GREENWICH TOWNSHIP

STORMWATER POLLUTION PREVENTION PLAN

GREENWICH TOWNSHIP, WARREN COUNTY, NEW JERSEY

Adopted JUNE, 2005

Revised NOVEMBER, 2005

Revised JANUARY, 2022

Prepared by:

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SPPP Table of Contents

Form 1 – SPPP Team Members (permit cite IV F 1)

Form 2 – Revision History (permit cite IV F 1)

Form 3 – Public Involvement and Participation Including Public Notice (permit cite IV B 1)

Form 4 – Public Education and Outreach (permit cite IV B 2 and Attachment B)

Form 5 – Post-Construction Stormwater Management in New Development and Redevelopment Program (permit cite IV B 4 and Attachment D)

Form 6 – Ordinances (permit cite IV B 5)

Form 7 – Street Sweeping (permit cite IV B 5 b)

Form 8 – Catch Basin and Storm Drain Inlets (permit cite IV B 2, IV B 5 b ii, and Attachment C)

Form 9 – Storm Drain Inlet Retrofitting (permit cite IV B 5 b)

Form 10 – Municipal Maintenance Yards and Other Ancillary Operations (permit cite IV B 5 c and Attachment E)

Form 11 – Employee Training (permit cite IV B 5 d, e, f)

Form 12 – Outfall Pipes (permit cite IV B 6 a, b, c)

Form 13 – Stormwater Facilities Maintenance (permit cite IV C 1)

Form 14 – Total Maximum Daily Load Information (permit cite IV C 2)

Form 15 – Optional Measures (permit cite IV E 1 and IV E 2)

APPENDIX

A. BMP Inventory Log
B. BMP Inspection Log
C. BMP Maintenance Log
D. Major Development Stormwater Summary
E. Outfall Map
F. Outfall Inspection Log
G. Stream Scour Log
H. Illicit Connection Log
I. Catch Basin Inspection & Maintenance Log
J. Street Sweeping Log
K. Maintenance Yard Inspection Log
L. Employee Training Log

SPPP Form 1 – SPPP Team Members

All records must be available upon request by NJDEP.

Stormwater Program Coordinator (SPC)	
Print/Type Name and Title	**Michael S. Finelli, P.E.**
Office Phone # and email	**908.835.9500** **mikef@finellicon.com**
Signature/Date	
Individual(s) Responsible for Major Development Project Stormwater Management Review	
Print/Type Name and Title	**Michael S. Finelli, P.E.** **Township Engineer**
Print/Type Name and Title	**Eugene N. Weber, P.E.** **Review Engineer**
Print/Type Name and Title	**Joseph Modzelewski, P.E.** **Review Engineer**
Print/Type Name and Title	**Fritz LaRoche** **Review Engineer**
Print/Type Name and Title	
Other SPPP Team Members	
Print/Type Name and Title	**Lisa Burd Reindel, RMC** **Township Clerk**
Print/Type Name and Title	**Joseph Mecsey** **Public Works Director**
Print/Type Name and Title	
Print/Type Name and Title	

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.	**June 2009**	**MSF**	**All**	**Update per 2009 Tier A Permit**
2.	**June 2016**	**MSF**		**Update forms per NJDEP**
3.	**Oct. 2018**	**MSF**		**Update per 2018 Tier A Permit**
4.	**Jan. 2022**	**MSF**	**All**	**Update using new NJDEP SPPP format**
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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:	**greenwichtownship.org**
2. Date of most current SPPP:	**December 2021**
3. Website URL where the Municipal Stormwater Management Plan (MSWMP) is posted online:	**greenwichtownship.org**
4. Date of most current MSWMP:	**January 2022**
5. Physical location and/or website URL where associated municipal records of public notices, meeting dates, minutes, etc. are kept:	**Township Clerk's Office**

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:

For meetings where public notice is required under the Open Public Meetings Act ("Sunshine Law," N. J. S. A. 10:4-6 et seq.), Greenwich Township provides public notice in a manner that complies with the requirements of that Act.

For passage of ordinances Greenwich Township provides public notice in a manner that complies with the requirements of N. J. S. A. 40:49-1 et seq.

For adoption of Master Plan and Stormwater Management Plans the Township provides public notice as required in the Municipal Land Use Law (N. J. S. A. 40:55D-1 et seq.).

The Township's SPPP Plan and SWM Plan is posted on the Township's website for public access along with all stormwater related ordinances.

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.
Events are advertised via a cooperative effort by Greenwich Township and the Musconetcong Watershed Association. Information can be found on the Township's website at greenwichtownship.org or the MWA website at musconetcong.org.
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.
Greenwich Township has partnered with the Musconetcong Watershed Association to educate the public and businesses on the importance of stormwater management measures and the hazards of improper waste disposal.
3. Indicate where public education and outreach records are maintained.
Township Clerk's Office

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'?
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 one-quarter acre or more of "regulated motor vehicle surface" since March 2, 2021.** **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.** **Major development includes all developments that are part of a common plan of development or sale (for example, phased residential development) that collectively or individually meet any one or more of paragraphs 1, 2, 3, or 4 above. Projects undertaken by any government agency that otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq., are also considered "major development."**
2. Does the municipality approach residential projects differently than it does for non-residential projects? If so, how?
No.
3. What process is in place to ensure that municipal projects meet the Stormwater Control Ordinance?
Municipal projects which constitute a "major development" are designed by the Township Engineer to comply with the most current Stormwater Management Ordinance adopted by the Township. The Township Engineer is required to attend NJDEP's Stormwater Management Design Review Course every five (5) years.

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.

Residential and non-residential major development projects are reviewed for compliance with stormwater management requirements in the Residential Site Improvement Standards (RSIS) and Chapter 27 Stormwater Control of the Greenwich Code, as adopted pursuant to NJDEP rules at N.J.A.C. 7:8 Stormwater Management.

Upon receipt of a development application the Land Use Board Engineer and his staff review the application for compliance with stormwater management standards in the RSIS and Chapter 27 Stormwater Control as applicable. The LU Board Engineer is also the Township Engineer who has received the required training for conducting SWM reviews.

Stormwater BMP's, calculations and soil testing are reviewed for compliance with the green infrastructure standards and compliance with the NJDEP BMP Manual. Mitigation measures are required of a developer if the LU Board grants waivers from any of the standards within the ordinance.

Proposed catch basins are reviewed for compliance with the requirements for control of the passage of solids and floatable materials per Attachment C of the Township's Tier A Permit.

BMP Operation & Maintenance Plans for development BMP's are reviewed by the LU Board Engineer prior to their recording in the County Clerk's Office. For BMP's which are privately owned the LU Board requires both the development plan and the recorded O & M Plan to contain language requiring the owner to properly operate and maintain the facilities and to allow for on-going Township inspections.

Major Development Summary Forms are required for all BMP's. They are reviewed by the LU Board Engineer and filed in the Townships SPPP Plan. The BMP's are added to the Township's BMP Inspection and Maintenance Logs to ensure routine inspections are made and maintenance is undertake by either the private owner or Township DPW, as applicable.

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

Yes.

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

The Land Use Board Secretary retains all applications, plans, calculations, SWM forms, mitigation plans (if applicable) for major development projects.

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	**2.16.06**	**ecode360.com/31919328 Ch. 5-18**	**Yes**	**Police Mun. Officials**
2. Wildlife Feeding Permit cite IV.B5.a.ii	**2.16.06**	**ecode360.com/31919341 Ch. 5-19**	**Yes**	**Police Mun. Officials**
3. Litter Control Permit cite V.B5.a.iii	**2.16.06**	**ecode360.com/31918987 Ch. 3-10**	**Yes**	**Police Mun. Officials**
4. Improper Disposal of Waste Permit citeIV.B.5.a.iv	**2.16.06**	**ecode360.com/31932872 Ch. 25-3**	**Yes**	**Police Mun. Officials**
5. Containerized Yard Waste/ Yard Waste Collection Program Permit cite V.B.5.a.v	**2.16.06**	**ecode360.com/31918954 Ch. 3-8A**	**Yes**	**Police Mun. Officials**
6. Private Storm Drain Inlet Retrofitting Permit cite V.B.5.a.vi	**5.19.11**	**ecode360.com/32713638 Ch. 25-4**	**Yes**	**Police Mun. Officials**
7. Stormwater Control Ordinance Permit cite IV.B.4.g and IV.B.5.a.vii	**4.15.21**	**ecode360.com/3191 Ch. 27**	**No**	**Township Engineer**
8. Illicit Connection Ordinance Permit cite IV.B.5.a.vii and IV.B.6.d	**2.16.06**	**ecode360.com/31932857 Ch. 25-2**	**Yes**	**Police Mun. Officials**
9. Optional: Refuse Container/ Dumpster Ordinance Permit cite IV.E.2	**5.19.11**	**ecode360.com/32712235 Ch. 3-13**	**Yes**	**Police Mun. Officials**

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

Police Department files or Township Clerk files.

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 Tier A permit requirements for street sweeping are municipal streets which have curbing and storm drains, have a posted speed limit of 35 miles per hour or less and are located within a predominantly commercial area. Dumont Road meets the criteria and is swept at least once per month.
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.
A map has been attached which shows additional streets which are swept semi-annually.
3. Does the municipality provide street sweeping services for other municipalities? If so, please describe the arrangements.
No.
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.
Street sweeping records are maintained in the office of the DPW Director.

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.
Catch basins are inspected by the DPW at least once every five (5) years as required by the Tier A Permit. Cleaning and/or maintenance is scheduled as necessary based upon the inspections.
2. List the locations of catch basins and storm drain inlets with recurring problems, i.e., flooding, accumulated debris, etc.
There are no catch basins which we would characterize as having recurring problems.
3. Describe what measures are taken to address issues for catch basins and storm drain inlets with recurring problems and how they are prioritized.
Any catch basins found to have problems based upon inspection are cleaned or repaired as soon as practicable by the DPW.
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.
Storm inlet labels are inspected by the DPW at least once every five (5) years. Labels are replaced as necessary.
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.
Catch basin inspection, cleaning & maintenance records are maintained by the DPW on the Catch Basin Inspection and Maintenance Log which is included within this SPPP.

SPPP Form 9 – Storm Drain Inlet Retrofitting

All records must be available upon request by NJDEP.

1. Describe the procedure for ensuring that municipally owned storm drain inlets are retrofitted.
Municipal roadway improvement projects involving streets having existing inlets are designed and reviewed by the Township Engineer. Inlets which 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 facilities will be retrofitted to meet Attachment C standards within the Tier A Permit.
2. Describe the inspection process to verify that appropriate retrofits are completed on municipally owned storm drain inlets.
Improvements to municipally owned streets are inspected by the Township Engineer's inspection staff to verify compliance with all plan requirements.
3. Describe the procedure for ensuring that privately owned storm drain inlets are retrofitted.
Private development projects along existing streets are reviewed by the Land Use Board and LU Board Engineer. Any inlets which 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 facilities are required to be retrofitted to meet Attachment C standards within the Tier A Permit.
4. Describe the inspection process to verify that appropriate retrofits are completed on privately owned storm drain inlets.
Improvements to streets having existing inlets which are part of a privately owned development are inspected by the Township Engineer's inspection staff to verify compliance with all plan requirements.

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:

Greenwich Street DPW – 321 Greenwich Street, Stewartsville, NJ. 08886

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: **To be completed by DPW**

Raw materials –

Intermediate products –

Final products –

Waste materials –

By-products –

Machinery –

Fuel –

Lubricants –

Solvents –

Detergents related to municipal maintenance yard or ancillary operations –

Other –

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

Fueling areas and fuel storage tanks shall be inspected on a weekly basis.

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 overfill.

Drip pans shall be available during bulk fueling operations.

Signs shall be posted as follows: (1) Topping off of vehicles, mobile fuel tanks and storage tanks is prohibited, (2) Stay in view of fueling nozzle during dispensing, and (3) Contact information for the person(s) responsible for spill response.

2. Vehicle Maintenance

Ensure vehicles are properly maintained to prevent the leakage of fluids. Vehicle maintenance shall be conducted at six (6) month intervals or as recommended by the manufacturer.

Vehicle maintenance shall be conducted indoors with drip pans available to collect contaminants.

Check for fluid leaks in areas where vehicles are garaged or parked. Immediately identify and repair any fluid leaks which are discovered.

3. On-Site Equipment and Vehicle Washing

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

Greenwich Township does not wash vehicles on this site.

4. Discharge of Stormwater from Secondary Containment

There are no secondary containment areas on this site.

5. Salt and De-Icing Material Storage and Handling
De-icing material is stored within an existing four (4) sided building on the site with an impervious floor. No de-icing materials or sand is stored outside. **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.** **Minimize the tracking of materials during loading and unloading operations. Sweep loading areas as necessary.**
6. Aggregate Material and Construction Debris Storage
Store materials such as sand, gravel, stone, topsoil, road millings, waste concrete, asphalt, brick, blocks, etc. to minimize stormwater runoff via surface grading or berms. **Sand, topsoil, road millings and processed aggregate may only be stored outside and uncovered if protected by a berm and a 50-foot setback is maintained from surface water bodies or inlets.** **Road millings are managed in conformance with the NJDEP "Recycled Asphalt Pavement and Asphalt Millings (RAP) Reuse Guidance" or properly disposed of as solid waste pursuant to N.J.A.C. 7:26-1.**
7. Street Sweepings, Catch Basin Clean Out and Other Material Storage
Road cleanup materials stored on-site must be stored in leak-proof containers or on an impervious surface that is contained (e.g. bermed) to control leachate and litter and be removed for disposal within six (6) months of placement into storage. **Road cleanup materials must be ultimately disposed of in accordance with N.J.A.C. 7:26-1.1. See the NJDEP "Guidance Document for the Management of Street Sweepings and Other Road Cleanup Materials".**
8. Yard Trimmings and Wood Waste Management Sites
Greenwich Township does not own or operate any yard waste or wood waste management sites.
9. Roadside Vegetation Management
Do not apply herbicides on or adjacent to storm drain inlets, on steeply sloping ground, along curb lines, and along unobstructed shoulders. **Herbicides shall only be applied within a 2 foot radius around drainage structures where overgrowth presents a safety hazard and where it is unsafe to mow.**

SPPP Form 11 – Employee Training

All records must be available upon request by NJDEP.

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.

Topic	Frequency	Title of trainer or office to conduct training
1. Maintenance Yard Operations (including Ancillary Operations)	Every year	**DPW**
2. Stormwater Facility Maintenance	Every year	**DPW**
3. SPPP Training & Recordkeeping	Every year	**Twp. Engineer**
4. Yard Waste Collection Program	Every 2 years	**DPW**
5. Street Sweeping	Every 2 years	**DPW**
6. Illicit Connection Elimination and Outfall Pipe Mapping	Every 2 years	**DPW**
7. Outfall Pipe Stream Scouring Detection and Control	Every 2 years	**DPW**
8. Waste Disposal Education	Every 2 years	**DPW**
9. Municipal Ordinances	Every 2 years	**Twp. Clerk**
10. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment	Every 2 years	**Twp. Engineer**

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, town 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.

Within 6 months of commencing duties, watch *Asking the Right Questions in Stormwater Review Training Tool*. 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.

Records of training are maintained by the Township Clerk.

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.

Records of training are maintained in the Township Engineer's office.

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.

   A copy of the outfall map is included within this SPPP.

   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.

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

   Outfall pipes are inspected once per year by the DPW. Inspection records are maintained by the DPW on Outfall Inspection Log forms which are included within this SPPP.

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.

   Potential scour at outfall pipes is inspected once per year. Inspection records are maintained by the DPW on Stream Scour Log forms which are included within this SPPP.

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.

Inspections of outfall pipes are conducted once per year during dry periods to detect illicit connections. Any illicit discharges are reported on Illicit Connection Log Forms which are also included in this SPPP.

Any suspected illicit discharge is reported to the Stormwater Program Coordinator for further investigation.

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.
Each township owned stormwater BMP shall be inspected annually by the DPW. **Inspectors shall utilize the NJDEP Field Manual checklists as provided at www.nj.gov/dep/stormwater/maintenance_guidance.htm for the type of BMP.** **Required maintenance shall be scheduled as soon as practicable. Inspection and maintenance logs shall be maintained by the DPW using the forms included within this SPPP.**
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.
Owners of private BMP's are required to operate and maintain BMP's in accordance with the Operations and Maintenance Plan approved by the Township and recorded by deed in the County Courthouse. **The township DPW shall inspect all privately owned BMP's annually using the NJDEP Field Manual Checklists to assess whether the BMP's are in satisfactory condition and operating properly.** **Inspection logs shall be maintained by the DPW using the forms included within this SPPP.** **The Stormwater Program Coordinator shall notify the private owner if maintenance is required.**
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.
BMP inspection and maintenance log sheets are included within this SPPP.
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.

The following TMDL's have been adopted by NJDEP for the Township:

Fecal Coliform – Lopatcong Creek at Main Street (Phillipsburg)
Fecal Coliform – Musconetcong River near Bloomsbury & at Riegelsville
Fecal Coliform – Pohatcong Creek at New Village
Fecal Coliform – Pohatcong Creed at River Road Bridge
Mercury – Merrill Creek
Mercury – Pohatcong Creek (Springtown to Merrill Creek)

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

The township has adopted a Pet Waste Ordinance (Chapter 5-18) and a Wildlife Feeding Ordinance (Chapter 5-19) to help address the fecal coliform TDML.

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 adopted a Refuse Container and Dumpster Ordinance (Chapter 3-13). The ordinance requires dumpsters or other outdoor waste containers to be covered to prevent the spilling, dumping, leaking, or otherwise discharge of liquids, semi-liquids or solids from the containers.
2. Has the permittee adopted a Refuse Container/Dumpster Ordinance?
Yes.

SPPP APPENDIX A

Greenwich Township
Inventory of Stormwater BMP's

The following is a list of BMP's within the Township including both Township owned BMP's and privately owned BMP's.

Name of Development	Owner	Street Address	Block	Lot	Type of BMP	Latitude/ Longitude
Greenwich Hills	Dawn Brown	104 Parker Road	41.02	9	Detention Basin	Lat. 40.653 Long. 75.113
Greenwich Hills	Greenwich Hills HOA	Kennedy Mill Road	42.03	10	Detention Basin	Lat. 40.655 Long. 75.106
Kennedy Mills	Kennedy Mills HOA	Green's Ridge Road	34	4.35	Detention Basin	Lat. 40.667 Long. 75.106
Kennedy Mills	Kennedy Mills HOA	Green's Ridge Road	34.03	2	Detention Basin	Lat. 40.667 Long. 75.106
Kennedy Mills	Joseph Napurano	2 Mayflower Drive	32.04	15	Detention Basin	Lat. 40.665 Long. 75.105
Greenwich Shopping Center	Phillipsburg Greenwich LLC	Route 22	26	33.01	Detention Basin	Lat. 40.672 Long. 75.133
Lowes	Lowe's Home Centers, Inc.	Route 22 & Greenwich Street	26	2.01	Detention Basin	Lat. 40.677 Long. 75.142
Greenwich Commons	Greenwich Commons II, LLC	Route 22	23	36.01	Detention Basin	Lat. 40.678 Long. 75.142
Greenwich Station	Greenwich Station, LP	Route 519	23	36	Detention Basin	Lat. 40.679 Long. 75.142
Phillipsburg Easton Honda	Wayne Vince	400 Route 519	25	2.01	Detention Basin	Lat. 40.684 Long. 75.149
Greenwich Chase	Greenwich Township	Adams Drive	23.18	25	Detention Basin	Lat. 40.688 Long. 75.140
Greenwich Chase	Greenwich Township	Gary Road	23	5.01	Detention Basin	Lat. 40.690 Long. 75.135
Greenwich Chase	Greenwich Township	Gary Road	23.14	22	Detention Basin	Lat. 40.687 Long. 75.133
Greenwich Chase	Greenwich Township	800 Price Place	23.30	23	Detention Basin	Lat. 40.685 Long. 75.130

Name of Development	Owner	Street Address	Block	Lot	Type of BMP	Latitude/ Longitude
Wyndham Farms	Greenwich Township	Wyndham Farm Road	26	5.32	Detention Basin	Lat. 40.681 Long. 75.130

SPPP APPENDIX B

Greenwich Township
Stormwater BMP Inspection Log

The Township DPW shall conduct annual inspections of Township owned BMP's and privately owned BMP's to ensure that the BMP's are being properly maintained by the responsible party. Inspections shall be logged below.

Date	Name of Development	Owner	Street Address	Block	Lot	Type of BMP	Latitude/ Longitude	Comments

SPPP APPENDIX C

Greenwich Township
Stormwater BMP Maintenance Log

The Township DPW shall conduct required maintenance of Township owned BMP's and shall inspect privately owned BMP's and notify the owners if required maintenance is not being performed. Maintenance activities and notifications shall be logged below.

Date	Name of Development	Owner	Street Address	Block	Lot	Type of BMP	Latitude/ Longitude	Description of Maintenance

SPPP APPENDIX D

Attachment D – Major Development Stormwater Summary

General Information

1. Project Name:
2. Municipality: County: Block(s): Lot(s):
3. Site Location (State Plane Coordinates – NAD83): E: N:
4. Date of Final Approval for Construction by Municipality:
   Date of Certificate of Occupancy:
5. Project Type (check all that apply):
   Residential ☐ Commercial ☐ Industrial ☐ Other (please specify) _____
6. Soil Conservation District Project Number:
7. Did project require an NJDEP Land Use Permit? Yes ○ No ○ Land Use Permit #:
8. Did project require the use of any mitigation measures? Yes ○ No ○
   If yes, which standard was mitigated? _____

Site Design Specifications

1. Area of Disturbance (acres): Area of Proposed Impervious (acres):
2. List all Hydrologic Soil Groups:
3. Please Identify the Amount of Each Best Management Practices (BMPs) Utilized in Design Below:
   Bioretention Systems ___ Constructed Wetlands ___ Dry Wells ___ Extended Detention Basins ___
   Infiltration Basins ___ Combination Infiltration/Detention Basins ___ Manufactured Treatment Devices___
   Pervious Paving Systems ___ Sand Filters ___ Vegetative Filter Strips ___ Wet Ponds ___
   Grass Swales ___ Subsurface Gravel Wetlands ___ Other _____

Storm Event Information

Storm Event - Rainfall (inches and duration): 2 yr.: _____ 10 yr.: _____

100 yr.: _____ WQDS: _____

Runoff Computation Method:
NRCS: Dimensionless Unit Hydrograph ☐ NRCS: Delmarva Unit Hydrograph ☐ Rational ☐ Modified Rational ☐
Other: _____

Basin Specifications (answer all that apply)

If more than one basin, attach multiple sheets

1. Type of Basin: Surface/Subsurface (select one): Surface ○ Subsurface ○
2. Owner (select one):
   ○ Public ○ Private: If so, Name: Phone number:
3. Basin Construction Completion Date:
4. Drain Down Time (hr.):
5. Design Soil Permeability (in./hr.):
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
7. Groundwater Recharge Methodology (select one): 2 Year Difference ○ NJGRS ○ Other ○ NA ○
8. Groundwater Mounding Analysis (select one): Yes ○ No ○ If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes ○ No ○ Is the Basin Deed Restricted: Yes ○ No ○

Comments:

Name of Person Filling Out This Form: _____ Signature: _____

Title: _____ Date: _____ 2/2/2018

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*	
1. Type of Basin:	Surface/Subsurface (select one): Surface ◯ Subsurface ◯
2. Owner (select one): ◯ Public	◯ Private: If so, Name: Phone number:
3. Basin Construction Completion Date:	
4. Drain Down Time (hr.):	
5. Design Soil Permeability (in./hr.):	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.):	Date Obtained:
7. Groundwater Recharge Methodology (select one):	2 Year Difference ◯ NJGRS ◯ Other ◯ NA ◯
8. Groundwater Mounding Analysis (select one): Yes ◯ No ◯	If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes ◯ No ◯	Is the Basin Deed Restricted: Yes ◯ No ◯

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*	
1. Type of Basin:	Surface/Subsurface (select one): Surface ◯ Subsurface ◯
2. Owner (select one): ◯ Public	◯ Private: If so, Name: Phone number:
3. Basin Construction Completion Date:	
4. Drain Down Time (hr.):	
5. Design Soil Permeability (in./hr.):	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.):	Date Obtained:
7. Groundwater Recharge Methodology (select one):	2 Year Difference ◯ NJGRS ◯ Other ◯ NA ◯
8. Groundwater Mounding Analysis (select one): Yes ◯ No ◯	If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes ◯ No ◯	Is the Basin Deed Restricted: Yes ◯ No ◯

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*	
1. Type of Basin:	Surface/Subsurface (select one): Surface ◯ Subsurface ◯
2. Owner (select one): ◯ Public	◯ Private: If so, Name: Phone number:
3. Basin Construction Completion Date:	
4. Drain Down Time (hr.):	
5. Design Soil Permeability (in./hr.):	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.):	Date Obtained:
7. Groundwater Recharge Methodology (select one):	2 Year Difference ◯ NJGRS ◯ Other ◯ NA ◯
8. Groundwater Mounding Analysis (select one): Yes ◯ No ◯	If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes ◯ No ◯	Is the Basin Deed Restricted: Yes ◯ No ◯

Name of Person Filling Out This Form: _____ Signature: _____

Title: _____ Date: _____

SPPP APPENDIX E

FRANKLIN TOWNSHIP

LOPATCONG

HUNTERDON COUNTY

TOWNSHIP

POHATCONG

NJSPCS

RICHLINE HILL ROAD

STATE ROUTE 57

NEW JERSEY TRANSIT RAILROAD MAIN LINE

LACKAWANNA CANAL

DELAWARE & RARITAN CANAL

TIMBERWICK ROAD

LOW'S HOLLOW ROAD

PROSPECT STREET

WARREN STREET

NORTH MAIN STREET

COUNTY ROUTE 637

LIBERTY ROAD COUNTY ROUTE 637

THOMAS STEWART WAY

RACHEL COURT

CARPENTER LANE

WILLEVER WAY

KINNEY CIRCLE

CANAL CROSSING

WOODRUFF ROAD

STRUNKS LANE

WATERTOWER ROAD

WASHINGTON ST.

WILLOW GROVE ROAD

IRON WOLF ROAD

LENAPE ROAD

CARDINAL WAY

EMELINE WAY

ROBIN COURT

ARBOR DRIVE

MEADOW RUN DRIVE

CHRISTIE COURT

DEBRA LANE

HERLEMAN ROAD

PEQUEST ROAD

HORSESHOE WAY

FULMER STREET

GREENWICH STREET

COUNTY ROUTE 638

SOUTH MAIN STREET

BEATTY'S ROAD

NEW VILLAGE ROAD

FOX RUN

INTERSTATE ROUTE 78

ASBURY ROAD

N.J. ROUTE 173

SOUTH MAIN STREET

NEW VILLAGE STREET

COUNTY ROUTE 637

MAPLE DRIVE

KENNEDY MILL ROAD

ROBERT PLACE

LANE

MAYFLOWER DRIVE

STANDISH PLACE

ALDIN ROAD

GREENS RIDGE ROAD

STONE CROSSING

GREENFIELDS PLACE

ROLTON DRIVE

CRISMAN DRIVE

COUNTY ROUTE 639

RED HAWK LANE

BARN SWALLOW ROAD

COURT

CHURCH ROAD

FRAN LANE

BEAUFORT ROAD

BRADFORD ROAD

GLEN ROAD

WARREN COUNTY ROUTE 638

PARKER ROAD

LAUREN WAY

MARIE PLACE

PINE HOLLOW ROAD

BIRCH LANE

GREENWICH ROAD

RAYNE ROAD

VORHEES ROAD

N.J. ROUTE 173

CONRAIL MORRISTOWN & ERIE MAIN LINE

CONRAIL CENTRAL RAILROAD OF NEW JERSEY MAIN LINE

LIBERTY VALLEY RAILROAD MAIN LINE

ADRIENNE AVENUE

VALERIE PLACE

ELIZABETH AVENUE

BRILL ROAD

FANNING MILL ROAD

LEAH LANE

DORI PLACE

WALTER WAY

GARY ROAD

THOMAS CARLING DRIVE

MAXWELL DRIVE

MARLIN FARM ROAD

STOCKER STREET

PRICE PLACE

CURTIS COURT

DILLON DRIVE

WYNDHAM FARM BLVD.

WYNDHAM FARM BOULEVARD

COOK COURT

DANIEL DRIVE

WASHINGTON DRIVE

LINCOLN DRIVE

REGENT CIRCLE

VALLEY DRIVE

THAMES DRIVE

BRIAN CIRCLE

JOSEPH WAY

YVONNE WAY

WILLIAM CIRCLE

MONROE DRIVE

GARY ROAD

JACKSON ROAD

HAMILTON DRIVE

MADISON DRIVE

ADAMS DRIVE

JAMES CIRCLE

DUMONT ROAD

BURROWS DRIVE

NEW BRUNSWICK AVENUE

WEST AVENUE

TYLER CIRCLE

JEFFERSON DRIVE

MARY CIRCLE

HAMILTON DRIVE

WAYNE CIRCLE

GREENWICH STREET

STRYKERS ROAD

DUMONT ROAD

PATRICIA CIRCLE

REVERE ROAD

AUSTIN CIRCLE

COUNTY ROUTE 519

U.S. ROUTE 22

LEGEND

- ▪ OUTFALL LOCATION
- (1) OUTFALL LOCATION NUMBER

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NUMBER	DATE	REVISION

1000' 0' 1000' 2000'
SCALE IN FEET

FINELLI CONSULTING ENGINEERS
CERTIFICATE OF AUTHORIZATION NO. 24GA27918500
TELEPHONE: (908) 835-9500
FAX: (908) 835-9909
205 ROUTE 31 NORTH
WASHINGTON, N.J. 07882

MICHAEL S. FINELLI, P.E.
NJ Professional Engineer Lic. No. 32396

OUTFALL LOCATION MAP
FOR
GREENWICH TOWNSHIP
GREENWICH TOWNSHIP
WARREN COUNTY, NEW JERSEY

DATE:	SCALE:	PROJECT NUMBER:
6/1/05	1"=1000'	GRWM088
DRN. BY/CHK. BY:	FIELD BOOK	SHEET:
JED	–	1 of 1

GRWM088

L:\GREENWCH\GRWM088\08BOUTFALL-LOCATION-MAP.DWG

SPPP APPENDIX F

Outfall Inspection Form

This form is provided to assist MS4 permittees with appropriate recordkeeping for their routine outfall inspections as required by the current MS4 NJPDES permit. Initial illicit connection inspections must be performed during dry weather, which is at least 72 hours after the previous precipitation or snowmelt event.

It is recommended to attach photo(s) of the inspection of the outfall to this form.

Upon discovery of stream scouring, you may use "Stream Scouring Investigation Record Keeping Form" for required documentation.

Upon discovery of any possible illicit connections, you MUST use "Illicit Connection Inspection Report Form."

SECTION 1: PERMITTEE INFORMATION

MS4 Permittee: _____ NJPDES #: NJG0_____

SECTION 2: OUTFALL SUMMARY INFORMATION

If this outfall is newly identified, be sure to add it to your electronic outfall pipe map.

Outfall ID: _____ Outfall Location Description: _____

_____

Municipality: _____ County:_____

Receiving Waterbody: _____

Describe the type of conveyance(s) that delivers the stormwater to the receiving waterbody (concrete or corrugated pipe, concrete channel, etc.): _____

_____

_____

If the ultimate discharge into the receiving water **is from an enclosed pipe**, is any part of the end of the pipe fully or partially submerged? ☐ NEVER ☐ SOMETIMES* ☐ ALWAYS*

*If 'Sometimes' or 'Always,' describe submerged conditions and condition at time of inspection:

_____

_____

_____

If the ultimate discharge into the receiving water **is not from an enclosed pipe**, what is the approximate distance between the end of the last enclosed stormwater conveyance pipe to the receiving waterbody (ft): _____

Do any other NJPDES permittees discharge through this MS4 outfall? ☐ YES* ☐ NO ☐ UNKNOWN

*If 'YES', list Permittee Name(s) or NJPDES #(s): _____

_____

_____

If 'YES', please contact your MS4 Case Manager.

SECTION 3: INSPECTION CONDITIONS

Date of current inspection: ___/___/___ Date of previous inspection: ___/___/___

Latest precipitation/snowmelt event: _____/_____/_____ Amount of Precipitation (in.): _____

Outfall condition: ☐ PROPER CONDITION ☐ NEEDS MAINTENANCE ☐ NEEDS REPAIR

If applicable, describe the type of maintenance or repair needed: _____

_____

_____

_____

Bank Stability around outfall: ☐ GOOD ☐ FAIR ☐ NEEDS STABILIZATION

If applicable, describe problem and the work needed to stabilize the outfall: _____

_____

_____

_____

Is there a dry weather flow present at the outfall or other evidence that a previous illicit discharge may have occurred? *(If the outfall is partially or fully submerged, dry weather flow observations must be made at the next upstream point (e.g. manhole) above the influence of the receiving surface waterbody.)*

☐ PRESENT ☐ EVIDENCE ☐ NEITHER

If applicable: *Manhole ID:* _____ *Approximate distance upstream from outfall (ft.):* _____

If a dry weather flow is present at the outfall or there is other evidence that a previous illicit discharge may have occurred, the permittee must document the illicit discharge investigation on the **"Illicit Connection Inspection Report Form"** at the link above.

SECTION 4: STREAM SCOURING

Is stream scouring present? ☐ YES* ☐ NO

*If 'YES', describe the scouring, including where the scouring is occurring relative to the outfall:

_____

_____

_____

_____

If you answered 'YES,' you must document sources of stormwater that contribute to the outfall. The Department has created the **"Stream Scouring Investigation Record Keeping Form" for your use at the link above.**

SECTION 5: INSPECTOR INFORMATION

Inspector's Name: _____

Title: _____ Affiliation: _____

Signature: _____ Date: _____

SPPP APPENDIX G

Stream Scouring Investigation Recordkeeping Form

This form is provided to assist MS4 permittees with appropriate recordkeeping throughout the investigation process of outfall stream scouring. This form is to be kept with the permittee's SPPP, as per the recordkeeping requirements of the MS4 NJPDES permit. It is recommended to attach photo(s) of the outfall and scouring to this form.

SECTION 1: PERMITTEE INFORMATION

MS4 Permittee: _____ NJPDES #: NJG0_____

SECTION 2: OUTFALL SUMMARY INFORMATION

If this outfall is newly identified, be sure to add it to your electronic outfall pipe map.

Outfall ID: _____ Outfall Location Description: _____

_____

Municipality: _____ County:_____

Receiving Waterbody: _____

Describe the type of conveyance(s) that delivers the stormwater to the receiving waterbody (concrete or corrugated pipe, concrete channel, etc.): _____

_____

_____

If the ultimate discharge into the receiving water **is from an enclosed pipe**, is the end of the pipe fully or partially submerged? ☐ NEVER ☐ SOMETIMES* ☐ ALWAYS*

*If 'Sometimes' or 'Always,' describe submerged conditions and condition at time of inspection:

_____

_____

_____

If the ultimate discharge into the receiving water **is not from an enclosed pipe**, what is the approximate distance between the end of the last enclosed stormwater conveyance pipe to the receiving waterbody (ft.): _____

Do any other NJPDES permittees discharge through this MS4 outfall? ☐ YES* ☐ NO ☐ UNKNOWN

*If 'YES', list Permittee Name(s) or NJPDES #(s): _____

_____

_____

If 'YES', please contact your MS4 Case Manager.

SECTION 3: INSPECTION CONDITIONS

When was the stream scouring first identified? ____/____/____

Date of current inspection: ____/____/_____ Date of previous inspection: ____/____/_____

Latest precipitation/snowmelt event: ____/____/_____ Amount of Precipitation (in.): _____

Provide a description of the stream scouring and outfall condition: _____

_____

_____

Describe investigation and findings, including suspected sources and action(s) being taken to reduce the volume or rate of flow from the sources contributing stormwater to the outfall, including dates of actions taken: _____

_____

_____

_____

Was stream scouring identified during the previous inspection? ☐ YES* ☐ NO

*If 'YES', describe previous actions taken: _____

_____

_____

_____

Since the date of last inspection, has the stream scouring worsened? ☐ YES* ☐ NO

*If 'YES', describe any potential causes, including new source(s) contributing stormwater to the MS4 discharging at this outfall since previous inspection (e.g. new housing developments, commercial plazas, etc.):

_____

_____

_____

_____

_____

SECTION 4: SCHEDULING OF STREAM REMEDIATION

Description of the remediation project: _____

_____

_____

_____

_____

_____

List milestones and dates of remediation (i.e. applied for permit, advertised for bid, awarded bid for project, completed project, etc.): _____

_____

_____

_____

_____

_____

_____

SECTION 5: PERMITS OBTAINED (Flood Hazard, Freshwater Wetlands, Soil Conservation District, etc.)

Permit Type	Permit Authorization #	Application date	Authorization date
_____	_____	___/___/___	___/___/___
_____	_____	___/___/___	___/___/___
_____	_____	___/___/___	___/___/___
_____	_____	___/___/___	___/___/___
_____	_____	___/___/___	___/___/___

SECTION 6: INSPECTOR INFORMATION

Inspector's Name: _____

Title: _____ Affiliation: _____

Signature: _____ Date: _____

SPPP APPENDIX H

Illicit Connection Inspection Report Form

For additional information regarding illicit discharge investigations, refer to Chapter 3.6 of the Tier A Guidance Document.

If a dry weather flow or other evidence of an intermittent illicit discharge is observed, this form shall be used to document the illicit discharge investigation in accordance with the current MS4 NJPDES Permit. This completed form shall be uploaded with the permittee's Annual Report and Certification and be kept with the permittee's SPPP as per the recordkeeping requirements of the permit. Initial illicit connection inspections must be performed during dry weather, which is at least 72 hours after the end of the previous precipitation or snowmelt event.

It is required to attach photos of the investigation to this form.

Illicit discharges must be reported immediately to the NJDEP Hotline at 1-877-WARNDEP (1-877-927-6337).

SECTION 1: PERMITTEE INFORMATION

MS4 Permittee: _____ NJPDES #: NJG0_____

SECTION 2: OUTFALL SUMMARY INFORMATION

If this outfall is newly identified, be sure to add it to your electronic outfall pipe map.

Outfall ID: _____ Outfall Location Description: _____

_____

Municipality: _____ County:_____

Receiving Waterbody: _____

Describe the type of conveyance(s) that delivers the stormwater to the receiving waterbody (concrete or corrugated pipe, concrete channel, etc.): _____

_____

_____

If the ultimate discharge into the receiving water **is from an enclosed pipe**, is the end of the pipe fully or partially submerged? ☐ NEVER ☐ SOMETIMES* ☐ ALWAYS*

*If 'Sometimes' or 'Always,' describe submerged condition at time of inspection:

_____

_____

_____

_____

If the ultimate discharge into the receiving water **is not from an enclosed pipe**, what is the approximate distance between the end of the last enclosed stormwater conveyance pipe to the receiving waterbody (ft.): _____

Do any other NJPDES permittees discharge through this MS4 outfall? ☐ YES* ☐ NO ☐ UNKNOWN

*If 'YES', list Permittee Name(s), NJPDES #(s), and Location of Connection:

_____

_____

_____

_____

If 'YES', please contact your MS4 Case Manager.

SECTION 3: OUTFALL INSPECTION

Date of current inspection: ____/____/_____

Latest precipitation/snowmelt event: _____/_____/_____ Amount of Precipitation (in.): _____

Date dry weather flow or other evidence of an intermittent illicit discharge was first discovered:___/___/___

List the date(s) of previous inspection(s) and describe the actions taken, if applicable: _____

_____

_____

_____

SECTION 4: PHYSICAL OBSERVATIONS

If the outfall is either partially or fully submerged, dry weather flow observations must be made at the next upstream point (e.g. manhole) above the influence of the receiving surface waterbody.

If applicable: *Manhole ID:* _____ *Approximate distance upstream from outfall (ft.):* _____

The permittee shall use the table below to describe 1) the observed dry weather flow and/or 2) when there are indications of intermittent illicit discharges present.

(Potential illicit discharge sources are listed in parentheses.)

Odor	☐ None ☐ Sewage (stale/septic sanitary wastewater) ☐ Petroleum/Gas (petroleum refineries, vehicle maintenance facilities, petroleum product storage) ☐ Rancid/Sour (food preparation facilities, e.g. restaurants, hotels, etc.) ☐ Sulfide (industries discharging sulfide compounds or organics, e.g. meat packers, canneries, dairies, etc.) ☐ Other: _____
Color	☐ Clear ☐ Brown (meat packers, printing plants, metal works, concrete or stone operations, fertilizer facilities, and petroleum refining facilities) ☐ Gray (dairies, sewage) ☐ Yellow (chemical plants, textile and tanning plants) ☐ Red (meat packers) ☐ Other: _____
Turbidity	☐ Clear ☐ Cloudy (sanitary wastewater, concrete or stone operations, fertilizer facilities, and automotive dealers) ☐ Opaque (food processors, lumber mills, metal works, pigment plants)
Floatable Matter (Does not include litter)	*Floatables of industrial origin may include animal fats, spoiled foods, solvents, sawdust, foams, packing materials, or fuel. Floatables in sanitary wastewater include fecal matter, toilet paper, sanitary napkins, and condoms.* ☐ None ☐ Sewage (toilet paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: _____

Deposits and Stains within outfall	*Coatings, residues or fragments of material may be indicators of a potential intermittent non-stormwater discharge* ☐ None ☐ Grayish-Black (leather tanneries) ☐ White crystalline powder (Nitrogenous fertilizers) ☐ Excessive sediments (construction sites) ☐ Oily residues (petroleum refineries, storage facilities, vehicle service areas) ☐ Other:_____
Vegetation	*As compared to surrounding Riparian bank and/or stream vegetation* ☐ Normal ☐ Excessive growth and/or algal presence (Food processing plants) ☐ Inhibited Growth (Industrial operation effluent, CAFOs)

**If the Physical Observations have been conducted and it was determined there was no odor, no discoloration of the water or no deposits and stains left on the outfall, turbidity was clear, no floatable matter, and the vegetation surrounding outfall appears normal, then the dry weather discharge is likely from a groundwater source, but the "Field Monitoring" section below must still be completed for verification.*

*Prior to conducting the analyses in Sections 5 & 6, the source may be traced back upstream in the storm sewer to a more definitive location by various methods, such as opening manholes, using a camera and/or performing dye tests or smoke tests.**

SECTION 5: FIELD MONITORING

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

Estimated Dry Weather Flow Rate	The Tier A guidance document recommends taking the estimate flow rate during the physical observations. _____ GPM
Detergents Examples include surfactants and methylene blue active substances (MBAS)	Potential discharge types include sewage, washwater, industrial or commercial liquid waste Measurement: _____ mg/L
Temperature of dry weather discharge	Temperatures >70°F may indicate cooling water discharges depending on the season Measurement: _____ °F

Proceed to Section 6 in accordance with the Guidance Document recommendations.

SECTION 6: DRY WEATHER FLOW ANALYSIS - WATER QUALITY

** Based on the potential discharge types determined in the 'Physical Observation' and 'Field Monitoring' sections, further testing must be conducted using the appropriate subset of parameters below. The following parameters are recommended by the EPA for specific types of discharges as noted in the table below. For more information, refer to Chapter 12 of the EPA's Illicit Discharge Detection and Elimination guidance document* (https://www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf).

Indicate the location of your measurements (e.g. outfall, manhole number, etc.): _____

_____

_____

_____

Parameter	Potential Discharge Type (EPA Guidance)	Discharge Measurement
Ammonia	Sewage, washwater	mg/L
Potassium	Sewage, industrial or commercial liquid waste	mg/L
Boron	>0.35 mg/L likely indicates sewage or washwater	mg/L
Chlorine	Industrial or commercial liquid waste	mg/L
Conductivity	Sewage, washwater, and industrial or commercial liquid waste	S/m
E. coli (FW & PL waters)**	>12,000 Count/100 mL is likely Sanitary Wastewater	Count/100 mL
Enterococci (SC & SE1 waters)**	>5,000 Count/100 mL is likely Sanitary Wastewater	Count/100 mL
Fecal Coliform (SE2 & SE3 waters)**	Sewage	Count/100 mL
Fluoride	Distinguishes potable water from natural or irrigation water	mg/L
pH of Dry Weather Discharge	Washwater	SU

**The abbreviations FW, PL, SC, SE 1, SE2, and SE3 refer to the surface water quality classification of the receiving surface waterbody where the outfall discharges, as defined in N.J.A.C. 7:9B. FW=Freshwater, PL=Pinelands, SC=Saline Coastal, SE=Saline Estuary. Map coverage of these classifications is available on NJ-GeoWeb (https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=02251e521d97454aabadfd8cf168e44d) using the layer under 'Water' of 'Surface Water Quality Classification.'

SECTION 7: ILLICIT DISCHARGE INVESTIGATION

The investigation is not complete until the source of the dry weather flow is found, and any illicit discharge is eliminated.

Based on the latest results from the investigation, including the results in Sections 4, 5 and 6, is/was this dry weather flow from an illicit connection? ☐ YES ☐ NO ☐ INVESTIGATION IS ONGOING

If the investigation has been completed, what was the source of the dry weather flow or illicit connection?

_____

_____

_____

_____

_____

_____

_____

Describe the investigation, including the methods that were/will be used to identify the suspected source of the illegal discharge, or conclude there was no illicit discharge, along with the timeline of the steps of the investigation. Attach additional pages if necessary.

SECTION 8: ILLICIT DISCHARGE ELIMINATION

If it was an illicit discharge, has the source been eliminated? ☐ YES ☐ NO

Describe the plan of action that was/will be followed to eliminate the illicit connection. This plan should detail who is/was responsible for the discharge, what methods were/will be used to fix it, how long it took/will take, and how removal was/will be confirmed and rechecked: _____

SECTION 9: INSPECTOR INFORMATION

Inspector's Name: _____

Title: _____ Affiliation: _____

Signature: _____ Date: _____

SPPP APPENDIX I

Greenwich Township
Catch Basin Inspection & Maintenance Log

The DPW shall inspect all Township owned catch basins at least once every 5 years and clean as necessary.

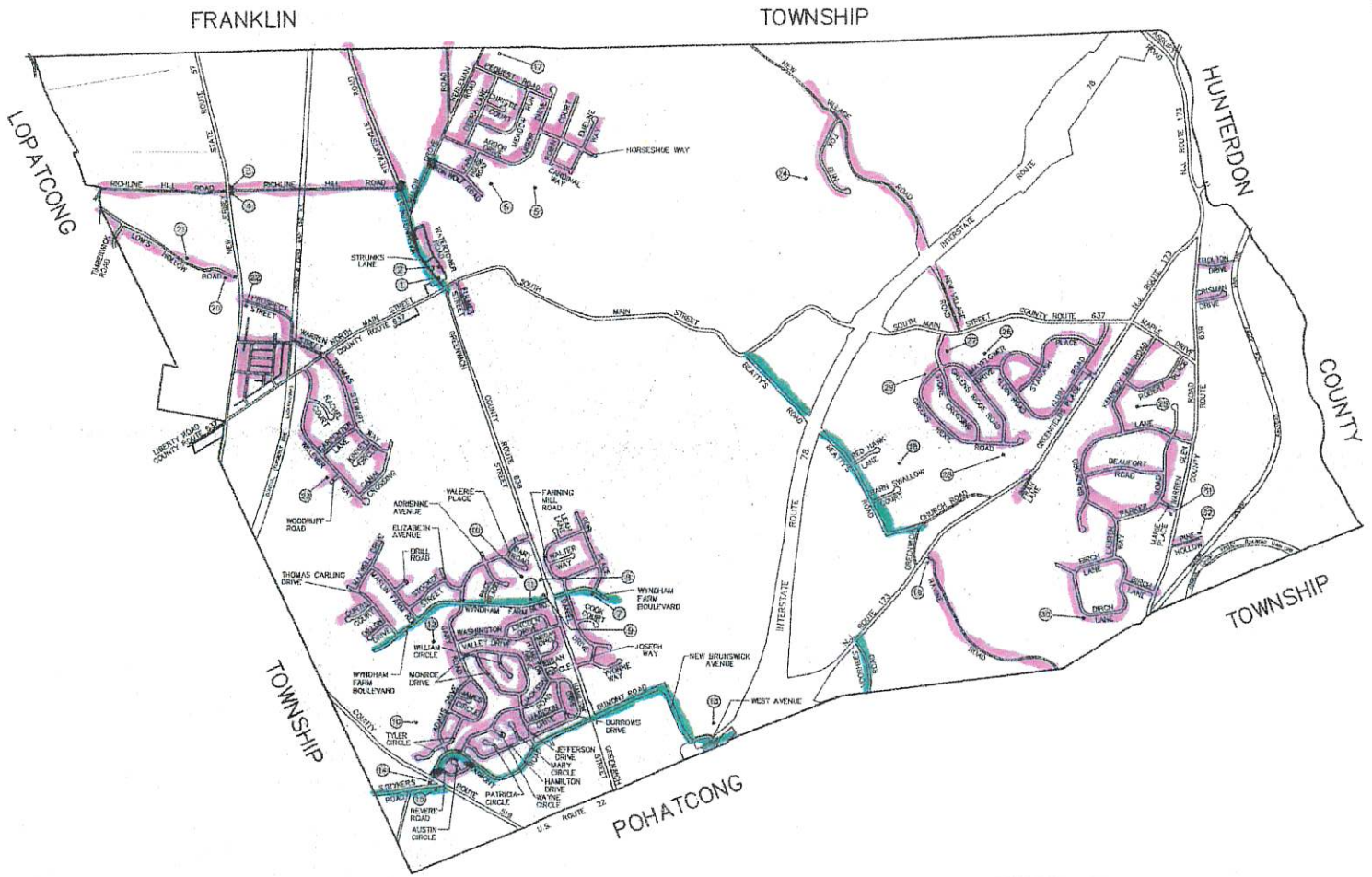
Year 2022						
Date	Inspector's Name	Location of Catch Basin	Inspected Y/N	Cleaned Y/N	Tons of Material Removed	Repairs Required/Completed

SPPP APPENDIX J

Greenwich Township
Street Sweeping Log

The DPW shall sweep all required streets at least once month.

Year 2022			
Date	**Street**	**Miles Swept**	**Tons of Material**



Twp. Streets Sweep Monthly

Twp. Streets swept. 2x a year.

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FINELLI CONSULTING ENGINEERS

MICHAEL S. FINELLI, P.E.

OUTFALL LOCATION MAP FOR GREENWICH TOWNSHIP

GREENWICH TOWNSHIP
WARREN COUNTY, NEW JERSEY

880W079

SPPP APPENDIX K

Greenwich Township
Maintenance Yard Inspection Log

The DPW shall conduct a semi-annual inspection of its maintenance yards

321 Greenwich Street Maintenance Yard – DPW to inspect the condition of machinery & equipment, storage and labeling of fuel containers, solvents, detergents, raw materials, and waste materials		
Date of Inspection	**Inspector**	**Findings & recommendations**

SPPP APPENDIX L

Greenwich Township
Employee Training Log

EMPLOYEE TRAINING LOG		
Date	Employee	Name of Course