



Road Salts

Annual Report Form

Winter 2004-2005

Reporting information for the period of September 1st, 2004 to May 31st, 2005

Purpose:

The purpose of this form is to provide information required in Annex C of the Code of Practice for the Environmental Management of Road Salts. It will be used to help monitor and measure progress in road salt management, the implementation of best management practices with respect to road salt, and the concentration of road salt in the environment. Information reported will be used in conjunction with additional data (winter severity weather data, environmental monitoring data, cases studies, water quality monitoring programs, and road safety data) to determine the extent and success of implementation of the Code of Practice.

You may submit the report:

- 1- via mail:
Minister of the Environment
C/O Director, Chemicals Control Branch
Environment Canada
Place Vincent Massey
351 St. Joseph Blvd., 12th Floor
Gatineau QC K1A 0H3
- 2- via fax: 1-(888)-391-3695
- 3- via e-mail: roadsalts@ec.gc.ca
- 4- on-line at: www.ec.gc.ca/nopp/roadsalt

Deadline: June 30, 2005



Annual Report Form

1. Background Information

Organization
Name:
Street Address:
Mailing Address (if different from street address):
Population (municipality only):
Technical Contact (name and title):
Phone Number (including area code):
Fax (if available):
E-mail (if available):

Salt Management Plan

Does your organization have a salt management plan: Yes No

Date salt management plan was approved by Council: _____

Most recent date salt management plan was revised (if applicable): _____

Additional information:

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Road Length Serviced

Total length of road on which salt is applied in your jurisdiction, reported in two-lane equivalent (centre line) _____

Total length of sidewalks on which salt is applied in your jurisdiction, reported in kilometre: _____

Describe any additional information on your total length of road on which your organization applies salt or any modifications to your level of service (LOS):

Winter Severity

Rate the severity of the winter compared with "normal" conditions for your area, according to your perspective (check one):

Below Average

Average

Above Average

Municipal Organizations Only: Total number of events¹ averaged over all districts within the organization's jurisdiction requiring salt application for winter road maintenance from September 1st, 2004 to May 31st, 2005: _____

Note: Additional information on the snowfall, number of days with freezing rain and average temperature may be collected by Environment Canada from the Meteorological Services of Canada to further explain the severity of the winter in various geographical areas across Canada.

Additional information:

¹ **Event** is a weather condition affecting roads such as snowfall, wind blown snow, sleet, freezing rain, frost, black ice, etc to which an application of road salts is required.



Materials Used

Provide the total quantity and concentration of road salts found in all materials used (including abrasives) for winter road maintenance, for the period of September 1st, 2004 to May 31, 2005.

Quantity and Concentration			
Material	Solids	Liquids	
	Tonnes	Litres	Concentration (average) % wt NaCl
NaCl			
CaCl ₂			
MgCl ₂	N/A		
Other chloride materials (e.g. sand/salt mix ratio and range)			

Describe any non-chloride materials and the quantities used (e.g. corn residue, CMA, etc.) for winter road maintenance:

3. Material Storage

Does your organization have a “good housekeeping”² policy: Yes No

Provide the organization’s long term objectives, as indicated in your salt management plan, for implementing best management practices related to material storage, as well as the state of implementation as of May 31, 2005.

² « good housekeeping » means the prevention or control of releases from existing and new sites. In pursuing this objective, the following practices should be considered: coverage of salt piles and blended salt-sand piles, handling practices that avoid uncontrolled releases, drainage management, wash water collection and treatment, training of personnel, and monitoring of the effectiveness of the facility.



Practice	Current	Long term objective
Quantity of salt covered by a permanent roof	%	%
Quantity of salt stored on an impermeable surface	%	%
Quantity of abrasives covered	%	%
Sites with run-off collection and/or management system(s)	%	%
Other (specify):	%	%

Add any additional practices and related objectives identified in the organization's salt management plan, as applicable.

4. Winter Road Maintenance Equipment and Road Salt Application Practices

Provide the organization's long term objective, as indicated in your salt management plan, for implementing best management practices related to winter road maintenance equipment and application practices, as well as the state of implementation as of May 31, 2005.



Practice	Current	Long term objective
Fleet equipped with*		
- electronic spreader controllers	%	%
- pre-wetting equipment	%	%
- direct liquid application	%	%
- infrared thermometers	%	%
* a piece of equipment could be listed more than once		
Number of Road Weather Information System (RWIS) installations (owned)		
Other (i.e. sidewalk equipment with de-icing capability)		
Other (specify):		

Add any additional practices and related objectives identified in the organization's salt management plan, as applicable.

Does the organization regularly calibrate its equipment: Yes No

Number of times the organization calibrated its equipment last year: _____

Describe any additional practices related to the calibration of your organization's equipment.



5. Snow Disposal

Does your organization have snow disposal guidelines: Yes No

Provide your organization’s objective, as indicated in the salt management plan, for implementing best management practices related to snow disposal, as well as the state of implementation as of May 31, 2005.

Practice	Current	Objective
Sites with runoff collection and/or management system(s)	%	%
Methods of disposal (i.e. snow melters)	%	%
Other (specify):	%	%
Other (specify):	%	%

Add any additional practices and related objectives identified in the organization’s salt management plan, as applicable:

6. Winter Road Maintenance Training

Does your organization have an internal winter road maintenance training program or utilize an outside training program (e.g. TAC, OGRA):

Yes Specify: _____ No

Provide your organization’s objective, as indicated in the salt management plan for percentage of winter road maintenance personnel trained with regard to salt management:



Provide the percentage of winter road maintenance personnel trained in the last year:
_____ %

Provide the total number of winter road maintenance personnel trained as of May 31, 2005: _____ %

7. Areas Vulnerable to Road Salts

Has your organization completed an inventory of areas vulnerable³ to road salts:

Yes No

Has your organization identified/designated areas vulnerable to road salts:

Yes How many? _____ No

If yes, has your organization used specific BMPs near these areas? Yes No

Describe any additional salt management practices taken in identified vulnerable areas:

8. Environmental Monitoring

Does your organization have a road salts environmental monitoring program:

Yes No

If no, does your organisation plan to introduce or implement a road salt environmental monitoring program in the future: Yes, when _____ No

Describe any environmental monitoring done related to road salts (i.e. water analysis, impact on vegetation or soil testing).

³ See Annex B of the Code of Practice for more information.



9. Comments

Provide any additional comments:

(print name)

(date)

(signature)

**Environment Canada thanks you for submitting your annual report.
Your collaboration is appreciated.**