



Stormwater Pollution Prevention Plan

NJPDES#: NJG0149276

Prepared For

Township of Green Brook
111 Greenbrook Road
Green Brook, NJ 08812

Prepared By

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February 2005
Revised December 21, 2018

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MC Project No. GBT-004



SPPP Table of Contents

Form 1 – SPPP Team Members (permit cite IV F 1).....	3
Form 2 – Revision History (permit cite IV F 1).....	4
Form 3 – Public Involvement and Participation Including Public Notice (permit cite IV B 1).....	5
Form 4 – Public Education and Outreach (permit cite IV B 2 and Attachment B)	6
Form 5 – Post-Construction Stormwater Management in New Development and Redevelopment Program (permit cite IV B 4 and Attachment D)	7
Form 6 – Ordinances (permit cite IV B 5)	9
Form 7 – Street Sweeping (permit cite IV B 5 b).....	10
Form 8 – Catch Basin and Storm Drain Inlets (permit cite IV B 2, IV B 5 b ii, and Attachment C).....	11
Form 9 – Storm Drain Inlet Retrofitting (permit cite IV B 5 b)	12
Form 10 – Municipal Maintenance Yards and Other Ancillary Operations (permit cite IV B 5 c and Attachment E).....	13
Form 11 – Employee Training (permit cite IV B 5 d, e, f)	16
Form 12 – Outfall Pipes (permit cite IV B 6 a, b, c)	18
Form 13 – Stormwater Facilities Maintenance (permit cite IV C 1).....	20
Form 14 – Total Maximum Daily Load Information (permit cite IV C 2).....	21
Form 15 – Optional Measures (permit cite IV E 1 and IV E 2).....	22
Appendix A – Green Brook Township Outfall Inspection Map	
Appendix B – Permit Attachment E: Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations.	

SPPP Form 1 – SPPP Team Members

All records must be available upon request by NJDEP.

Stormwater Program Coordinator (SPC)	
Print/Type Name and Title	C. Richard Roseberry, PE, PP Green Brook Township Engineer
Office Phone # and E-mail	(610) 868-4201 rroseberry@maserconsulting.com
Signature/Date	
Individual(s) Responsible for Major Development Project Stormwater Management Review	
Print/Type Name and Title	C. Richard Roseberry, PE, AICP Green Brook Township Engineer
Print/Type Name and Title	
Other SPPP Team Members	
Print/Type Name and Title	<u>Public Notice Coordinator</u> Kelly G. Cupit – Green Brook Township Clerk/ Administrator Phone # (732) 968-1023 x6601 kcupit@greenbrooktwp.org
Print/Type Name and Title	<u>Post Construction Stormwater Management Coordinator</u> C. Richard Roseberry, PE, AICP - Green Brook Township Engineer Phone # (908) 238-0900
Print/Type Name and Title	<u>Local Public Education Coordinator</u> John Richards – Environmental Commission Chair Phone # (732) 968-1023
Print/Type Name and Title	<u>Ordinance Coordinator</u> William Willard, Esq. – Green Brook Township Attorney Phone # (908) 797-7800
Print/Type Name and Title	<u>Public Works Coordinator</u> David Paltjon – DPW Supervisor Phone # (732) 968-1023
Print/Type Name and Title	<u>Employee Training Coordinator</u> C. Richard Roseberry, PE, AICP - Green Brook Township Engineer Phone # (908) 238-0900
Print/Type Name and Title	<u>Zoning and Code Enforcement</u> C. Richard Roseberry , PE, AICP Phone # (908) 238-0900

SPPP Form 2 – Revision History

All records must be available upon request by NJDEP.

	Revision Date	SPC Initials	SPPP Form Changed	Reason for Revision
1.	12/21/2018	CRR	ALL	Update SPPP per 2018 NJDEP Municipal Stormwater Permit.
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SPPP Form 3 – Public Involvement and Participation Including Public Notice

All records must be available upon request by NJDEP.

1. Website URL where the Stormwater Pollution Prevention Plan (SPPP) is posted online:	http://www.greenbrooktwp.org
2. Date of most current SPPP:	December 21, 2018
3. Website URL where the Municipal Stormwater Management Plan (MSWMP) is posted online:	http://www.greenbrooktwp.org
4. Date of most current MSWMP:	December 21, 2006
5. Physical location and/or website URL where associated municipal records of public notices, meeting dates, minutes, etc. are kept:	Green Brook Township 111 Greenbrook Road Green Brook, NJ 08812
6. Describe how the permittee complies with applicable state and local public notice requirements when providing for public participation in the development and implementation of a MS4 stormwater program:	
<p>For meetings where, public notice is required under the Open Public Meetings Act ("Sunshine Law": N.J.S.A. 10:4-6 et seq.), Green Brook Township will provide public notice in a manner that complies with the requirements of that Act. Also, in regard to the passage of ordinances, Green Brook Township will provide public notice in a manner that complies with the requirements of N.J.S.A. 40:49-1 et seq. In addition, for municipal actions (e.g., adoption of the municipal stormwater management plan) subject to public notice requirements in the Municipal Land Use Law (IV.J.S.A 40:55D-1 et seq.) the Township will comply with those requirements.</p> <p>The official newspapers for Green Brook Township are:</p> <p>The Somerset County Messenger/Gazette The Courier News</p>	

SPPP Form 4 – Public Education and Outreach

All records must be available upon request by NJDEP.

1. Describe how public education and outreach events are advertised. Include specific websites and/or physical locations where materials are available.

Public education and outreach are conducted in coordination with the Township Environmental Commission, coinciding with Earth Day Activities.

Stormwater information is provided annually at the Township's Spring Fishing Derby conducted at Town Hall.

Information on stormwater pollution prevention is posted on the Township stormwater website. Additionally, NJDEP or ANJEC Stormwater brochures are distributed annually to property owners as part of the Township's Spring Newsletter and additional brochures are provided to the school for distribution with the children.

Pet waste information sheets are also distributed with pet licenses.

2. Describe how businesses and the general public within the municipality are educated about the hazards associated with illicit connections and improper disposal of waste.

Information on illicit connections, and improper waste disposal is distributed to businesses and the general public annually, via newsletter.

3. Indicate where public education and outreach records are maintained.

Records of Public Education and Outreach are maintained by the Green Brook Township Clerk/Administrator at the Green Brook Township Municipal Offices:

Green Brook Township
111 Greenbrook Road
Green Brook, NJ 08812

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

All records must be available upon request by NJDEP.

1. How does the municipality define 'major development'?
<i>Major development</i> - means any "development" that provides for ultimately disturbing one or more acres of land. Disturbance for the purpose of this rule is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation.
2. Does the municipality approach residential projects differently than it does for non-residential projects? If so, how?
No. New residential developments are subject to the Residential Site Improvement Standards (RSIS) for stormwater management (including the NJDEP Stormwater Management Rules, NJAC 7:8, referenced in those standards). The Township of Green Brook is in compliance with those standards and has adopted them by way of reference in Section 106 of the Township Zoning Ordinance. The Township's Land Use Board ensure compliance before issuing preliminary or final approvals under the Municipal Land Use Law.
3. What process is in place to ensure that municipal projects meet the Stormwater Control Ordinance?
Municipal projects, though exempt from the MLUL approval process, will be designed in accordance with the State Regulations and Township Ordinances currently in effect with regards to stormwater management. Stormwater management methods and strategies utilized will meet the requirements outlined in the ordinance for the type of project being constructed. If a project includes BMP's to address rate, volume or water quality requirements an operation and maintenance manual will be prepared requiring the continued inspection and maintenance of the feature by the Township Public Works staff. All storm drains constructed for such projects will comply with the ordinance standard for the passage of floatable materials and include the required NJDEP/NJDOT approved bicycle safe grate and curb piece having openings of no greater than 2-inches in the largest dimension.

Also, existing storm drains are retrofit with the correct curb piece and grate in the course of repaving, repair, alteration or resurfacing of Township roads and facilities.

4. Describe the process for reviewing major development project applications for compliance with the Stormwater Control Ordinance (SCO) and Residential Site Improvement Standards (RSIS). Attach a flow chart if available.

Major Development projects are reviewed as part of an application to the Township Land Use Board.

Following a determination of completeness, the Township Engineer's Office reviews the plans, reports and associated documents for conformance with the Township's Zoning and Land Use Ordinances, and the Stormwater Control Ordinance, the RSIS, as well as any other applicable Township ordinance sections.

The design calculations, details and plans are reviewed for compliance with the Stormwater Control Ordinance and the NJDEP Stormwater Management Rules (NJAC 7:8), and to ensure conformance with the latest BMP manual, and guidance provided by the NJDEP and County Soil Conservation District.

Applicants are also required by ordinance to file and record a Stormwater Maintenance Agreement and associated Operations & Maintenance Manual at the Somerset County Clerk's Office to establish the responsibility and obligation of the property owner to adequately maintain and operate their facilities following construction.

5. Does the Municipal Stormwater Management Plan include a mitigation plan?

No.

6. What is the physical location of approved applications for major development projects, Major Development Summary Sheets (permit att. D), and mitigation plans?

These files are maintained by the Land Use Board Administrator at the Green Brook Township Municipal Offices:
111 Greenbrook Road
Green Brook, NJ 08812

SPPP Form 6 – Ordinances

All records must be available upon request by NJDEP.

Ordinance permit cite IV.B.1.b.iii	Date of Adoption	Website URL	Was the DEP model ordinance adopted without change?	Entity responsible for enforcement
1. Pet Waste permit cite IV.B.5.a.i	10/10/05	Township Code	Yes	Police Dept./ Health Officer
2. Wildlife Feeding permit cite IV.B.5.a.ii	10/10/05	Township Code	Yes	Police Dept./ Health Officer
3. Litter Control permit cite IV.B.5.a.iii	2/01/73	Township Code	Yes	Police Dept./ Health Officer
4. Improper Disposal of Waste permit cite IV.B.5.a.iv	02/01/90	Township Code	Yes	Police Dept./ Health Officer
5. Containerized Yard Waste/ Yard Waste Collection Program permit cite IV.B.5.a.v	10/10/05	Township Code	Yes	Police Dept./ Health Officer
6. Private Storm Drain Inlet Retrofitting permit cite IV.B.5.a.vi	8/6/10	Township Code	Yes	Zoning Officer
7. Stormwater Control Ordinance permit cite IV.B.4.g and IV.B.5.a.vii	11/21/05	Land Development Ordinance	Yes	Municipal Engineer
8. Illicit Connection Ordinance permit cite IV.B.5.a.vii and IV.B.6.d	10/10/05	Township Code	Yes	Police Dept./ Health Officer
9. Optional: Refuse Container/ Dumpster Ordinance permit cite IV.E.2	10/10/05	Township Code	Yes	Police Dept./ Health Officer

Indicate the location of records associated with ordinances and related enforcement actions:

All ordinances are available online at the following websites, and at the Municipal Offices:

Township Code: <http://clerkshq.com/default.ashx?clientsite=Greenbrook-nj>

Land Development Ordinance:

http://www.greenbrooktpw.org/readwritedata/file_depot/8fb45927-bd9e-4511-ad22-88e6c9c396dd.rtf

Zoning Ordinance: http://www.greenbrooktpw.org/readwritedata/file_depot/1aa70105-2631-47c7-b3dd-ecdd8f5473d7.rtf

Records of violations and related enforcement actions can be found with each of the above listed entities responsible for enforcement.

SPPP Form 7 – Street Sweeping

All records must be available upon request by NJDEP.

1. Provide a written description or attach a map indicating which streets are swept as required by the NJPDES permit. Describe the sweeping schedule and indicate if any of the streets are swept by another entity through a shared service arrangement.

The Township does not sweep streets as none are required to be swept as a condition of the permit.

2. Provide a written description or attach a map indicating which streets are swept that are NOT required to be swept by the NJPDES permit. Describe the sweeping schedule and indicate if any of the streets are swept by another entity through a shared service arrangement.

The Township does not sweep streets as none are required to be swept as a condition of the permit.

3. Does the municipality provide street sweeping services for other municipalities? If so, please describe the arrangements.

No. Green Brook Township does not provide street sweeping for any other municipalities.

4. Indicate the location of records, including sweeping dates, areas swept, number of miles swept and total amount of wet tons collected each month. Note which records correspond to sweeping activities beyond what is required by the NJPDES permit, i.e., sweepings of streets within the municipality that are not required by permit to be swept or sweepings of streets outside of the municipality.

No street sweeping is performed by the Township of Green Brook.

SPPP Form 8 – Catch Basins and Storm Drain Inlets

All records must be available upon request by NJDEP.

1. Describe the schedule for catch basin and storm drain inlet inspection, cleaning, and maintenance.
<p>The Township of Green Brook implemented an ongoing annual catch basin cleaning program to maintain catch basin function and efficiency. All catch basins are inspected once per year and cleaned if necessary.</p> <p>Those catch basins that are found to be in disrepair, or filled with sediment, trash, or debris are scheduled for maintenance to ensure continued service.</p> <p>Maintenance is typically performed during the summer months.</p>
2. List the locations of catch basins and storm drain inlets with recurring problems, i.e., flooding, accumulated debris, etc.
Storm Drain Inlet at the dead-end of Kafka Drive
3. Describe what measures are taken to address issues for catch basins and storm drain inlets with recurring problems and how they are prioritized.
Trash rack has been installed. Quarterly inspections and cleaning as needed
4. Describe the inspection schedule and maintenance plan for storm drain inlet labels on storm drains that do not have permanent wording cast into the design.
Inlet labels are inspected annually during the catch basin cleaning program. Labels are checked by the Township for legibility and visibility. Those that are not legible, or visible are replaced.
5. Indicate the location of records of catch basin and storm drain inlet inspections and the wet tons of materials collected during catch basin and storm drain inlet cleanings.
All records of catch basin inspection and cleaning are maintained by the DPW supervisor at the DPW offices at: Department of Public Works 111 Rock Avenue Green Brook, NJ 08812

SPPP Form 9 – Storm Drain Inlet Retrofitting

All records must be available upon request by NJDEP.

<p>1. Describe the procedure for ensuring that municipally owned storm drain inlets are retrofitted.</p>
<p>As a policy, and as required by the permit, storm drains on municipally owned roads, or facilities are replaced to meet the design standards for floatable materials when they are in direct contact with repaving, repair, reconstruction or resurfacing.</p>
<p>2. Describe the inspection process to verify that appropriate retrofits are completed on municipally owned storm drain inlets.</p>
<p>Township DPW staff, or the Township selected contractor are responsible for implementing the replacements in the course of the work as defined above.</p> <p>In the case of a contractor completing the work, the Township Engineer, or a designee will approve the required grate and curb piece replacements prior to installation, and a Township Inspector will observe the work as it is being completed to ensure it is constructed per the approved plans.</p>
<p>3. Describe the procedure for ensuring that privately owned storm drain inlets are retrofitted.</p>
<p>In the event of an application to the Township for development, or redevelopment of a property, or an application for repaving of a privately-owned facility, the owner is made aware prior to the issuance of a permit that the storm drain inlets are to be retrofit per the Township ordinance and to comply with the NJDEP/NJDOT approved inlet grates and curb pieces.</p>
<p>4. Describe the inspection process to verify that appropriate retrofits are completed on privately owned storm drain inlets.</p>
<p>The Township Engineer, or a designee will approve the required grate and curb piece replacements prior to ordering by the private property owner. The Zoning Officer, or his designee, confirms the work is completed per permit.</p>

SPPP Form 10 – Municipal Maintenance Yards and Other Ancillary Operations

All records must be available upon request by NJDEP.

Complete separate forms for each municipal yard or ancillary operation location.

Address of municipal yard or ancillary operation:
Department of Public Works
111 Rock Avenue
Green Brook, NJ 08812

List all materials and machinery located at this location that are exposed to stormwater which could be a source of pollutant in a stormwater discharge:

Raw materials – None

Intermediate products – None

Final products – None

Waste materials – None

By-products – None

Machinery – 2 Leaf Vacuums, Trailer, other municipal equipment

Fuel – None

Lubricants – None

Solvents – None

Detergents related to municipal maintenance yard or ancillary operations – None

Other – Vegetative Waste (Tree limbs, compost)

For each category below, describe the best management practices in place to ensure compliance with all requirements in permit Attachment E. If the activity in the category is not applicable for this location indicate where it occurs.

Indicate the location of inspection logs and tracking forms associated with this municipal yard or ancillary operation, including documentation of conditions requiring attention and remedial actions that have been taken or have been planned.

1. Fueling Operations

The Township does not own fueling facilities

2. Vehicle Maintenance

The Township only performs routing maintenance such as oil changes, which are Performed within the building. Tracking Form kept on file at the DPW garage.

3. On-Site Equipment and Vehicle Washing

See permit attachment E for certification and log forms for Underground Storage Tanks.

The Township does not wash vehicles. Rinsing is performed as needed. If washing is necessary, then the Township utilizes Somerset County's vehicle wash facility.

4. Discharge of Stormwater from Secondary Containment

Not Applicable

5. Salt and De-Icing Material Storage and Handling

The township has an enclosed facility for salt and material storage
Inspection form kept on file at the Township's DPW facility

6. Aggregate Material and Construction Debris Storage

<p>No aggregate or construction debris storage is kept on site.</p>
<p>7. Street Sweepings, Catch Basin Clean Out and Other Material Storage</p>
<p>No catch basin cleanout or other regulated material storage is kept on site.</p>
<p>8. Yard Trimmings and Wood Waste Management Sites</p>
<p>Small amounts of wood chips, mulch, and compost are kept on site for residents use. During Fall, leaves will be temporarily stored on site pending loading into containers for disposal. All storage is kept away from inlets and storm drains. Any material that is washed, gets collected in the sites detention basin and removed. Inspection Logs are kept on file at the township's DPW facility.</p>
<p>9. Roadside Vegetation Management</p>
<p>The Township does not utilize pesticides or herbicides for vegetation management.</p>

SPPP Form 11 – Employee Training

All records must be available upon request by NJDEP.

<p>A. Municipal Employee Training: Stormwater Program Coordinator (SPC) must ensure appropriate staff receive training on topics in the chart below as required due to job duties assigned within three months of commencement of duties and again on the frequency below. Indicate the location of associated training sign in sheets, dates, and agendas or description for each topic.</p>		
Topic	Frequency	Title of trainer or office to conduct training
1. Maintenance Yard Operations (including Ancillary Operations)	Every year	Township Engineer
2. Stormwater Facility Maintenance	Every year	Township Engineer
3. SPPP Training & Recordkeeping	Every year	Township Engineer
4. Yard Waste Collection Program	Every 2 years	Township Engineer
5. Street Sweeping	Every 2 years	Township Engineer
6. Illicit Connection Elimination and Outfall Pipe Mapping	Every 2 years	Township Engineer
7. Outfall Pipe Stream Scouring Detection and Control	Every 2 years	Township Engineer
8. Waste Disposal Education	Every 2 years	Township Engineer
9. Municipal Ordinances	Every 2 years	Township Engineer
10. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment	Every 2 years	Township Engineer
<p>B. Municipal Board and Governing Body Members Training: Required for individuals who review and approve applications for development and redevelopment projects in the municipality. This includes members of the planning and zoning boards, Township council, and anyone else who votes on such projects. Training is in the form of online videos, posted at www.nj.gov/dep/stormwater/training.htm.</p> <p>Within 6 months of commencing duties, watch <i>Asking the Right Questions in Stormwater Review Training Tool</i>. Once per term thereafter, watch at least one of the online DEP videos in the series available under Post-Construction Stormwater Management. Indicate the location of records documenting the names, video titles, and dates completed for each board and governing body member.</p> <p><i>Training records are kept on file with the Township Clerk</i></p>		

C. **Stormwater Management Design Reviewer Training:** All design engineers, municipal engineers, and others who review the stormwater management design for development and redevelopment projects on behalf of the municipality must attend the first available class upon assignment as a reviewer and every five years thereafter. The course is a free, two-day training conducted by DEP staff. Training dates and locations are posted at www.nj.gov/dep/stormwater/training.htm. Indicate the location of the DEP certificate of completion for each reviewer.

These records are kept on file by each of the respective reviewers.

SPPP Form 12 – Outfall Pipes

All records must be available upon request by NJDEP.

1. **Mapping:** Attach an image or provide a link to the most current outfall pipe map. Maps shall be updated at the end of each calendar year.

Note that ALL maps must be electronic by 21 Dec 2020 via the DEP's designated electronic submission service. For details, see http://www.nj.gov/dep/dwq/msrp_map_aid.htm.

See attached outfall map.

2. **Inspections:** Describe the outfall pipe inspection schedule and indicate the location of records of dates, locations, and findings.

All outfall locations are inspected annually by the Green Brook Township DPW.

Records are maintained at the Township DPW offices at:

Department of Public Works
111 Rock Avenue
Green Brook, NJ 08812

3. **Stream Scouring:** Describe the program in place to detect, investigate and control localized stream scouring from stormwater outfall pipes. Indicate the location of records related to cases of localized stream scouring. Such records must include the contributing source(s) of stormwater, recommended corrective action, and a prioritized list and schedule to remediate scouring cases.

In the course of the annual outfall inspections, all outfall locations are inspected for signs of scouring. All sites which are identified locations of scour will be placed on a prioritized repair list, and repairs will be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey.

The township previously prepared a scour erosion protection plan that was implemented and all outfalls on the plan were repaired.

If necessary, NJDEP permits would be obtained prior to the work being performed, and those locations which do not require permits will be completed first.

4. **Illicit Discharges:** Describe the program in place for conducting visual dry weather inspections of municipally owned or operated outfall pipes. Record cases of illicit discharges using the DEP's Illicit Connection Inspection Report Form (www.nj.gov/dep/dwq/tier_a_forms.htm) and indicate the location of these forms and related illicit discharge records.

Note that Illicit Connection Inspection Report Forms shall be included in the SPPP and submitted to DEP with the annual report.

Illicit discharge inspections of municipally owned outfalls are performed annually as part of the Township's outfall inspection program.

The NJDEP Outfall inspection forms are utilized in the inspections to record cases of illicit discharges, and these forms are kept on file with our SPPP records at the Township DPW offices at:

Department of Public Works
111 Rock Avenue
Green Brook, NJ 08812

Outfall pipes with dry weather flow are sampled in order to determine whether there is an illicit connection. If an illicit connection is detected within the Township the responsible party is cited for being in violation of the Illicit Connection Ordinance and will be required to immediately cease the discharge.

If we are unable to determine the source of the illicit connection, we will submit the Closeout Investigation Form with our Annual Inspection and Recertification. If the discharge is found to originate from another public entity, then the Township will report the connection to the Department.

SPPP Form 13 – Stormwater Facilities Maintenance

All records must be available upon request by NJDEP.

1. Detail the program in place for the long-term cleaning, operation and maintenance of each stormwater facility owned or operated by the municipality.

The Township of Green Brook operates a stormwater management facility maintenance program to ensure that all stormwater facilities operated by the Township function properly. The Township of Green Brook operates the following:

- catch basins
- storm drains
- detention basins
- swales

These stormwater facilities are inspected annually to ensure that they are functioning properly. In high risk areas, preventative maintenance is performed to ensure that the facilities do not begin to deteriorate.

2. Detail the program in place for ensuring the long-term cleaning, operation and maintenance of each stormwater facility NOT owned or operated by the municipality.

In accordance with the current Municipal Stormwater Permit, property owners are required to maintain logs for privately owned stormwater facilities, indicating the dates, tasks, and required maintenance which has been completed on their facility.

3. Indicate the location(s) of the Stormwater Facilities Inspection and Maintenance Logs listing the type of stormwater facilities inspected, location information, inspection dates, inspector name(s), findings, preventative and corrective maintenance performed.

Maintenance Records are maintained at the Township Engineering offices at:

111 Greenbrook Road
Green Brook, NJ 08812

Note that maintenance activities must be reported in the annual report and records must be available upon request. DEP maintenance log templates are available at http://www.nj.gov/dep/stormwater/maintenance_guidance.htm (select specific logs from choices listed in the Field Manuals section).

Additional Resources: The NJ Hydrologic Modeling Database contains information and maps of stormwater management basins. To view the database map, see <https://hydro.rutgers.edu>. To download data in an Excel format, see https://hydro.rutgers.edu/public_data/.

SPPP Form 14 – Total Maximum Daily Load Information

All records must be available upon request by NJDEP.

1. Using the Total Maximum Daily Load (TMDL) reports provided on www.nj.gov/dep/dwq/msrp-tmdl-rh.htm, list adopted TMDLs for the municipality, parameters addressed, and the affected water bodies that impact the municipality's MS4 program.

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 : Raritan R downstream of Green Bk/Bound Bk, includes Cuckels Bk, Dukes Bk, Middle 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 (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 Brook (below Bound 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 : Middle Brook EB : [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 : Stony Brook (North Plainfield) : [View the TMDL Document](#)

2. Describe how the permittee uses TMDL information to prioritize stormwater facilities maintenance projects and to address specific sources of stormwater pollutants.

The TMDLs above include elevated levels of fecal coliform and total suspended solids in waterways as causes of impairments in Green Brook Township. In order to address these concerns, continued monitoring of Township owned outfalls is required to ensure that illicit connections are not contributing to elevated levels of bacteria in the water.

Continued enforcement and education on pet waste, and wildlife feeding/mitigation strategies would also be effective in addressing these concerns. Finally, maintenance of Township owned sanitary sewers and conveyance facilities will mitigate the potential for groundwater and surface water contamination by fecal coliform from leaking sewer lines.

Addressing Total Suspended Solids in runoff requires a greater effort on a cumulative approach to improving water quality and promoting pollution prevention these include the following measures:

Source control by enforcement of the ordinances currently enacted within the Township including littering/waste, illicit connections and storm drain retrofits.

Additionally, as private property owners and developers seek approvals for developments the Township LUB and Environmental commission should encourage the use of NJDEP BMP Manual measures, Non-Structural Strategies, and vegetated conveyances to address stormwater water quality which would directly impact the TSS in waterways

SPPP Form 15 – Optional Measures

All records must be available upon request by NJDEP.

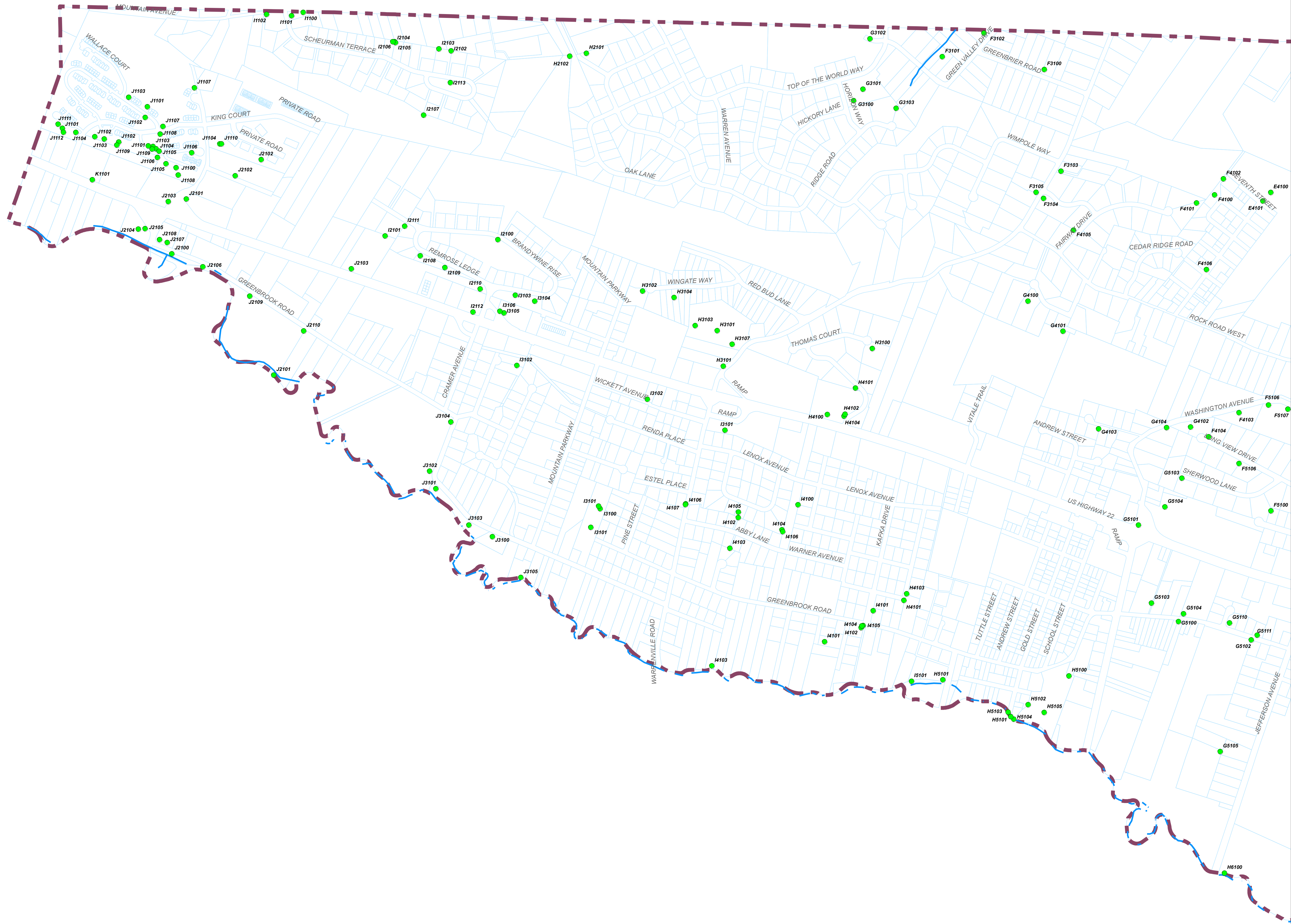
1. Describe any Best Management Practice(s) the permittee has developed that extend beyond the requirements of the Tier A MS4 NJPDES permit that prevents or reduces water pollution.

The Township has a policy of trash removal from the Green Brook that accumulates behind fallen trees. The Township will obtain permission from the adjacent resident and remove the obstruction and collect and dispose of the trash. The amount of trash removed with this policy exceeds the amount of trash removed from catch basins on a yearly basis.

2. Has the permittee adopted a Refuse Container/Dumpster Ordinance?

Yes.

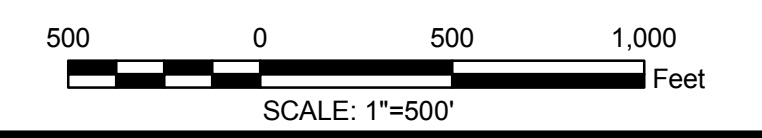
Appendix A – Green Brook Township Outfall Inspection Map



Legend
 ● OUTFALLS
 — STREAMS

OUTFALL INSPECTION MAP
 GREEN BROOK, NEW JERSEY
 SOMERSET COUNTY NEW JERSEY

SHEET 1 OF 2





Appendix B – Permit Attachment E:
Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations

Attachment E – Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations

The Tier A Municipality shall implement the following practices at municipal maintenance yards and other ancillary operations owned or operated by the municipality. Inventory of Materials and Machinery, and Inspections and Good Housekeeping shall be conducted at all municipal maintenance yards and other ancillary operations. All other Best Management Practices shall be conducted whenever activities described below occur. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites.

Inventory of Materials and Machinery

The SPPP shall include a list of all materials and machinery located at municipal maintenance yards and ancillary operations which could be a source of pollutants in a stormwater discharge. The materials in question include, but are not limited to: raw materials; intermediate products; final products; waste materials; by-products; machinery and fuels; and lubricants, solvents, and detergents that are related to the municipal maintenance yard operations and ancillary operations. Materials or machinery that are not exposed to stormwater at the municipal maintenance yard or related to its operations do not need to be included.

Inspections and Good Housekeeping

1. Inspect the entire site, including the site periphery, monthly (under both dry and wet conditions, when possible). Identify conditions that would contribute to stormwater contamination, illicit discharges or negative impacts to the Tier A Municipality's MS4. Maintain an inspection log detailing conditions requiring attention and remedial actions taken for all activities occurring at Municipal Maintenance Yards and Other Ancillary Operations. This log must contain, at a minimum, a record of inspections of all operations listed in Part IV.B.5.c. of this permit including dates and times of the inspections, and the name of the person conducting the inspection and relevant findings. This log must be kept on-site with the SPPP and made available to the Department upon request. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for additional information.
2. Conduct cleanups of spills of liquids or dry materials immediately after discovery. All spills shall be cleaned using dry cleaning methods only. Clean up spills with a dry, absorbent material (i.e., kitty litter, sawdust, etc.) and sweep the rest of the area. Dispose of collected waste properly. Store clean-up materials, spill kits and drip pans near all liquid transfer areas, protected from rainfall.
3. Properly label all containers. Labels shall be legible, clean and visible. Keep containers in good condition, protected from damage and spillage, and tightly closed when not in use. When practical, store containers indoors. If indoor storage is not practical, containers may be stored outside if 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. Outdoor storage locations shall be regularly maintained.

Not Applicable

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 bermed 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 all of the following:
 - “Topping off of 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.

Not Applicable 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 at all times except as described below. A municipality 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 come 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 municipality shall rely on previous tank inspections to determine with some degree of certainty that the tank has not leaked. If the municipality cannot make a determination 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. 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 at all times. 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

Not Applicable

1. Manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to storm sewer inlets or to waters of the State.
2. Tier A Municipalities 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 cathodically protected containment system, provide a passing cathodic protection survey every three years.
 - c. Operate containment structures to prevent overfilling resulting from normal or abnormal operations, overfilling, 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 should 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.

Not Applicable **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. Where possible the open side of storage bays shall be situated on the upslope. 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/rtrtp/asphaltguidance.pdf) or properly disposed of as solid waste pursuant to N.J.A.C. 7:26-1 et seq.
4. 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

Not Applicable

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 cover materials such as liquids, wastes which are removed from municipal 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/rtrtp/sweeping.htm).
3. Road cleanup materials placed into storage must be, at a minimum:
 - a. Stored in leak-proof containers or on an impervious surface that is contained (e.g. bermed) to control leachate and litter; 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 Tier A Municipality;
 - 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; and
 - b. Minimizes or eliminates the exposure of yard trimmings, wood waste and related materials to stormwater.
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 municipal 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. bermed) 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.

Not Applicable

Roadside Vegetation Management

1. Tier A Municipalities shall restrict the application of herbicides along roadsides in order to prevent it from being washed by stormwater into the waters of the State and to prevent erosion caused by de-vegetation, as follows: Tier A Municipalities shall not apply herbicides on or adjacent to storm drain inlets, on steeply sloping ground, along curb lines, and along unobstructed shoulders. Tier A Municipalities shall only apply herbicides within a 2 foot radius around structures where overgrowth presents a safety hazard and where it is unsafe to mow.