



**SUMMARY OF QUESTIONS AND DISCUSSION**  
**Stormwater Good Housekeeping Workshop Series**  
**Workshop 2 – Municipal Facilities**  
**March 20, 2015, 8-11 am**  
**Emergency Services Building and DPW Yard, Andover, MA**

**Presented by: Anne Kitchell and Gary Hedman, Horsley Witten Group, Inc.**

**Hosted by: Merrimack Valley Stormwater Collaborative**

**Discussion – Andover DPW Yard Field Trip**

<b>Activity</b>	<b>What did you see?</b>	<b>Comments or potential solutions</b>
Vehicle Operations	Most vehicles stored, washed, maintained indoors.	<ul style="list-style-type: none"> <li>Note that wash water is not an allowable stormwater discharge.</li> </ul>
	Indoor washing and floor drains that go to oil/water separator prior to the town sewer system.	<ul style="list-style-type: none"> <li>Ensure trench drain cleanings are disposed of properly</li> <li>Outdoor hoses encourage outdoor washing.</li> </ul>
	Some wash water in water/sewer building appears to discharge under garage doors to outside	<ul style="list-style-type: none"> <li>Consider trench drains at garage entrance</li> </ul>
	Fueling station with spill prevention (signage, cut off switch, double hulled tank, perimeter grooves)	<ul style="list-style-type: none"> <li>Consider covering or installing proprietary treatment device</li> <li>Add drain covers to spill kit</li> </ul>
	Nice job with liquid storage, dry cleanup, and cleanliness of shop floors	<ul style="list-style-type: none"> <li>Use drip pans or other under leaking vehicles to prevent slicks (safety reasons as well as environmental)Get rid of empty drums</li> <li>Do not store drums outdoors (e.g., bar chain oil)</li> </ul>
Outdoor Material Storage	Most salt stored under cover; however, there was salt debris left where trucks dump prior to loading into the salt storage sheds and residential salt pile exposed and adjacent to storm drain	<ul style="list-style-type: none"> <li>Use a bobcat brush to sweep into sheds;</li> <li>Use jersey barriers to better delineate the loading area;</li> <li>Install an overhang/awning that trucks can dump under;</li> <li>Temporary cover or closed container for residential pickup;</li> <li>Relocate away from drain;</li> <li>Buy a small, moveable shed to put salt/sand in for residents that would get pile off the ground.</li> </ul>
	Cold-patch potential source of hydrocarbons and other	<ul style="list-style-type: none"> <li>Don't over purchase material (e.g., cold patch)</li> <li>Store under cover, if possible</li> <li>Don't locate adjacent to storm drain</li> </ul>

Activity	What did you see?	Comments or potential solutions
Loading	Calcium chloride pre-wetting area, leaky valve and cut off valve not easily accessible	<ul style="list-style-type: none"> <li>Close the valve after use. If difficult, consider hard piping up for easier access.</li> </ul>
Waste Management	Electronic solid waste disposal outside (TVs)	<ul style="list-style-type: none"> <li>Want to establish a small transfer station. Get a trailer or structure to house solid waste between pickups.</li> </ul>
	Open dumpsters	<ul style="list-style-type: none"> <li>Close the lid on dumpsters.</li> <li>Do not locate over a storm drain</li> </ul>
Stormwater Management	Downspouts discharging directly into salt transfer area	<ul style="list-style-type: none"> <li>Divert or relocate</li> </ul>
	Run-on from Lewis street through the yard	<ul style="list-style-type: none"> <li>Install catch basin near entrance to reduce surface drainage across site.</li> </ul>
	No stormwater treatment (fueling stations drains to inlet); drains directly to Shawsheen River	<ul style="list-style-type: none"> <li>Stormwater treatment at hotspots is a challenge, often limited to proprietary devices (separators) or temporary inlet guards.</li> </ul>
IDDE	Dry weather flow detected in drain inlets near highway maintenance and parks.	<ul style="list-style-type: none"> <li>Investigate source. There may be a sump pump discharge from parks or water/sewer department building.</li> <li>Groundwater pumping is OK.</li> </ul>

The Andover Yard is doing much of what it needs to be doing to be in compliance with 2014 Draft MS4 permit. It needs to address the following: cover all salt piles, develop a written SWPPP and employee training for the facility, provide written O&M plan for winter deicing operations (this may already be done), and identify potential stormwater retrofit opportunities on site.

## **DISCUSSION – OPPORTUNITIES FOR REGIONAL EFFICIENCIES**

### **1) Question (from Presenters): Are there any opportunities to consolidate efforts, share equipment, or otherwise create efficiencies among the MVPC communities?**

#### **Responses:**

- O&M manual, SWPPP, and other templates: It would be helpful if MVPC could develop these for the region.
- MIMAP online mapping platform developed/hosted at MVPC is an excellent resource for mapping and inventory.
- MVPC can be contracted to help with field investigation and mapping updates.
- Regional agreement with landfills for disposal of catchbasin cleaning and sweeping material
  - Some responded this was a bad idea, but supported the creation of a regional specification in reference to this material
- Central MA Stormwater Collaborative has good templates and procedures.
- Public education that is likely to be required by the new MS4 permit can be accomplished easier through regional templates and regional implementation.
- Regional sharing of IDDE procedures and testing equipment.
- Establishment of regional snow dump facilities.