Appendix G

Municipal Operations and Maintenance Activities

EPA's Stormwater Pollution Prevention Webinar Series:

Road Salt Pollution Prevention Strategies

Date: Thursday, January 31, 2013

Time: 1:00 pm - 3:00 pm Eastern Daylight Time

Session Description:

EPA's Stormwater Pollution Prevention Webinar Series will highlight efforts to reduce pollutants in stormwater through controlling pollutants at their sources.

This webinar in EPA's Stormwater Pollution Prevention Webinar Series will cover the topic of road salt. The application and storage of deicing materials, most commonly salts such as sodium chloride, can lead to water quality problems for surrounding areas. The webinar will present information on the impacts of road salt on the environment, implementation of TMDLs involving road salt, successful reduction strategies used by states, and possible groundwater impacts. The webinar will cover actions taken to address road salt by Minnesota and New Hampshire as well as an EPA study on potential groundwater impacts.

Presentations:

Road Salt TMDLs and Road Salt Reduction Strategies in New Hampshire.
Philip Trowbridge and Eric Williams, New Hampshire Department of Environmental Services.

Road Salt Transport at Two Municipal Wellfields in Wilmington, Massachusetts.
Doug Heath, EPA Region 1.

Sharing the Road with the Environment.
Brooke Asleson, Minnesota Pollution Control Agency, Mark Fischbach and Kathleen Schaefer, Minnesota Department of Transportation.

Registration:

You must register in advance to attend this webinar. Register at this link: https://www1.gotomeeting.com/register/737196081

Disability Accommodations:

Contact Erika Farris at farris.erika@epa.gov if captioning accommodations are needed for the webinar.

Upcoming Pollution Prevention Webinars:

Future Pollution Prevention webinar topics will include copper from car brake pads, consumer use of fertilizers and pesticides, and heavy metals from reflective highway markings.

For past webinars please visit the NPDES website at www.epa.gov/npdes/training

Thank you for Attending!

EPA Webinar on Winter Road Care Pollution Prevention

(January 31, 2013)

PLEASE SIGN IN

	Name (Please Print)	Department/Affiliation	Sign-in or Initial
1	Wendy Edde	City - SW	WE
2	[illegible]	Publicworks Sect	[illegible]
3	Daniel Burton	City Storm	[illegible]
4	Hardy Hanson	COB Streets	[illegible]
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			

Transportation Demand Management (2012 First Quarter)											
July-12	260	5			17	25	335		21		**663**
August-12	273				16	19	334		11		**653**
September-12	194	7			17	2	236		4		**460**
TOTAL	**727**	**12**	**0**	**0**	**50**	**46**	**905**	**0**	**36**	**0**	**1776**
Modal split	3%	0%	0%	0%	0%	0%	3%	0%	0%	0%	6%
Vehicle trips	363.5	4	0	0	0	0	0	0	0	0	**367.5**

Per trip/qu	28458
Per trip/qu	227664
SOV trips	26682
Total V trips	27049.5
Total VMT	216396
Miles saved	11268
AVO	1.01
AVR	1.05

Modal split = total for each mode / person trips
Vehicle trips = total for each mode / number of people in vehicle
Person trips = (regular full-time employees + regular part-time employees) - 10% absent / day - update quarterly
Max. VMT = person trips X 8
SOV trips = person trips - total trips by alternate modes
Total V trips = SOV + total vehicle trips for each mode
Total VMT = total V trips X 8
Miles saved = max. VMT - total VMT
AVO = total persons in private vehicles / total private vehicle trips = (total carpool trips + SOV trips) / total V trips)
AVR = total persons traveling / total private vehicle trips = person trips / total V trips

Transportation Demand Management (2012 Second Quarter)											
Month	**C-2**	**C-3**	**C-4**	**C-5**	**Dropped off**	**Walk**	**Bicycle**	**DAR**	**Transit**	**Other**	**TOTAL**
October-12	308	27			30	12	186				**563**
November-12	340	19	33	52	96						**540**
December-12	287	25			30	52	34				**428**
TOTAL	**935**	**71**	**33**	**52**	**156**	**64**	**220**	**0**	**0**	**0**	**1531**
Modal split	3%	0%	0%	0%	1%	0%	1%	0%	0%	0%	5%
Vehicle trips	467.5	23.66667	8.25	10.4	0	0	0	0	0	0	**509.81667**

Per trip/qu	28458
Max. VMT	227664
SOV trips	26927
Total V trips	27436.82
Total VMT	219494.5
Miles saved	8169.467
AVO	1.02
AVR	1.04

Modal split = total for each mode / person trips
Vehicle trips = total for each mode / number of people in vehicle
Person trips = (regular full-time employees + regular part-time employees) - 10% absent / day - update quarterly
Max. VMT = person trips X 8
SOV trips = person trips - total trips by alternate modes
Total V trips = SOV + total vehicle trips for each mode
Total VMT = total V trips X 8
Miles saved = max. VMT - total VMT
AVO = total persons in private vehicles / total private vehicle trips = (total carpool trips + SOV trips) / total V trips)
AVR = total persons traveling / total private vehicle trips = person trips / total V trips

Transportation Demand Management (2013 Third Quarter)											
January-13	293	20			37	44	82				**476**
February-13	264	11			28	49	97				**449**
March-13	274	24			42	60	90				**490**
TOTAL	**831**	**55**	**0**	**0**	**107**	**153**	**269**	**0**	**0**	**0**	**1415**
Modal split	3%	0%	0%	0%	0%	1%	1%	0%	0%	0%	5%
Vehicle trips	415.5	18.33333	0	0	0	0	0	0	0	0	**433.83333**

Per trip/qu	28458
Per trip/qu	227664
SOV trips	27043
Total V trips	27476.83
Total VMT	219814.7
Miles saved	7849.333
AVO	1.02
AVR	1.04

Modal split = total for each mode / person trips
Vehicle trips = total for each mode / number of people in vehicle
Person trips = (regular full-time employees + regular part-time employees) - 10% absent / day - update quarterly
Max. VMT = person trips X 8
SOV trips = person trips - total trips by alternate modes
Total V trips = SOV + total vehicle trips for each mode
Total VMT = total V trips X 8
Miles saved = max. VMT - total VMT
AVO = total persons in private vehicles / total private vehicle trips = (total carpool trips + SOV trips) / total V trips)
AVR = total persons traveling / total private vehicle trips = person trips / total V trips

Transportation Demand Management (2013 Fourth Quarter)											
April-13	315	34			44	43	205				**641**
May-13	267	47			40	24	280				**658**
June-13	204	26			36	6	272				**544**
TOTAL	**786**	**107**	**0**	**0**	**120**	**73**	**757**	**0**	**0**	**0**	**1843**
Modal split	3%	0%	0%	0%	0%	0%	3%	0%	0%	0%	6%
Vehicle trips	393	35.66667	0	0	0	0	0	0	0	0	**428.666667**

Per trip/qu	28458
Per trip/qu	227664
SOV trips	26615
Total V trips	27043.67
Total VMT	216349.3
Miles saved	11314.67
AVO	1.02
AVR	1.05

Modal split = total for each mode / person trips
Vehicle trips = total for each mode / number of people in vehicle
Person trips = (regular full-time employees + regular part-time employees) - 10% absent / day - update quarterly
Max. VMT = person trips X 8
SOV trips = person trips - total trips by alternate modes
Total V trips = SOV + total vehicle trips for each mode
Total VMT = total V trips X 8
Miles saved = max. VMT - total VMT
AVO = total persons in private vehicles / total private vehicle trips = (total carpool trips + SOV trips) / total V trips)
AVR = total persons traveling / total private vehicle trips = person trips / total V trips