

# CWSF 2016 - Montreal, Quebec



## Meaghan MacKenzie

### Myriophyllum spicatum: A Threat To Habitat Biodiversity? An Invasive Species PI

**Challenge:** Environment

**Category:** Senior

**Region:** South Fraser

**City:** Delta, BC

**School:** Southpointe Academy

**Abstract:** Eurasian watermilfoil (EWM) is an aggressive, aquatic invasive plant that can disrupt natural ecological processes and habitats. Containing, eradicating and controlling EWM would protect the biodiversity of Delta's waterways. My project included mapping of EWM sites, water quality testing, sampling, 10-week aquarium studies, and a field study using a geotextile benthic barrier as a control measure to eradicate and prevent re-establishment and spread of EWM.

#### Biography

My name is Meaghan MacKenzie and I am a grade eleven student at Southpointe Academy in Tsawwassen, BC. I was introduced to science fair when I was in grade seven at my school and over the years it has helped me explore ideas, problem solve and become a more confident speaker and presenter. Science fair has enriched my learning and allowed me to look beyond the classroom as well as influenced my career goals. I love choosing projects in the environmental field because I hope make a difference in the lives of people and the world we live in. Other than science fair, I am involved in debate, student council, and many sports including rowing, volleyball, running and swimming. In my free time, I love to take my dog for runs. I would encourage anyone to get involved with science fair because the learning process is invaluable, and the creative and critical thinking skills you develop are skills you will have for a lifetime!

#### Awards

#### Value

Canadian Stockholm Junior Water Prize - Senior Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Jacobs	\$300
Challenge Award - Environment - Senior Sponsor: Youth Science Canada	
Excellence Award - Senior - Gold Medal Sponsor: Youth Science Canada	\$250
Dalhousie University Faculty of Science Entrance Scholarship Senior Gold Medallist - \$5000 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$5 000
UBC Science (Vancouver) Entrance Award Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$4 000
University of Manitoba Entrance Scholarship Senior Gold Medallist - \$5000 Entrance Scholarship Sponsor: University of Manitoba	\$5 000
University of Ottawa Entrance Scholarship Senior Gold Medallist - \$4,000 Entrance Scholarship Sponsor: University of Ottawa	\$4 000
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$22 550</b>