	Elizabeth Ave near Lumber St	24	RCP				Yes	Li014B	Li14	2009014	560077.00	560077.00	73
2009014C	Elizabeth Ave.	Linden	9-1	Elizabeth Ave near Lumber St	18	RCP				Yes	Li014C	Li14	2009014	560084.00	560084.00	73
2009014D	Elizabeth Ave.	Linden	9-1	Elizabeth Ave near Lumber St	18	RCP				Yes	Li014D	Li14	2009014	560094.00	560094.00	73
2009016B	Elizabeth Ave.	Linden	9-2	Elizabeth Ave near Cranford Ave	18	RCP				Yes	Li016B	Li16	2009016	564597.00	564597.00	73
2009016C	Elizabeth Ave.	Linden	9-2	Elizabeth Ave near Cranford Ave	18	RCP				Yes	Li016C	Li16	2009016	564611.00	564611.00	73
2009016D	Elizabeth Ave.	Linden	9-2	Elizabeth Ave near Cranford Ave	18	RCP				Yes	Li016D	Li16	2009016	564618.00	564618.00	73
2009055A	Elizabeth Ave.	Linden	9-2-1-1	Elizabeth Ave near Chandler Ave			Size Unknown	No			Li055A	Li55	2009055	564305.00	564305.00	73
2009058A	Parkway Dr.	Linden	10-12-1	Parkway Dr near Stiles St	60	RCP					Li058A	Li58	2009058	551894.00	551894.00	51
2009074A	Wood Ave.	Linden	9-1	Wood Ave near Gibbons St	15	RCP					Li074A	Li74	2009074	558168.00	558168.00	34
2009074B	Wood Ave.	Linden	9-1	Wood Ave near Gibbons St	15	RCP					Li074B	Li74	2009074	558187.00	558187.00	34
2009074C	Wood Ave.	Linden	9-1	Wood Ave near Gibbons St	12	RCP					Li074C	Li74	2009074	558186.00	558186.00	34
2009074D	Wood Ave.	Linden	9-1	Wood Ave near Gibbons St	12	RCP					Li074D	Li74	2009074	558206.00	558206.00	34
2009082A	Wood Ave.	Linden	9-1	Wood Ave @ Morningside Rd			Size Unknown	No			Li082A	Li82		557658.00	557658.00	34
2009092A	Stiles St	Linden	10-12-1	Stiles St near Birchwood Rd	30						Li092A	Li92		551894.00	551894.00	51
2009i016A	Elizabeth Ave.	Linden	9-2	Elizabeth Ave near Cranford Ave	18	RCP				Yes	Li016A	Li16	2009016	564587.00	564587.00	73
200x06A	Glenside Ave	Berkeley Heights	14-14	Glenside Ave near Springholm Dr	15		outfall may not be in correct place							519498.00	519498.00	61
2010002A	New Providence Rd.	Mountainside	10-29	New Providence Rd near Fernwood Rd	15	RCP					Mo002A	Mo2	2010002	532124.00	532124.00	58A
2010002B	New Providence Rd.	Mountainside	10-29	New Providence Rd near Fernwood Rd	15	RCP					Mo002B	Mo2	2010002	532135.00	532135.00	58A
2010002C	New Providence Rd.	Mountainside	10-29	New Providence Rd near Fernwood Rd	18	RCP					Mo002B	Mo2	2010002	532160.00	532160.00	58A
2010005A	New Providence Rd.	Mountainside	10-29-3-1a	New Providence Rd near Whippoorwill Way	24			No			Mo005A	Mo5		529828.00	529828.00	59
2010005B	New Providence Rd.	Mountainside	10-29-3-1a	New Providence Rd near Whippoorwill Way	18			No			Mo005A	Mo5		529789.00	529789.00	59
2010006A	Mountain Ave.	Mountainside	10-29	Mountain Ave near Tanglewood Lane	15	RCP					Mo006A	Mo6	2010006	533675.00	533675.00	44
2010006B	Mountain Ave.	Mountainside	10-29	Mountain Ave near Tanglewood Lane	15	RCP					Mo006A	Mo6	2010006	533712.00	533712.00	44
2010006C	Mountain Ave.	Mountainside	10-29	Mountain Ave near Tanglewood Lane	15	RCP					Mo006A	Mo6	2010006	533675.00	533675.00	44
2010006D	Mountain Ave.	Mountainside	10-29	Mountain Ave near Tanglewood Lane	18	RCP					Mo006A	Mo6	2010006	533712.00	533712.00	44
2010029A	Coles Ave.	Mountainside	14-14	Coles Ave near New Providence Rd	18					Yes		Mo29		527352.00	527352.00	68
2010029B	Coles Ave.	Mountainside	14-14	Coles Ave near New Providence Rd	15					Yes		Mo29		527383.00	527383.00	68
20101AA	Deer Path	Mountainside	10-29-7	Deer Path near Fox Trail Ln	48	RCP					Mo1AA	Mo1A	201001a	528088.00	528088.00	59
2010x01A	S. Springfield Ave.	Mountainside	10-29-1	S Springfield Ave near Cardinal Dr	24		Outfall has been piped in, check basins		No					538778.00	538778.00	15
2010x02A	Summit Ln.	Mountainside	10-29-3	Summit Ln near W R. Tracy Dr	15			Yes	Yes					529717.00	529717.00	68
2011007A	South St.	New Providence	3-51	South St south of Gale Dr	15	RCP					Ne007A	Ne7	2011007	518364.00	518364.00	58
2011007B	South St.	New Providence	3-51	South St south of Gale Dr	15	RCP					Ne007B	Ne7	2011007	518330.00	518330.00	58
2011007C	South St.	New Providence	3-51	South St south of Gale Dr	15	RCP					Ne007C	Ne7	2011007	518372.00	518372.00	58
2011010A	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Countryside Dr	24	RCP				Yes	Ne010A	Ne10	2011010	523372.00	523372.00	63
2011010B	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Countryside Dr	15	RCP				Yes	Ne010B	Ne10	2011010	523378.00	523378.00	63
2011010C	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Countryside Dr	15	RCP				Yes	Ne010C	Ne10	2011010	523398.00	523398.00	63
2011010D	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Countryside Dr	30	RCP				Yes	Ne010D	Ne10	2011010	523394.00	523394.00	63
2011018A	Springfield Ave.	New Providence	3-53	Springfield Ave near Union Ave	15				No		Ne18			513220.00	513220.00	12
2011027A	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Seven Oaks Dr	18			No	No		Ne027A	Ne27		523853.00	523853.00	63
2011037A	South St.	New Providence	3-51-2	South St near Floral Ave	15	RCP					Ne037A	Ne37	2011037	519431.00	519431.00	58
2011037B	South St.	New Providence	3-51-2	South St near Floral Ave	15	RCP					Ne037B	Ne37	2011037	519463.00	519463.00	58
2011039A	South St.	New Providence	3-51-2	South St near Central Ave	15						Ne039A	Ne39	2011039	519297.00	519297.00	58
2011039B	South St.	New Providence	3-51-2	South St near Central Ave	15						Ne039A	Ne39	2011039	519301.00	519301.00	58
2011039C	South St.	New Providence	3-51-2	South St near Central Ave	18						Ne039A	Ne39	2011039	519313.00	519313.00	58
2011047A	Springfield Ave.	New Providence	3-51	Springfield Ave near South St	15	RCP					Ne047A	Ne47	2011047	517569.00	517569.00	12
2011047B	Springfield Ave.	New Providence	3-51	Springfield Ave near South St	15	RCP					Ne047B	Ne47	2011047	517589.00	517589.00	12
2011047C	Springfield Ave.	New Providence	3-51	Springfield Ave near South St	15	RCP					Ne047B	Ne47	2011047	517593.00	517593.00	12
2011047D	Springfield Ave.	New Providence	3-51	Springfield Ave near South St	15	RCP					Ne047B	Ne47	2011047	517625.00	517625.00	12

2011058A	Madison Ave.	New Providence	3-50	Madison Ave near Elkwood Ave	24								Ne58		520120.00	520120.00	12	
2011060A	Passaic St.	New Providence	3	Passaic St over Passaic River	18								Ne060A	Ne60	2011060	517849.00	517849.00	48
2011063A	Springfield Ave.	New Providence	3-51	Old Springfield Ave & RR	18			Located by RR					Ne63			523382.00	523382.00	11
2011074A	Passaic Ave.	New Providence	3-50	Passaic Ave near Brook Rd	15								Ne074A	Ne74	2011074	517873.00	517873.00	58
2011074B	Passaic Ave.	New Providence	3-50	Passaic Ave near Brook Rd	15								Ne074A	Ne74	2011074	517911.00	517911.00	58
2011086A	Mountain Ave.	New Providence	3-51-2	Mountain Ave near South St	42						No		Ne086A	Ne86		520766.00	520766.00	69
2011x01A	Springfield Ave.	New Providence	3-53	Springfield Ave @ Union Ave	15			Outfall at H.D Wall								513310.00	513310.00	12
2011x02A	South St.	New Providence	3-51-2	South St near Mountain Ave	15											520564.00	520564.00	58
2011x03A	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Maple St	12											523194.00	523194.00	63
2011x03B	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Maple St	21						No					523136.00	523136.00	63
2011x05A	South St.	New Providence	3-51	South St near Gales Dr				Size Unknown								518121.00	518121.00	58
2011x06A	South St.	New Providence	3-51	South St near Springfield Ave	21											517760.00	517760.00	58
2012060A	Terrill Rd.	Plainfield	14-14-3-4-2	Terrill Rd near St Nicholas Blvd						Yes	Yes			PI60		520322.00	520322.00	22
2012061A	Terrill Rd.	Plainfield	10-7-22	Terrill Rd near White Wood Ct	24					No		Yes		PI61		523145.00	523145.00	22
2012061B	Terrill Rd.	Plainfield	10-7-22	Terrill Rd near White Wood Ct	15					No		Yes		PI61		523157.00	523157.00	22
2012061C	Terrill Rd.	Plainfield	10-7-22	Terrill Rd near White Wood Ct	30					No		Yes		PI61		523161.00	523161.00	22
2012061D	Terrill Rd.	Plainfield	10-7-22	Terrill Rd near White Wood Ct	15					No		Yes		PI61		523170.00	523170.00	22
2012062A	Terrill Rd.	Plainfield	10-7-22-7	Terrill Rd near Cambridge Ave	48					Yes	Yes			PI62		523899.00	523899.00	22
2013009A	Hazelwood Ave.	Rahway	10-6	Hazelwood Ave near Leesville Ave	10							Yes	Ra009A	Ra9	2013009	554853.00	554853.00	31
2013009B	Hazelwood Ave.	Rahway	10-6	Hazelwood Ave near Leesville Ave	10								Ra009A	Ra9	2013009	554839.00	554839.00	31
2013021A	Milton Ave.	Rahway	10	Milton Ave over Rahway River	18								Ra021A	Ra21	2013021	555462.00	555462.00	33
2013021B	Milton Ave.	Rahway	10	Milton Ave over Rahway River	42								Ra021A	Ra21	2013021	555611.00	555611.00	33
2013021C	Milton Ave.	Rahway	10	Milton Ave over Rahway River	15								Ra021A	Ra21	2013021	555608.00	555608.00	33
2013023A	Lawrence St.	Rahway	10	Lawrence St near Hazelwood Ave	24	RCP							Ra023A	Ra23	2013023	556365.00	556365.00	56
2013023B	Lawrence St.	Rahway	10	Lawrence St near Hazelwood Ave	30	RCP							Ra023A	Ra23	2013023	556417.00	556417.00	56
2013028A	Madison Ave.	Rahway	10-7	Madison Hill Road near Kanski Ct	15	RCCP							Ra028A	Ra28	2013028	546849.00	546849.00	25
2013028B	Madison Ave.	Rahway	10-7	Madison Hill Road near Kanski Ct	15	RCCP							Ra028B	Ra28	2013028	546890.00	546890.00	25
2013028C	Madison Ave.	Rahway	10-7	Madison Hill Road near Kanski Ct	24	RCCP							Ra028C	Ra28	2013028	546851.00	546851.00	25
2013028D	Madison Ave.	Rahway	10-7	Madison Hill Road near Kanski Ct	18	RCCP							Ra028D	Ra28	2013028	546890.00	546890.00	25
2013030A	W. Grand Ave.	Rahway	10	West Grand Ave near Linden Ave				Size Unknown, May not exist					Ra030A	Ra30	2013030	554818.00	554818.00	29
2013030B	W. Grand Ave.	Rahway	10	West Grand Ave near Linden Ave	12	VIT						Yes	Ra030A	Ra30	2013030	554849.00	554849.00	29
2013030C	W. Grand Ave.	Rahway	10	West Grand Ave near Linden Ave	12	VIT						Yes	Ra030A	Ra30	2013030	554838.00	554838.00	29
2013048A	W. Scott Ave.	Rahway	10-8	W Scott Ave near Allen St	12	VC;RCP						Yes	Ra048A	Ra48	2013048	555421.00	555421.00	65
2013048B	W. Scott Ave.	Rahway	10-8	W Scott Ave near Allen St	24	VC;RCP						Yes	Ra048B	Ra48	2013048	555450.00	555450.00	65
2013068A	New Brunswick Ave.	Rahway	10-6-2	New Brunswick Ave near St Georges Ave	15								Ra068A	Ra68		550477.00	550477.00	32
2013069A	Hazelwood Ave.	Rahway	10-5	Hazelwood Ave near Route 1 & 9	12	VC;3RCP						Yes	Ra069A	Ra69	2013069	555914.00	555914.00	31
2013069B	Hazelwood Ave.	Rahway	10-5	Hazelwood Ave near Route 1 & 9	12	VC;3RCP						Yes	Ra069B	Ra69	2013069	555931.00	555931.00	31
2013069C	Hazelwood Ave.	Rahway	10-5	Hazelwood Ave near Route 1 & 9	12	VC;3RCP						Yes	Ra069C	Ra69	2013069	555920.00	555920.00	31
2013069D	Hazelwood Ave.	Rahway	10-5	Hazelwood Ave near Route 1 & 9	12	VC;3RCP						Yes	Ra069D	Ra69	2013069	555936.00	555936.00	31
2013x01A	Hazelwood Ave.	Rahway	10	Hazelwood Ave @ Clark St	21											556845.00	556845.00	32
2013x01B	Hazelwood Ave.	Rahway	10	Hazelwood Ave @ Stockton St	39											557277.00	557277.00	32
2013x01C	Hazelwood Ave.	Rahway	10	Hazelwood Ave @ Witherspoon St	42											557630.00	557630.00	32
2014029A	Amersterdam Ave.	Roselle	9-1	Cristiani St near Amsterdam Ave	24							Yes		Ro29		553806.00	553806.00	62
2014030A	Amersterdam Ave.	Roselle	9-1	Amsterdam Ave near Cox St	12	RCP				No		Yes	Ro030A	Ro30	2014030	553687.00	553687.00	62
2014030B	Amersterdam Ave.	Roselle	9-1	Amsterdam Ave near Cox St	12	RCP				No		Yes	Ro030B	Ro30	2014030	553683.00	553683.00	62
2014039A	First Ave.	Roselle	9-1	FirSt Ave near Aldene Rd	24							No		Ro39		553085.00	553085.00	38
2014039B	First Ave.	Roselle	9-1	FirSt Ave near Aldene Rd	18			May not be accessible			No			Ro39		553067.00	553067.00	38
2014066A	Chestnut St.	Roselle	9-2-4	Chestnut St near Seventh Ave	24									Ro66		558297.00	558297.00	04
2014x01A	W. Ninth Ave.	Roselle	9-1	W 9th Ave by RR Crossing				Size: 20"x36"								557169.00	557169.00	39
2016006A	Terrill Rd.	Scotch Plains	10-7-22	Raritan Rd West of Terrill Rd	36			Possible additional Outfall		Yes	Yes			Sc6		529313.00	529313.00	23
2016007A	Raritan Rd.	Scotch Plains	10-7-22-1	Raritan Rd EaSt of Terrill Rd	15	RCP						Yes	Sc007A	Sc7	2016007	529576.00	529576.00	23
2016007B	Raritan Rd.	Scotch Plains	10-7-22-1	Raritan Rd EaSt of Terrill Rd	18	RCP						Yes	Sc007B	Sc7	2016007	529593.00	529593.00	23
2016013A	Park Ave.	Scotch Plains	14-14	Park Ave near Route 22	18	RCP		Possible additional Outfall					Sc013A	Sc13	2016013	518871.00	518871.00	21
2016014A	Park Ave.	Scotch Plains	14-14-3-4	Park Ave near Church St	42	RCP							Sc014A	Sc14	2016014	521140.00	521140.00	20
2016014B	Park Ave.	Scotch Plains	14-14-3-4	Park Ave near Church St	15	RCP							Sc014B	Sc14	2016014	521142.00	521142.00	20
2016014C	Park Ave.	Scotch Plains	14-14-3-4	Park Ave near Church St	30	RCP							Sc014C	Sc14	2016014	521174.00	521174.00	20
2016017A	Terrill Rd.	Scotch Plains	14-14	Terrill Rd over Green Brook	18	RCP		Possible incorrect storm drain lines			Yes		Sc017A	Sc17	2016017	517524.00	517524.00	22
2016017B	Terrill Rd.	Scotch Plains	14-14	Terrill Rd over Green Brook	18	RCP		Possible incorrect storm drain lines			Yes		Sc017B	Sc17	2016017	517561.00	517561.00	22
2016022A	Martine Ave.	Scotch Plains	10-7-22-1	Martine Ave near Cliffwood St	42	RCP		Possible incorrect number of Outfalls				Yes	Sc022A	Sc22	2016022	527602.00	527602.00	20
2016022B	Martine Ave.	Scotch Plains	10-7-22-1	Martine Ave near Cliffwood St	30	RCP						Yes	Sc022B	Sc22	2016022	527607.00	527607.00	20
2016022C	Martine Ave.	Scotch Plains	10-7-22-1	Martine Ave near Cliffwood St	30	RCP						Yes	Sc022C	Sc22	2016022	527615.00	527615.00	20
2016056A	Lamberts Mill Rd.	Scotch Plains	10-7-15	Lamberts Mill Rd near LVRR	15	RCP							Sc056A	Sc56	2016056	539808.00	539808.00	69
2016x01A	Mountain Ave.	Scotch Plains	14-14	End of Mountain Ave	18			Unknown Location								518028.00	518028.00	17

2016x01B	Mountain Ave.	Scotch Plains	14-14	End of Mountain Ave	30		Unknown Location										518033.00	518033.00	17	
2016x02A	Mountain Ave.	Scotch Plains	14-14-6	Mountain Ave by Route 22	24		Runoff to Ditch											524932.00	524932.00	18
2016x02B	Mountain Ave.	Scotch Plains	14-14-6	Mountain Ave by Route 22	18		Runoff to Ditch											525519.00	525519.00	18
2016x02C	Mountain Ave.	Scotch Plains	14-14-6	Mountain Ave by Route 22	18		Runoff to Ditch											525699.00	525699.00	18
2016x03A	Bonnie Burn Rd.	Scotch Plains	14-14	Bonnie Burn Rd by Route 22	18													518860.00	518860.00	21
2016x04A	Raritan Rd.	Scotch Plains	10-7	Raritan Rd near Black Birch Rd	42													532080.00	532080.00	23
2016x05A	Martine Ave.	Scotch Plains	10-7	Martine Ave near Country Club Blvd	15		Unknown Location											534873.00	534873.00	75
2017002A	Mountain Ave.	Springfield	10-35-2	Mountain Ave @ Hannah St	15	RCP		No					Sp002A	Sp2	2017002		544081.00	544081.00	19	
2017005A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd near Baltusrol Way	15	RCP							Sp005A	Sp5			539937.00	539937.00	14	
2017009A	Shunpike Rd.	Springfield	10-35	Shunpike Rd @ Town Line with Summit	08	RCP	Located downstream						Sp009A	Sp9	2017009		537022.00	537022.00	13	
2017009B	Shunpike Rd.	Springfield	10-35	Shunpike Rd @ Town Line with Summit	18	RCP	Located downstream						Sp009B	Sp9	2017009		537048.00	537048.00	13	
2017009C	Shunpike Rd.	Springfield	10-35	Shunpike Rd @ Town Line with Summit	15	RCP							Sp009C	Sp9	2017009		536984.00	536984.00	13	
2017011A	Mountain Ave.	Springfield	10-35	Mountain Ave near Trivett Ave	18	RCP							Sp011A	Sp11	2017011		543728.00	543728.00	19	
2017011B	Mountain Ave.	Springfield	10-35	Mountain Ave near Trivett Ave	18	RCP							Sp011B	Sp11	2017011		543665.00	543665.00	19	
2017011C	Mountain Ave.	Springfield	10-35	Mountain Ave near Trivett Ave	18	RCP							Sp011C	Sp11	2017011		543709.00	543709.00	19	
2017012A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd South of Baltusrol Way	12				No				Sp12				540432.00	540432.00	14	
2017014A	S. Springfield Ave.	Springfield	10-32	So Springfield Ave near Beverly Rd	15	RCP							Sp014A	Sp14	2017014		541097.00	541097.00	14	
2017014B	S. Springfield Ave.	Springfield	10-32	So Springfield Ave near Beverly Rd	15	RCP							Sp014B	Sp14	2017014		541137.00	541137.00	14	
2017014C	S. Springfield Ave.	Springfield	10-32	So Springfield Ave near Beverly Rd	15	RCP							Sp014C	Sp14	2017014		541088.00	541088.00	14	
2017014D	S. Springfield Ave.	Springfield	10-32	So Springfield Ave near Beverly Rd	15	RCP							Sp014D	Sp14	2017014		541124.00	541124.00	14	
2017017A	Hillside Ave.	Springfield	10-32	Hillside Ave near Ann Pl	18	VP							Sp017A	Sp17	2017017		539710.00	539710.00	50	
2017017B	Hillside Ave.	Springfield	10-32	Hillside Ave near Ann Pl	18	VP							Sp017B	Sp17	2017017		539754.00	539754.00	50	
2017017C	Hillside Ave.	Springfield	10-32	Hillside Ave near Ann Pl	18	VP							Sp017C	Sp17	2017017		539699.00	539699.00	50	
2017017D	Hillside Ave.	Springfield	10-32	Hillside Ave near Ann Pl	18	RCP							Sp017D	Sp17	2017017		539754.00	539754.00	50	
2017022A	Summit Rd.	Springfield	14-14	Baltusrol Rd near Sharon Rd	30								Sp22	Sp22			532729.00	532729.00	70	
2017031A	Mountain Ave.	Springfield	10-32-2	Mountain Ave near Hillside Ave			Size Unknown	No	No	Yes			Sp031A	Sp31			540086.00	540086.00	18	
2017032A	Mountain Ave.	Springfield	10-32	Mountain Ave @ Hillside Ave	15			No		Yes			Sp032A	Sp32			539069.00	539069.00	18	
2017032B	Mountain Ave.	Springfield	10-32	Mountain Ave @ Hillside Ave	15			No		Yes			Sp032A	Sp32			539098.00	539098.00	18	
2017032C	Mountain Ave.	Springfield	10-32	Mountain Ave @ Hillside Ave	12			No		Yes			Sp032A	Sp32			539067.00	539067.00	18	
2017032D	Mountain Ave.	Springfield	10-32	Mountain Ave @ Hillside Ave	12			No		Yes			Sp032A	Sp32			539094.00	539094.00	18	
2017033A	Meisel Ave.	Springfield	10-35	Meisel Ave near Laural Dr	18	RCP							Sp033A	Sp33	2017033		543978.00	543978.00	48	
2017033B	Meisel Ave.	Springfield	10-35	Meisel Ave near Laural Dr	18	RCP							Sp033B	Sp33	2017033		544008.00	544008.00	48	
2017033C	Meisel Ave.	Springfield	10-35	Meisel Ave near Laural Dr	18	RCP							Sp033C	Sp33	2017033		543951.00	543951.00	48	
2017033D	Meisel Ave.	Springfield	10-35	Meisel Ave near Laural Dr	18	RCP							Sp033D	Sp33	2017033		543987.00	543987.00	48	
2017050A	Shunpike Rd.	Springfield	10-35-5-2	Shunpike Rd @ Eton Pl.	15					Yes			Su50	Su50	2017050		540844.00	540844.00	14	
2017050B	Shunpike Rd.	Springfield	10-35-5-2	Shunpike Rd @ Eton Pl.	15					Yes			Su50	Su50	2017050		540856.00	540856.00	14	
2017050C	Shunpike Rd.	Springfield	10-35-5-2	Shunpike Rd @ Eton Pl.	15					Yes			Su50	Su50	2017050		540821.00	540821.00	14	
2017060A	Mountain Ave.	Springfield	10-29-1	Mountain Ave near Gregory Rd	24	RCP		No		Yes			Sp060A	Sp60	2017060		538093.00	538093.00	18	
2017063A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd @ Baltusrol Way	15	RCP		No		Yes			Sp063A	Sp63			540118.00	540118.00	14	
2017065A	Meisel Ave.	Springfield	10-35	Meisel Ave near Berkeley Rd	15	RCP							Sp065A	Sp65			544689.00	544689.00	48	
2017x01A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd across from Mountview Dr	12		Outfall at H.D Wall											539135.00	539135.00	14
2017x02A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd @ Wilson Rd	12		Outfall at H.D Wall											539197.00	539197.00	14
2017x03A	S. Springfield Ave.	Springfield	10-29-1	S Springfield Ave at Mountainside BoRder	15													538820.00	538820.00	15
2017x04A	Mountain Ave.	Springfield	10-35-2	Mountain Ave after Hannah St	15													544153.00	544153.00	19
2017x05A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd near Baltusrol Way	15													539454.00	539454.00	14
2018004A	River Rd.	Summit	3	River Rd near Woodland Ave	18	RCP							Su004A	Su4	2018004		527982.00	527982.00	10	
2018004B	River Rd.	Summit	3	River Rd near Woodland Ave	18	RCP							Su004B	Su4	2018004		528017.00	528017.00	10	
2018005A	Springfield Ave.	Summit	3-51	Springfield Ave near High St	30		Located behind house	No					Su005A	Su5			527896.00	527896.00	11	
2018006A	Springfield Ave.	Summit	3-51	Springfield Ave @ Blackburn Rd	15		Adjacent Outfalls (2) are Municipality's Responsibility	No					Su006A	Su6			528829.00	528829.00	11	
2018006B	Springfield Ave.	Summit	3-51	Springfield Ave @ Blackburn Rd	24			No					Su006A	Su6			528854.00	528854.00	11	
2018007A	River Rd.	Summit	3-44	River Rd near Greenfield Ave	18	RCP							Su007A	Su7	2018007		527223.00	527223.00	10	
2018007B	River Rd.	Summit	3-44	River Rd near Greenfield Ave	18	RCP							Su007B	Su7	2018007		527249.00	527249.00	10	
2018007C	River Rd.	Summit	3-44	River Rd near Greenfield Ave	18	RCP							Su007C	Su7	2018007		527242.00	527242.00	10	
2018008A	River Rd.	Summit	3	River Rd over Passaic River	18								Su008xA	Su8	1400515		525661.00	525661.00	10	
2018012A	Broad St.	Summit	10-35-6	Broad St @ Middle Ave		RCP	Either 15" or 36" Diameter						Su012A	Su12	2018012		537798.00	537798.00	06	
2018017A	Springfield Ave.	Summit	3-51	Springfield Ave near Blackburn Rd	36		Located behind house	No					Su017A	Su17			528422.00	528422.00	11	
2018018A	Springfield Ave.	Summit	3-51	Springfield Ave near Oakley Ave	42		Located behind house	No					Su018A	Su18			525858.00	525858.00	11	
2018019A	Springfield Ave.	Summit	3-51	Springfield Ave near Harrison Ct	30		Located behind house	No					Su019A	Su19			525291.00	525291.00	11	
2018022A	Summit Ave.	Summit	3-42	Summit Ave near Bellevue Ave	48		Culvert	No					Su022A	Su22			531861.00	531861.00	72	
2018024A	Springfield Ave.	Summit	3-51	Springfield Ave near Harrison Ct	36		Located behind house	No	No				Su024A	Su24			524874.00	524874.00	11	
2018039A	Chatham Rd.	Summit	3	Chatham Rd over Passaic River	15	VIT				Yes			Su039xA	Su39	1400514		526043.00	526043.00	10	
2018039B	Chatham Rd.	Summit	3	Chatham Rd over Passaic River	15	VIT				Yes			Su039xA	Su39	1400514		526067.00	526067.00	10	
2018052A	Passaic Ave.	Summit	3-48	Passaic Ave @ Erie-Lackawanna R R	12	RCP							Su052A	Su52	2018052		524331.00	524331.00	11	

2018052B	Passaic Ave.	Summit	3-48	Passaic Ave @ Erie-Lackawanna R R	15	RCP						Su052B	Su52	2018052	524360.00	524360.00	11	
2018052C	Passaic Ave.	Summit	3-48	Passaic Ave @ Erie-Lackawanna R R	24	RCP						Su052C	Su52	2018052	524331.00	524331.00	11	
2018052D	Passaic Ave.	Summit	3-48	Passaic Ave @ Erie-Lackawanna R R	12	RCP						Su052D	Su52	2018052	524360.00	524360.00	11	
2018068A	Chatham Rd.	Summit	3	Chatham Rd near Passaic River	16							Su068A	Su68		526101.00	526101.00	10	
2018079A	River Rd.	Summit	3-42	River Rd near Route 24	10	VCP						Su079A	Su79	2018079	528512.00	528512.00	04A	
2018094A	Springfield Ave.	Summit	10-35-6	Springfield Ave near Middle Ave	18							Su094A	Su94	2018094	537312.00	537312.00	08	
2018094B	Springfield Ave.	Summit	10-35-6	Springfield Ave near Middle Ave	18							Su094B	Su94	2018094	537312.00	537312.00	08	
2018x01A	River Rd.	Summit	3	River Rd @ Brainerd Rd.											527564.00	527564.00	10	
2018x02A	River Rd.	Summit	3	River Rd @ Fay pl											527731.00	527731.00	10	
2018x03A	Passaic Ave.	Summit	3	River Rd @ Passaic Ave.	15										525633.00	525633.00	10	
2018x04A	Passaic Ave.	Summit	3	Passaic Ave near PVT Rd	18								Su76		525291.00	525291.00	10	
2018x04B	Passaic Ave.	Summit	3	River Rd near PVT Rd	15										524824.00	524824.00	10	
2018x05A	Constantine Pl.	Summit	3	Passaic Ave @ Constantine pl	24										523929.00	523929.00	11	
2018x06A	Springfield Ave.	Summit	10-35	Springfield Ave near Middle Ave	18										537640.00	537640.00	08	
2018x06B	Springfield Ave.	Summit	10-35	Springfield Ave near Middle Ave	18										538028.00	538028.00	08	
2018x07A	Glenside Ave.	Summit	14-14	Glenside Ave by InterState 78	18										530308.00	530308.00	60	
2018x08A	John F. Kennedy Pkwy.	Summit	3-42	JFK Pkwy near Rt 24 Overpass											528235.00	528235.00	04A	
2018x08B	John F. Kennedy Pkwy.	Summit	3-42	JFK Pkwy near Rt 24 Overpass	24										528132.00	528132.00	04A	
2018x08C	John F. Kennedy Pkwy.	Summit	3-42	JFK Pkwy near Rt 24 Overpass	15										528140.00	528140.00	04A	
2019007A	Stuyvesant Ave.	Union	8-13	Stuyvesant Ave near Oakland Ave	18	RCP						Un007A	Un7	2019007	558451.00	558451.00	02	
2019007B	Stuyvesant Ave.	Union	8-13	Stuyvesant Ave near Oakland Ave	18	RCP						Un007B	Un7	2019007	558483.00	558483.00	02	
2019007C	Stuyvesant Ave.	Union	8-13	Stuyvesant Ave near Oakland Ave	18	RCP							Un7		558377.00	558377.00	02	
2019011A	Chestnut St.	Union	8-13	Chestnut St near Garden State Parkway	15	RCP						Un011A	Un11	2019011	555686.00	555686.00	03	
2019011B	Chestnut St.	Union	8-13	Chestnut St near Garden State Parkway	18	RCP						Un011B	Un11	2019011	555732.00	555732.00	03	
2019011C	Chestnut St.	Union	8-13	Chestnut St near Garden State Parkway	30	RCP						Un011C	Un11	2019011	555687.00	555687.00	03	
2019011D	Chestnut St.	Union	8-13	Chestnut St near Garden State Parkway	20	RCP	May not be accessible					Un011D	Un11	2019011	555749.00	555749.00	03	
2019026A	Burnet Ave.	Union	10-37-2	Burnet Ave near Allen Ave	18					No			Un26		552058.00	552058.00	52	
2019026B	Burnet Ave.	Union	10-37-2	Burnet Ave near Allen Ave	15					No			Un26		552103.00	552103.00	52	
2019026C	Burnet Ave.	Union	10-37-2	Burnet Ave near Allen Ave	12					No			Un26		552058.00	552058.00	52	
2019026D	Burnet Ave.	Union	10-37-2	Burnet Ave near Allen Ave	12					No			Un26		552103.00	552103.00	52	
2019027A	Vauxhall Rd.	Union	10-37-3-2	Vauxhall Rd @ Brown Ave	15						Yes		Un27		552461.00	552461.00	54	
2019027B	Vauxhall Rd.	Union	10-37-3-2	Vauxhall Rd @ Brown Ave	30						Yes		Un27		552465.00	552465.00	54	
2019027C	Vauxhall Rd.	Union	10-37-3-2	Vauxhall Rd @ Brown Ave	15						Yes		Un27		552428.00	552428.00	54	
2019027D	Vauxhall Rd.	Union	10-37-3-2	Vauxhall Rd @ Brown Ave	15						Yes		Un27		552433.00	552433.00	54	
2019028A	Vauxhall Rd.	Union	10	Vauxhall Rd @ County Line	24						Yes	Un028A	Un28	2019028	550258.00	550258.00	54	
2019037A	Vauxhall Rd.	Union	8-9	Vauxhall Rd near Faitoute Ave	15	RCP						Un037A	Un37	2019037	563204.00	563204.00	52	
2019037B	Vauxhall Rd.	Union	8-9	Vauxhall Rd near Faitoute Ave	24	RCP						Un037B	Un37	2019037	563195.00	563195.00	52	
2019062A	Vauxhall Rd.	Union	10-37-2	Vauxhall Rd near Burnnet Ave	30								Un62		552976.00	552976.00	54	
2019062B	Vauxhall Rd.	Union	10-37-2	Vauxhall Rd near Burnnet Ave	12								Un62		552984.00	552984.00	54	
2019062C	Vauxhall Rd.	Union	10-37-2	Vauxhall Rd near Burnnet Ave	12								Un62		553220.00	553220.00	54	
2019069A	Vauxhall Rd.	Union	8-13-3-3	Vauxhall Rd near Wooley Ave	18	VCP						Un069A	Un69	2019069	554721.00	554721.00	54	
2019069B	Vauxhall Rd.	Union	8-13-3-3	Vauxhall Rd near Wooley Ave	24	VCP						Un069B	Un69	2019069	554748.00	554748.00	54	
2019069C	Vauxhall Rd.	Union	8-13-3-3	Vauxhall Rd near Wooley Ave	24	RCP						Un069C	Un69	2019069	554749.00	554749.00	54	
2019070A	North Ave.	Union	10-7-17-5	North Ave near Promenade	24						Yes		Un70		528559.00	528559.00	01	
2019079A	Ostwood Ter.	Union	8-13-1	Ostwood Terr near Stuyvesant Ave	18	RCP	Possible additional outfall from preexisting adjacent basin						Un79		559611.00	559611.00	02	
2019079B	Ostwood Ter.	Union	8-13-1	Ostwood Terr near Stuyvesant Ave	18	RCP							Un79		559633.00	559633.00	02	
2020006A	Springfield Ave.	Westfield	10-29-1	Springfield Ave near Cardinal Dr	15	RCP						We006A	We6	2020006	538810.00	538810.00	15	
2020006B	Springfield Ave.	Westfield	10-29-1	Springfield Ave near Cardinal Dr	15	RCP						We006A	We6	2020006	538851.00	538851.00	15	
2020059A	South Ave.	Westfield	10-25	South Ave near LivingSton St	66								We59		537831.00	537831.00	40	
2020068A	Lamberts Mill Rd.	Westfield	10-7-17-3	Lamberts Mill Rd near Radley Rd	24	RCP	Size Unknown						We068A	We68	2020068	533381.00	533381.00	69
2020079A	Central Ave.	Westfield	10-7-15-2	Central Ave near Sycamore St	18								We79		539080.00	539080.00	27	
2020088A	E Broad St.	Westfield	10-26	E Broad St near Karen Terr	16					No			We088A	We88		538583.00	538583.00	25
2020089A	Springfield Ave.	Westfield	10-29	Springfield Ave near Mill La	15								We089A	We89	2020089	538872.00	538872.00	15
2020089B	Springfield Ave.	Westfield	10-29	Springfield Ave near Mill La	15								We089A	We89	2020089	538968.00	538968.00	15
2020089C	Springfield Ave.	Westfield	10-29	Springfield Ave near Mill La	24								We089A	We89	2020089	538898.00	538898.00	15
2020089D	Springfield Ave.	Westfield	10-29	Springfield Ave near Mill La	18								We089A	We89	2020089	538977.00	538977.00	15
2020105A	Myrtle Ave.	Westfield	10-25-1	Central Ave near Myrtle Ave			Size Unknown						We105		537672.00	537672.00	27	
2020x01A	Lamberts Mill Rd.	Westfield	10-7-15	Lamberts Mill Rd near Scotch Plains Border	27		Outfall is located north of Roadway			No					537719.00	537719.00	69	

APPENDIX F

STREET

SWEEPING

SCHEDULE

Engineering, Public Works & Facilities Management

Street Sweeping Schedule

The schedule is in full effect from April 1st through November 1st. From November 1st through December 31st Street Sweepers will be assisting Leaf Removal Crews. During Winter Operations January 1st through March 31st. Roads will be swept as conditions permit.

Week 1

Week 1 is the first fullest week of each month. The schedule is weather and conditions permitting –If conditions do not permit sweeping please refer to the following scheduled date. Park Roadways are swept on the same schedule as their corresponding municipality. Parking lots in the County Parks to be swept on the odd (5th) week except as otherwise noted in the schedule.

Monday

- Sweep 1
 - **New Providence**
- Sweep 2
 - **Berkeley Heights**

Tuesday

- Sweep 1
 - Linden Wood Av
 - Rahway Stiles/Ross
- Sweep 2
 - Clark / Winfield Oak Ridge/Parkway Dr

Wednesday

- Sweep 1
 - Cranford/Garwood
 - Linden Eliz Ave
- Sweep 2
 - Springfield

Thursday

- Sweep 1
 - Kenilworth
 - Roselle Park Faitoute
 - Linden Stiles St
- Sweep 2
 - Mountainside

Friday

- Sweep 1
 - Union Township Salem/Chestnut/Gall Hill/Tucker/Magie

- Sweep 2
 - **Union Township Vaux Hall/ Burnett Stuyvesant**

Week 2

Monday

- Sweep 1
 - **Rahway Scott/Grand/Lawrence**
 - **Elizabeth/Westfield**
- Sweep 2
 - **Rahway Inman/Hazelwood/ Milton/New Brunswick/Hart/Woodbridge Rd**

Tuesday

- Sweep 1
 - **Summit Mountain/Ashland/Broad/Summit Ave/Orchard/Glenside/Baltusrol/Morris Split**
- Sweep 2
 - **Summit Springfield Ave/River Rd/ Passaic/Constantine/ Morris/Spring to River**

Wednesday

- Sweep 1
 - **Scotch Plains**

- Sweep 2
 - **Westfield**

Thursday

- Sweep 1
 - **Kenilworth / Hillside**
- Sweep 2
 - **Fanwood / Scotch Plains**

Friday

- Sweep 1
 - **Plainfield 7th Street/ Park Ave/Plainfield Ave**
- Sweep 2
 - **Plainfield / Scotch Plains Front St/ Terrill Road**

Week 3

Monday

- Sweep 1
 - **New Providence**
- Sweep 2
 - **Berkeley Heights**

Tuesday

- Sweep 1
 - Linden Wood Ave
 - Rahway Stiles & Ross St
- Sweep 2
 - Clark / Winfield Oak Ridge Rd & Parkway Drive

Wednesday

- Sweep 1
 - Roselle
- Sweep 2
 - Cranford / Garwood

Thursday

- Sweep 1
 - Roselle Park Locust & Chestnut
 - Roselle / Linden – Stiles St
- Sweep 2
 - Springfield

Friday

- Sweep 1
 - Union Township Salem/Chestnut/Gall Hill/Tucker/Magie

- Sweep 2
 - **Union Township** Vaux Hall/ Burnett/Stuyvesant

Week 4

Monday

- Sweep 1
 - **Rahway** Scott/Grand/Lawrence/Elizabeth/Westfield
- Sweep 2
 - **Rahway** Inman/Hazelwood/Milton/New Brunswick/Hart/Woodbridge Rd

Tuesday

- Sweep 1
 - **Summit** Mountain/Ashland/Broad/Summit Ave/Orchard/Glenside/Baltusrol/Morris Split
- Sweep 2
 - **Summit** Springfield Ave/River Rd/ Passaic/Constantine/ Morris/Spring to River

Wednesday

- Sweep 1
 - **Mountainside**

- Sweep 2
 - **Westfield**

Thursday

- Sweep 1
 - **Hillside**
- Sweep 2
 - **Fanwood**

Friday

- Sweep 1
 - **Plainfield** 7th Street/ Park Ave/Plainfield Ave
- Sweep 2
 - **Plainfield / Scotch Plains** Front St./Terrill Road

Week 5 / Odd Week

Monday

- Sweep 1
 - **Elizabeth** Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave
- Sweep 2
 - **Elizabeth** W.Grand / Magie/ Orchard/ Jefferson/Morris/ N. Broad

Tuesday

- Sweep 1
 - **Elizabeth Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave**
- Sweep 2
 - **Elizabeth W.Grand/ Magie/ Orchard/ Jefferson/Morris/ N.Broad**

Wednesday

- Sweep 1
 - **Elizabeth Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave**
- Sweep 2
 - **Elizabeth W.Grand/ Magie/ Orchard/ Jefferson/Morris/ N.Broad**

Thursday

- Sweep 1
 - **Elizabeth Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave**
- Sweep 2
 - **Elizabeth W.Grand/ Magie/ Orchard/ Jefferson/Morris/ N.Broad**

Friday

- Sweep 1
 - **Elizabeth Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave**

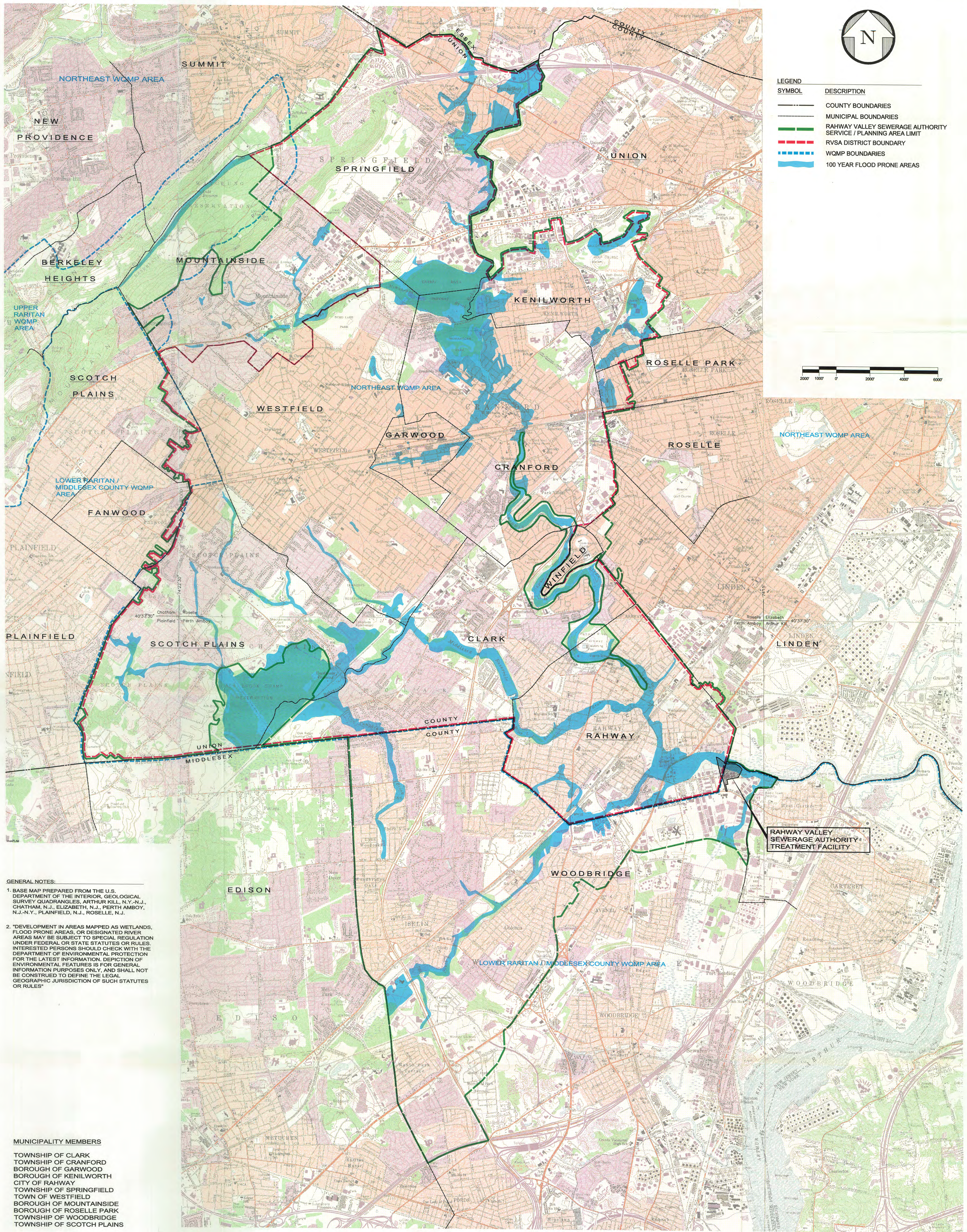
- Sweep 2
 - **Elizabeth W.Grand/ Magie/ Orchard/ Jefferson/Morris/ N.Broad**

Up ↑

APPENDIX G

DRAINAGE

MAPS



SYMBOL	DESCRIPTION
—	COUNTY BOUNDARIES
—	MUNICIPAL BOUNDARIES
—	RAHWAY VALLEY SEWERAGE AUTHORITY SERVICE / PLANNING AREA LIMIT
—	RVSA DISTRICT BOUNDARY
—	WQMP BOUNDARIES
—	100 YEAR FLOOD PRONE AREAS



GENERAL NOTES:

1. BASE MAP PREPARED FROM THE U.S. DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY QUADRANGLES, ARTHUR KILL, N.Y.-N.J., CHATHAM, N.J., ELIZABETH, N.J., PERTH AMBOY, N.J.-N.Y., PLAINFIELD, N.J., ROSELLE, N.J.
2. "DEVELOPMENT IN AREAS MAPPED AS WETLANDS, FLOOD PRONE AREAS, OR DESIGNATED RIVER AREAS MAY BE SUBJECT TO SPECIAL REGULATION UNDER FEDERAL OR STATE STATUTES OR RULES. INTERESTED PERSONS SHOULD CHECK WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THE LATEST INFORMATION. DEPICTION OF ENVIRONMENTAL FEATURES IS FOR GENERAL INFORMATION PURPOSES ONLY, AND SHALL NOT BE CONSTRUED TO DEFINE THE LEGAL GEOGRAPHIC JURISDICTION OF SUCH STATUTES OR RULES"

MUNICIPALITY MEMBERS

TOWNSHIP OF CLARK
 TOWNSHIP OF CRANFORD
 BOROUGH OF GARWOOD
 BOROUGH OF KENILWORTH
 CITY OF RAHWAY
 TOWNSHIP OF SPRINGFIELD
 TOWN OF WESTFIELD
 BOROUGH OF MOUNTAINSIDE
 BOROUGH OF ROSELLE PARK
 TOWNSHIP OF WOODBRIDGE
 TOWNSHIP OF SCOTCH PLAINS

**RAHWAY VALLEY SEWERAGE AUTHORITY
 UNION AND MIDDLESEX COUNTIES, NEW JERSEY
 PLANNING AREA AND
 ENVIRONMENTAL FEATURES-
 FLOOD PRONE AREAS MAP**

MAP #1



UNION COUNTY WATERSHEDS



UNION COUNTY

Passaic River
Upr (above
Pine Bk br)

Elizabeth River

Newark Bay /
Kill Van Kull
/ Upr NY Bay

Raritan R.
Lower (Lawrence
to Millstone)

Rahway River
/ Woodbridge
Creek

Morses Creek
/ Piles
Creek

Data Provided by the Bureau of GIS
Created: April 20, 2012

Legend

- Interstate
- US Highway
- State Highway
- County Highway
- Garden State Parkway
- Rivers and Streams

WaterSheds

- <all other values>
- Elizabeth River
- Morses Creek / Piles Creek
- Newark Bay / Kill Van Kull / Upr NY Bay
- Passaic River Upr (above Pine Bk br)
- Rahway River / Woodbridge Creek
- Raritan R Lower (Lawrence to Millstone)



APPENDIX H
GOOD HOUSE
KEEPING
MEASURES

COUNTY OF UNION STANDARD OPERATING PROCEDURE GOOD HOUSEKEEPING

GOOD HOUSEKEEPING GOALS

- Proper Recycling
- Proper Waste Disposal
- Pollution Prevention
- Street Sweeper Residuals
- Catch Basin Cleaning Residuals
- Storage of Aggregate Materials
- Operation & Maintenance of Oil/Water Separators



Introduction and Purpose This SOP contains the basic practices of good housekeeping to be implemented at maintenance yards including maintenance activities at ancillary operations for the County of Union. The purpose of this SOP is to provide a set of guidelines for the employees of County of Union for Good Housekeeping Practices at their maintenance yards including maintenance yards at ancillary operations.

Scope This SOP applies to all maintenance yards including maintenance activities at ancillary operations in County of Union.

Standards and Specifications (General)

- All containers should be properly labeled and marked, and the labels must remain clean and visible.
- All containers must be kept in good condition and tightly closed when not in use.
- When practical, chemicals, fluids and supplies should be kept indoors.
- If containers are stored outside, they must be covered and placed on spill platforms.
- Keep storage areas clean and well organized.
- Spill kits and drip pans must be kept near any liquid transfer areas, protected from rainfall.
- Absorbent spill clean-up materials must be available in maintenance areas and shall be disposed of properly after use.
- Place trash, dirt and other debris in the dumpster.
- Collect waste fluids in properly labeled containers and dispose of them properly.
- Establish and maintain a recycling program by disposing of properly after use.
- Place trash, dirt and other debris in the dumpster.
- Collect waste fluids in properly labeled containers and dispose of them properly.
- Establish and maintain a recycling program by disposing papers, cans, bottles and trash in designated bins.

Standards and Specifications (Salt and De-icing Material handling)

- During loading and unloading of salt and de-icing materials, prevent and/or minimize spills. If salt or de-icing materials are spilled, remove the materials using dry cleaning methods. All collected materials shall be either reused or properly discarded.

- Sweeping should be conducted once a week to get rid of dirt and other debris. Sweeping should also be conducted immediately following loading/unloading activities, when practical.
- Minimize the tracking of materials from storage and loading/unloading areas.
- Minimize the distance that the salt and de-icing materials are transported during loading/unloading activities.
- Any materials that are stored outside must be tarped when not actively being used.
- If intern seasonal tarping is being implemented, de-icing materials may be stored outdoors only between October 15th through April 30th.

Spill Response And Reporting

- Conduct clean up of any spill(s) immediately after discovery.
- Spills are to be cleaned using dry cleaning methods only.
- Contact the Capitol County Division of Environmental Health Services at 908-654-9890.

Maintenance and Inspection

- Periodically check for leaks and damaged equipment and make repairs as necessary.
- Perform monthly inspections of all (indoor and outdoor if applicable) storage locations.

Street Sweeping & Disposal

Residual Storage The street sweepings are stored in a bin at 301 Shunpike Road (aka Union County Conservation Center). There are placed on an impervious surface contained between concrete block walls. These materials are then hauled away by a private entity contracted by Union County Department of Public Works.

Catch Basin

Cleaning Residuals

Storage & Disposal o Same as above

Storage of Aggregate Materials

- o These materials such as ¾ clean gravel, sand, and DOT road blend are stored at 2371 South Ave (Union County Division of Public Works Facility). They are stored in concrete bins, as needed. Used asphalt and concrete material for recycling is stored temporarily in concrete bins and then hauled to a vendors facility for recycling.

Oil/Water Separators

Operation & Maintenance

Sediment Control at Watchung Stables

COUNTY OF UNION STANDARD OPERATING PROCEDURE GOOD HOUSEKEEPING

GOOD HOUSEKEEPING GOALS

- Proper Recycling
- Proper Waste Disposal
- Pollution Prevention
- Street Sweeper Residuals
- Catch Basin Cleaning Residuals
- Storage of Aggregate Materials
- Operation & Maintenance of Oil/Water Separators
- Waste2Water Recycling Treatment System



Introduction and Purpose This SOP contains the basic practices of good housekeeping to be implemented at maintenance yards including maintenance activities at ancillary operations for the County of Union. The purpose of this SOP is to provide a set of guidelines for the employees of County of Union for Good Housekeeping Practices at their maintenance yards including maintenance yards at ancillary operations.

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- Keep storage areas clean and well organized.
- Spill kits and drip pans must be kept near any liquid transfer areas, protected from rainfall.
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- Sweeping should be conducted once a week to get rid of dirt and other debris. Sweeping should also be conducted immediately following loading/unloading activities, when practical.
- Minimize the tracking of materials from storage and loading/unloading areas.
- Minimize the distance that the salt and de-icing materials are transported during loading/unloading activities.
- Any materials that are stored outside must be tarped when not actively being used.
- If intern seasonal tarping is being implemented, de-icing materials may be stored outdoors only between October 15th through April 30th.

Spill Response And Reporting

- Conduct clean up of any spill(s) immediately after discovery.
- Spills are to be cleaned using dry cleaning methods only.
- Contact the Capitol County Division of Environmental Health Services at 908-654-9890.

Maintenance and Inspection

- Periodically check for leaks and damaged equipment and make repairs as necessary.
- Perform monthly inspections of all (indoor and outdoor if applicable) storage locations.

Street Sweeping & Disposal

Residual Storage The street sweepings are stored in a bin at 301 Shunpike Road (aka Union County Conservation Center). There are placed on an impervious surface contained between concrete block walls. These materials are then hauled away by a private entity contracted by Union County Department of Public Works.

Catch Basin

Cleaning Residuals

Storage & Disposal o Same as above

Storage of Aggregate

Materials

- o These materials such as ¾ clean gravel, sand, and DOT road blend are stored at 2371 South Ave (Union County Division of Public Works Facility). They are stored in concrete bins, as needed. Used asphalt and concrete material for recycling is stored temporarily in concrete bins and then hauled to a vendors facility for recycling.

Oil/Water Separators

Operation & Maintenance - The Oil/Water separator will be inspected bi-annually. The oil absorption pack shall be inspected and replaced as necessary.

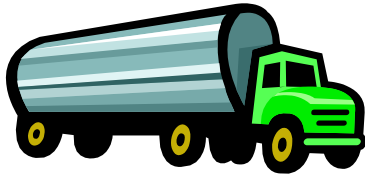
Sediment Control at Watchung Stables

Waste2Water Recycling Treatment System • This equipment shall be operated and maintained in accordance with the manufacturer's Owners' Manual.

County of Union

Standard Operating Procedures

Vehicle and Equipment Fueling



Vehicle & Equipment Fueling Locations

- 1) Scotch Plains Garage
- 2) Ash Brook Golf Course & Maintenance Yard
- 3) Galloping Hill Golf Course & Maint. Yard
- 4) Warinaco Park
- 5) Oak Ridge Golf Course
- 6) Rahway River Park
- 7) Cedar Brook Park
- 8) Echo Lake Park

Introduction and Purpose

Vehicle and equipment fueling procedures and practices are designed to minimize pollution of surface or ground waters. Understanding the procedures for delivering fuel into vehicles, mobile fuel tanks, and storage tanks is critical for this purpose. Safety is always the priority.

Scope

These procedures are to be implemented at all maintenance yards with fueling, including mobile fueling operations.

Standards and Specifications (for vehicle and Equipment Fueling)

- Shut the engine off.
- Ensure that the fuel is the proper type of fuel.
- Absorbent spill clean-up materials and spill kits shall be available in fueling areas and on mobile fueling vehicles and shall be disposed of properly after use.
- Nozzles used in vehicle and equipment fueling shall be equipped with an automatic shut-off to prevent overflow.
- Fuel tanks shall not be "topped off".
- Mobile fueling shall be minimized. Whenever practical, vehicles and equipment shall be transported to the designated fueling area in the maintenance yard.
- Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment, and appropriate contact information for the person(s) responsible for spill response.

Standards and Specifications (for bulk fueling)

- Drip pans or absorbent pads shall be used under all hose and pipe connections and other leak-prone areas during bulk fueling.
- Block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary absorbent booms during the transfer process. If temporary berms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel must be within the temporary berms during the loading/unloading of bulk fuels.
- Protect fueling areas with berms and/or dikes to prevent run-on, runoff, and to contain spills.
- A trained employee must always be present to supervise during bulk transfer.

Spill Response

- Conduct clean-ups of any fuel spills immediately after discovery.
- Uncontained spills are to be cleaned using dry cleaning methods only. Spills shall be cleaned up with a dry, absorbent material (e.g., kitty litter, sawdust, etc.) and absorbent materials shall be swept up.
- Collected waste is to be disposed of properly.
- Contact the Union County Bureau of Environmental Enforcement at at 908-654-9730.

Maintenance And Inspection

- Fueling areas and storage tanks shall be inspected monthly.
- Keep an ample supply of spill clean-up material on the site.
- Any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair must be repaired or replaced immediately.

APPENDIX I
INSPECTION
FORMS

Highway Agency Stormwater General Permit Post-Construction Program Design Checklist for Individual Projects

For each question, attach additional sheets as necessary

Highway Agency
Information

Highway Agency: _____
 NJPDES # : NJG _____ PI ID #: _____
 Team Member: _____
 Date: _____ Effective Date of Permit Authorization (EDPA): _____

1. Location of Project

- a. Project Name _____
- b. Highway Agency Project Number (if applicable): _____
- c. Road Name(s) (if applicable): _____
- d. Municipality(ies): _____
- e. County(ies): _____

2. Description (type of project)

- a. New alignment, widening, bridge replacement, intersection improvement, or other (describe): _____
- b. Area of proposed disturbance: _____ acres (include disturbance for easements, on/off ramps, etc. that are part of the project)
- c. Area of proposed additional impervious surface: _____ acres (include proposed additional impervious surface for easements, on/off ramps, etc. that are part of the project)
- d. Discharges to (identify surface water body(ies)): _____

3. Related NJDEP Permits

How much (if any) of the project requires at least one NJDEP permit (stream encroachment permit; freshwater wetlands permit or transition area waiver; CAFRA, coastal wetlands, or waterfront development permit) granted under the following statutes?

Application Number (if available)

Flood Hazard Area Control Act, N.J.S.A. 58:16A-50 et seq. _____
Freshwater Wetlands Protection Act, N.J.S.A. 13:9B-1 et seq. _____
Coastal Area Facility Review Act, N.J.S.A. 13:19-1 et seq. _____
Waterfront and Harbor Facilities Act, N.J.S.A. 12:5-3 _____

Answer (check one): The entire project Part of the project None of the project

4. Compliance with NJDEP Design and Performance Standards (N.J.A.C. 7:8)

a. Nonstructural stormwater management strategies

To the maximum extent practicable, does the project meet the applicable erosion control, groundwater recharge, and stormwater runoff quantity and quality standards at N.J.A.C. 7:8-5.4 and 5.5 by incorporating nonstructural stormwater management strategies at N.J.A.C. 7:8-5.3 into the design? Y () N ()

Also see question #4.j in regard to the Low Impact Development Checklist.

b. Threatened and endangered species

Are the project's stormwater management measures designed to avoid adverse impacts of concentrated flow on habitat for threatened and endangered species as documented in the Natural Heritage Database established under N.J.S.A. 13:1B-15.147 through 15.150, particularly *Helonias bullata* (swamp pink) and/or *Clemmys muhlenbergi* (bog turtle)? Y () N ()

c. Exemption for certain utility line and public pedestrian access projects

How much (if any) of the project is exempt under N.J.A.C. 7:8-5.2(d) from the groundwater recharge and stormwater runoff quantity and quality requirements at N.J.A.C. 7:8-5.4 and 5.5? Y () N () If "yes," check whichever of the following are applicable:

The entire project Part of the project None of the project

If you checked "The entire project" or "Part of the project," check whichever of the following are applicable:

Underground utility line Aboveground utility line Public pedestrian access

If you checked "The entire project," skip questions #4.d, #4.f, #4.g, and #4.h.

d. Waiver for certain roadway, railroad, and public pedestrian access projects

Are you claiming, for the enlargement (widening) of an existing public roadway or railroad or the construction or enlargement of a public pedestrian access, a waiver under N.J.A.C. 7:8-5.2(e) from strict compliance with the groundwater recharge and stormwater runoff quantity and quality requirements at N.J.A.C. 7:8-5.4 and 5.5? Y () N () If "yes":

- Check whichever of the following are applicable:
 Enlargement of existing public roadway or railroad Public pedestrian access

- Attach written documentation making the demonstration required under N.J.A.C. 7:8-5.2(e), unless “The entire project” or “Part of the project” is checked under question #3, and you have submitted or will submit this documentation to the NJDEP to obtain the related NJDEP permit(s).

- Check whether the waiver is for:

The entire project Part of the project None of the project

If you checked “The entire project,” skip questions #4.f, #4.g, and #4.h.

e. Erosion control

Is the project in its post-construction condition designed to meet the erosion control standards established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq. and implementing rules? Y () N ()

Does the project have a soil erosion and sediment control plan certified under that Act and those rules? Y () N () If “no,” please explain: _____

f. Groundwater recharge

Under N.J.A.C. 7:8-5.4(a)2ii, how much (if any) of the project is outside the scope of the groundwater recharge requirement at N.J.A.C. 7:8-5.4(a)2i?

Answer (check one): The entire project Part of the project None of the project

If you checked “The entire project” or “Part of the project,” check whichever of the following are applicable:

Urban redevelopment area High pollutant loading area Industrial “source material”

If you checked “Part of the project” or “None of the project,” is the project designed to meet the groundwater recharge requirement at N.J.A.C. 7:8-5.4(a)2i? Y () N () Also see question 4.j.

Will there be recharge of any stormwater from high pollutant loading areas, or of industrial stormwater exposed to “source material”? Y () N ()

Is the project designed to avoid adverse hydraulic impacts on the groundwater table? Y () N ()

g. Stormwater runoff quantity

Will the post-construction stormwater runoff flow only into tidal waters where the increased volume of stormwater runoff will not increase flood damages below the point of discharge? Y () N ()

If “no,” is the project designed to meet the stormwater runoff quantity standard at N.J.A.C. 7:8-5.4(a)3? Y () N () Also see question 4.j.

h. Stormwater runoff quality

Is the project subject to the requirement at N.J.A.C. 7:8-5.5(a) for 80 percent total suspended solids (TSS) reduction? Y () N ()

If “yes,” is the project designed to meet this requirement? Y () N () Also see question 4.j.

If “no,” check whichever of the following are applicable:

Less than ¼ acre of additional impervious surface NJPDES-based exemption

Is the project designed to meet the nutrient reduction standard at N.J.A.C. 7:8-5.5(e)? Y () N ()

Are the project's stormwater management measures designed to prevent any increase in stormwater runoff to waters classified as FW1? Y () N () N/A () (N/A if there is no stormwater runoff from the project to FW1 waters)

Does the project propose any encroachment within a special water resources protection area established under N.J.A.C. 7:8-5.5(h) to protect Category One waters? Y () N () Also see question 4.j.

If "yes," has the NJDEP approved the proposed encroachment? Y () N () Please explain if the NJDEP has not approved the proposed encroachment:

i. Other special circumstances

Are there special circumstances besides those noted above (e.g., alternative design and performance standards recognized under N.J.A.C. 7:8-5.1(b), and hardship waivers under N.J.A.C. 7:13-4.8) that result in one or more of the design and performance standards at N.J.A.C. 7:8-5 not being applicable to all or part of the project? Y () N ()

If "yes," describe the circumstances and identify the standard(s) that are not applicable:

j. Calculations and stormwater engineering report

Was stormwater runoff calculated in accordance with N.J.A.C. 7:8-5.6? Y () N ()

Attach a stormwater engineering report that includes the following information (unless the Exception below applies):

- A copy of Parts 1, 3, and 4 of the Low Impact Development Checklist (see Appendix A of the New Jersey Stormwater Best Management Practices Manual)
- A copy of a USGS topographical map(s), 7.5 minute quadrangle series, showing the project location and its HUC-14 watershed(s), and indicating any special water resources protection area(s) established under N.J.A.C. 7:8-5.5(h)
- Proof that the applicable groundwater recharge and stormwater runoff quantity and quality standards at N.J.A.C. 7:8-5.4 and 5.5 (or applicable alternative standards recognized under N.J.A.C. 7:8-5.1(b)) are met. This proof shall include complete printouts of all calculations (including detention, retention, and infiltration calculations for all basins), and shall compare existing and proposed recharge and discharge rates. The proof shall clearly explain how the attached calculations demonstrate compliance with the applicable standards. If the requirement at N.J.A.C. 7:8-5.5(a) for 80 percent TSS reduction is applicable, the proof shall detail how TSS reduction is achieved.

Exception: If "The entire project" is checked under question #3, have you submitted or will you submit the above information to the NJDEP to obtain the related NJDEP permit(s)? Y () N ()

If "yes," it is not necessary to attach a stormwater engineering report.

k. Structural stormwater management

Is the project designed to meet the applicable standards for structural stormwater management measures at N.J.A.C. 7:8-5.7? Y () N ()

l. Maintenance

Has the design engineer prepared for the project the maintenance plan required by N.J.A.C. 7:8-5.8? Y () N ()

If "yes," attach the maintenance plan unless "The entire project" or "Part of the project" is checked under question #3, and you have submitted or will submit the maintenance plan for the entire project to the NJDEP to obtain the related NJDEP permit(s).

5. Compliance with NJDEP Design Standard for Storm Drain Inlets

Does the project include installation of any storm drain inlets? Y () N ()

If “yes,” is the project designed to comply with the standard set forth in Attachment C of the permit to control passage of solid and floatable materials? Y () N ()

Attach a list of any storm drain inlets in the project that have hydraulic performance exemptions.

Are you claiming any alternative device exemptions or historic place exemptions for any of the storm drain inlets in this project? Y () N () If “yes,” please explain:

Illicit Connection Inspection Report Form

Highway Agency
Information

Highway Agency: _____

NJPDES # :NJG_____PI ID #: _____

Team Member: _____

Date:_____ Effective Date of Permit Authorization (EDPA):_____

Outfall #: _____ Location: _____

Receiving Waterbody: _____

1. Is there a dry weather flow? Y () N ()
2. If "YES", what is the outfall flow estimate? _____ gpm
(flow sample should be kept for further testing, and this form will need to be submitted with the Annual Report and Certification)
3. Are there any indications of an intermittent flow? Y () N ()
4. If you answered "**NO**" to BOTH question #1 and #3, there is probably not an illicit connection and you can skip to question #7.
(NOTE: This form **does not** need to be submitted to the Department, but should be kept with your SPPP.)

If you answered "**YES**" to either question, please continue on to question #5.

(NOTE: This form will need to be submitted to the Department with the Annual Report and Certification.)

5. PHYSICAL OBSERVATIONS:

(a) **ODOR:** none sewage sulfide oil gas rancid/sour other: _____

(b) **COLOR:** none yellow brown green red gray other: _____

(c) **TURBIDITY:** none cloudy opaque

(d) **FLOATABLES:** none petroleum sheen sewage other: _____

(e) **DEPOSITS/STAINS:** none sediment oily other: _____

(f) **VEGETATION CONDITIONS:** normal excessive growth inhibited growth

(g) DAMAGE TO OUTFALL STRUCTURES:

IDENTIFY STRUCTURE: _____

DAMAGE: none concrete spalling/cracking peeling paint

metal corrosion other damage: _____

6. ANALYSES OF OUTFALL FLOW SAMPLE:

* field calibrate instruments in accordance with manufacturer's instructions prior to testing.

(a) **DETERGENTS:** _____ mg/L

(if sample is greater than 0.06 mg/L, the sample is contaminated with detergents [which may be from sanitary wastewater or other sources]. Further testing is required and this outfall should be given the highest priority.)

(if the sample is not greater than 0.06 mg/L and it does not show physical characteristics of sanitary wastewater [e.g., odor, floatables, and/or color] it is unlikely that it is from sanitary wastewater sources, yet there may still be an illicit connection of industrial wastewater, rinse water, backwash or cooling water. Skip to question #6c.)

(b) **AMMONIA (as N) TO POTASSIUM RATIO:** _____

(if the Ammonia to Potassium Ratio is greater than 0.6:1, then it is likely that the pollutant is sanitary sewage)

(if the Ammonia to Potassium Ratio is less than or equal to 0.06:1, then the pollutant is from another wastewater source.)

(c) **FLUORIDE:** _____mg/L

(if the fluoride levels are between 1.0 and 2.5 mg/L, then the flow is most likely from fluoride treated potable water.)

(if the sample tests below a detection limit of 0.1 mg/L for fluoride, it is likely to be from groundwater infiltration, springs or streams. In some cases, however, it is possible that the discharge could originate from an onsite well used for industrial cooling water which will test non-detect for both detergents and fluoride. To differentiate between these cooling water discharges and ground water infiltration, you will have to rely on temperature.)

(d) **TEMPERATURE:** _____°F

(if the temperature of the sample is over 70°F, it is most likely cooling water)

(if the temperature of the sample is under 70°F, it is most likely from ground water infiltration)

7. Is there a suspected illicit connection? Y () N ()

If "**YES**", what is the suspected source? _____

If "**NO**", skip to signature block on the bottom of this page.

8. Has the investigation of the suspected illicit connection been completed?

Y () N ()

If "**YES**", proceed to question #9.

If "**NO**", skip to signature block on the bottom of this page.

9. Was the source of the illicit connection found? Y () N ()

If "**YES**", identify the source (including whether source is from Highway Agency or another entity). _____

What plan of action will follow to eliminate the illicit connection or report the illicit connection to the NJDEP?

Resolution: _____

If "**NO**", complete the Closeout Investigation Form and attach it to this Illicit Connection Inspection Report Form.

Inspector's Name: _____

Title: _____

Signature: _____

Date: _____

If there is a dry weather flow or evidence of an intermittent flow, be sure to include this form with your Annual Report and Certification.

Closeout Investigation Form

Highway Agency
Information

Highway Agency: _____

NJPDES # :NJG _____ PI ID #: _____

Team Member: _____

Date: _____ Effective Date of Permit Authorization (EDPA): _____

Outfall #: _____ Location: _____

Receiving Waterbody: _____

Basis for Submittal:

- A non-stormwater discharge was found, but no source was located within six months.
- An intermittent non-stormwater discharge was observed, and three unsuccessful investigations were conducted to investigate the discharge while it was flowing.
- An illicit connection was found to emanate from an entity other than the Highway Agency.

Describe each phase of your investigation, including dates. Attach additional pages as necessary:

Inspector's Name: _____

Title: _____

Signature: _____

Date: _____

Complete and attach this form to the appropriate Illicit Connection Inspection Report Form and submit with the annual certification.

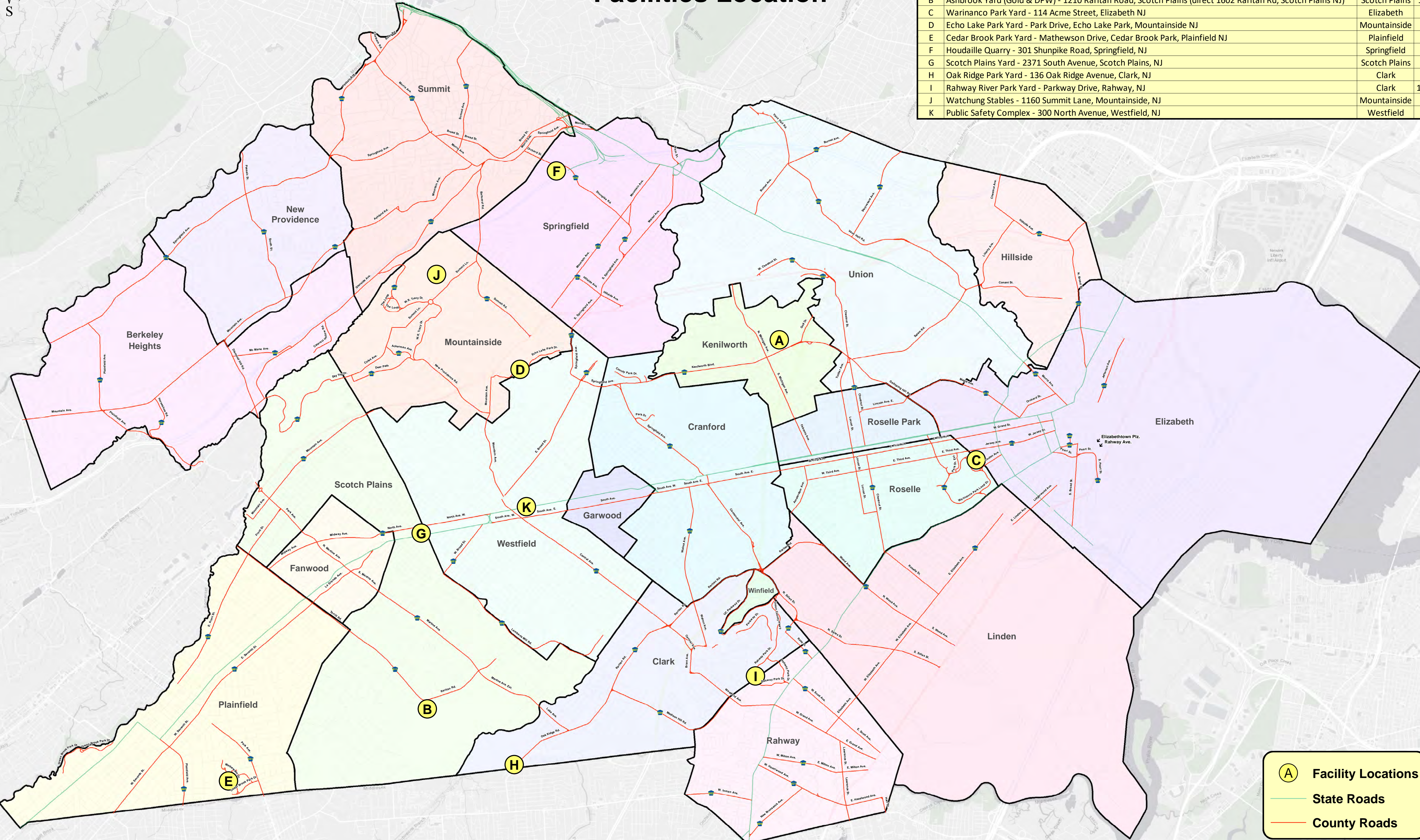
APPENDIX J

LOCATION MAPS

Union County Highway Agency Stormwater Facilities Map Facilities Location



Facility Locations				
	Location	Municipality	Block	Lot
A	Galloping Hill Yard (Golf & DPW) - 21 North 31st Street, Kenilworth NJ	Kenilworth	184	3.01
B	Ashbrook Yard (Gold & DPW) - 1210 Raritan Road, Scotch Plains (direct 1602 Raritan Rd, Scotch Plains NJ)	Scotch Plains	14201	1
C	Warinanco Park Yard - 114 Acme Street, Elizabeth NJ	Elizabeth	392	32
D	Echo Lake Park Yard - Park Drive, Echo Lake Park, Mountainside NJ	Mountainside	9	2.01
E	Cedar Brook Park Yard - Mathewson Drive, Cedar Brook Park, Plainfield NJ	Plainfield	733	22
F	Houdaille Quarry - 301 Shunpike Road, Springfield, NJ	Springfield	1603	1
G	Scotch Plains Yard - 2371 South Avenue, Scotch Plains, NJ	Scotch Plains	8302	1
H	Oak Ridge Park Yard - 136 Oak Ridge Avenue, Clark, NJ	Clark	3	1
I	Rahway River Park Yard - Parkway Drive, Rahway, NJ	Clark	179.01	48
J	Watchung Stables - 1160 Summit Lane, Mountainside, NJ	Mountainside	2	4
K	Public Safety Complex - 300 North Avenue, Westfield, NJ	Westfield	3202	4

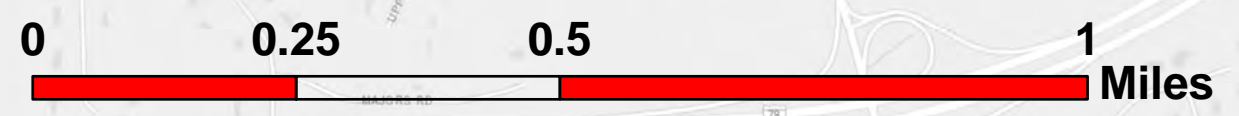
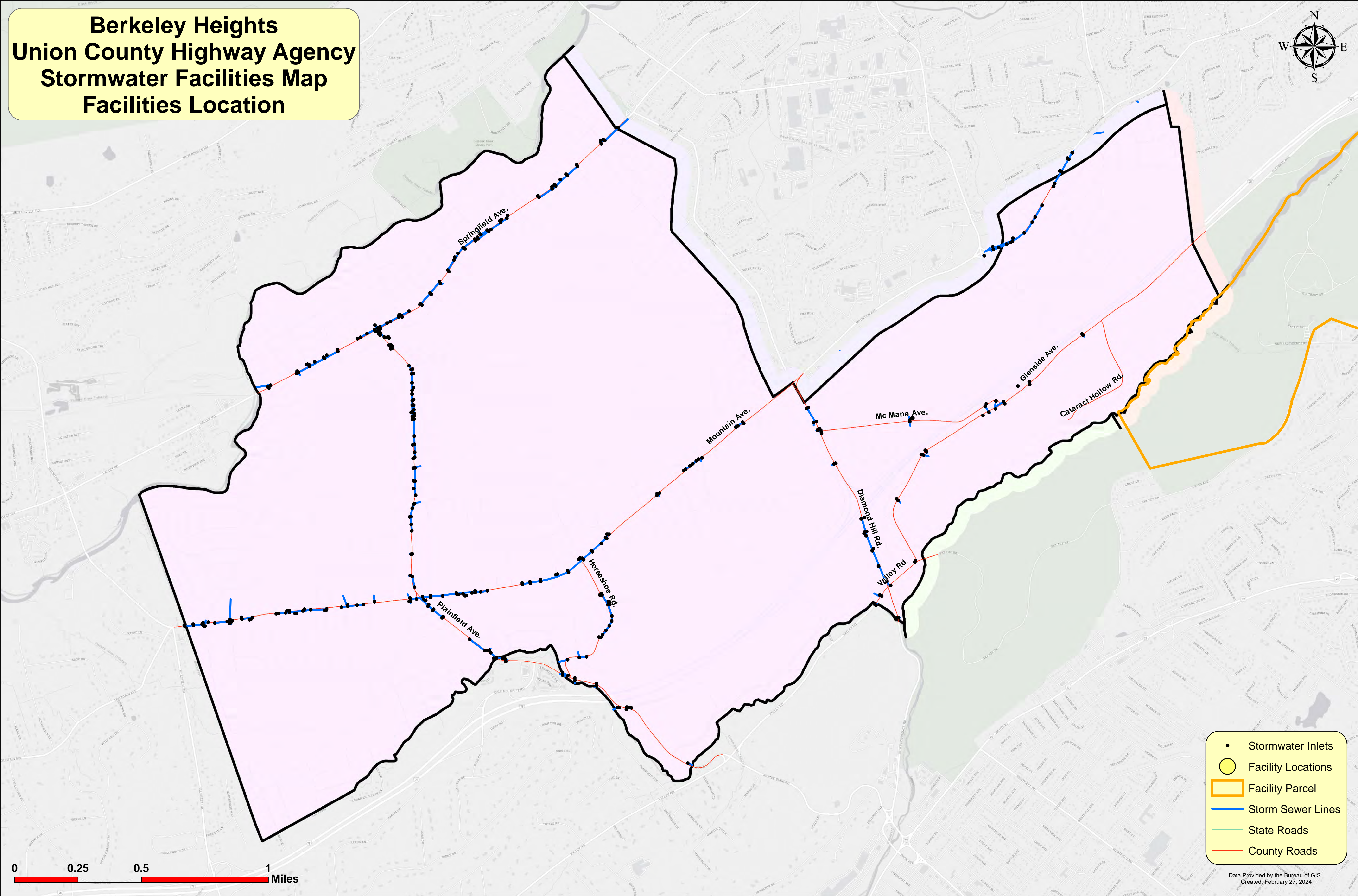


(A) Facility Locations
 — State Roads
 — County Roads



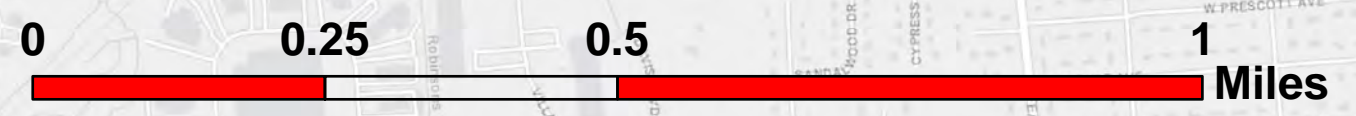
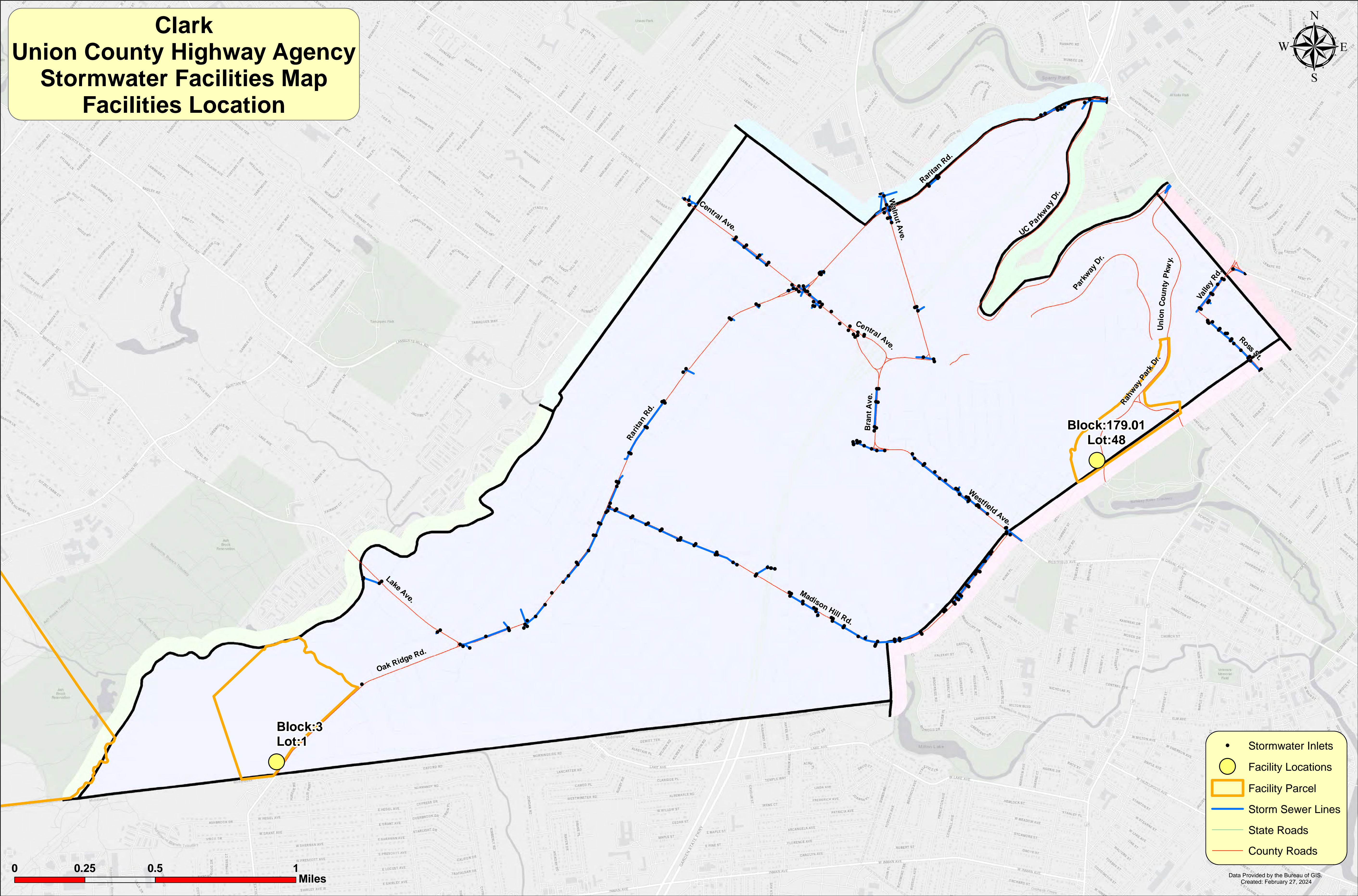
Map Number: 022702
 Data Provided by the Bureau of GIS.
 Created: February 27, 2024

Berkeley Heights Union County Highway Agency Stormwater Facilities Map Facilities Location



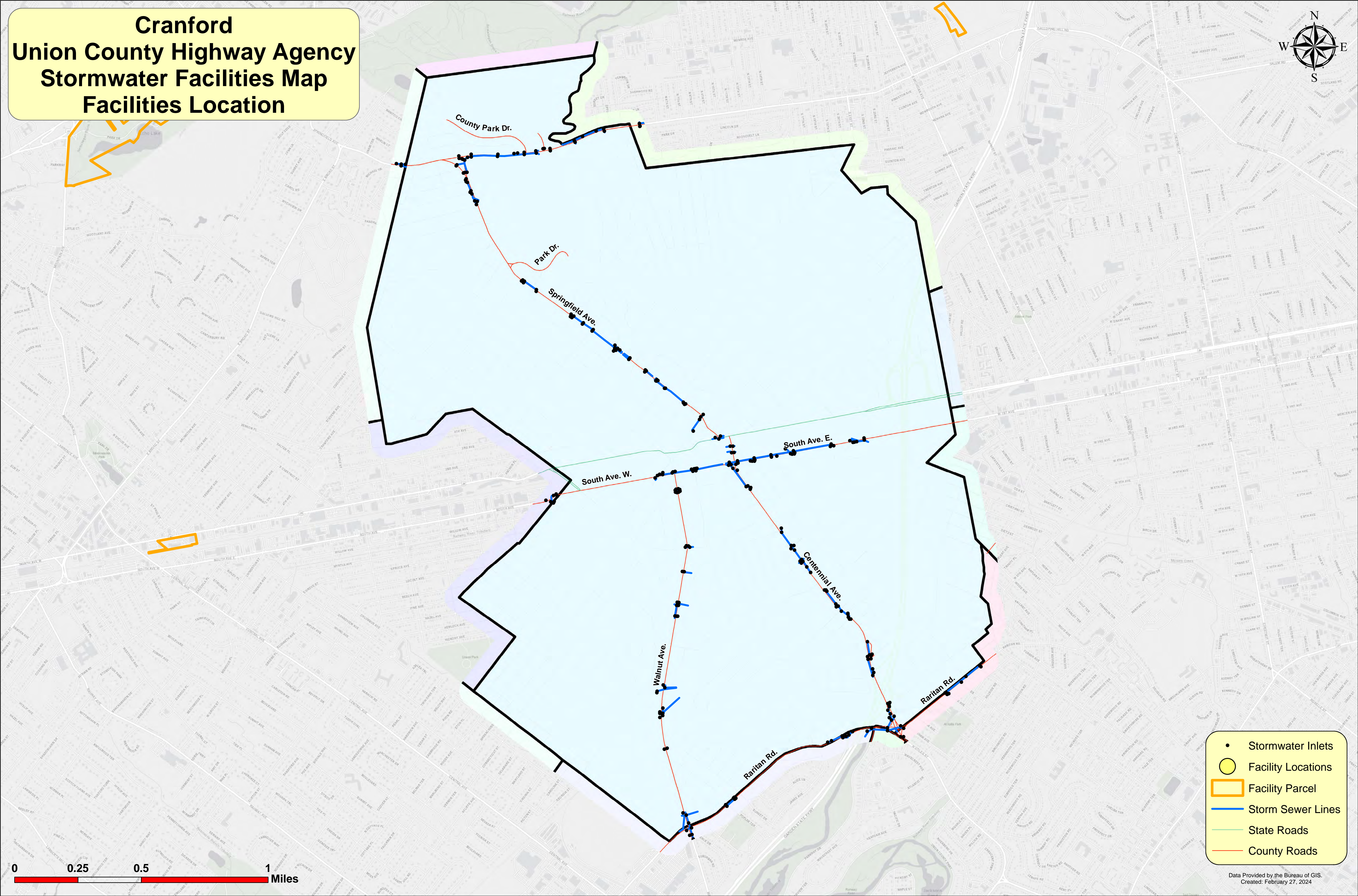
- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

Clark Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

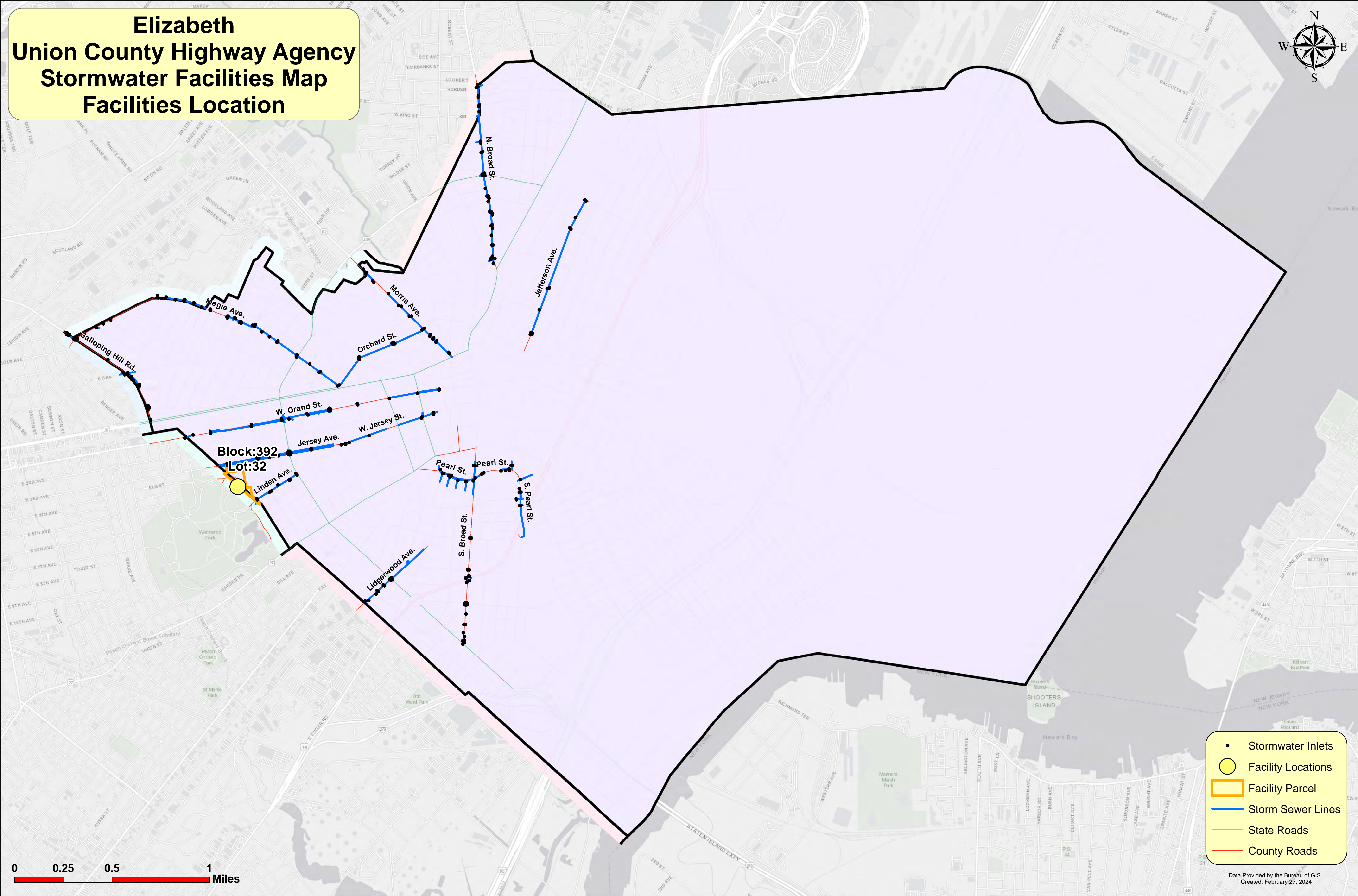
Cranford Union County Highway Agency Stormwater Facilities Map Facilities Location



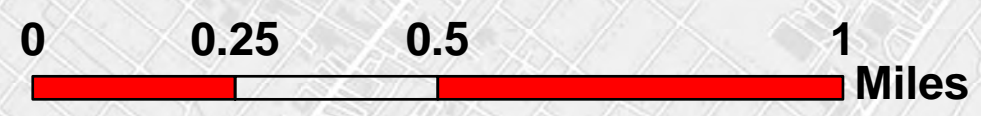
- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles

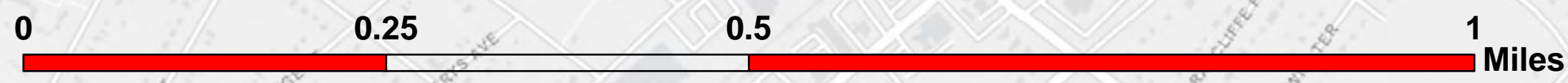
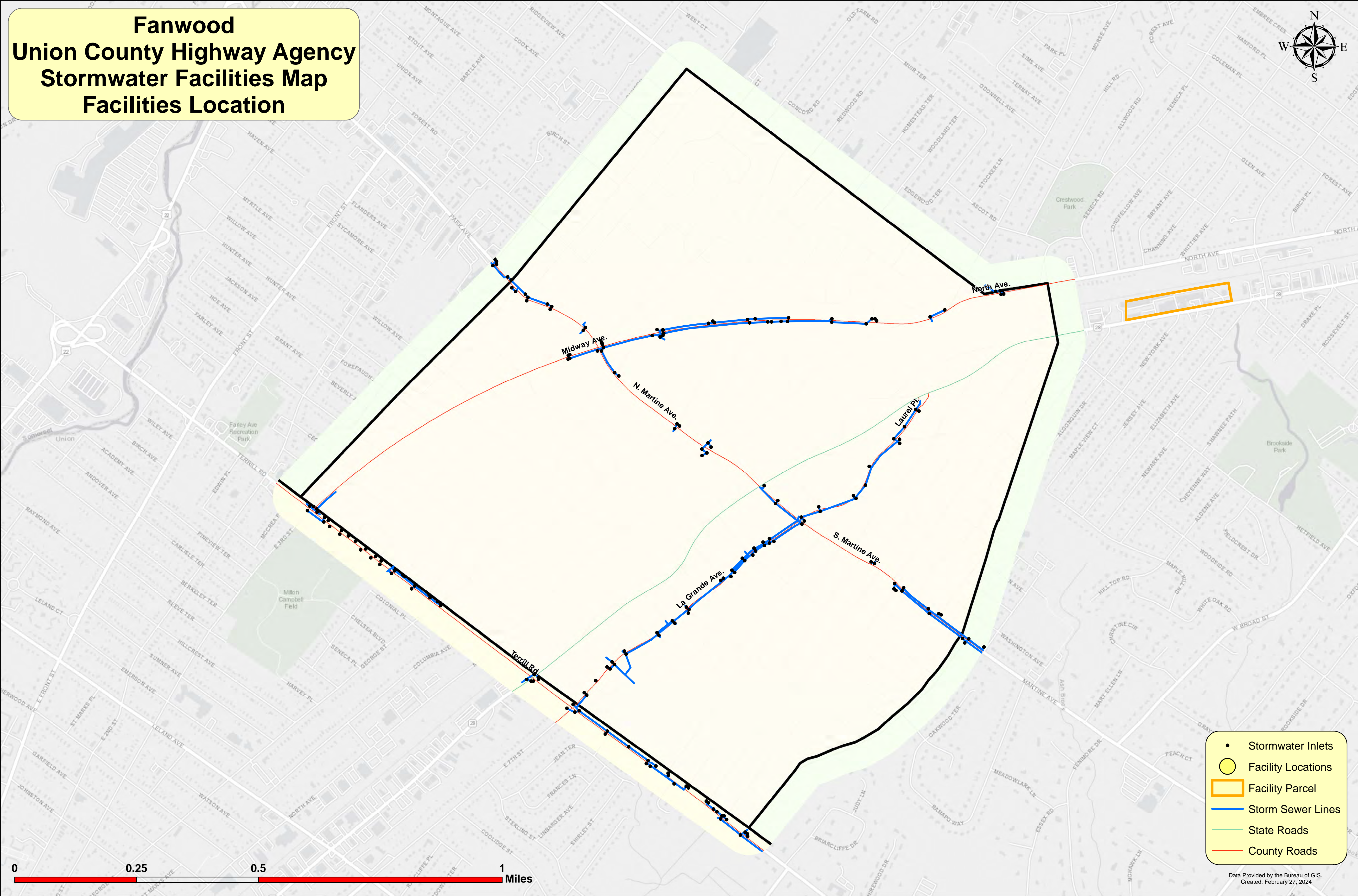
Elizabeth Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

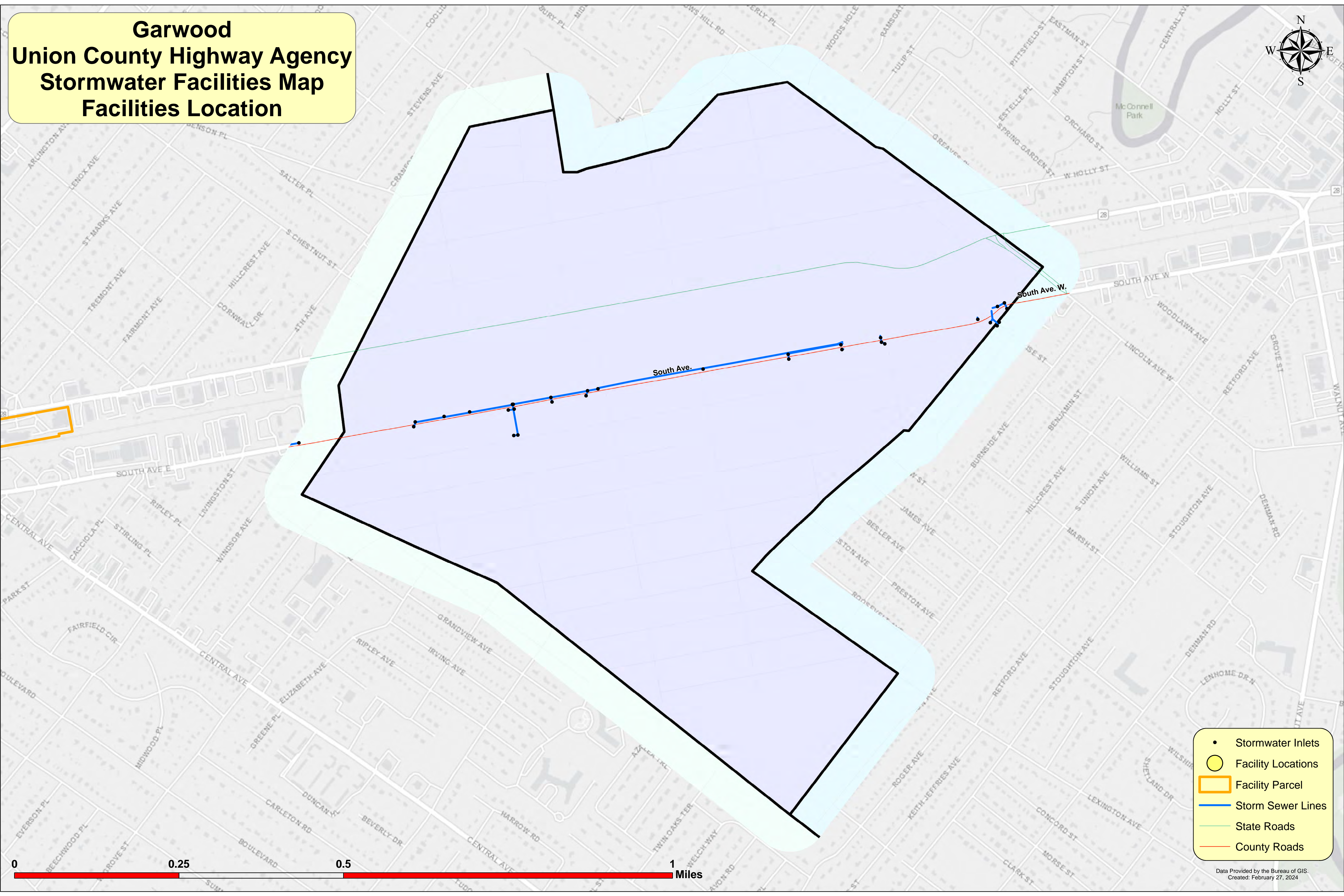


Fanwood Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

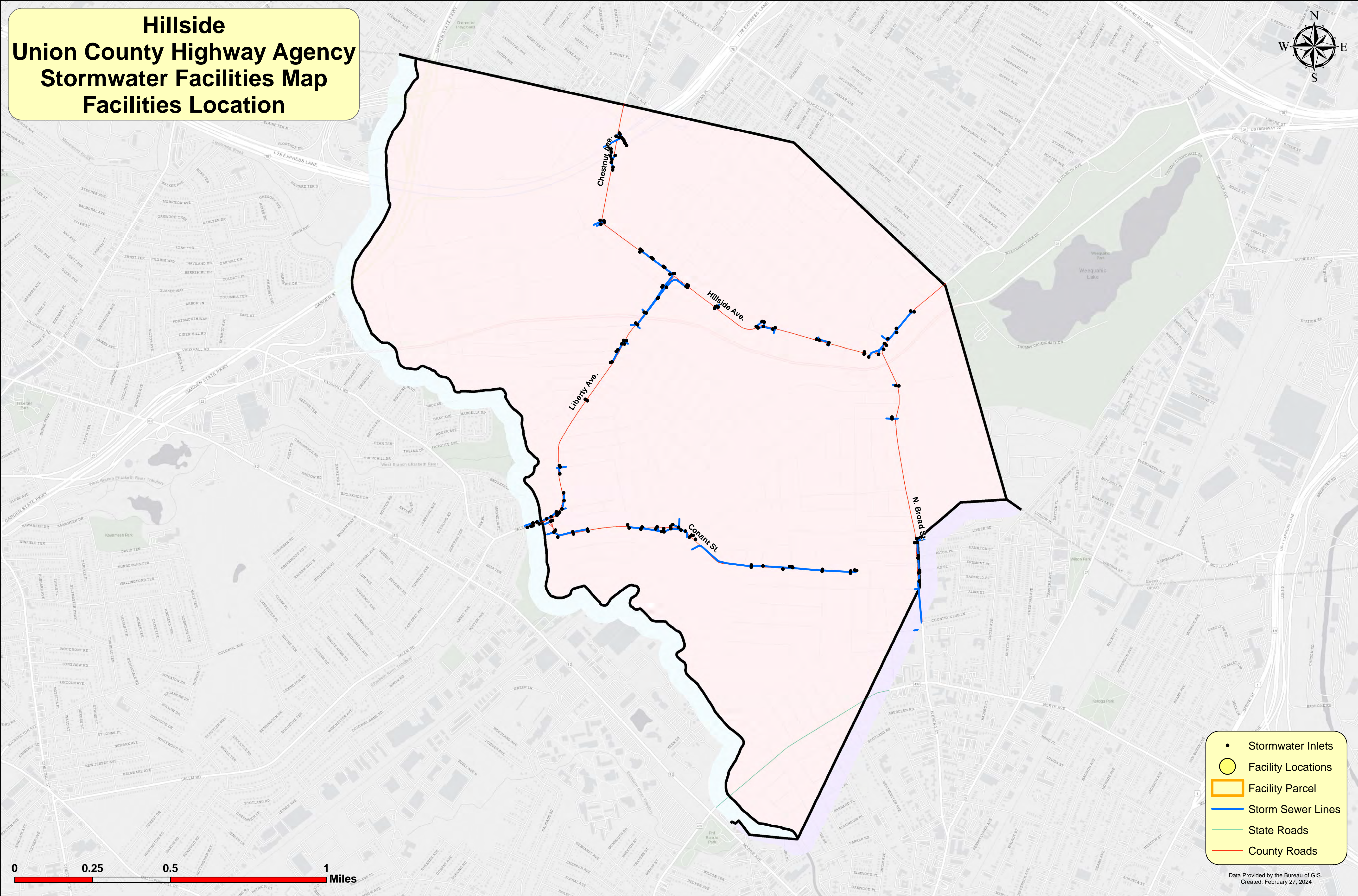
Garwood Union County Highway Agency Stormwater Facilities Map Facilities Location



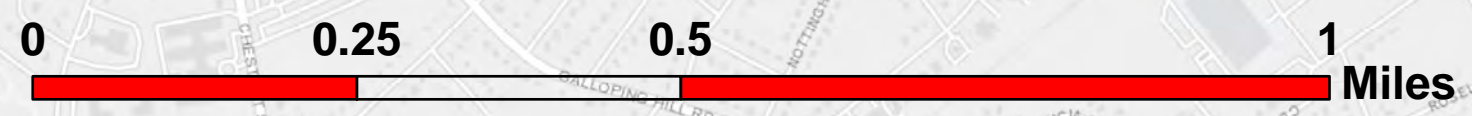
- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles

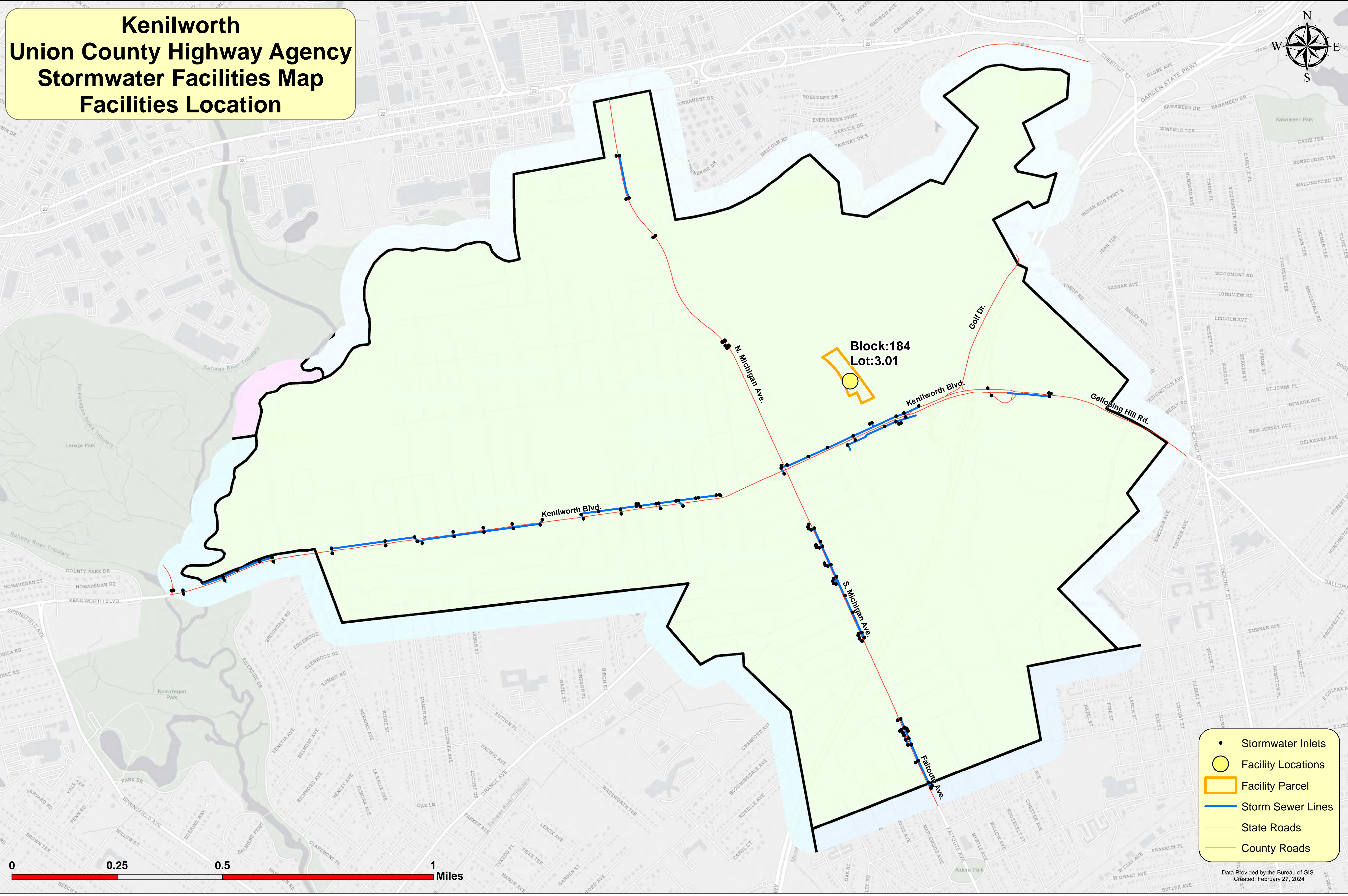
Hillside Union County Highway Agency Stormwater Facilities Map Facilities Location



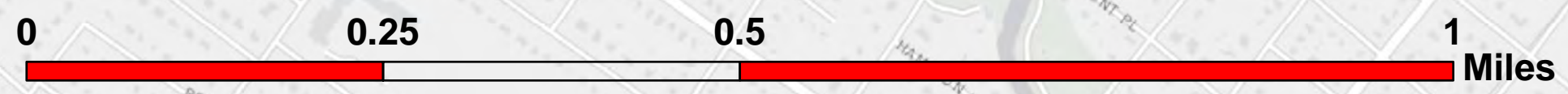
- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



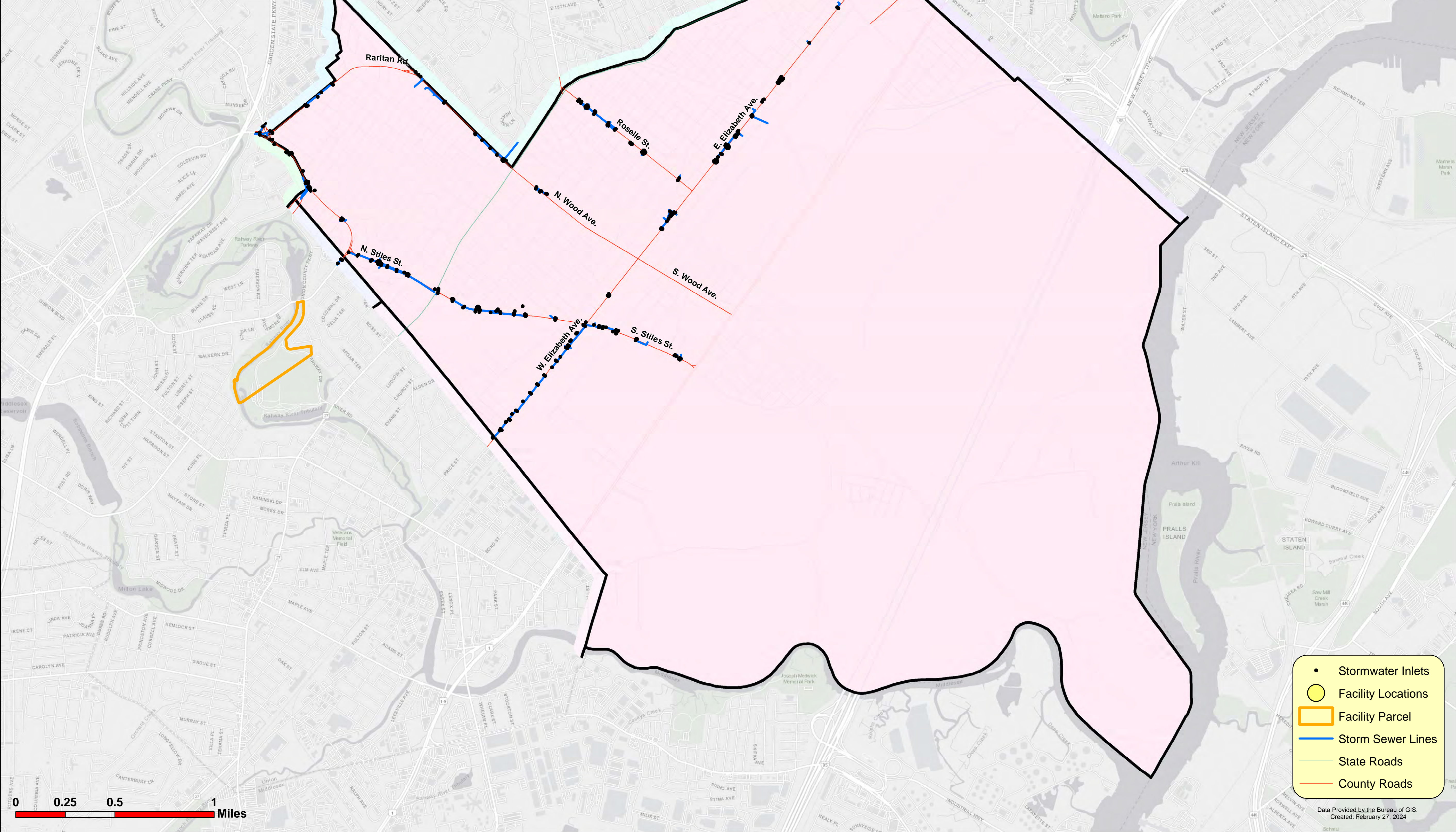
Kenilworth Union County Highway Agency Stormwater Facilities Map Facilities Location



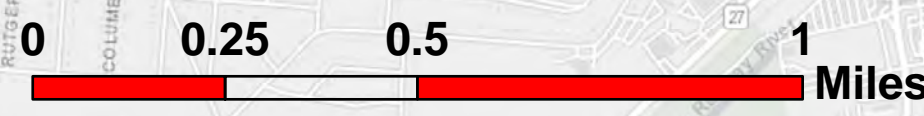
- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



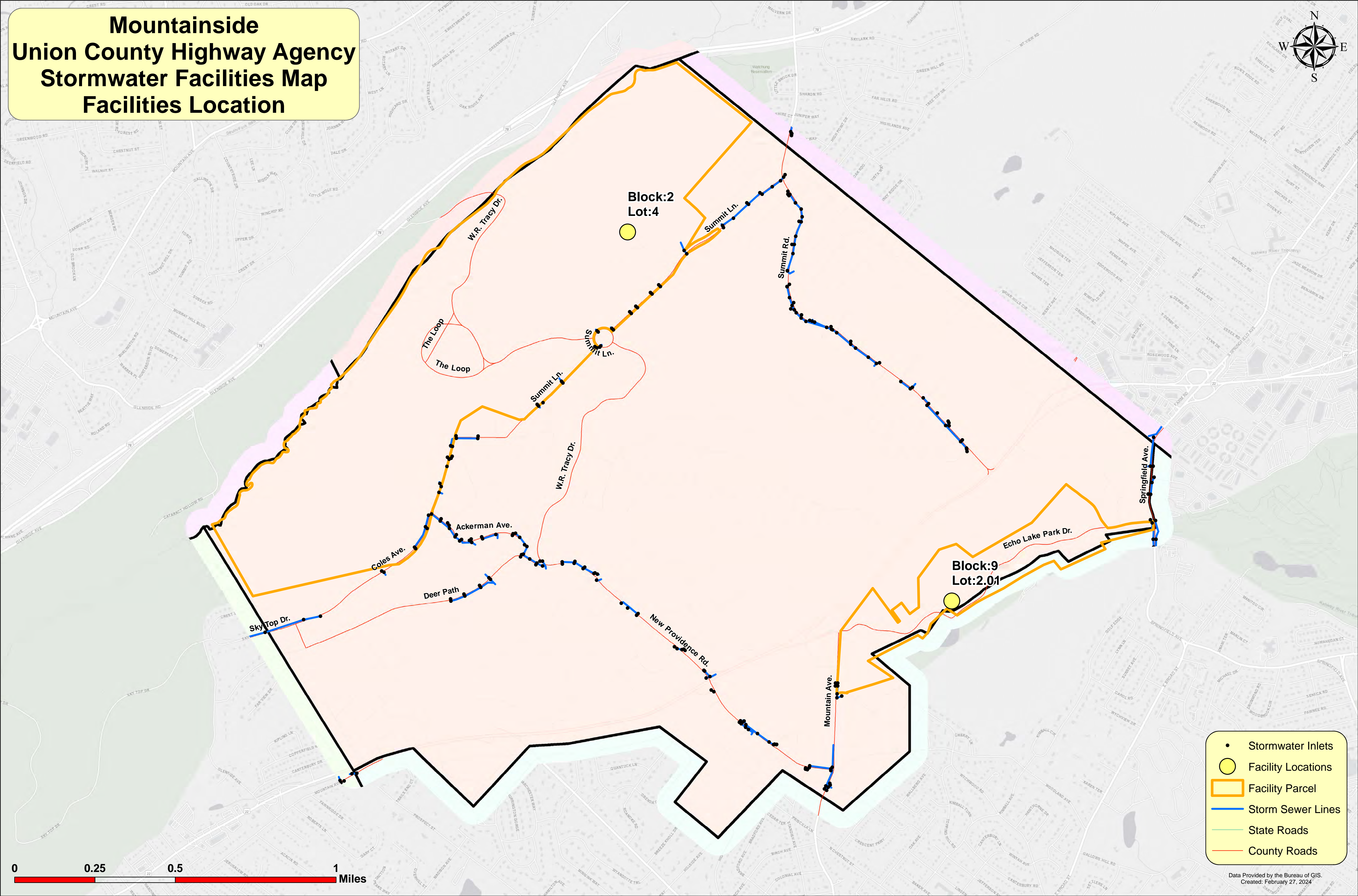
Linden Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

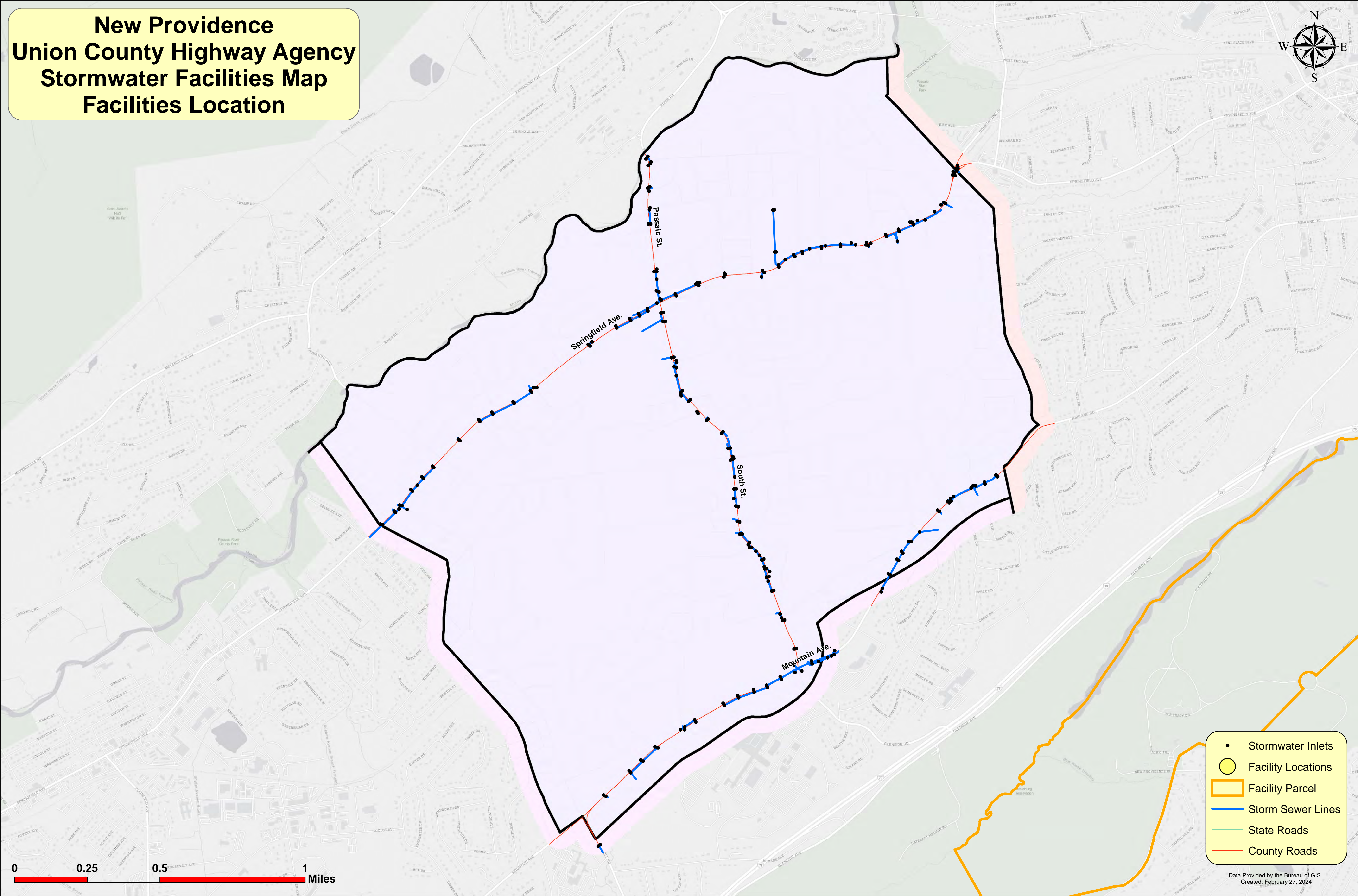


Mountainside Union County Highway Agency Stormwater Facilities Map Facilities Location

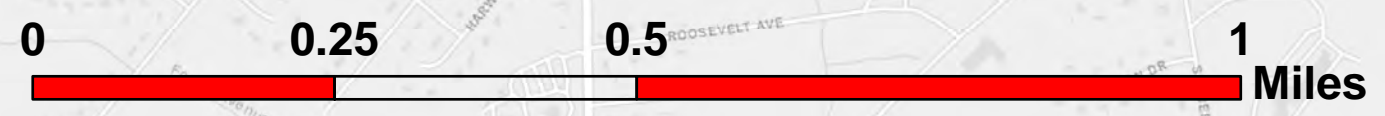


- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

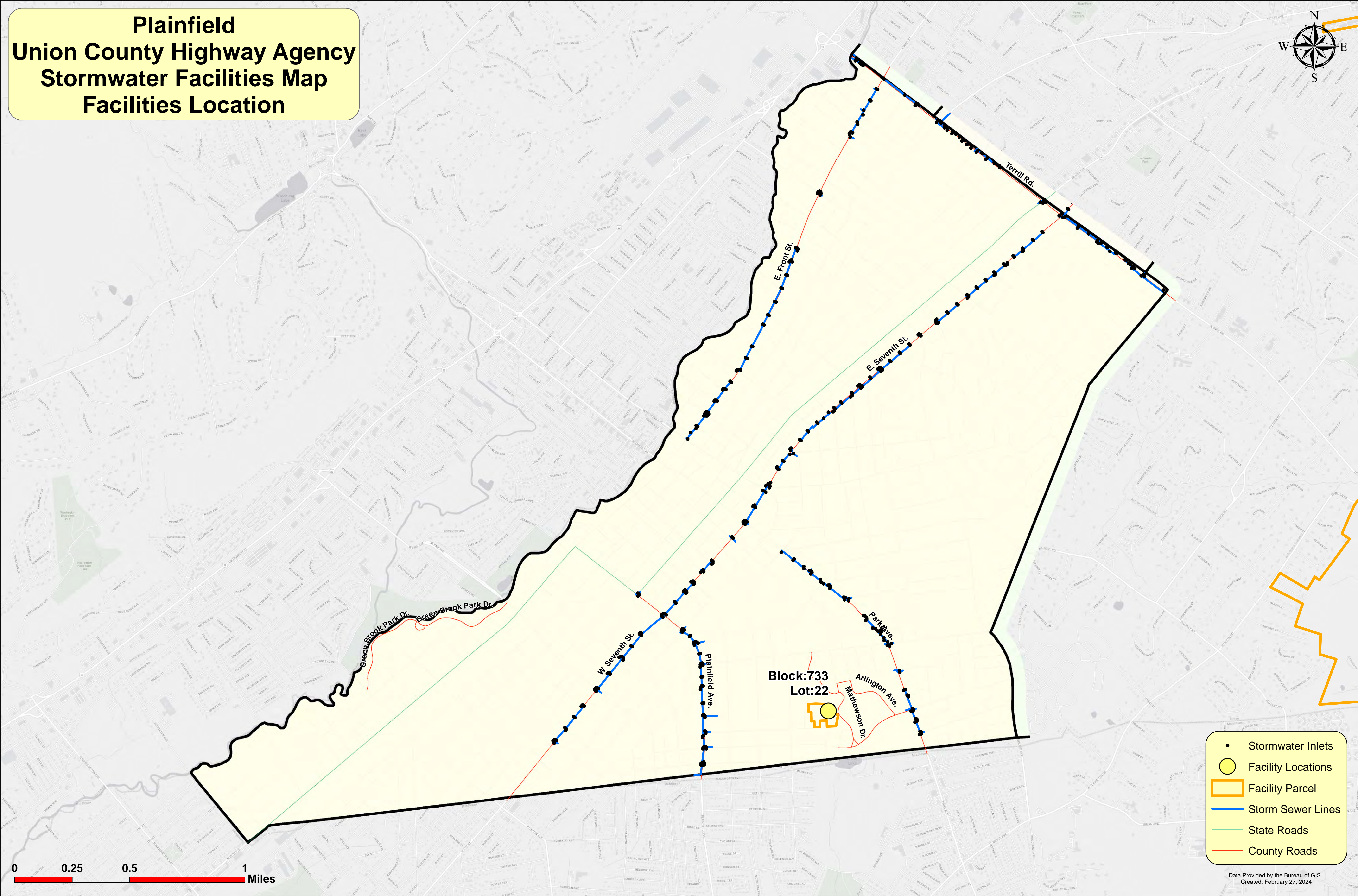
New Providence Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



Plainfield Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

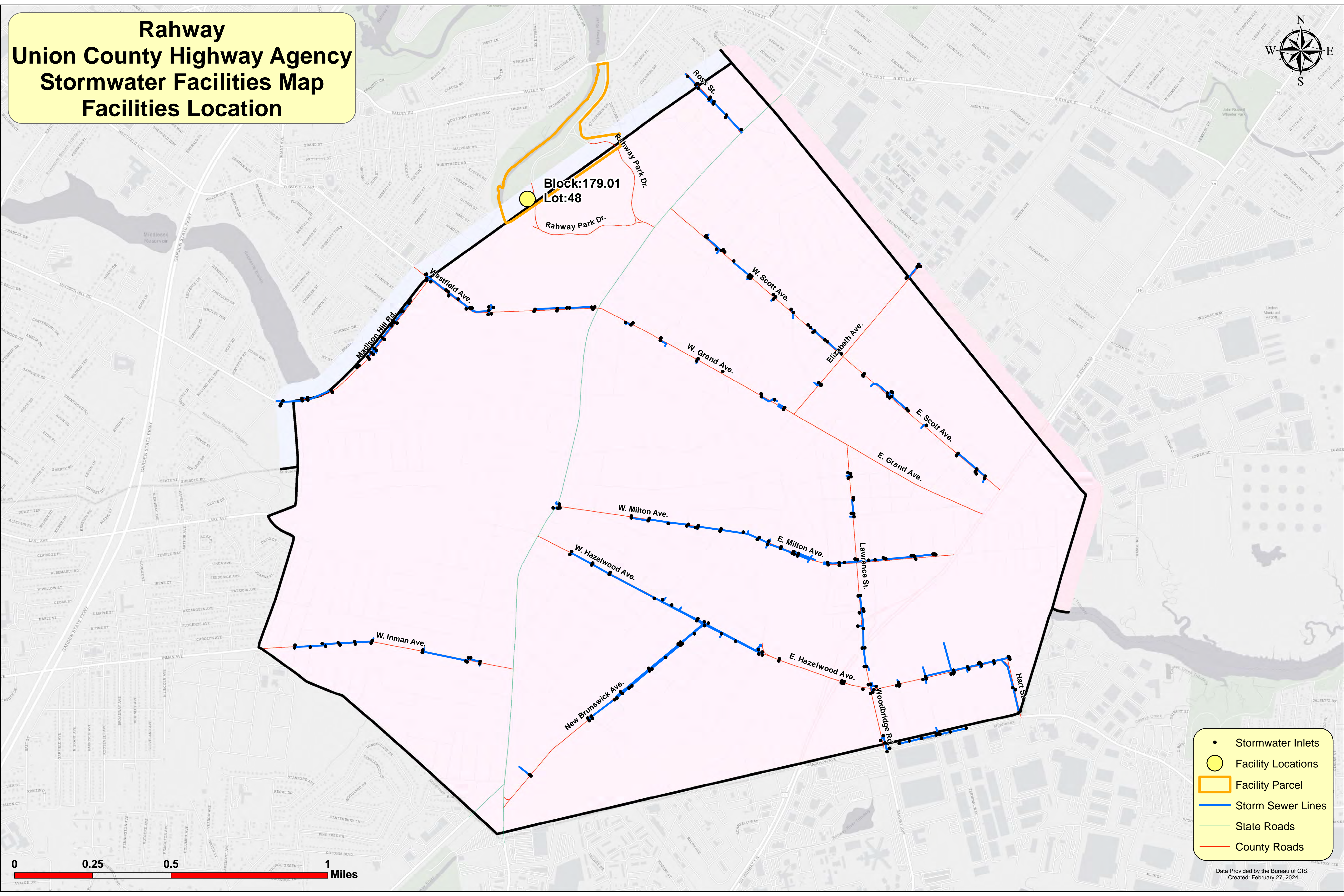
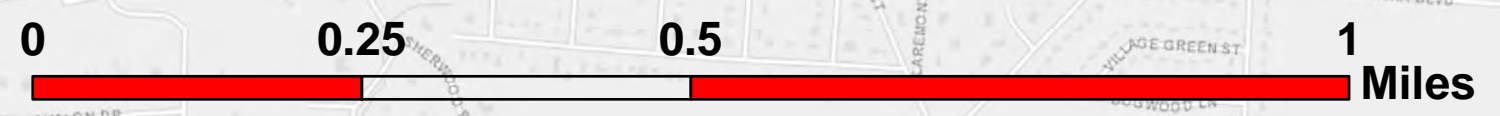
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Rahway Union County Highway Agency Stormwater Facilities Map Facilities Location

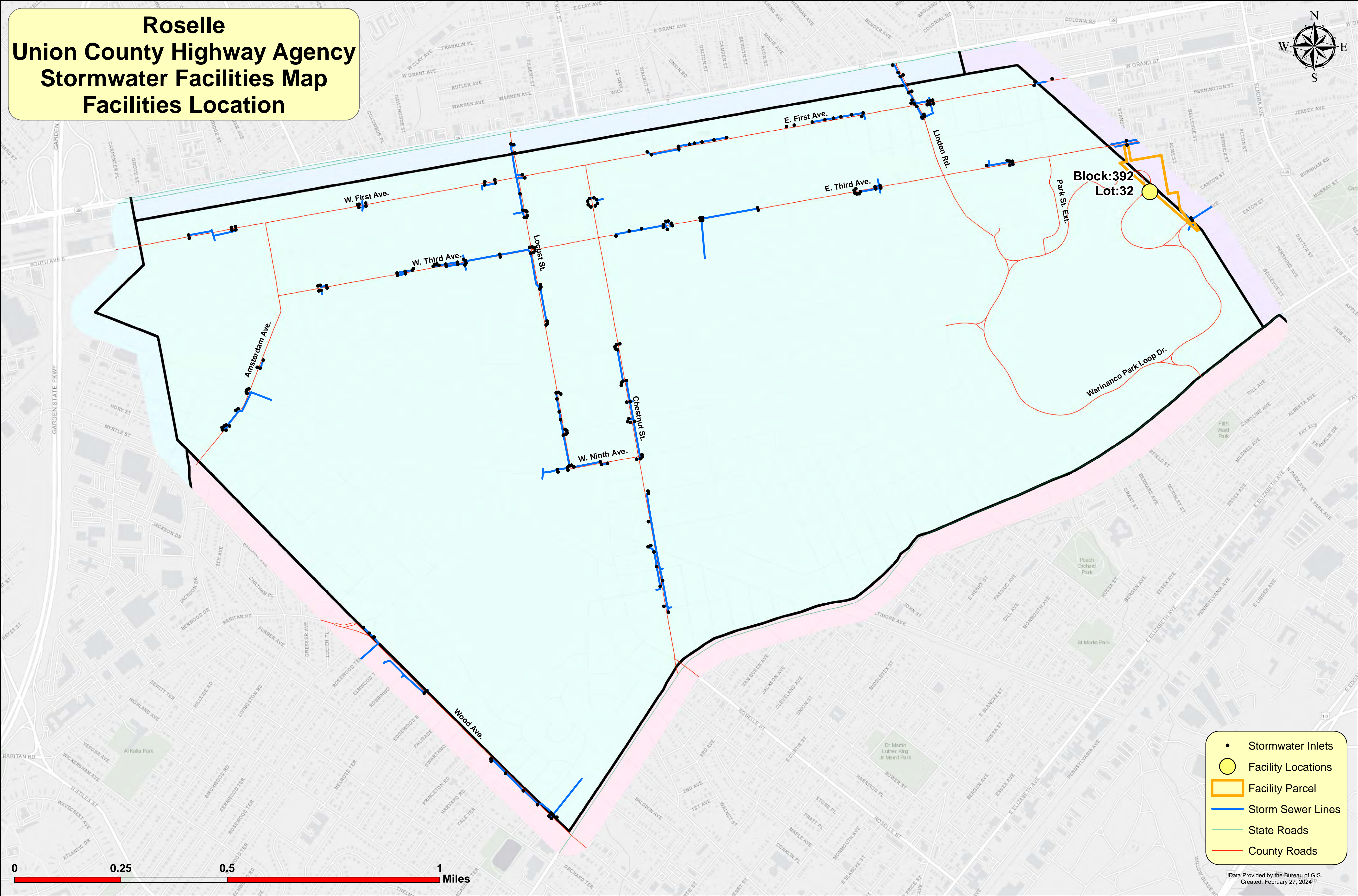


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Lot:48
Rahway Park Dr.

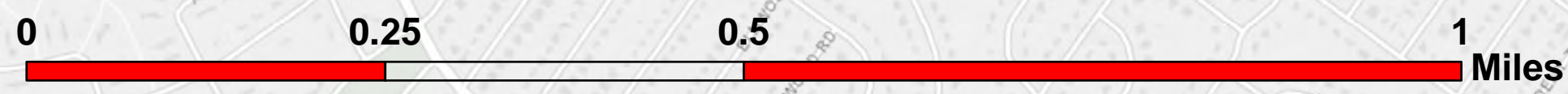
- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



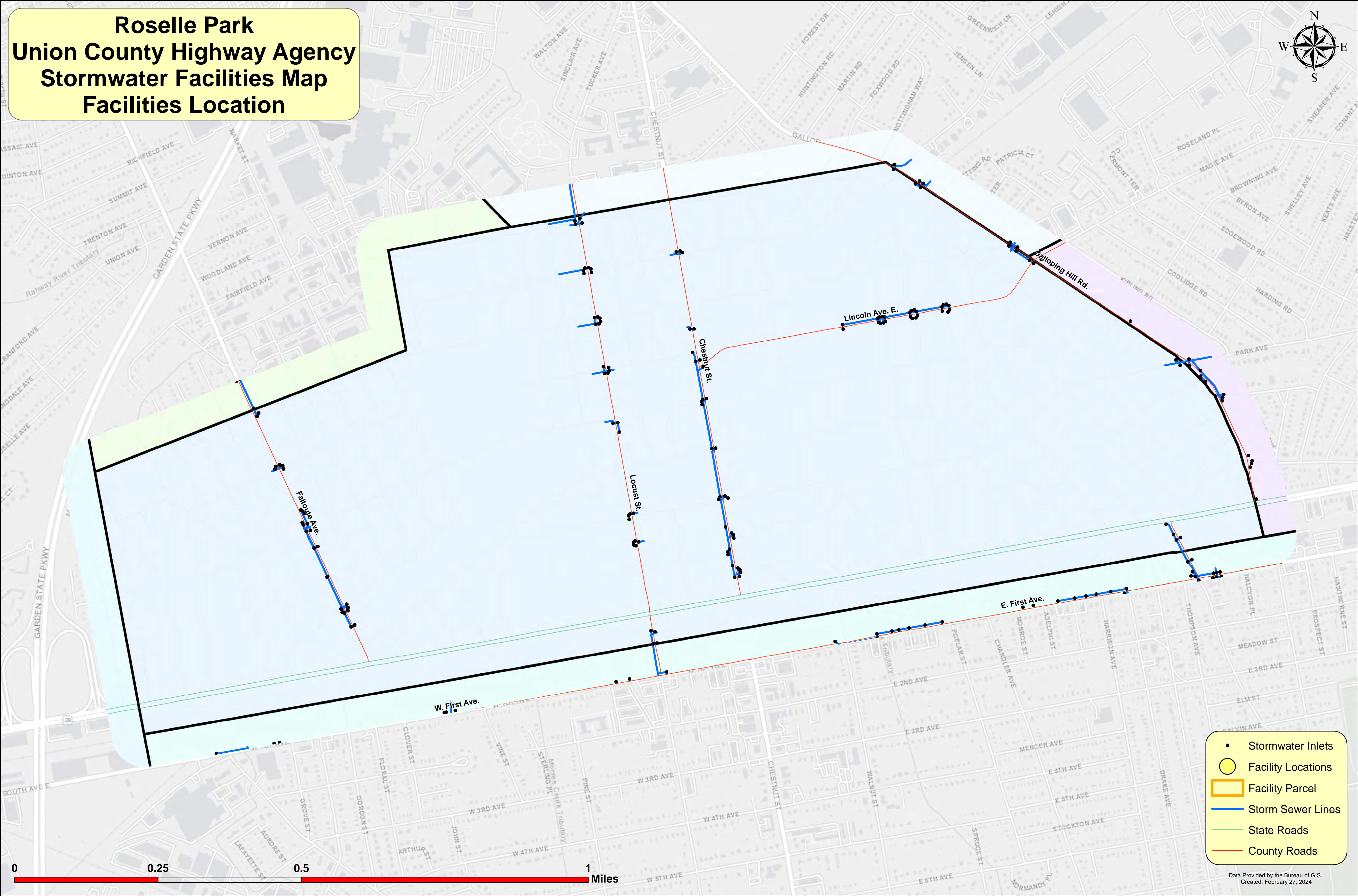
Roselle Union County Highway Agency Stormwater Facilities Map Facilities Location



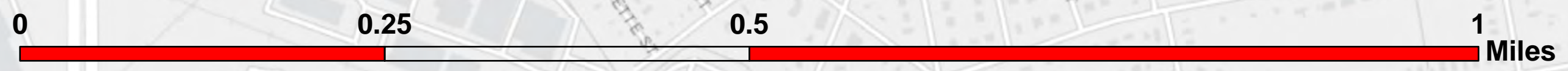
- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



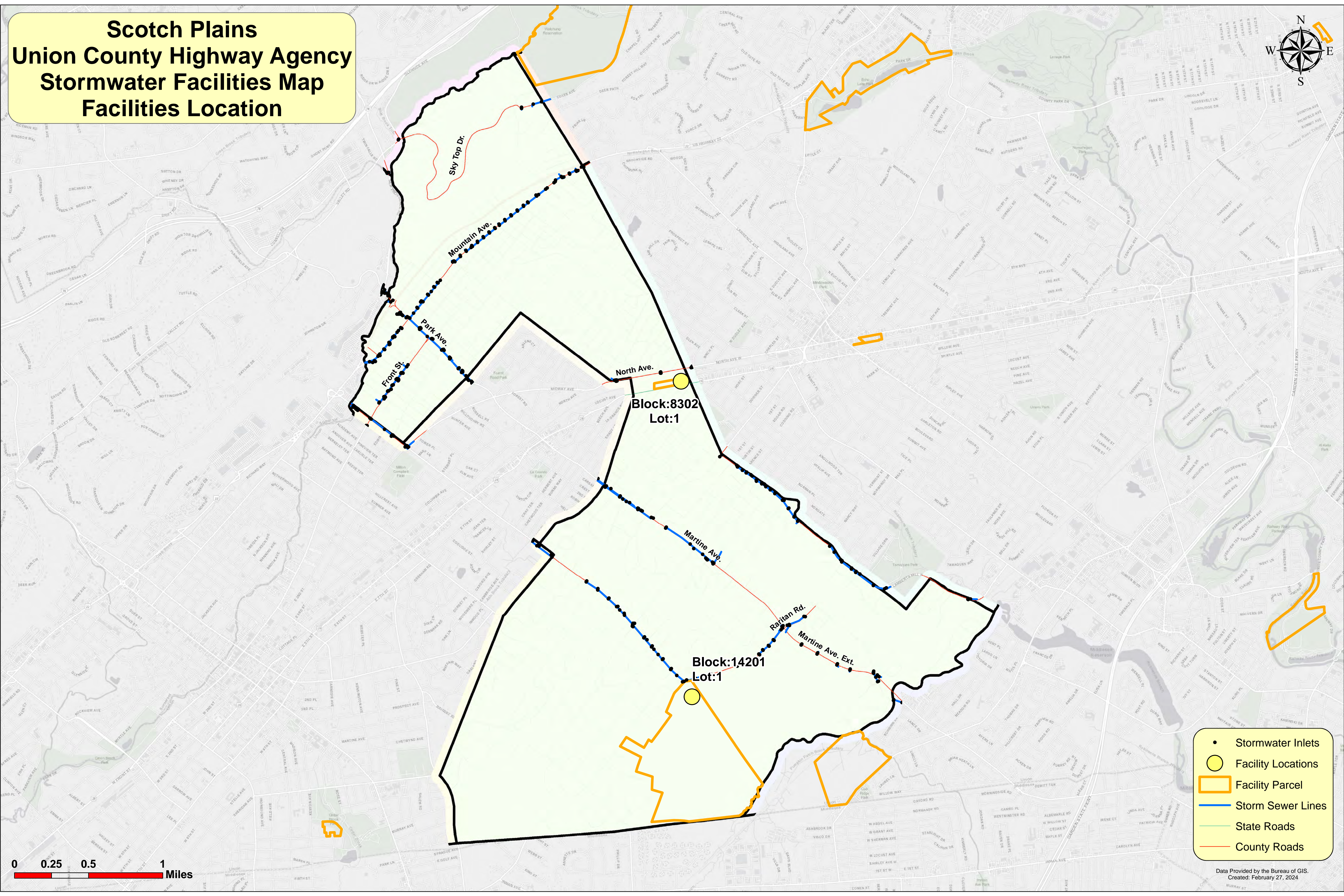
Roselle Park Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



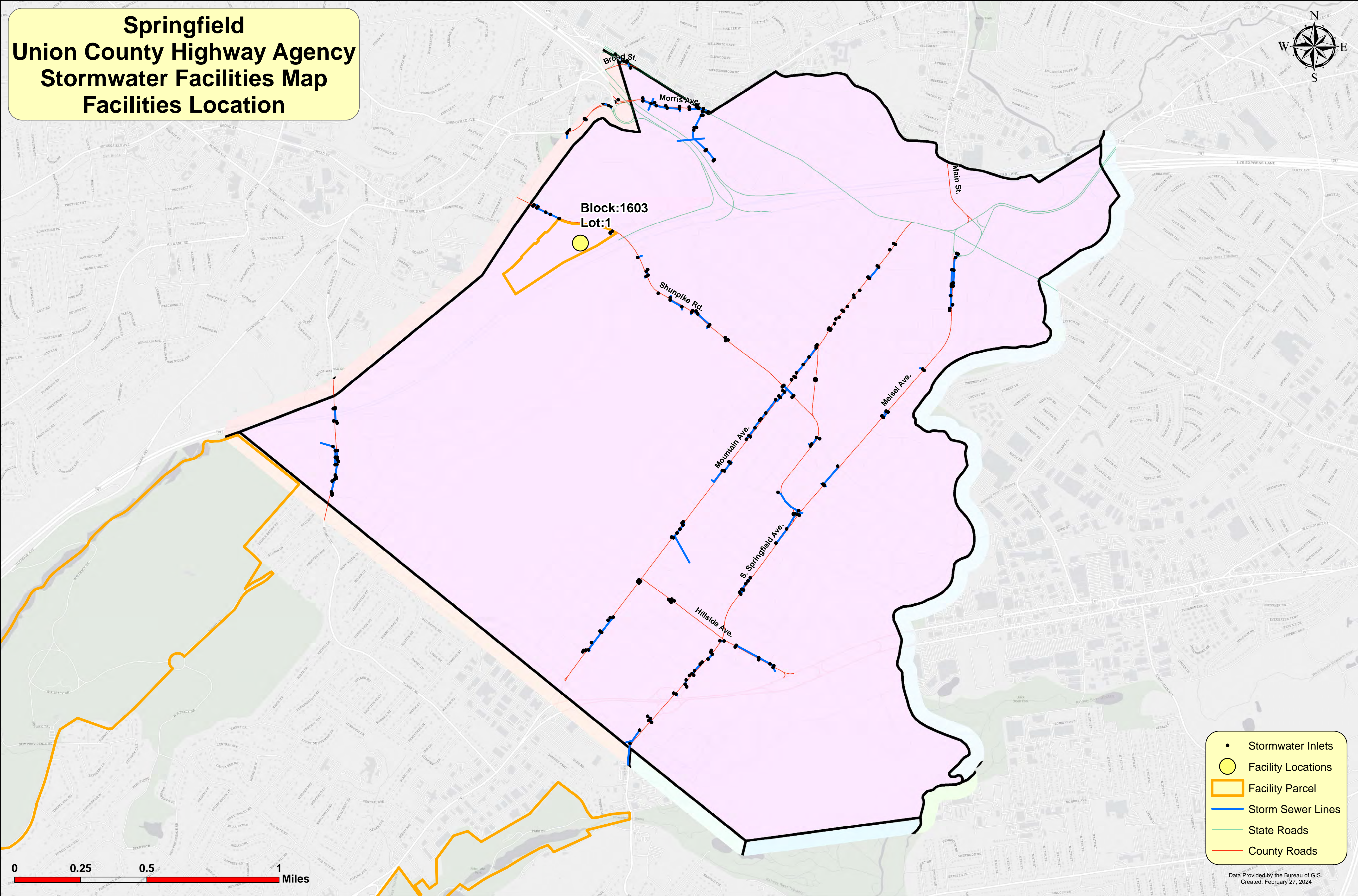
Scotch Plains Union County Highway Agency Stormwater Facilities Map Facilities Location



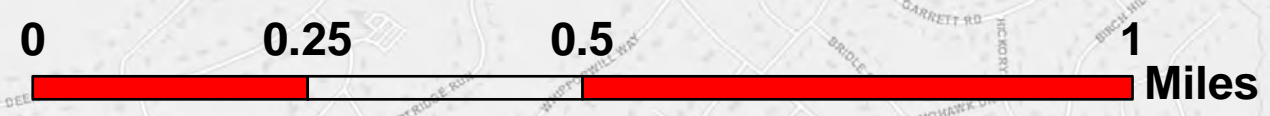
- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles

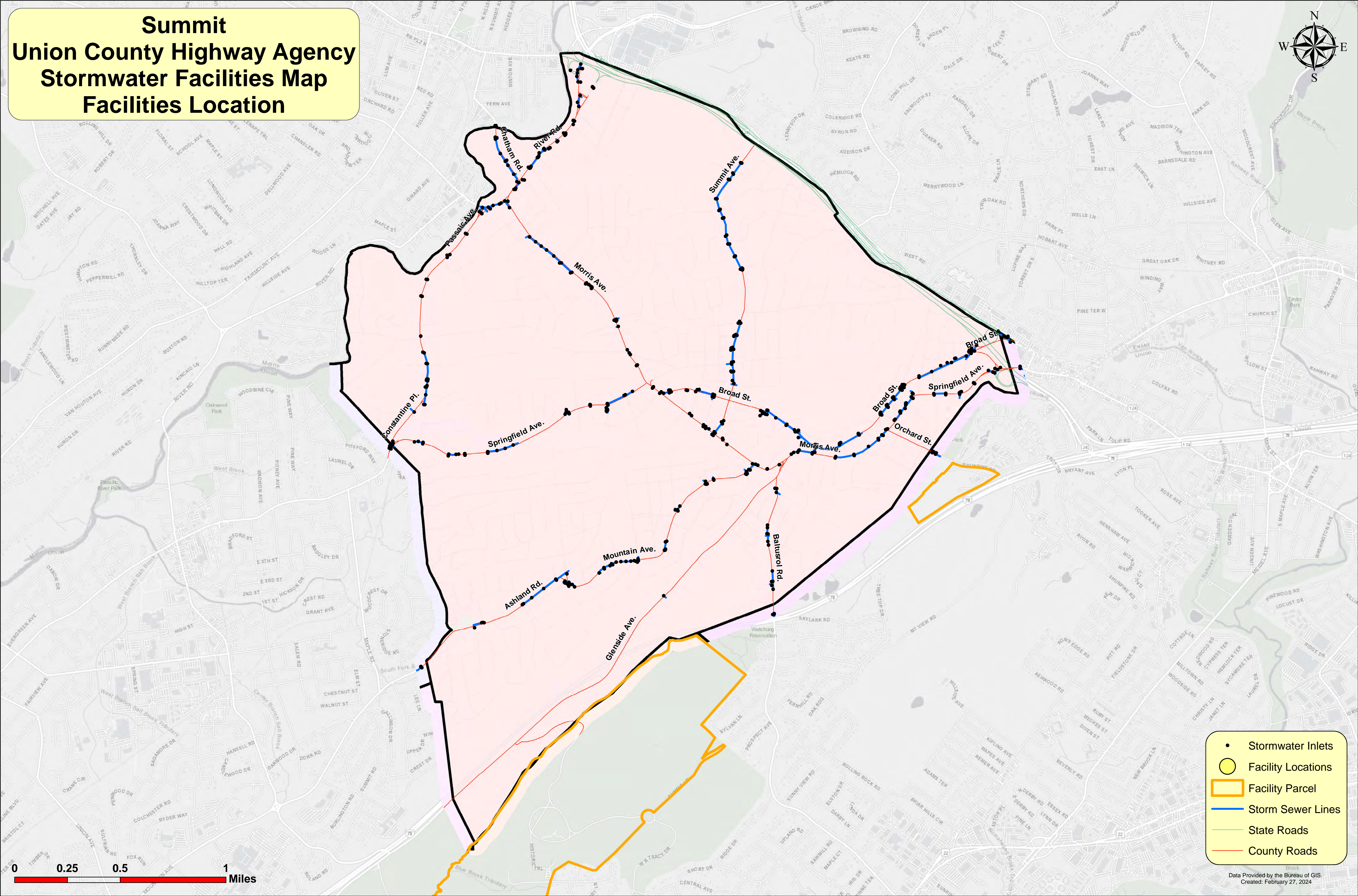
Springfield Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



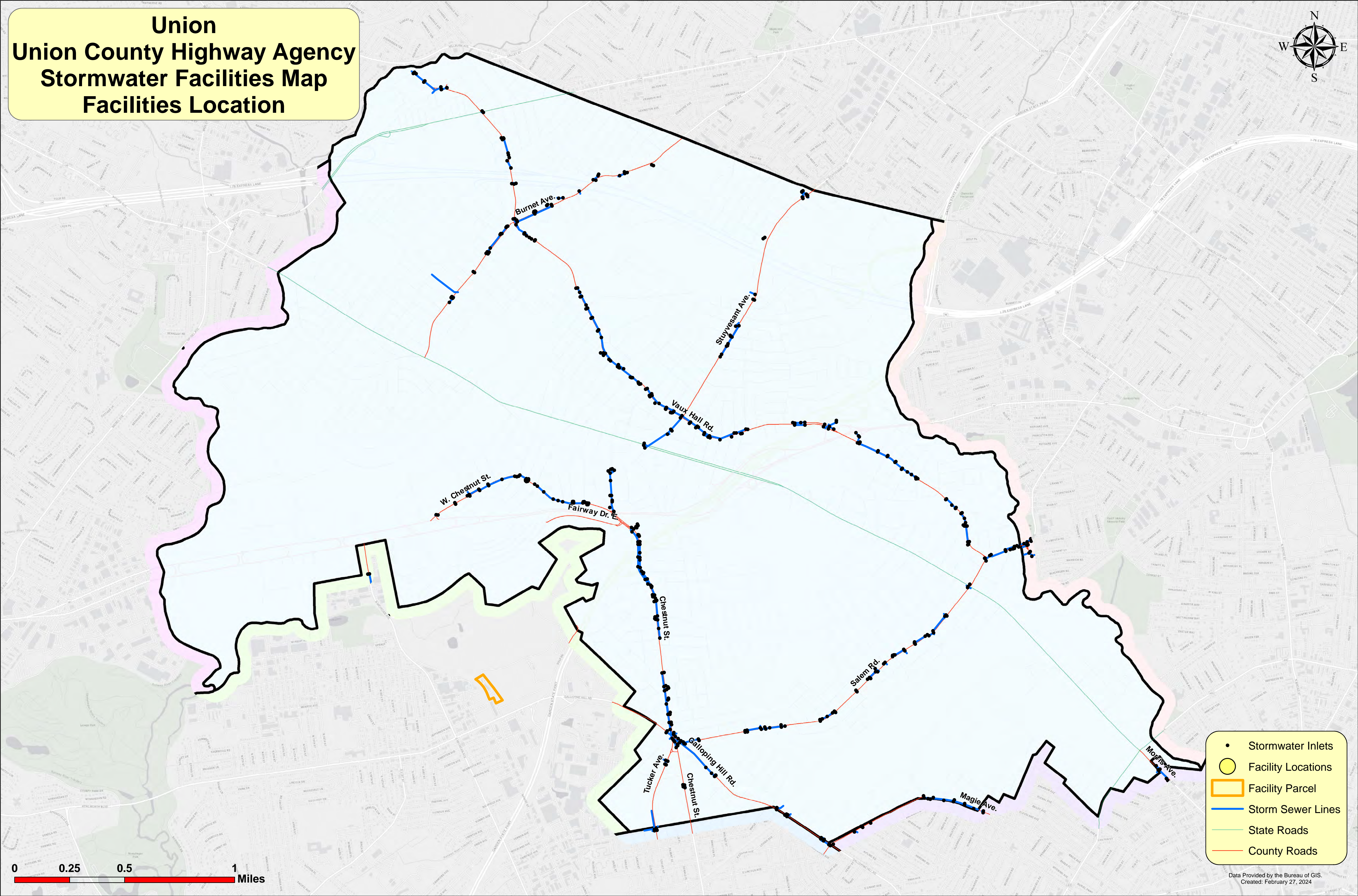
Summit Union County Highway Agency Stormwater Facilities Map Facilities Location



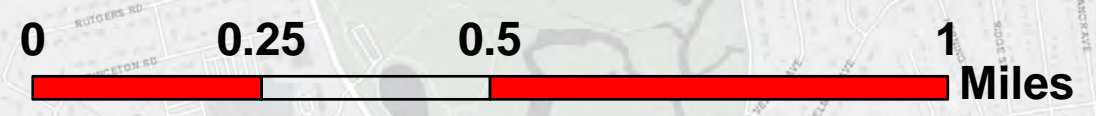
- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



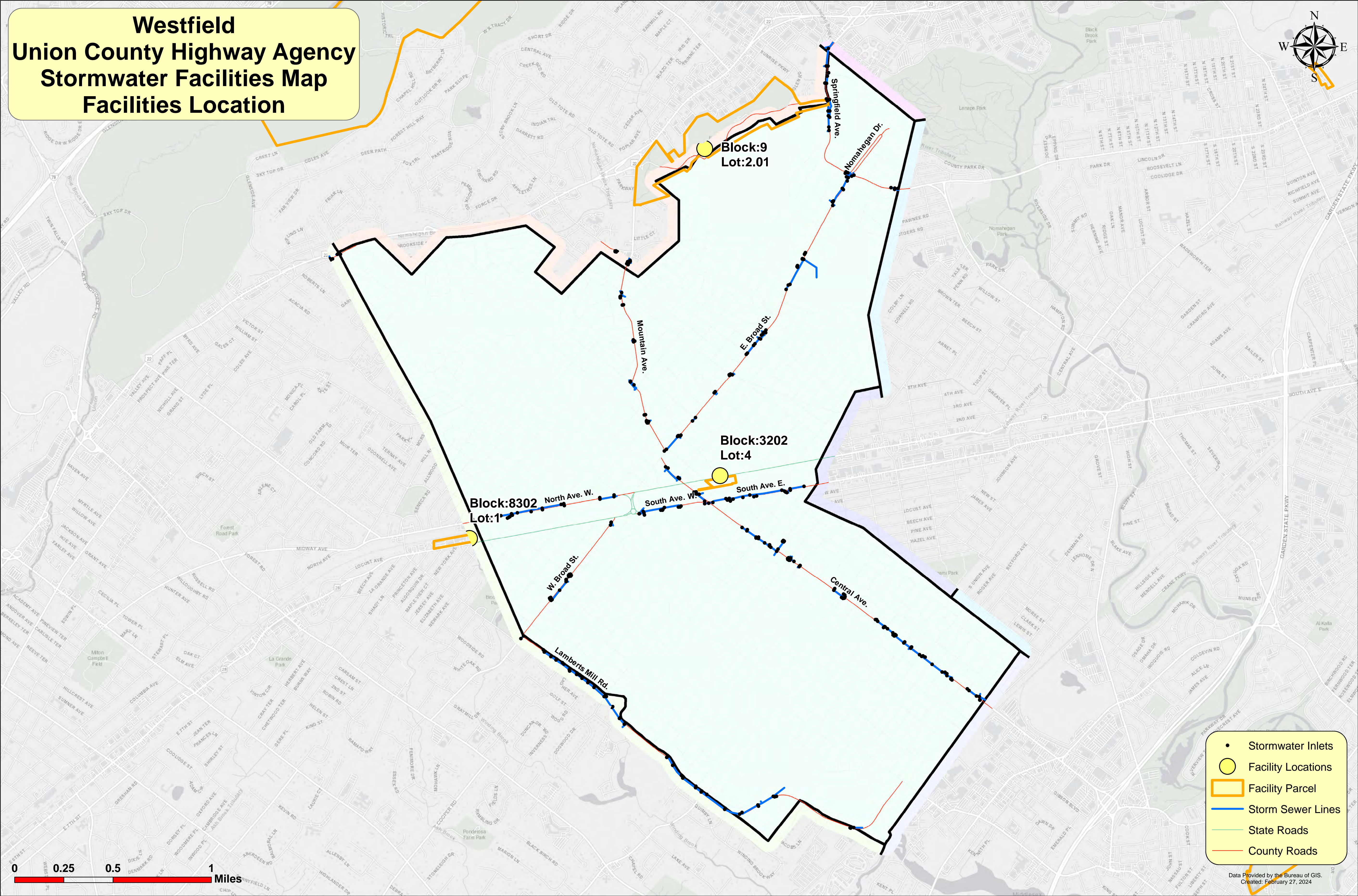
Union Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



Westfield Union County Highway Agency Stormwater Facilities Map Facilities Location



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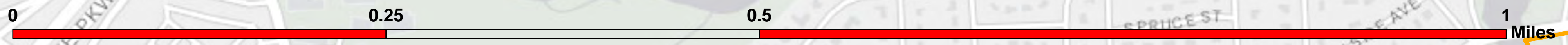
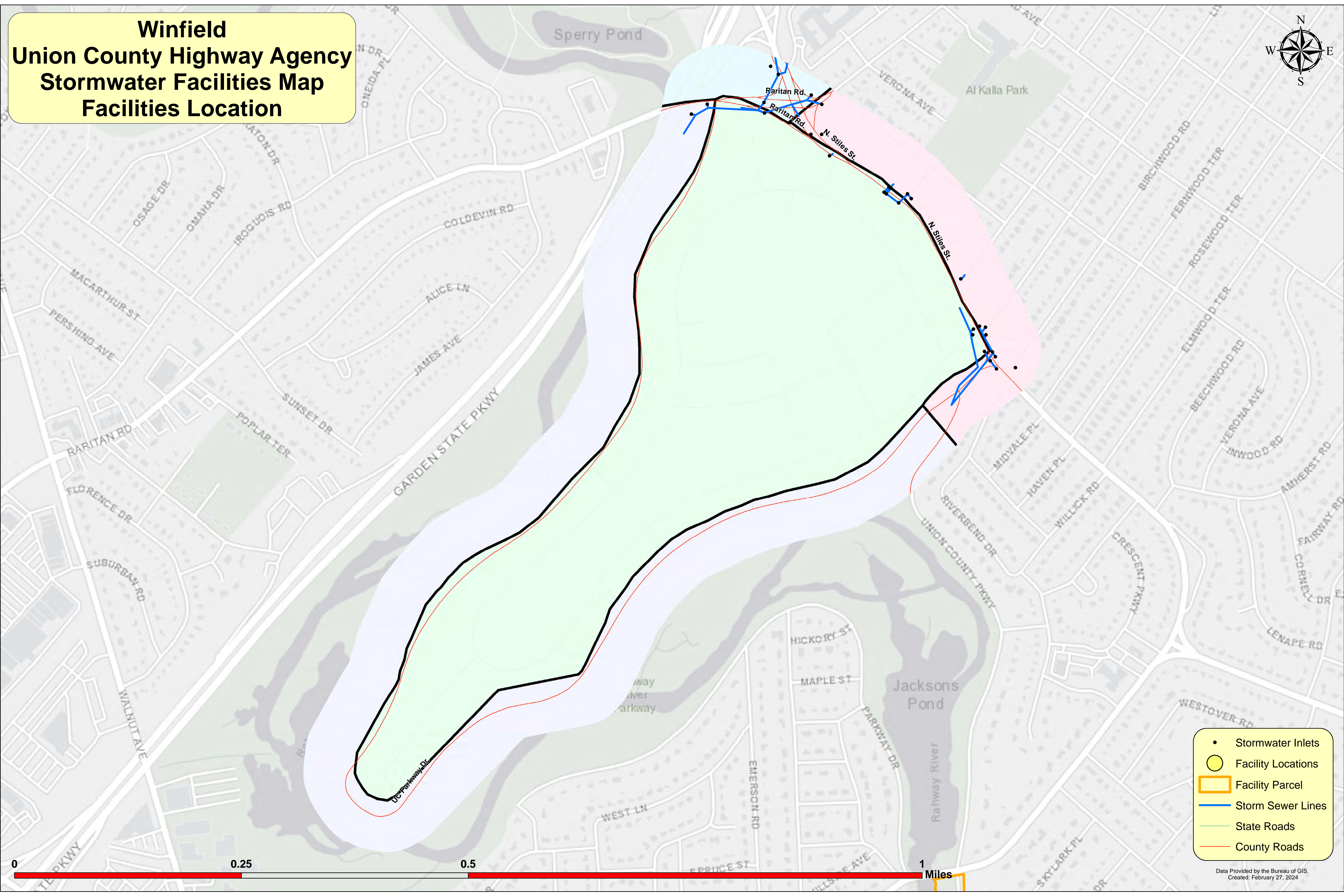
Block:3202
Lot:4

Block:8302
Lot:1

- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



Winfield Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

Appendix K

TMDLs

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Berkeley Heights Township
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 32 Streams in the Northeast Water Region
Fecal Coliform - 2003 : Passaic & Dead R nr Millington, Black Bk at Madison, Canoe Bk nr Summit, Passaic nr Catham : [View the TMDL Document](#)
- Total Maximum Daily Load Report for the Non-Tidal Passaic River Basin Addressing Phosphorus Impairments
Total Phosphorus - 2008 : Passaic R Upr (40d 45m to Snyder Ave) : [View the TMDL Document](#)
- Total Maximum Daily Load Report for the Non-Tidal Passaic River Basin Addressing Phosphorus Impairments
Total Phosphorus - 2008 : Passaic R Upr (Snyder to Plainfield Rd) : [View the TMDL Document](#)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments
Total Suspended Solids - 2016 : Green Bk (N Plainfield gage to Blue Bk) : [View the TMDL Document](#)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments
Total Suspended Solids - 2016 : Green Bk (above/incl Blue Brook) : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Clark Township
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Robinsons Branch : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Cranford Township
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Robinsons Branch : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Elizabeth City

Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Elizabeth River : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Fanwood Borough
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Robinsons Branch : [View the TMDL Document](#)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments
Total Suspended Solids - 2016 : Spring Lake Fork of Bound Brook : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Garwood Borough
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Robinsons Branch : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Hillside Township

Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Elizabeth River : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Kenilworth Borough
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Elizabeth River : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Linden City
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Elizabeth River : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Mountainside Borough
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Green Bk (N Plainfield gage to Blue Bk) : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Green Bk (above/incl Blue Brook) : [View the TMDL Document](#)

Applicable Lake TMDL(s)

- Total Maximum Daily Loads for Phosphorus To Address 6 Eutrophic Lakes in the Raritan Water Region

Total Phosphorus - 2003 : Echo Lake : [View the TMDL Document](#)

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

New Providence Borough
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 32 Streams in the Northeast Water Region
Fecal Coliform - 2003 : Passaic & Dead R nr Millington, Black Bk at Madison, Canoe Bk nr Summit, Passaic nr Catham : [View the TMDL Document](#)
- Total Maximum Daily Load Report for the Non-Tidal Passaic River Basin Addressing Phosphorus Impairments
Total Phosphorus - 2008 : Passaic R Upr (40d 45m to Snyder Ave) : [View the TMDL Document](#)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments
Total Suspended Solids - 2016 : Green Bk (above/incl Blue Brook) : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Plainfield City
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Robinsons Branch : [View the TMDL Document](#)

- Total Maximum Daily Load for Mercury Impairments Based on Concentration in Fish Tissue Caused Mainly by Air Deposition to Address 122 HUC 14s Statewide

Mercury - 2010 : Bound Brook (below fork at 74d 25m 15s) : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Bound Brook (below fork at 74d 25m 15s) : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Green Bk (Bound Bk to N Plainfield gage) : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Green Bk (N Plainfield gage to Blue Bk) : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Spring Lake Fork of Bound Brook : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Rahway City
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Robinsons Branch : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 3 Streams in the Raritan Water Region
Fecal Coliform - 2005 : S Br Rahway R at Colonia : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Roselle Borough

Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Elizabeth River : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Roselle Park Borough

Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Elizabeth River : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Scotch Plains Township
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Robinsons Branch : [View the TMDL Document](#)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments
Total Suspended Solids - 2016 : Green Bk (N Plainfield gage to Blue Bk) : [View the TMDL Document](#)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments
Total Suspended Solids - 2016 : Green Bk (above/incl Blue Brook) : [View the TMDL Document](#)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments
Total Suspended Solids - 2016 : Spring Lake Fork of Bound Brook : [View the TMDL Document](#)

Applicable Lake TMDL(s)

- Total Maximum Daily Loads for Phosphorus To Address 6 Eutrophic Lakes in the Raritan Water Region
Total Phosphorus - 2003 : Echo Lake : [View the TMDL Document](#)

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Springfield Township
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Green Bk (above/incl Blue Brook) : [View the TMDL Document](#)

Applicable Lake TMDL(s)

- Total Maximum Daily Loads for Phosphorus To Address 6 Eutrophic Lakes in the Raritan Water Region

Total Phosphorus - 2003 : Echo Lake : [View the TMDL Document](#)

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Summit City
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 32 Streams in the Northeast Water Region
Fecal Coliform - 2003 : Passaic & Dead R nr Millington, Black Bk at Madison, Canoe Bk nr Summit, Passaic nr Catham : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)
- Total Maximum Daily Load Report for the Non-Tidal Passaic River Basin Addressing Phosphorus Impairments
Total Phosphorus - 2008 : Canoe Brook : [View the TMDL Document](#)
- Total Maximum Daily Load Report for the Non-Tidal Passaic River Basin Addressing Phosphorus Impairments
Total Phosphorus - 2008 : Passaic R Upr (40d 45m to Snyder Ave) : [View the TMDL Document](#)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments
Total Suspended Solids - 2016 : Green Bk (above/incl Blue Brook) : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Union Township
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Elizabeth River : [View the TMDL Document](#)
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region
Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information**Municipality and County**

Westfield Town
Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:**Applicable Stream TMDL(s)**

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Green Brook, Bound Brook : [View the TMDL Document](#)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Robinsons Branch : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Green Bk (N Plainfield gage to Blue Bk) : [View the TMDL Document](#)

- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments

Total Suspended Solids - 2016 : Spring Lake Fork of Bound Brook : [View the TMDL Document](#)

Applicable Lake TMDL(s)

- Total Maximum Daily Loads for Phosphorus To Address 6 Eutrophic Lakes in the Raritan Water Region

Total Phosphorus - 2003 : Echo Lake : [View the TMDL Document](#)

Applicable Shellfish TMDL(s)

None

Total Maximum Daily Load (TMDL) Information

Municipality and County

Winfield Township

Union County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region

Fecal Coliform - 2003 : Rahway River : [View the TMDL Document](#)

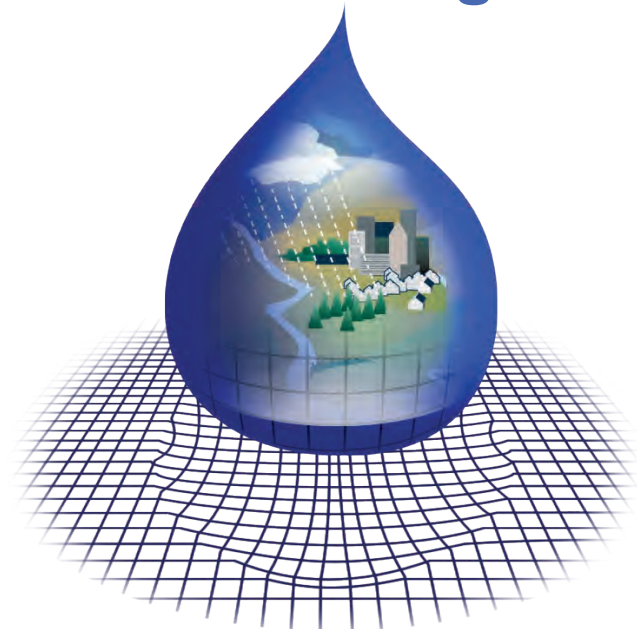
Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

TMDL Modeling Toolbox



What is the Toolbox?

The TMDL Modeling Toolbox is a collection of models, modeling tools, and databases that have been utilized over the past decade in the development of Total Maximum Daily Loads (TMDLs). The Toolbox takes these proven technologies and provides the capability to more readily apply the models, analyze the results, and integrate watershed loading models with receiving water applications. The design of the toolbox is such that each of the models are stand alone applications. The toolbox provides an exchange of information between the models through common linkages. Due to the modular design of the Toolbox, additional models can be added easily to integrate with the other tools. In addition, the toolbox provides the capability to visualize model results, a linkage to GIS and non-geographic databases (including monitoring data for calibration), and the functionality to perform data assessments.

What models are in the Toolbox?

The Toolbox allows for the steady-state/dynamic simulation of mass transport and water quality processes in all types of surface water environments, including overland flow, small creeks, rivers, lakes, estuaries, coastal embayments, and offshore areas. The Toolbox contains assessment tools, watershed models, and receiving water models including the following:

Assessment Tools:

- Water Resources Database (WRDB)
- Watershed Characterization System (WCS)
- WCS Sediment Tool
- WCS Mercury Tool
- WCS LSPC Tool

Watershed Models:

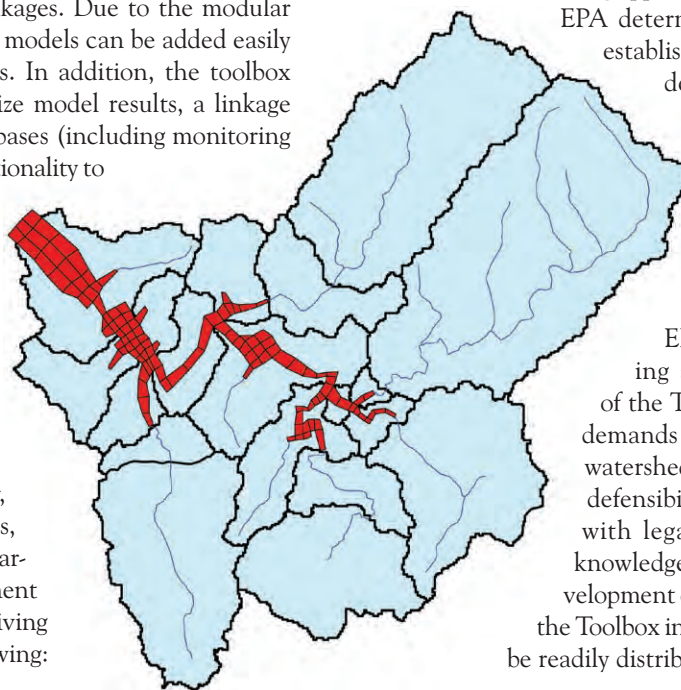
- Loading Simulation Program in C++ (LSPC)
- Watershed Assessment Model (WAMView)
- Storm Water Management Model (SWMM)

Receiving Water Models:

- A Dynamic One-Dimensional Model of Hydrodynamics and Water Quality (EPDRiv1)
- Stream Water Quality Model (QUAL2K)
- CONservational Channel Evolution and Pollutant Transport System (CONCEPTS)
- Environmental Fluid Dynamics Code (EFDC)
- Water Quality Analysis Simulation Program (WASP)

Why is the Toolbox being developed?

With the significant increase in the need for sophisticated modeling approaches for TMDL development, EPA determined that it is necessary to establish a level of consistency and defensibility for TMDL modeling tools. The Toolbox is designed to address a broad range of waterbody types and pollutants. EPA actively supports the components of the TMDL Modeling Toolbox. EPA is committed to enhancing and improving components of the Toolbox to meet the technical demands of the TMDL program and watershed protection. This will ensure defensibility when TMDLs are faced with legal challenges. Additionally, knowledge gained through TMDL development experience and modeling with the Toolbox in one region of the country can be readily distributed throughout others.



Have any of the Toolbox components been used for TMDL development?

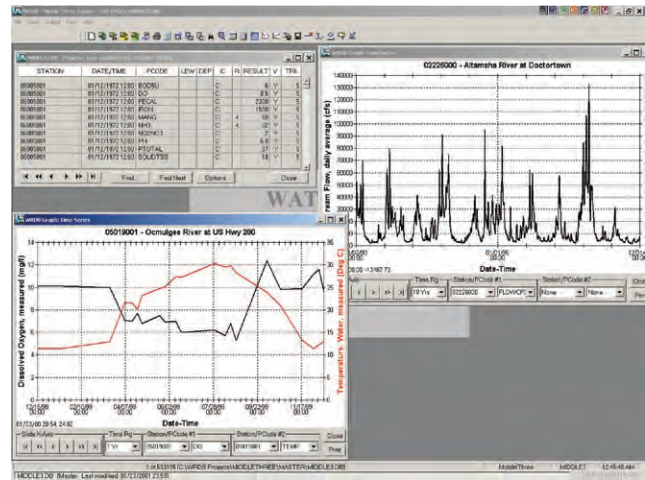
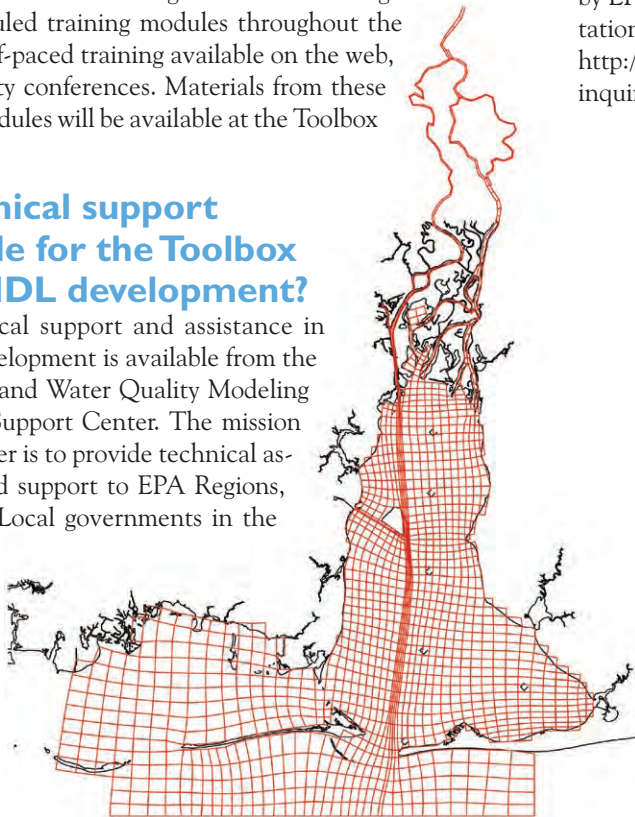
The Toolbox models and databases have been used both independently and collectively to develop defensible TMDLs for a wide array of issues including pathogens, sediment, nutrients, dissolved oxygen, metals, temperature, and toxicants. The WCS Sediment Tool has been applied to sediment-impaired waters throughout the southeast. Mercury TMDLs were developed in Georgia using a combination of the WCS Mercury Tool and WASP. LSPC has been used in Alabama for pathogen TMDLs; Georgia, Tennessee, Kentucky, and Alabama for nutrient and/or dissolved oxygen TMDLs; and Alabama, West Virginia, and Arizona for metals TMDLs. EFDC has been used widely throughout the country to support TMDL development – Washington, California, Oklahoma, Florida, Mississippi, Alabama, North Carolina, West Virginia, Delaware, Pennsylvania, and Massachusetts. Toolbox model linkages have been successful in a number of situations, most notably for TMDL development in the Neuse Estuary NC, Cape Fear River NC, and Fenholloway River Estuary FL (EFDC and WASP) and TMDL development for Mobile Bay AL, Flint Creek AL, Coosa Lakes AL, Lake Allatoona GA, and Alabama River AL (LSPC, EFDC, and WASP).

Is training available for the Toolbox?

A series of training courses is being designed to instruct users on the application of the Toolbox models, databases, and linkages. This training will consist of regularly scheduled training modules throughout the country, self-paced training available on the web, and specialty conferences. Materials from these training modules will be available at the Toolbox homepage.

Is technical support available for the Toolbox and TMDL development?

Yes, technical support and assistance in TMDL development is available from the Watershed and Water Quality Modeling Technical Support Center. The mission of the Center is to provide technical assistance and support to EPA Regions, State, and Local governments in the



application of the Toolbox and development of TMDLs. The Center which is part of EPA's Office of Research and Development (ORD) is committed to providing access to technically defensible tools and approaches that can be used in the development of TMDLs, waste load allocations and watershed protection plans. Contact information for the Center is given below.

Where can I access the Toolbox and training materials?

A website for distribution of the Toolbox modules is supported by EPA. It includes all models and tools, as well as documentation and installation instructions. The Toolbox Website is <http://www.epa.gov/athens/wwqtsc/index.html>. For additional inquiries and information please contact:

Tim A. Wool
Watershed and Water Quality Modeling
Technical Support Center
U.S. EPA-NERL
960 College Station Road
Athens, GA 30605
(404) 562-9260
Wool.Tim@epa.gov

Appendix L

Ordinances



UNION COUNTY BOARD OF COUNTY COMMISSIONERS

ORDINANCE #-2024

DECEMBER 4, 2024

AN ORDINANCE TO AMEND “THE LAWS OF UNION COUNTY: ADMINISTRATIVE CODE AND POLICIES AND GENERAL LEGISLATION” BY AMENDING, PART I -ADMINISTRATIVE CODE: CHAPTER 1, UNION COUNTY GOVERNMENT STRUCTURE: ARTICLE XVI- DEPARTMENT OF HUMAN SERVICES; ARTICLE XIX- DEPARTMENT OF ENGINEERING, PUBLIC WORKS & FACILITIES MANAGEMENT; ARTICLE XXIV- DEPARTMENT OF ECONOMIC DEVELOPMENT; AND PART II-POLICIES AND GENERAL LEGISLATION: CHAPTER 46, EXCAVATIONS AND CONSTRUCTION PROJECTS; CHAPTER 49, FEES; AND CHAPTER 131, STREETS AND SIDEWALKS.

BE IT ORDAINED. by the Union County Board of County Commissioners that the “Laws of Union County” are hereby amended, including appropriate and necessary changes to the Table of Contents thereof, to be as follows:

Chapter 131, SREETS AND SIDEWALKS

ARTICLE VI, Litter Control

§ 131-22. Purpose: An ordinance to establish requirements to control littering in the County of Union streets parks, rest areas, properties and maintenance facilities to protect the environment, public health, safety and welfare, and to prescribe penalties for failure to comply.

§ 131-23. Definitions: For the purpose of this ordinance, the following terms, phrases, words and their derivations shall have the meanings stated herein unless their use in the text of this Chapter clearly demonstrates a different meaning. When consistent with the context, words used in the present tense include the future, words used in the plural number include the singular number, and words used in the singular number include the plural number. The word "shall" is always mandatory and not merely directory.

A. “Litter” means any used or unconsumed substance or waste material which has been discarded, whether made of aluminum, glass, plastic, rubber, paper, or other natural or synthetic material, or any combination thereof, including, but not limited to, any bottle, jar or can, or any top, cap or detachable tab of any bottle, jar or can, any unlighted cigarette, cigar, match or any flaming or glowing material or any garbage, trash, refuse, debris, rubbish, grass clippings or other lawn or garden waste, newspapers, magazines, glass, metal, plastic or paper containers or other packaging or construction material, but does not include the waste of the primary processes of mining or other extraction processes, logging, sawmilling, farming or manufacturing.

B. “Litter Receptacle” means a container suitable for the depositing of litter.

C. “Person” means any individual, corporation, company, partnership, firm, association, or political subdivision of this State subject to municipal jurisdiction.

§ 131-24. Regulated Activities:

A. It shall be unlawful for any person to throw, drop, discard or otherwise place any litter of any nature upon the public property maintained by the County of Union other than in a litter receptacle.

B. Whenever any litter is thrown or discarded or allowed to fall from a vehicle or boat in violation of this ordinance, the operator or owner, or both, of the motor vehicle or boat shall also be deemed to have violated this ordinance.

§ 131-25. Exemptions: None.

§ 131-26. Enforcement. This ordinance shall be enforced by the County of Union.

§ 131-27. Violations and Penalties. Any person(s) who is found to be in violation of the provisions of this ordinance shall be subject to a fine no less than \$100 and not to exceed \$500.

§ 131-28. Severability. Each section, subsection, sentence, clause and phrase of this Ordinance is declared to be an independent section, subsection, sentence, clause and phrase, and the finding or holding of any such portion of this Ordinance to be unconstitutional, void, or ineffective for any cause, or reason, shall not affect any other portion of this Ordinance.

ARTICLE VII, Pet Waste

§ 131-29. Purpose: An ordinance to establish requirements for the proper disposal of pet solid waste in the County of Union to protect the environment, public health, safety and welfare, and to prescribe penalties for failure to comply.

§ 131-30. Definitions: For the purpose of this ordinance, the following terms, phrases, words, and their derivations, shall have the meanings stated herein unless their use in the text of this Chapter clearly demonstrates a different meaning. When consistent with the context, words used in the present tense include the future, words used in the plural number include the singular number, and words used in the singular number include the plural number. The word “shall” is always mandatory and not merely directory.

A. “Owner/Keeper” means any person who shall possess, maintain, house or harbor any pet or otherwise have custody of any pet, whether or not the owner of such pet.

B. “Person” means any individual, corporation, company, partnership, firm, association, or political subdivision of this State subject to municipal jurisdiction.

C. “Pet” means any domesticated animal kept for companionship.

D. “Pet solid waste” means feces from any domesticated animal.

E. “Proper disposal” means placement in a designated waste receptacle, or other suitable container which is regularly emptied by the municipality or some other refuse collector; or disposal into a system designed to convey domestic sewage for proper treatment and disposal.

§ 131-31. Regulated Activities: All pet owners and keepers are required to immediately and properly dispose of their pet’s solid waste deposited on any property, public or private, not owned or possessed by that person.

§ 131-32. Exemptions: Any owner or keeper who requires the use of a disability assistance animal for disabilities such as vision or hearing loss, or other physical disabilities, shall be exempt from the provisions of this section while such animal is being used for that purpose. This exemption is not applicable to pets that are exclusively emotional support animals.

§ 131-33. Enforcement. This ordinance shall be enforced by the County of Union.

§ 131-34. Violations and Penalties: Any person(s) who is found to be in violation of the provisions of this ordinance shall be subject to a fine not to exceed \$100.00.

§ 131-35. Severability. Each section, subsection, sentence, clause and phrase of this Ordinance is declared to be an independent section, subsection, sentence, clause and phrase, and the finding

or holding of any such portion of this Ordinance to be unconstitutional, void, or ineffective for any cause, or reason, shall not affect any other portion of this Ordinance.

ARTICLE VIII, Wildlife Feeding

§ 131-36. Purpose. An ordinance to prohibit the feeding of unconfined wildlife in any public park or on any other property owned or operated by the County of Union to protect the environment, public health, safety and welfare, and to prescribe penalties for failure to comply.

§ 131-37. Definitions. For the purpose of this ordinance, the following terms, phrases, words and their derivations shall have the meanings stated herein unless their use in the text of this Chapter clearly demonstrates a different meaning. When consistent with the context, words used in the present tense include the future, words used in the plural number include the singular number, and words used in the singular number include the plural number. The word "shall" is always mandatory and not merely directory.

A. "Feed" means to distribute or scatter any edible material with the intention of feeding or attracting wildlife. Feeding does not include baiting in the legal taking of fish and/or game.

B. "Person" means any individual, corporation, company, partnership, firm, association, or political subdivision of this State subject to municipal jurisdiction.

C. "Wildlife" means any undomesticated animal and includes all organisms that live wild in an area.

§ 131-38. Regulated Activities. No person shall feed, in any public park or on any other property owned or operated by the County of Union, any wildlife.

§ 131-39. Exemptions. Exemptions include unconfined wildlife at environmental education centers and feral cats as part of an approved Trap-Neuter-Release program.

§ 131-40. Enforcement. This ordinance shall be enforced by the County of Union. Any person found to be in violation of this ordinance shall be ordered to cease the feeding immediately.

§ 131-41. Violations and Penalties: Any person(s) who is found to be in violation of the provisions of this ordinance shall be subject to a fine not to exceed \$100.00.

§ 131-42. Severability. Each section, subsection, sentence, clause and phrase of this Ordinance is declared to be an independent section, subsection, sentence, clause and phrase, and the finding or holding of any such portion of this Ordinance to be unconstitutional, void, or ineffective for any cause, or reason, shall not affect any other portion of this Ordinance.

AND, BE IT FURTHER ORDAINED, in case any section, subsection, paragraph, subdivision, clause or provision of this ordinance shall be judged invalid by a court of competent jurisdiction, such order or judgment shall not affect or invalidate the remainder of any section, paragraph, subdivision, clause or provision of this ordinance, and to this end, the provisions of each section, paragraph, subdivision, clause or provision of this ordinance are hereby declared to be severable;

AND, BE IT FURTHER ORDAINED, that each section of this ordinance shall take effect at the time and in the manner provided by law, unless otherwise indicated.

Appendix Z
Annual
Submissions

SEE BINDER
LOCATED AT
2325 SOUTH AVENUE,
SCTOCH PLAINS, NEW JERSEY
07076