

CRVWA Water Source

Carrot River Valley Watershed Association

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Office Hours: Monday-Friday 9am-5pm

Phone: 306-752-1270

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Website: www.crwatershed.ca



Winter 2018

Natural Edge Program Continues at Wakaw Lake

The Natural Edge program is designed to help landowners create a natural shoreline by planting a selection of native trees, shrubs, wildflowers, and grasses suitable for their property. It is an easy step by step process that restores areas of shoreline to their natural state. The plants help reduce soil erosion, improve water quality by filtering runoff, and are essential to providing habitat, including shelter and food, for over 90% of wildlife. The process is very simple and begins with a site visit from CRVWA staff. During the site visit the land owner will discuss the details of the planting plan with our staff. Once a planting plan has been developed by our staff and approved by the land owner, a date can be set for the planting. We will provide all the tools, materials and labour necessary to complete the project

fall plantings were completed on public beaches during 2017. Approximately 28 native trees and shrubs were planted at Domremy Beach including: trembling aspen, red osier dogwood, saskatoon, balsam fir and green ash. Our staff worked with the Domremy Beach Committee and the RM of Hoodoo to develop the planting plan and deliver the project.

The second planting project was completed at Hoodoo Beach between Oleksyn and Nickorick. We worked closely with the cabin owners who look after the beach and the RM of Hoodoo to develop a



planting plan and deliver the project. Approximately 42 native trees and shrubs were planted at Hoodoo Beach including: choke cherry, red osier dogwood and paper birch.

Our Natural Edge program started during the summer of 2017 at Wakaw Lake and will continue again through the summer of 2018 although available space will be limited to a total of four projects. Two

To participate in this program, land owners are required to contribute 25% of the total project costs and sign a stewardship agreement. This program is funded through grants received by CRVWA and as such is limited to four projects for the 2018 season. These projects are made possible by the financial support of the Government of Canada through the federal Department of Environment and Climate Change Canada.



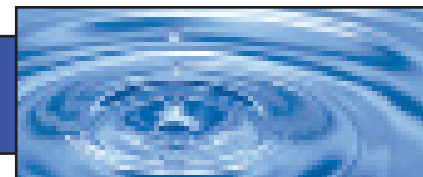
Fisheries and Oceans
Canada

Pêches et Océans
Canada

The Carrot River Valley Watershed Association Inc. (CRVWA) is dedicated to preserving and maintaining the character and integrity of the watershed through education and awareness. We are proud to be a local, grassroots, non-profit organization serving our members:

City of Melfort
Town of Carrot River
Town of Arborfield
Town of Wakaw
Village of Lake Lenore
RM of Tisdale No. 427
RM of Connaught No. 457
RM of Moose Range No.486
RM of Kinistino No.459
RM of Invergordon No.430
RM of Hoodoo No.401
RM of Fish Creek No.402
RM of Humboldt No.370
RM of St.Peter No.369
RM of Pleasantdale No.398
RM of Nipawin No.487
RM of Star City No.428
Melfort & District Wildlife Federation
Tisdale Wildlife Federation
Cudworth Wildlife Federation
Pasquia Regional Park
Wakaw Lake Regional Park Authority
Kipabiskau Regional Park
Resort Village of Wakaw Lake
Resort Village of Tobin Lake
St.Peter Conservation & Development Authority
Arborfield Conservation & Development Area Authority
Moose Range Conservation & Development Area Authority
New members are always welcome to add their voices to protecting our watershed by joining the CRVWA. Contact us for more information.

There are approximately one million miles of pipeline and aqueducts in the United States and Canada, which is enough to circle the earth 40 times! (US EPA)



Wetland's and Wildlife Poster Contest Now Open

The Saskatchewan Association of Watersheds has launched their annual poster contest, and the theme for this year's entries is "Wetlands and Wildlife". The Carrot River Valley Watershed Association (CRVWA) is one of the 11 provincial watershed associations participating in this year's contest. The contest is open to students in Grade 5, 6 and 7 and begins with a local contest within each watershed. From there, the first-place poster will go on to the provincial finals where it will be judged against the winning posters from the other watershed associations within Saskatchewan. Prizes will be awarded to the first, second and third place winners from the local contest. The provincial grand prize is a \$1000 in cash, \$500 of which will go to the winning student's classroom and \$500 will go to the student. The grand prize winner will be announced at the Saskatchewan Association of Watersheds Conference in Swift Current on April 10-12. More details including entry form and guidelines can be found at crwatershed.ca or by contacting the CRVWA office at 306-752-1270.

Saskatchewan Association of Watersheds and Carrot River Valley Watershed Association 2018 POSTER CONTEST

Theme: Wetlands and Wildlife

The contest is now open to all Grade 5, 6 and 7 students that attend school in the Carrot River Valley Watershed.

Deadline: Wednesday, March 28, 2018

More information at crwatershed.ca or call 306-752-1270

Prizes for 1st, 2nd and 3rd locally. Local winner advances to the Provincial Contest with a chance to win the Grand Prize of \$500 for the student and \$500 for their classroom!

Green infrastructure is an alternative to the impervious material which typically dominates urban areas. Rain gardens, green roofs, porous pavements and rain barrels provide an attractive, cost-efficient and resilient means for at home storm water management while improving urban water cycles.

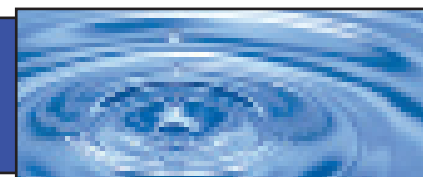
When rain falls on our roofs, driveways and streets it is unable to penetrate the surface and soak into the ground as it would within its undisturbed cycle. Water moves rapidly through gutters and storm water drains and is emptied into near by water bodies. As a result, increased peak flows are experienced during times of high rain fall and reduced base flows are experienced during non-storm events. The lack of infiltration into the soil also impacts the rate of recharge of

underground aquifers. As storm water moves across our city surfaces it collects pollutants such as oil, garbage, fertilizers, medications, pet waste, bacteria and heavy metals. The storm water then empties into near by waterbodies, often without any treatment, resulting in a reduction in water quality and an impact on the ecosystem.

Rain in natural undisturbed areas is absorbed into the soil where it is cleaned as it moves slowly down into our ground water aquifers and out to our surface water bodies. The ground acts as a sponge holding water within porous space during times of high precipitation and storing it for times of drought. The slow movement of water also helps to reduce erosion and habitat degradation. Storm water is cleaner and less of a problem within natural undisturbed areas than it is in areas with high urban development.

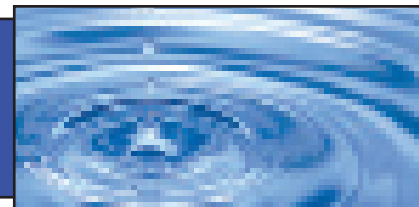
Green Infrastructure uses vegetation, soil, and pervious surfaces to restore and mimic the natural water management systems that function in undisturbed areas. Storm water is managed on an individual property basis by incorporating natural systems with engineered systems to restore the natural water cycle. Whether the rain hits pervious pavement, is fed onto a rain garden or harvested for later use, it is directed through the soil instead of down storm drains. This reduces flooding and drought and prevents water contamination. Green Infrastructure can be implemented on an individual property basis for relatively little cost whilst also improving overall property aesthetics. For more information about green infrastructure contact the Carrot River Valley Watershed Association at (306) 752-1270 or crwatershed@gmail.com.

It is estimated that about 2% or 200,000 km² of Canada is covered by glaciers and icefields. This is more lake area than any other country in the world.



40% of Canada's boundary with the United States is composed of water.

WATER FACT



Meet the Team

We would like to welcome our two newest members of the Carrot River Valley Watershed Association team – Connor Dennehy and Braden Myhr.

Connor Dennehy moved over from Calgary to small town Melfort at the beginning of October 2017 and began work with the Carrot River Valley Watershed Association as our Agri-Environmental Intern. Connor has a strong background in both Geology and Geographic Information Systems. He holds a Bachelor of Science from the University of Calgary and is also working towards an applied degree from the Southern Alberta Institute for Technology. Connor hit the ground running as he took on the lead role for the organization in our Willow Creek Water Management Project. A project which allows him to engage his passions for hydrology, geographic information systems and source water protection. Connor can be reached directly at (306) 920-8166 or crwatershedintern@gmail.com

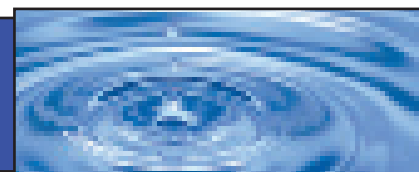
A few weeks after Connor began work for the Carrot River Valley Watershed Association, we welcomed Braden Myhr. Braden began work with the Carrot River Valley Watershed Association on November 1, 2017, as our Watershed Intern. Braden was born and raised in Hudson Bay, SK, moving to Saskatoon to complete a Bachelor's Degree in Renewable Resource Management. After completing his degree, he moved to Kamloops, BC where he worked in the forestry industry. Braden now resides in Melfort, SK. His strong background in resource management and passion for the environment have led him to waste no time taking on local producers and assisting them with agri-environmental issues as well as applications to the Farm Stewardship Program and Farm and Ranch Water Infrastructure Program. Braden can be reached directly at (306) 920-7069 or crwatershedaegp@gmail.com.

We would like to congratulate Charlotte Asplind, AAg. for her newly appointed position as Watershed Manager. Charlotte joined the CRVWA on December 14, 2014 as our Agri-Environmental Group Plan Technician and shortly after transitioned into the position of Watershed Technician. With her role as technician for the CRVWA, Charlotte spent much of her time in the field meeting with local producers and land owners delivering a variety of environmental programming. Charlotte transitioned into the role of Watershed Manager on September 15, 2017 and is very excited to expand her role for the organization. Charlotte has a Bachelor of Science in Environmental Biology from the University of Saskatchewan and is currently working towards her designation as a Professional Agrologist. Charlotte grew up on her family farm in Kent, England and then Star City, SK. When she isn't busy at work she is busy raising sheep with her husband near Gronlid. Charlotte's work as Watershed Manager allows her to bring together her passion for environmental conservation, agriculture, and nature and direct it into her work for source water protection. Charlotte can be reached directly at 306-920-7228 or crwatershed@gmail.com.



Canada is the third largest producer of hydroelectricity in the world behind China and Brazil

WATER FACT





WATER FACT

Canada has 563 lakes that have an area greater than 100 square kilometres.

Growing Forward 2 Funding Program Deadlines

With Growing Forward 2 coming to an end on March 31, 2018, there are some important deadlines approaching that agricultural producers need to keep in mind. The deadline for claim submission under the Farm Stewardship Program is January 31, 2018 and the deadline for claim submission under the Farm and Ranch Water Infrastructure Program is February 15, 2018. The Ministry of Agriculture will not accept any project claims received after these dates. The Canadian Agricultural Partnership (CAP) will come into effect April 1, 2018 replacing the Growing Forward 2 framework. The specific programming that will be available under CAP is still under discussion and has not yet been released by the Ministry of Agriculture. We encourage producers to check back with us in April for an update.

Farming Saline Soils Workshop



February 28th, 2018
 Anaheim Community Hall
 \$20 Registration and lunch will be provided
 Register Before February 23, 2018



Call the CRVWA for more details
 At (306-752-1270)
 or crwatershedaegp@gmail.com

Featured Presentations:


- **Field Surveys for Variable Rate and Drainage Mapping**
 Cory Willness, PAg, CAC, CCA, President, CropPro Consulting
- **Economic and Agronomic Considerations of Farming Saline Land**
 Larry Durand, Msc, PAg, CCA, Founder, Field Good Agronomics
- **Healing Saline Soils with Forages**
 Nadia Mori, Msc, PAg, Regional Forage Specialist, Ministry of Agriculture
- **Effects on Crop Systems**
 Victoria Nemeth BSA, AAg, Regional Crops Specialist: Ministry of Agriculture







Save the Date!!!






Alert Monitors for Remote Livestock Watering Systems Demonstration

March 15 2018, RM of Pleasantdale

Alert monitors for remote livestock watering systems alert the producer when the watering system malfunctions and allows the producer to monitor the system without having to go out to the field. Come out to see two types of alert monitors in action!

This project was supported by the Agricultural Demonstration of Practices and Technologies (ADOPT) initiative under the Canada-Saskatchewan Growing Forward 2 bi-lateral agreement.

Contact Carrot River Valley Watershed Association
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www.crvwatershed.ca



Municipal waste water is the largest point source of nutrient (nitrogen and phosphorus) releases to the Canadian environment. In 1999, about 82,750 tonnes of total nitrogen and 4,950 tonnes of total phosphorus were released to lakes, rivers, and coastal waters from municipal sewage.

Did you know? We are on Twitter and Facebook!

Follow us @crwatershed or www.facebook.com/CarrotRiverValleyWatershedAssociation