

**MUNICIPAL OPERATIONS AND MAINTENANCE ACTIVITIES**

The MDEQ NPDES Phase II MS4 Discharge Permit Application requires a procedure for assessing the applicant's operation and maintenance activities for the potential to discharge pollutants to surface waters of the state. The assessment shall identify all pollutants that could be discharged from each applicable operation and maintenance activity and the BMPs being implemented or to be implemented to prevent or reduce pollutant runoff.

This inventory will be updated within 30 days as facilities add/remove BMP to address new and existing operation and maintenance activities.

The procedure shall include assessing the following municipal operation and maintenance activities if applicable:

- Road, parking lot, and sidewalk maintenance (e.g., pothole, sidewalk, and curb and gutter repair)
- Bridge maintenance
- Right-of-way maintenance
- Unpaved road maintenance
- Cold weather operations (e.g., plowing, sanding, application of deicing agents, and snow pile disposal)
- Vehicle washing and maintenance of applicant-owned vehicles (e.g., police, fire, school bus, public works)

The City of Essexville is responsible for road, parking lot, some sidewalk maintenance, bridge maintenance, right-of-way maintenance, any unpaved road maintenance, all cold weather operations, and washing and maintenance of city owned vehicles. The City of Essexville has procedural standards for municipal operation and maintenance activities aimed at conducting activities as efficiently and safely as possible while preventing and/or reducing pollutant runoff. Please see Table 1 on the next page for a list of the City of Essexville's Operation and Maintenance Activities, pollutants that could potentially be discharged, the pollution potential and the BMPs implemented to prevent and/or reduce pollutant runoff.

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**Table 1. Municipal Operations and Maintenance Activities**

<b>Municipal Operation and Maintenance Activity</b>	<b>Pollutants that could be Discharged</b>	<b>Pollution Potential (High, Med., Low)</b>	<b>BMPs Implemented to Prevent and/or Reduce Pollutant Runoff</b>
<b>Road, Parking Lot, and Sidewalk Maintenance</b>	Debris and pollutants from the road, sediment, left over materials	Low	Implement part 91 requirements for SESC using County Enforcing Agency & APA
<b>Bridge Maintenance</b>	Debris and pollutants from the road, sediment, left over materials	Low	Implement part 91 requirements for SESC using County Enforcing Agency & APA
<b>Right-of-Way Maintenance</b>	Sediment	Low	Implement part 91 requirements for SESC using County Enforcing Agency & APA
<b>Unpaved Road Maintenance</b>	Sediment	Low	Implement part 91 requirements for SESC using County Enforcing Agency & APA
<b>Cold Weather Operations</b>	Debris and pollutants from the road, sediment, and runoff of deicing agents	Low	Plowing is done as to minimize scrapping of the pavement. Please see the PIPP for additional information concerning runoff of deicing agents.
<b>Vehicle Washing and Maintenance</b>	Detergents and debris from vehicles	Low	City vehicles are washed at City facilities.

The City of Essexville prioritizes the cold weather operations of snow removal of its roads based on the volume of traffic and on a time permitting basis. The highest priority roads for snow removal are state trunk line roads (I 75, M13, M 15, US 10), bridges, major streets (such as Wilder Road, etc.) and emergency routes. Cold weather operations are paved on local roads only when these high priority areas have been completely taken care of.

All of these areas within the city’s jurisdictional boundaries are snow plowed on an as needed basis from the time the snow starts in the fall until the snowfall ceases in the spring (October 1<sup>st</sup>-March). Fully up-to-date equipment capable of completing the work shall be used according to the manufacturers' operating instructions and to protect water quality. Furthermore, there is no designated storage area for the snow that is removed. Snow is pushed to the sides of the roads and disposed of always taking the public's safety as its primary concern.

Rock salt, liquid brine and beet juice are used as road deicers during inclement weather conditions where ice and snow can create unsafe driving conditions. Distribution of the material to the roads is by truck with a calibrated broadcaster mechanism. Procedures are in place to

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minimize the use of the deicers, however public safety is the primary objective in de-icing operations.

Road, bridge, parking lot, sidewalk, right-of-way maintenance, and vehicle washing and maintenance are performed on an as-needed basis. There is no set schedule or priority for these operations.

Updating/revising the prioritization is 30 days following the construction of a new street, parking lot, or other applicant-owned or operated impervious surface, or within 30 days of identifying a need to revise a priority level.

A location map of the local and primary roads that correlate with the priority schedule for cold weather operations of snow plowing and removal within the City of Essexville’s jurisdictional boundary limits can be seen in the storm sewer system map. Please see Table 2, below, for a list of prioritization and frequency of City of Essexville’s cold weather operations of the snow plowing, removal and de-icing schedule.

**Table 2. Street Plowing/Removal and De-icing Priority and Frequency**

<b>Street/Location</b>	<b>Priority Ranking (Low, Medium, High)</b>	<b>Frequency and Timing</b>
<b>None</b>	High	~1 <sup>st</sup> of October-March <i>(Plowed when deemed necessary- on an as needed and time permitting basis.</i>
<b>None</b>	High	~1 <sup>st</sup> of October-March <i>(Plowed when deemed necessary- on an as needed and time permitting basis.</i>
<b>Major Streets (Borton Street, Woodside Ave, Nebobish St. Pine St.)</b>	Medium	~1 <sup>st</sup> of October-March <i>(Plowed when deemed necessary- on an as needed and time permitting basis.</i>
<b>Local Roads and Subdivisions</b>	Low	~1 <sup>st</sup> of October-March <i>(Plowed when deemed necessary- on an as needed and time permitting basis.</i>

**PRIORITIZATION OF SWEEPING**

The City of Essexville prioritizes the sweeping of its roads based on the volume of traffic, aesthetics and the priority listings, found below. Sweeping is performed two times per year.

**MUNICIPAL OPERATIONS AND MAINTENANCE ACTIVITIES****Priority A (High):**

Main Roads travelled along throughout the day.

**Priority B (Medium):**

Areas where commercial activities take place.

**Priority C (Low):**

These areas include residential areas that are medium density or single family homes and have very low traffic.

**Table 3. Street Sweeping Priority and Frequency**

<b>Street/Location</b>	<b>Priority Ranking (Low, Medium, High)</b>	<b>Frequency and Timing</b>
All roads within the City's jurisdictional boundaries.	High	two times per year

**Measurable Goals:**

- Number of complaints received each year.
- Pollutant runoff reduction on a yearly basis.
- Conditions of roads (paved and unpaved), parking lots and sidewalks at the end of each year.