

Name _____

Student ID _____

Date _____

Salt Water in Streams

Watch the video on salt pollution in streams in Rochester, MN.

1. When does most of the damage to lakes and rivers from salt pollution occur?

2. What does salt contain? Why is that a problem?

3. How can we get rid of salt that is in water?

4. What are some alternatives to using road salt?

5. Describe your prediction of what will happen to the eggplant after your teacher applies salt to it.

6. Use the CASE STUDIES provided by your teacher to complete the chart that follows. *Case studies courtesy of the Ecology Disrupted project at CUNY & AMNH.*

	Shade in the levels of salt (mg/L) that negatively affect wildlife in this ecosystem? (note: some systems may not require shading)	List at least two organisms that live in this ecosystem.	How will changing salt levels (too much or too little) affect the listed organisms that live in this ecosystem?
FOREST	<div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">0-67.5</div> <div style="margin: 5px 10px;">67.6-100</div> <div style="margin: 5px 10px;">101-226</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">227-250</div> <div style="margin: 5px 10px;">251-400</div> <div style="margin: 5px 10px;">401-1,000</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">1,001-3,000</div> <div style="margin: 5px 10px;">3,001-30,000</div> <div style="margin: 5px 10px;">30,000+</div> </div>		
ESTUARY	<div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">0-67.5</div> <div style="margin: 5px 10px;">67.6-100</div> <div style="margin: 5px 10px;">101-226</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">227-250</div> <div style="margin: 5px 10px;">251-400</div> <div style="margin: 5px 10px;">401-1,000</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">1,001-3,000</div> <div style="margin: 5px 10px;">3,001-30,000</div> <div style="margin: 5px 10px;">30,000+</div> </div>		
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FRESH-WATER	<div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">0-67.5</div> <div style="margin: 5px 10px;">67.6-100</div> <div style="margin: 5px 10px;">101-226</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">227-250</div> <div style="margin: 5px 10px;">251-400</div> <div style="margin: 5px 10px;">401-1,000</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 5px;"></div> <div style="margin: 5px 10px;">1,001-3,000</div> <div style="margin: 5px 10px;">3,001-30,000</div> <div style="margin: 5px 10px;">30,000+</div> </div>		

7. Using evidence from the case studies, explain whether you agree or disagree with this claim: “Salt isn’t the problem for ecosystems; the problem is changing the amount of salt in an ecosystem.”

8. List three ways that salt can negatively affect organisms in an ecosystem.

A. _____

B. _____

C. _____

9. Look at the eggplant that your teacher salted. Describe what has happened to it. Explain why you think this happened.
