

CWSF 2011 - Toronto, Ontario



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Differential Toxicity of the Three Lower Mainlands' Treated Effluent on Water

Challenge: Environment

Category: Intermediate

Region: Greater Vancouver

City: Vancouver, BC

School: Vancouver Technical Secondary

Abstract: In Vancouver, there are five main water sewage treatment plants. This study aims to determine the acute toxicity of the three bodies of water feeding from three water treatment plants: Lion's Gate, Lulu Island and Iona Island. The study utilized 24- and 48-hour static acute lethality test on *D. magna*. Samples from Iona Island showed the most toxicity and lack of effect from Lion's Gate.

Biographies

Tophy - I am 16 years old and currently attending at a French Immersion Program in grade 10 at Vancouver Technical Secondary School. I am currently working on the Duke Of Edinburgh silver award and on the Principal's list. I enjoy playing club soccer and volleyball. I have been participating in the Greater Vancouver Regional Science Fair since grade 8 and this will be my first Canada wide Science Fair. In addition, my hobbies are reading, individual research according to my interest, sports, piano and keeping a social life as well. My plans for the future are the become a successful Pediatric Oncologist.

Matthew - I was born and raised in an interesting ethnic area of Vancouver, BC, where I live with my parents and a sister. I attend my neighbourhood public high school where I participate in many activities, from Science Fairs (3) and music, to most school sports. I also play soccer and volleyball at the club level in Vancouver, and I hope to be able to continue to play at the post secondary level. My post secondary plans at this time include either medicine or engineering.