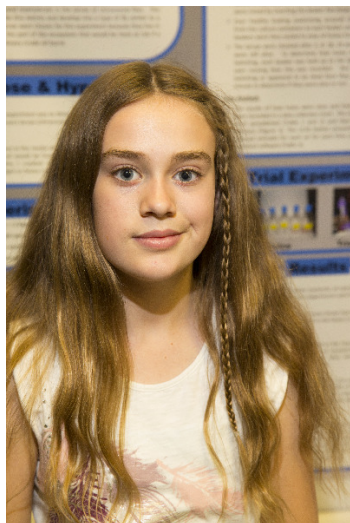


CWSF 2014 - Windsor, Ontario



Jessica Bohm

How Crude is Your Oil? Comparing the Toxicity of Light and Heavy Crude Oil

Challenge: Environment

Category: Junior

Region: Bay Area

City: Dundas, ON

School: St. Augustine E.S.

Abstract: This project examined whether pipelines that transport heavy crude pose a greater risk to the environment than pipelines that transport light crude. Simulated oil spills with heavy crude killed more insect larvae than those with light crude. However, because both oils were toxic, regardless of what type of oil pipelines transport, if they burst it will negatively impact animals in the area of the spill.

Biography

My name is Jessica Bohm and I am in Grade 7. I enjoy a number of sports including waterpolo, basketball, and flag football. I am a member of my school's Eco-team and I like to babysit my cousins and spending time with young children. I have been helping out in the Kindergarten class every lunch and recess for the past two years. My inspiration for this project came from my interest in the aquatic environment. I spend my summers on Lake Huron and I like to collect aquatic animals such as crayfish and insect larvae from the lake and nearby ponds to observe them. I chose this project on oil pipelines because I am concerned about the impact of human activities on the natural environment. If I were to do a follow up project on this topic I would like to study the corrosiveness of the two types of oils I experimented with because I am curious if heavy crude oil would eat through the pipes faster and increase the chances of an oil spill. I am interested in studying environmental toxicology and may pursue a career in that area, but I am also very interested in math and architecture.

Awards

Value

Excellence Award - Junior - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100