Status Update:

SALT TRACKING & REPORTING WORKGROUP

Salt Management Strategy

Stakeholder Advisory Committee

May 29, 2019

Scope of the Workgroup

Discuss and offer recommendations on:

- Salt use tracking
  - ✓ Uniform metrics for data comparability and Region-wide trend analyses

- BMP Tracking
  - ✓ Process for tracking iterative BMP adoption for continuous improvement
  - ✓ Monitoring success of BMPs

- Focused tracking for highest intensity developed areas
- Funding sources to support this effort

Workgroup Focus Areas

Audiences:
- ✓ Public and Private sectors
- ✓ Reporting needs/interests differ: operators to decision-makers

Key Considerations
- ✓ Begin tracking at "coarse" level, move to "refined" metrics in time.
- ✓ Tracking starts with operations, continues with post-storm calculations, and culminates in reporting.
- ✓ Automated equipment can facilitate reporting, including locational info, but most reporting will be done manually at present.
- ✓ Emergency operations impact the ability to attend to non-essential actions, like tracking and reporting.

Workgroup Priority Topics

- Develop metrics to link level of service to BMP effectiveness for:
  - ✓Roads
  - ✓Parking lots, and
  - ✓Sidewalks.

- Focus BMP reporting on
  - ✓Modest set of predefined BMPs
  - ✓Flexibility to report others

- Explore incentives to promote voluntary reporting
  - ✓Private sector: contracts, certification, and liability relief
  - ✓Public sector: operational improvements, cost effectiveness, certifications, and future reporting needs

Action Items:

- Assess metrics currently used and information available to support reporting (Fairfax City, VDOT and Fairfax County)
  - ✓ Size of operation, storm event, equipment are factors that affect ability to track and report

- HOA and Citizens Associations contracting and best practices outreach (D.Lincoln and M.Pierce)
  - ✓ Focus on large land/building owners

- Salt Use by Contractors
  - ✓ Almost all use bagged salt, don't have access to bulk supplies
  - ✓ Access to (public) bulk salt could provide cost savings , and enable better reporting of salt use by contractors

Action Items (cont.):

- Develop example reporting forms for discussion (DEQ)
    - ✓ Feedback during 2nd Workgroup Meeting
    - ✓ Revised approach framed with a Tier 1, 2, and 3 conceptual matrix
    - ✓ Need a baseline to evaluate implementation and effectiveness of BMPs

- Identify Reporting Incentives
    - ✓ This will be a focus during 3rd Workgroup meeting
    - ✓ Public and Private sector incentives warrant separate consideration

- Identify/Address Barriers and Opportunities to Adopt BMPs
    - ✓ Recommend organizations identify factors that impede or facilitate BMP use and ways to address them
    - ✓ Close coordination with Traditional BMP workgroup needed

Recommendations & Products

- Matrix to guide tracking/reporting efforts
  - ✓ Tier 1 (Coarse) to Tier 3 (Fine/Detailed) Example Forms
  - ✓ 6 key categories

Category	Level of Tracking Detail		
	Tier 1 (Coarse)	Tier 2 (Middle)	Tier 3 (Fine)
Product Use	Total amount **per winter season** applied (measured or	Total amount **per storm event** applied (measured or	Amount **per storm**, by **equipment** used for each
Weather Events Summary	At end of the season, summarize **winter weather using available online information**. Reporter also notes **number** of times operations were **mobilized**, including **dates** of first and final storm mobilization.	Summarize **each winter storm event** for which operations were mobilized, using **available online information**. Reporter notes the start and end date/time of each storm operation.	Summarize each storm event for which operations were mobilized, along with **operation-specific conditions**, such as detected pavement temperatures. Where operations occur over wide area, report **weather specific to geographic** operations **areas**.
Evaluate Effectiveness in achieving LOS and efficiently using salt	**Evaluate operations** and **identify impediments** to use of BMPs and ways to address them on an **annual basis**, and identify **actions to improve** operations.	Evaluate operations and identify impediments to use of BMPs and ways to address them on an **individual storm basis**, and identify actions to improve subsequent operations.	Evaluate operations and identify impediments to use of BMPs and ways to address them on a **shift or equipment basis**, and identify actions to improve subsequent operations.

Recommendations & Products

- Matrix to guide tracking/reporting efforts
  - ✓ Tier 1 (Coarse) to Tier 3 (Fine/Detailed) Example Forms
  - ✓ 6 key categories

- Salt product use reporting
  - ✓ List primary products used; solids and liquids
  - ✓ Document use annually (Tier 1), by Storm (Tier 2) or more precisely (Tier 3)

- BMP Tracking
  - ✓ Document use of BMPs (Tier1) and extent/location (Tier 3)
  - ✓ Success of BMPs is relative to Level of Service (LOS) goals

- Reporting Incentives
  - ✓ Private sector: contracts, certification, and relief
  - ✓ Public sector: operational improvements and future reporting needs