ROAD SALT& PACIFIC SALMON SUCCESS PROJECT





We want to acknowledge the contributions of funders, collaborators, and especially the stream steward volunteers for their contributions in support of this project.

This project was born out of community concern for local salmon populations, and continues to be supported by innumerable volunteer hours contributed by passionate and dedicated community members.

This research project is carried out on the traditional, ancestral, and unceded territory of the xwməθkwəyəm (Musqueam), səlilwəta? (Tsleil-Waututh), kwikwəλəm (Kwikwetlem), and Skwxwú7mesh Úxwumixw (Squamish) Nations.





Illustrations by Rush Dhillon & Clare Kilgour

ABOUT THE PROJECT

The Road Salt and Pacific Salmon Success Project is investigating the effects that road salt may have on streams across the Vancouver Lower Mainland. Collaboratively with 13 stream stewardship groups, the University of British Columbia (UBC), Simon Fraser University (SFU), the British Columbia Institute of Technology (BCIT), and Fisheries and Oceans Canada (DFO), researchers and volunteers are exploring the impact of road salt on the development and physiology of coho and chum salmon, and on the benthic invertebrates they eat.

OUR GOAL

Our goal is to determine the impact of road salt on aquatic ecosystems, with a particular focus on salmon, and the benthic invertebrate community that supports them. We strive to raise public awareness about the effects of road salt use, and improve application practices.

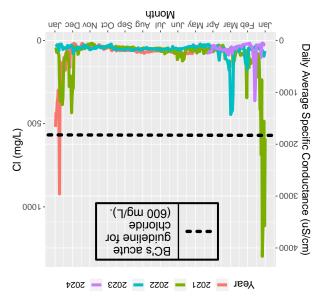
DEELIMINARY FINDINGS

WHAT CAN YOU DO?

HOM BIG IS THE PROBLEM?

eggs may face pulses of road salt, means that freshly spawned salmon freshwater streams to spawn. This migrate from the ocean, into populations, as this is when adults important period for salmon the winter. The winter season is an byenomenal amounts throughout way off of roads and into streams in suggests that road salt is making its across the Lower Mainland collected from nearly 30 loggers across Canada. Environmental data and its use is increasing annually Lower Mainland streets each winter, are dispensed onto Vancouver Mearly 6,000 tonnes of road salt

province's acute guideline for chloride. sometimes as high as 10x the



To help reduce the impacts of than salt. compounds and contaminants other salting are more likely to contain consumer salts used for private can contribute. Additionally, the companies and community members salting. However, salting by private to local streams is large-scale road The primary contributor of road salt

bersonal salting practices, you can:

100% salt. Look for salt products that are

meter. apply ~ 1 handful per square 2) If using rock salt (NaCl), only

winter. the spring and reused the next alternatives can be swept up in other grit products. Often these -10°C, consider using sand or 3) If air temperatures are below

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feel free to reach out to: comments about the project, please If you have any questions or





https://theroadsaltproject.com

more into! code or go to the link below for ongoing experiments. Scan the QR regularly upload results from our We have a website where we

STAY IN THE LOOP!

in streams. concentrations regularly observed salmon) are sensitive to salt

Benthic invertebrates (food for baby

differently to high salt exposures. Different families of coho respond

salt right after fertilization. most sensitive to the effects of road Coho salmon and rainbow trout are