

## CWSF 2010 - Peterborough, Ontario



### Charlee McLaughlin-Ventnor

#### Hard Water Headaches: Softening Solutions

**Division:** Physical & Mathematical Sciences

**Category:** Intermediate

**Region:** Western Manitoba

**City:** Brandon, MB

**School:** Crocus Plains Regional Secondary

**Abstract:** What type of softening product most efficiently and effectively softens controlled samples of hard water? My project explores the many headaches of hard water and the softening solutions. Early morning water samples were drawn directly from the well and equal amounts of softening agents were added. The mixtures were left for equal amounts of time and then tested for the water hardness level.

#### Biography

I'm a 15 year old girl in grade 10 at Crocus Plains High School in Brandon Manitoba. I'm an honour roll student and my favorite subjects are math & science. I play clarinet in the Brandon Community Band program. My musical interests also include taking private lessons in electric & acoustic guitar and drums. I'm very active and enjoy participating in the school sports teams of volleyball & badminton. I'm very artistic and love drawing, arts & crafts, sewing, woodworking, and photography. I'm very fortunate to have a home in the city and in the country. I love nature and all aspects of being outdoors. I enjoy camping, fishing, hiking, boating, dirtbiking, skidooing, horseback riding, and going for long nature walks. With having a farm, I have and love many animals including horses, llamas, sheep, pot-bellied pigs, dogs, cats, and rabbits. I also like the creepy crawlies and you will often find me snake-hunting. I have a salamander, turtles, and hermit crabs. I take riding lessons and am very dedicated to participating in shows and events with my horses. I plan on obtaining a post-secondary education in the field of veterinary/equine/animal sciences.