

# Stormwater Pollution Prevention Plan

*Loch Arbour Village*

*Monmouth County*

*NJG0153516*

*Annual Review Date: June 30, 2023*

*Stormwater Program Coordinator: Peter R. Avakian, P.E.*

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## Form 1 – Team Members

<b>Stormwater Program Coordinator (SPC)</b>			
Name and Title		<i>Peter R. Avakian, P.E. Village Engineer</i>	
Phone	<i>(732) 922-9229</i>	Email	<i>mmariano@leonsavakian.com</i>
<b>Individual(s) Responsible for Major Development Project Stormwater Management Review</b>			
Name and Title		<i>Peter R. Avakian, P.E. Village Engineer</i>	
Phone	<i>(732) 922-9229</i>	Email	<i>mmariano@leonsavakian.com</i>
Name and Title			
		Email	
<b>Other Municipal Stormwater Team Members</b>			
Name and Title		<i>Marilyn Simons Municipal Clerk</i>	
Phone	<i>(732) 531-4740</i>	Email	<i>msimons@locharbour.us</i>
Name and Title			
Phone		Email	
Name and Title			
Phone		Email	
<b>Shared/Contracted Service Providers</b>			
Provider Name	Service Provided	Term of Service	
<i>Deal Borough Dept. of Public Works</i>	<i>Snow removal, street sweeping, stormwater infrastructure cleaning and maintenance</i>	<i>Renewed Annually</i>	
<i>Deal Lake Commission</i>	<i>Public Education and Outreach</i>	<i>Renewed Annually</i>	



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

1. Provide the link to the dedicated stormwater webpage for your municipality.
<i><a href="https://www.locharbournj.us/departments-services/pages/stormwater-management">https://www.locharbournj.us/departments-services/pages/stormwater-management</a></i>
2. List the name and title of person(s) responsible for stormwater webpage postings/updates.
<i>Marilyn Simons, Municipal Clerk</i>
3. List the newspapers, social media outlets, websites, direct mailings (Email or postal), and other communication approaches typically used to inform/educate the public on stormwater program information and related events/activities.
<i>Public education and outreach events/activities are advertised on the Village website at <a href="https://www.locharbournj.us">https://www.locharbournj.us</a> and with fliers and public announcements at the Board of Commissioners meetings. Additionally, stormwater educational materials are available to the public at the Municipal Building.</i>  <i>Loch Arbour Village is a charter member of the Deal Lake Commission (DLC). The DLC provides public education and outreach services for all member municipalities. Events, activities, and stormwater information are conveyed to the public on the DLC website at <a href="https://deallake.org">https://deallake.org</a> and through Facebook and Twitter.</i>

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

## Part IV.E.

1. How does the municipality define “major development”? If it is different from the definition in N.J.A.C. 7:8, explain the difference.

*As per the Loch Arbour Village Stormwater Control Ordinance #2021-468, “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; or*
- 4. A combination of 2 and 3 above that totals an area of one-quarter acre or more. The same surface shall not be counted twice when determining if the combination area equals one-quarter acre or more.*

*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. Is the municipality’s stormwater control ordinance (SCO) the same as or more stringent than NJDEP’s model SCO? If more stringent, explain the difference.

*Loch Arbour Village stormwater control ordinance #2021-468 is as exacting as the NJDEP model stormwater control ordinance.*

3. Describe the process for reviewing major development project applications for compliance with the SCO and Residential Site Improvement Standards (RSIS).

*The Planning Board Engineer reviews all major development projects for compliance with the Stormwater Management Rules (N.J.A.C. 7:8), and the Loch Arbour Stormwater Control Ordinance and/or the Residential Site Improvement Standards for stormwater management, as applicable. If the project is compliant, a recommendation for approval is made to the Planning Board.*

<p>4. Does your municipality have a mitigation plan included in your Municipal Stormwater Management Plan and Stormwater Control Ordinance? Indicate the location of records of all variances granted.</p>
<p><i>Yes, the Loch Arbour Village Municipal Stormwater Management Plan includes a Mitigation Plan and the Loch Arbour Stormwater Control Ordinance addresses conditions that must be met to grant a waiver or variance from N.J.A.C. 7:8-5.3. No variances have been granted to date.</i></p>
<p>5. Indicate the dates of each iteration of the township's Stormwater Control Ordinance, starting with the initial adoption and including revisions.</p>
<p><i>Stormwater Control Ordinance # 349 Adopted: November 5, 2008 Stormwater Control Ordinance # 2021-468 Adopted: February 3, 2021</i></p>
<p>6. Indicate the dates of each iteration of the township's Municipal Stormwater Management Plan, starting with the initial adoption and including revisions.</p>
<p><i>Village of Loch Arbour Municipal Stormwater Management Plan Initial adoption: April 1, 2005 Revised: November 12, 2008</i></p>

**Form 5 – Ordinances**  
*Part IV.F.1.*

<b>Ordinance</b>	<b>Date Adopted</b>	<b>Was the DEP model adopted without change? If not, explain how the municipality's is more stringent.</b>	<b>Entity Responsible for Enforcement</b>	<b>Fees &amp; Fines</b>
1. Pet Waste	3/1/2006	<i>Adopted without change</i>	<i>Police Dept., Local Code and Zoning Official</i>	\$1,250
2. Wildlife Feeding	3/1/2006	<i>Adopted without change</i>	<i>Police Dept., Local Code and Zoning Official</i>	\$1,250
3. Litter Control	3/1/2006	<i>Adopted without change</i>	<i>Police Dept. or Zoning Official</i>	\$1,250
4. Improper Disposal of Waste	3/1/2006	<i>Adopted without change</i>	<i>Police Department Zoning Official or Sewer System Operator</i>	\$1,250
5. Yard Waste	4/5/2006	<i>Adopted without change</i>	<i>Police Dept. or Zoning Official</i>	\$1,250
6. Private Storm Drain Inlet Retrofitting				\$___
7. Illicit Connections	3/1/2006	<i>Adopted without change</i>	<i>Police Department Zoning Official or Sewer System Operator</i>	\$1,250
8. Privately-Owned Salt Storage		<i>Pending adoption</i>		\$___
9. Tree Removal-Replacement		<i>Pending adoption</i>		\$___

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

*Refuse Container/Dumpster Ordinance – Adopted 10/6/2010  
Enforcement Entity: Code Enforcement Official or Police Department  
Fees and fines: \$1,250*

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

*Records associated with ordinances are located in the Municipal Clerk's office and records related to enforcement actions are located in the Code Enforcement office.*



## Form 6 – Street Sweeping

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

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

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

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

*The Deal Borough DPW provides street sweeping services to Loch Arbour through an interlocal services agreement. At this time all Village streets that are required to be swept by the 2018 NJPDES permit are swept a minimum of once per month. No street sweeping is conducted during the winter months.*

*The new triannual sweeping schedule will be implemented on or before January 1, 2026 for all municipally owned or operated streets with storm drain inlets that discharge to surface waters. Annual street sweeping will also be implemented on or before January 1, 2026 for all municipally owned or operated streets that do not have storm drain inlets that discharge to surface water.*

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

*The Deal Borough DPW provides street sweeping services to Loch Arbour Village through an interlocal services agreement.*

**Form 7 – MS4 Infrastructure**  
*Part IV.F.2-4. and Part IV.G.2-3.*

**1. Municipal Storm Drain Inlets**

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

- a. The Deal Borough DPW periodically conduct drive-by inspections of the municipal storm drain inlets in Loch Arbour. At the same time, the condition of labelling on storm drain inlets without permanent wording cast into the design is evaluated. Non-permanent storm drain inlet labels found to be missing or damaged are scheduled for repair or replacement.*
- b. All municipally owned or operated storm drain inlets in Loch Arbour have been retrofitted or replaced to meet the solids and floatable materials control standards in the Loch Arbour Village stormwater control ordinance. There are no private storm drain inlets in Loch Arbour.*
- c. As part of the review process, the Village Engineer checks the plans submitted for road projects and major development projects to confirm that new storm drain inlets comply with the applicable design standards.*
- d. The Deal Borough DPW periodically conduct drive-by inspections of the storm drain inlets in Loch Arbour. If debris is present the grate and surrounding area is cleaned at that time or scheduled for cleaning within one week.*

**2. Municipal Catch Basins**

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

- a. A minimum of 20% of the catch basins are inspected annually on a rotating schedule such that all catch basins are inspected at least once every 5 years.*
- b. Catch basins that are approximately 50% filled with debris are scheduled for cleaning.*

**3. Municipal Conveyance System**

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

*The Village Engineer's office conducts periodic inspections of the MS4 conveyance system throughout the year. These inspections are often conducted in conjunction with stream scouring and illicit connection inspections. Observed or reported localized street flooding may also trigger an inspection of the conveyance system. If an obstruction is found the line may be televised and water-jetted to relieve the blockage.*

**4. Municipal Outfall Inspections – Stream Scouring**

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

*Not applicable. There is no stream scouring in Loch Arbour Village. All of the stormwater outfalls in Loch Arbour discharge to Deal Lake.*

**5. Municipal Outfall Inspections – Illicit Discharge Detection and Elimination**

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

*There are 17 municipally owned or operated stormwater outfalls in Loch Arbour Village. Each year at least 20 % of the outfalls are visually inspected for evidence of a dry weather flow. If a dry weather flow is confirmed additional physical information is collected and an investigation is conducted. An Illicit Connection Inspection Report Form is completed to assist with the determination of the source of the dry weather flow.*

**6. Other Municipal Infrastructure**

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

*Not applicable. There is no other municipal infrastructure in Loch Arbour that requires inspection.*

**7. Stormwater Facilities Not Owned or Operated by the Municipality**

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

*Not applicable. There are no non-Village owned or operated stormwater facilities within Loch Arbour Village.*

**8. Infrastructure Records**

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

*Records associated with the inspection, cleaning, maintenance, and repair of stormwater infrastructure are kept on file in the Deal Borough DPW office.*

## Form 8 – Community-wide Measures

### Part IV.F.2.

<b>1. Herbicide Application Management</b> Describe your program for preventing herbicides from being washed into the waters of the State and to prevent erosion caused by de-vegetation.
<i>Not applicable. The Village of Loch Arbour does not spray along roadsides for weed control.</i>
<b>2. Excess Deicing Material Management</b> Describe your program for ensuring that excess salt piles are removed in a timely manner after storm events.
<i>If present, excess salt piles that remain on roadways or in parking areas are removed by the Deal Borough DPW within 3 days after the storm event is over.</i>
<b>3. Roadside Vegetative Waste</b> Describe your program for ensuring proper pickup, handling, storage, and disposal of wood waste and yard trimmings generated by the permittee along municipal roads or on municipal properties (trimming trees, mowing, etc.).
<i>Not applicable. No roadside vegetative waste is generated in Loch Arbour Village.</i>
<b>4. Roadside Erosion Control</b> Describe your program to detect and repair erosion along municipal roadways.
<i>Not applicable. There is no roadside erosion in Loch Arbour Village. All of the streets are curbed.</i>

## Form 9 – Municipal Maintenance Yards & Other Ancillary Operations

### Part IV.F.5.

*Please complete a separate Form 9 for each yard or site. Indicate the number of yards/sites the municipality owns or operates:   0*

<b>1. Site Name and Address</b>	
<i>The Village of Loch Arbour does not have a Public Works Yard or other ancillary operations.</i>	
<b>2. Monthly Site Inspections</b>	
Describe the nature of inspections conducted at this site and the location of inspection logs.	
<i>Not applicable.</i>	
<b>3. Inventory List</b>	
List all materials and machinery that are potentially exposed to stormwater.	
<b>Materials</b>	<b>Machinery/Equipment</b>
<i>Not applicable</i>	<i>Not applicable.</i>
<b>4. Discharge of Stormwater from Secondary Containment</b>	
Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.	
<i>Not applicable.</i>	
<b>5. Fueling Operations</b>	
Does fueling occur on site? If so, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If not, explain where fueling takes place.	
<i>Not applicable.</i>	
<b>6. Vehicle/Equipment Maintenance and Repair</b>	
Do you perform maintenance and repair on site? Is this conducted indoors or outdoors? If outdoors, describe the BMPs in place to minimize contamination of stormwater from maintenance and repair activities.	
<i>Not applicable.</i>	

<p><b>7. Wash Wastewater Containment</b> Do you wash vehicles on site? If so, describe the BMPs in place to minimize contamination of stormwater from these activities. Note that on site containment structures require annual inspections by a NJ licensed professional engineer. If not, explain where vehicle washing takes place.</p>
<p><i>Not applicable.</i></p>
<p><b>8. Salt and Other Granular De-icing Materials</b> Do you store salt and other granular deicing materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p><i>Not applicable.</i></p>
<p><b>9. Aggregate Material, Wood Chips, and Finished Leaf Compost</b> Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p><i>Not applicable.</i></p>
<p><b>10. Cold Patch Asphalt</b> Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p><i>Not applicable.</i></p>
<p><b>11. Street Sweepings and Storm Sewer Cleanout Materials</b> Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p><i>Not applicable.</i></p>
<p><b>12. Construction and Demolition Waste, Wood Waste, and Yard Trimmings</b> Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.</p>
<p><i>Not applicable.</i></p>

**13. Scrap Tires**

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

*Not applicable.*

**14. Inoperable Vehicles and Equipment**

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

*Not applicable.*



## Form 10 – Training

### Part IV.F.6-10.

<b>Stormwater Program Coordinators</b>
Describe the training provided for the municipal Stormwater Program Coordinator.
<i>The Stormwater Program Coordinator (SPC) will receive the required NJDEP training for SPC responsibilities by January 1, 2026 and once per permit cycle thereafter.</i>

<b>Topic</b>	<b>Municipal Employees</b>
Examples: in-person or virtual group sessions, e-Learning, field trainings, and videos	
Describe the training provided for municipal staff.	
SPPP	<i>Annual training will be provided to appropriate municipal staff on the current SPPP and applicable recordkeeping requirements through in-person and/or virtual training sessions.</i>
Construction Site Stormwater Runoff	<i>The Construction Official will receive the proper NJDEP training to determine if a general or individual Construction Site Stormwater Runoff permit is required at a construction site.</i>
Post-Construction Stormwater Management in New and Redevelopment	<i>Not applicable. The Village Engineer’s office reviews and inspects all new development and redevelopment projects in Loch Arbour Village.</i>
Community-wide Ordinances	<i>Not applicable. Deal Borough provides Police services to Loch Arbour through an interlocal service agreement.</i>
Community-wide Measures	<i>Not applicable.</i>
Stormwater Facilities Maintenance	<i>Not applicable. Maintenance of all stormwater infrastructure in Loch Arbour is provided by the Deal Borough DPW.</i>

Municipal Maintenance Yards and Other Ancillary Operations	<i>Not applicable. Loch Arbour Village does not have a Municipal Maintenance Yard or other ancillary operations.</i>
MS4 Mapping	<i>Not applicable. Staff from the Village Engineer's office will collect stormwater infrastructure GPS points and associated attributes that will be used to create the Loch Arbour Stormwater Infrastructure Map.</i>
Outfall Stream Scouring	<i>Not applicable. There is no stream scouring in Loch Arbour Village.</i>
Illicit Discharge Detection and Elimination	<i>Not applicable. Staff from the Village Engineer's office conduct the visual dry weather inspections of the Loch Arbour stormwater outfalls.</i>

<b>Stormwater Management Design Reviewers</b>
Describe the training provided for individuals responsible for reviews and approvals of stormwater management designs.
<i>All individuals that review and approve stormwater management designs for major development projects in Loch Arbour Village will complete the NJDEP Stormwater Management Design Review training course at a minimum of once every 5 years.</i>

<b>Municipal Board and Governing Body Members</b>
Describe the training provided for members of the planning/zoning board and municipal council.
<i>Within 6 months of taking office, members of the Loch Arbour Village Planning Board and members of the Loch Arbour Board of Commissioners will complete the "Asking the Right Questions in Stormwater Review" online training tool provided by NJDEP at <a href="https://dep.nj.gov/stormwater/stormwater-training/">https://dep.nj.gov/stormwater/stormwater-training/</a>.</i>
<i>Once per term of service thereafter, members of the Loch Arbour Village Planning Board and members of the Loch Arbour Board of Commissioners will review at least one of the NJDEP training tools offered under Post-Construction Stormwater Management found at <a href="https://dep.nj.gov/stormwater/stormwater-training/">https://dep.nj.gov/stormwater/stormwater-training/</a>.</i>

<b>Training Records</b>
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Indicate the location of training records for the above required training.
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<i>Training records for the Loch Arbour Board of Commissioners and the Loch Arbour Planning Board are kept on file in the Village Clerk's office.</i>
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## Form 11 – MS4 Mapping

### Part IV.G.1.

1. Provide a link to the most current MS4 outfall/infrastructure map.	
<p><i>The Loch Arbour Village Stormwater Outfall map is posted on the municipal webpage at: <a href="https://www.locharbournj.us/departments-services/pages/stormwater-management">https://www.locharbournj.us/departments-services/pages/stormwater-management</a>.</i></p>	
2. Indicate the total of each type of MS4 infrastructure listed below (due 01 Jan 2026).	
a. MS4 outfalls	17
b. MS4 ground water discharge points (basins or overland flow infiltration areas)	TBD
c. MS4 interconnections	TBD
d. MS4 storm drain inlets	TBD
e. MS4 manholes	TBD
f. Length of conveyance (channels, pipes, ditches, etc.)	TBD
g. MS4 pump stations	0
h. MS4 stormwater facilities (any that are not listed above)	0
i. Maintenance yard(s) and other ancillary operations	0
3. Describe how the municipality’s outfall/infrastructure map is reviewed and updated to reflect any new or newly identified MS4 infrastructure (e.g., an outfall is closed, a new basin is constructed, ownership of an outfall has changed, etc.).	
<p><i>Before the end of each year, the Village Engineer’s office reviews the current Stormwater Outfall Map for accuracy. Map revisions are made if there are new or newly identified outfalls or any other significant changes.</i></p>	
4. Describe how the municipality will create and update its MS4 Infrastructure Map.	
<p><i>Staff from the Village Engineer’s office will collect GPS points and associated attributes for all Village owned or operated MS4 infrastructure. The data collected will be used to create a Stormwater Infrastructure Map for Loch Arbour Village.</i></p> <p><i>The final Stormwater Infrastructure Map will be submitted electronically to NJDEP as a georeferenced shapefile on or before January 1, 2026. The approved Stormwater Infrastructure Map will be posted on the Village’s stormwater webpage and included as a weblink within the SPPP. The MS4 Infrastructure Map will be reviewed and updated annually or more frequently if necessary.</i></p>	

## Form 12 – Watershed Improvement Plan

### Part IV.H.

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

*Staff from the Village Engineer's office are in the process of collecting the requisite data for the Watershed Inventory Report. The Watershed Inventory Report is Phase 1 of the Watershed Improvement Plan and will be submitted to NJDEP on or before January 1, 2026.*

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

*Loch Arbour is a charter member of the Deal Lake Commission (DLC) and is committed to the DLC's goal of improving water quality in Deal Lake and its tributaries. The DLC has a number of ongoing water quality projects in the Deal Lake watershed that can be viewed under Plans/Projects on the DLC website at <https://deallake.org>.*

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

*All records related to Watershed Improvement Plan public information sessions and meetings will be kept on file in the Village Clerk's office.*