



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

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

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

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.