

CWSF 2015 - Fredericton, New Brunswick



Aiman Naeem

Investigating Reclamation Potential of Native Plants

Challenge: Environment

Category: Senior

Region: Wood Buffalo

City: Fort McMurray, AB

School: Westwood Community High School

Abstract: This project focuses on the effective reclamation of sites with heavy-metal contaminated soil, through the use of native plants. Four native species were grown in soil at three different copper-sulfate solution concentrations over the course of six weeks. A total of twelve treatments with six replicates each were observed for germination, growth rates and biomass to produce results that displayed reclamation potential.

Biography

Hi - I'm Aiman! I currently attend Westwood Community High School (Fort McMurray, AB) as an AP student in grade 11. I have received Honors with Distinction awards consecutively thus far in my school career. I am actively involved in Student Council as event coordinator, and I'm an avid volunteer in my community. I really enjoy reading and writing poetry in my spare time, and have a passion for art. At the regional fair, I received the Golder Associates Environmental Science Award and the Total E & P Earth Sciences Award. During a short road-trip, I happened to visit a bison paddock and reclamation site. That is where I was inspired to do a project that addresses the issue of cost-efficient and time-efficient reclamation, by analyzing the potential of native plants. Further directions for my experiment could include the usage of different contaminants/substitutes and an increased variety of plant species.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000