

# Green Chemistry: Road Deicers Worksheet

## Data

	Petri dish 1 (10%)	Petri dish 2 (1.0%)	Petri dish 3 (0.1%)	Petri dish 4 (0.01%)	Petri dish 5 (0.001%)	Petri dish 6 (0.0001%)	Control
# of seeds germinated (count)							
as a percentage							

	Petri dish 1 (10%)	Petri dish 2 (1.0%)	Petri dish 3 (0.1%)	Petri dish 4 (0.01%)	Petri dish 5 (0.001%)	Petri dish 6 (0.0001%)	Control
Mean root length							

## Post-Lab Questions

1. Based on your data do ionic compounds appear to be a green option for use as road deicers? Explain.
2. Based on the results of this experiment would you feel comfortable using ecotoxicity data to estimate human toxicology data? That is, would you feel comfortable ingesting a chemical that did not prevent germination and growth in a vast majority of lettuce seeds? Explain.