

Description

This SOP outlines procedures for the operation and maintenance of street sweepers, frequency of sweeping, disposal of debris, and recordkeeping to prevent pollution from entering the stormwater sewer systems and was prepared to meet the requirements of the 2016 Massachusetts Small MS4 General Permit (2016 MS4 Permit).

MS4 Permit Requirements

As required by the 2016 MS4 Permit, street sweeping requirements include the following:

- Sweep all streets with curbing in the MS4 regulated area a minimum of once per year in the spring (following winter activities);
- Include more frequent sweeping of targeted areas determined by the permittee based on pollutant load reduction potential, inspections, pollutant loads, catch basin cleaning or inspection results, land use, impaired or TMDL waters, or other relevant factors ***[Lynnfield has waterbodies and tributaries with phosphorus and nitrogen impairments, requiring increased sweeping to twice a year];***
- Report the number of miles cleaned and the volume or mass of material removed in annual reports; and
- Ensure proper storage of street sweepings prior to disposal or reuse such that they do not discharge to receiving waters.

Equipment

The Town contracts with a vendor to sweep streets. All equipment is provided by and maintained by the vendor.

Schedule

- Street sweeping of all Town-owned streets is performed in the spring after snow melt. A second sweeping of select streets (within the Saugus River watershed) is performed in the fall, after leaf fall and until adverse weather conditions occur. Refer to **Figure 1** for an illustrated street sweeping schedule.
- Determine the need for increased sweeping in the Hawkes Brook watershed (see “Street Sweeping TBD” on Figure 1) if excessive sediment is observed on these roadways in comparison to other streets within Town.
- The majority of all street sweeping occurs during normal working hours.
- Events or activities that require special sweeping include public community events and municipal construction projects.

Street Sweeping Procedures

The vendor must report the number of miles and names of roads swept to the Town. An example log for tracking sweeping progress is provided in **Attachment 1**.

Storage and Disposal

Storage

- Sweepings are stored at the DPW Yard in a designated location.
- Protect sweepings from wind and rain to the extent necessary to prevent dust, erosion, and off-site migration.
- Do not store sweepings within the 100-foot buffer zone of a wetland or within wetland resource areas including bordering vegetative wetlands and riverfront areas.
- Do not store sweepings within 500 feet of a ground or surface drinking water supply.
- Use sweepings within one year of collection.
- Remove solid waste such as paper, auto parts and other trash prior to use.

Disposal/Reuse

- Dispose/reuse of sweepings in accordance with the Massachusetts Department of Environmental Protection *Reuse and Disposal of Street Sweepings Policy #BAW-18-001*.

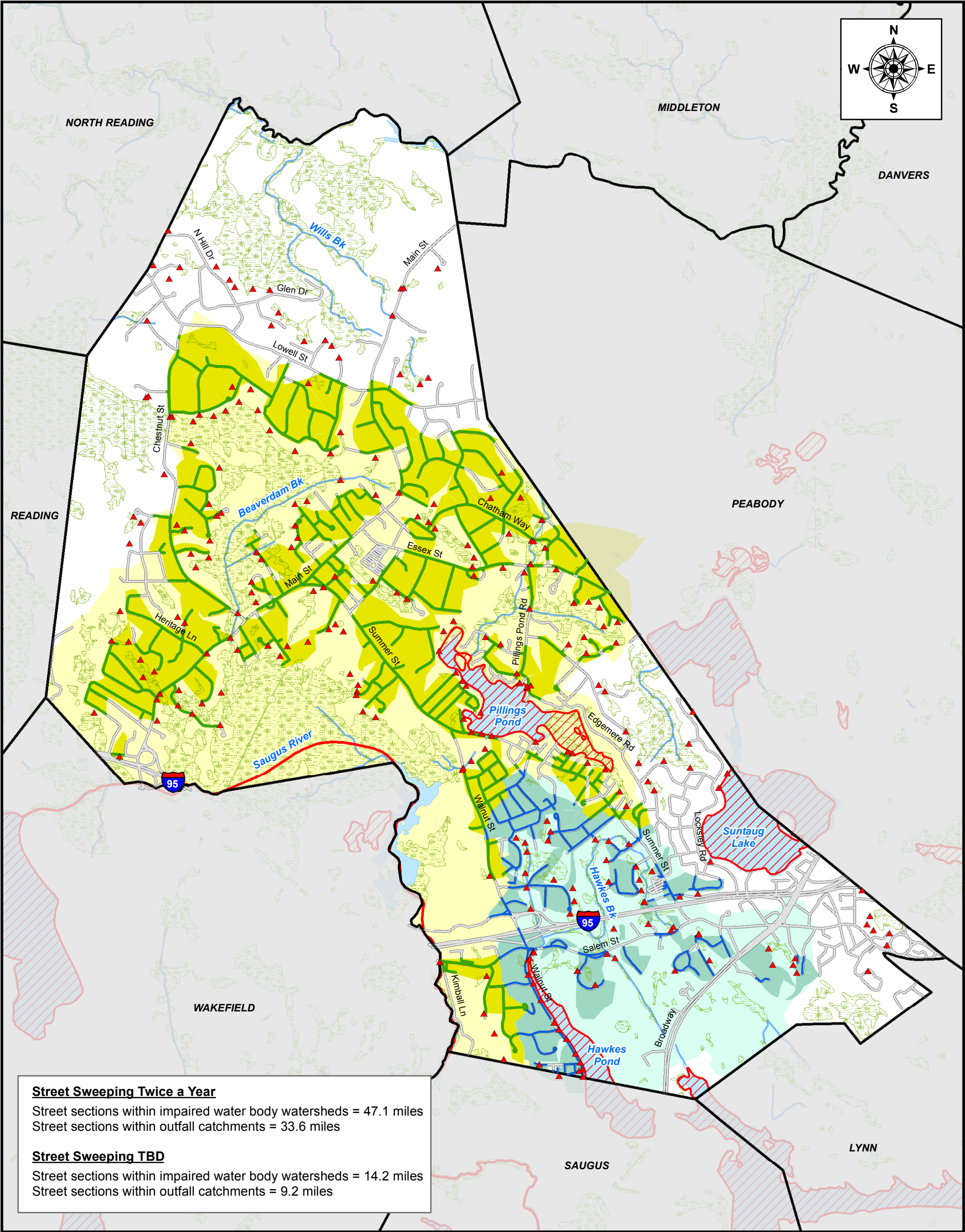
Options include:

- a. Landfill – in accordance with landfill requirements;
- b. Fill in public or private ways and parking lots
 - i. Cannot include sweepings from Urban Center Roads
 - ii. Must be screened to remove debris and solid waste;
 - iii. Must be kept above groundwater levels;
 - iv. Cannot be used in designated “No Salt Areas”;
 - v. Cannot be used within 100-ft buffer zone of a wetland or within 500-ft of a drinking water supply;
 - vi. In public ways, must be used under the paved road surface or, except in residential areas, as fill along the side of the road within the public way;
 - vii. In private roadways or in residential areas, must be used under the paved road surface; and
 - viii. In parking lots, can only be used under the paved parking surface.
- c. Additive to restricted use compost
 - i. Cannot include sweepings from Urban Center Roads
 - ii. Must be screened to remove debris and solid waste;
 - iii. Can only be used along public ways and parking lot areas;
 - iv. Cannot be used in residential areas;
 - v. Must be kept above groundwater levels;
 - vi. Cannot be used in designated “No Salt Areas”;

- vii. Cannot be used within 100-ft buffer zone of a wetland or within 500-ft of a drinking water supply;
- d. Anti-skid material
 - i. Cannot include sweepings from Urban Center Roads
 - ii. Must be screened to remove debris and solid waste;
 - iii. Cannot be used in designated “No Salt Areas”;
 - iv. Cannot be used within 100-ft buffer zone of a wetland or within 500-ft of a drinking water supply;
- e. Reclamation soil facilities regulated under MassDEP Policy #COMM-15-01
- f. Use as a bulking agent for wastewater sludge or septage disposal with written approval from MassDEP Regional Office’s Bureau of Water Resources
- g. Other uses with an approved Beneficial Use Determination (BUD)

Record Keeping

- The number of curb miles swept per season will be calculated annually and submitted in the annual report.



Legend

- | | | |
|--------------------------|-------------------------------------|-----------------------------------|
| ▲ Drainage Outfall | Outfall Catchments | Road in Outfall Catchments |
| 303d Water Bodies | Sweep Twice a Year | Sweep TBD |
| Impaired Lake, Pond | Sweep TBD | Sweep Twice a Year |
| Impaired River, Stream | Impaired Water Body Subbasin | |
| Hydrography | Sweep Twice a Year | |
| Surface Water | Sweep TBD | |
| Wetland | | |
| Stream, Brook | | |

Note: The Town of Lynnfield is entirely within an Urbanized Area (UA) boundary



Figure 1.
Street Sweeping Map
Sweeping per Phase II Requirements

Lynnfield, Massachusetts



Comprehensive Environmental Inc.

Attachment 1. Street Sweeping Log

Street Sweeping Log

Date: _____ **Precipitation in the last three days?** **Yes** **No**

Weather Today: _____

Supervisor/Crew Leader: _____

Street Swept (Name)	Miles	Observed Potential Sources of Pollution		Comments
		<input type="checkbox"/> None	<input type="checkbox"/> Material Storage	
		<input type="checkbox"/> Construction Activity	<input type="checkbox"/> Equipment Storage	
		<input type="checkbox"/> Erosion	<input type="checkbox"/> Other*	
		<input type="checkbox"/> None	<input type="checkbox"/> Material Storage	
		<input type="checkbox"/> Construction Activity	<input type="checkbox"/> Equipment Storage	
		<input type="checkbox"/> Erosion	<input type="checkbox"/> Other*	
		<input type="checkbox"/> None	<input type="checkbox"/> Material Storage	
		<input type="checkbox"/> Construction Activity	<input type="checkbox"/> Equipment Storage	
		<input type="checkbox"/> Erosion	<input type="checkbox"/> Other*	
		<input type="checkbox"/> None	<input type="checkbox"/> Material Storage	
		<input type="checkbox"/> Construction Activity	<input type="checkbox"/> Equipment Storage	
		<input type="checkbox"/> Erosion	<input type="checkbox"/> Other*	
		<input type="checkbox"/> None	<input type="checkbox"/> Material Storage	
		<input type="checkbox"/> Construction Activity	<input type="checkbox"/> Equipment Storage	
		<input type="checkbox"/> Erosion	<input type="checkbox"/> Other*	
		<input type="checkbox"/> None	<input type="checkbox"/> Material Storage	
		<input type="checkbox"/> Construction Activity	<input type="checkbox"/> Equipment Storage	
		<input type="checkbox"/> Erosion	<input type="checkbox"/> Other*	
		<input type="checkbox"/> None	<input type="checkbox"/> Material Storage	
		<input type="checkbox"/> Construction Activity	<input type="checkbox"/> Equipment Storage	
		<input type="checkbox"/> Erosion	<input type="checkbox"/> Other*	
		<input type="checkbox"/> None	<input type="checkbox"/> Material Storage	
		<input type="checkbox"/> Construction Activity	<input type="checkbox"/> Equipment Storage	
		<input type="checkbox"/> Erosion	<input type="checkbox"/> Other*	

Total Sediment Accumulated from Route (estimated based on truck loads): _____ cubic yards

Total Sediment Accumulated from Route (if weighed): _____ tons

* Provide additional comments to describe the observations made for the category. Comments should also identify issues that hinder street sweeping progress (i.e., parked cars, obstructions).