



P.O. Box 278
Riverdale, MD 20738

Committee: Environment & Transportation

Testimony on: HB216 “Environment – Salt Applicator Certification Program – Establishment”

Position: Support

Hearing Date: February 8, 2023

The Maryland Chapter of the Sierra Club strongly supports HB216, which would establish a Smart Salt Certification program that requires commercial applicators to take a course on the efficient application of salt or salt alternatives. The bill would give the Maryland Department of the Environment (MDE) two years to implement the program and would require commercial applicators be certified by October 1, 2025. Commercial applicators would be required to take a short course to be certified, maintain records of salt application for the past three years, and submit an annual report on salt use to the MDE.

While the application of salt serves a necessary safety purpose during a winter weather event, excessive salt has detrimental impacts on equipment and structures, public health, and the health of our natural waterways. Salt is corrosive to pipes, bridges, buildings, and cars. Salt corrodes building foundations and degrades historical structures. As a car travels down a salted roadway, the undercarriage becomes coated with salty water which causes corrosion in the working metal parts of the suspension, drive train, and brake system.

Corrosion in pipes that carry drinking water is a public health risk in two ways. First, the salt can cause damage to the pipes themselves. Secondly, the salt itself is a health risk at high levels. Salt is not removed by municipal wastewater treatment systems. Rising salt levels in our streams and rivers then affect our water supply and are a serious concern for people who are on an extremely low sodium diet. Reverse osmosis systems remove can remove salt when installed in a household setting but are far too expensive to implement on the scale of a wastewater treatment plant.

In addition, salt does not break down in the environment. Salt applied to our roadways is washed into our streams and eventually into the Chesapeake Bay. Increasing salt levels threaten the health of our natural waterways. Plants, animals, fish, and aquatic insects are affected by increasing salt levels. When a large amount of salt is washed into a stream, it has been known to cause fish kills. By changing the stream salinity, the types of species that can survive will also change. Once dissolved, salt ions can dissolve toxic metals and carry them into the waterways where they threaten wildlife survival.¹ These changes could be serious for threatened and endangered aquatic species.

¹ <https://www.weforum.org/agenda/2019/02/freshwater-is-becoming-saltier-and-it-s-bad-for-the-planet-and-our-health/>

While currently there is no economically viable alternative to the application of salt for deicing roadways, we can reduce the amounts used. This program would have a high return for our environment, our public health, and the resilience of our building, roadway, and pipe infrastructures. We urge a favorable report.

Carolyn Parsa
Chair, Natural Places Legislative Workgroup
Carolyn.Parsa@MDSierra.org

Josh Tulkin
Chapter Director
Josh.Tulkin@MDSierra.org