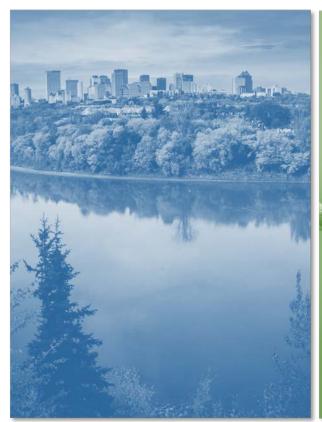
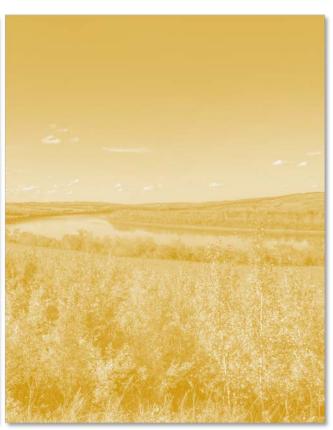
Knowledge in Know-vember Speaker Series NSWA









- Please do not use video and keep microphone muted
- If you would like to ask a question please use the chat feature
- Questions will be addressed at the end of each presentation
- Presentations will be posted on nswa.ab.ca
- Polling Questions



Fun Polling Question

 How many Knowledge in Know-vember sessions have you attended this month?



20 Years of Partnerships in Watershed Planning



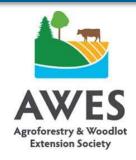




NGO Partners















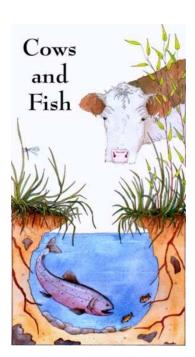






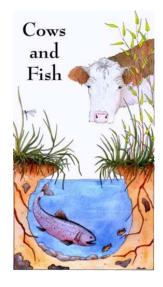








NGO Partners



Beavers – friends or foe? How can we live with 'em and why should we?

NSWA – What is keeping us busy these days?





Fun Polling Question

• Who are you? What group best describes you?



What is keeping NSWA busy these days?



Goal 1 Collaborative Partnerships

HEADWATERS ALLIANCE

- Brazeau County
- Clearwater County
- Leduc County
- Parkland County
- Wetaskiwin County
- Town of Devon
- Town of Drayton Valley
- Town of Rocky Mountain House
- EPCOR

STURGEON RIVER WATERSHED ALLIANCE

- Lac Ste Anne County
- Parkland County
- Sturgeon County
- City of Edmonton
- · City of St. Albert
- City of Spruce Grove
- · Town of Gibbons
- Town of Morinville
- Town of Onoway
- Town of Stony Plain
- · Village of Alberta Beach
- Summer Villages of Lac Ste
 Anne & County East
- Alexander First Nation
- Alexis Nakota Sioux Nation
- Metis Nation of Alberta
- Big Lake Environmental Support Society
- Alberta Conservation Association
- Wagner Natural Area Society
- Alberta Environment and Parks

VERMILION RIVER WATERSHED ALLIANCE

- Beaver County
- Lamont County
- County of Minburn
- County of Two Hills
- County of Vermilion River
- . Town of Two Hills
- · Town of Vegreville
- Town of Vermilion
- Village of Holden
- Village of Marwayne
- Agriculture and Agri-Food Canada
- Alberta Environment and Parks
- Alberta Drainage Council
- Alternative Land Use Services Canada
- Ducks Unlimited Canada
- Holden Drainage District
- Lakeland College

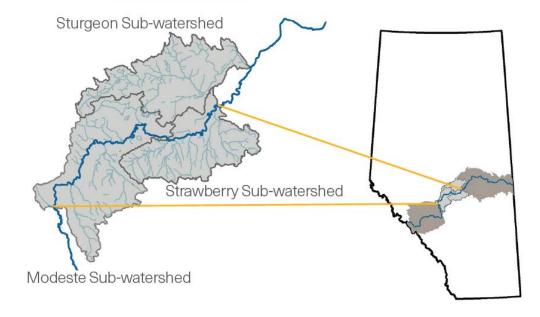
LAKE PARTNERSHIPS

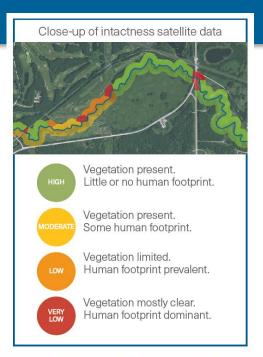
- Parkland County
- · Strathcona County
- Antler Lake Stewardship Committee
- Hubbles Lake Stewardship Society
- Jackfish Lake Management Association
- Lake Isle Lac Ste Anne Stewardship Association
- Mayatan Lake Management Association
- Wabamun Watershed Management Council
- Wizard Lake Watershed and Lake Stewardship Organization
- Lakes of Parkland County Group
- Alberta Lake Management Society (ALMS)
- Alberta Environment and Parks

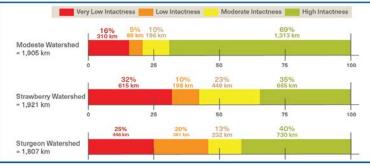


Headwaters Alliance

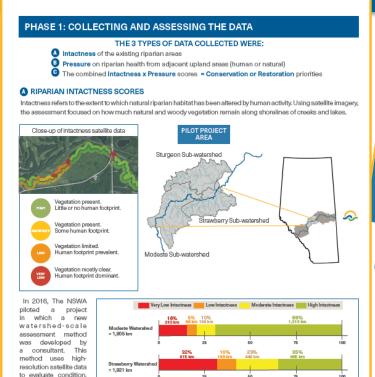
PILOT PROJECT AREA







Riparian Health Action Plan



Many project partners and stakeholders helped fund the data collection:



This method has now been evaluated by

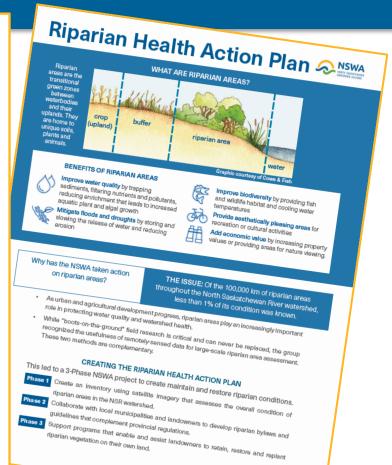
the Government of



MUNICIPAL

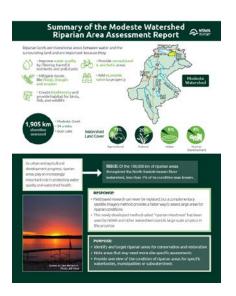


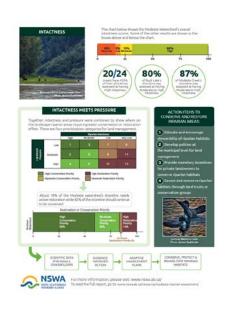
Page 2

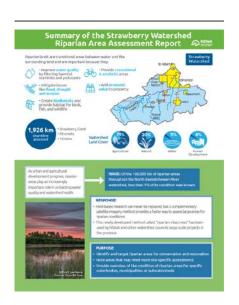


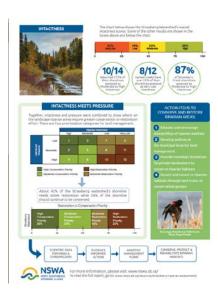
Issue: January, 2020// Page 1









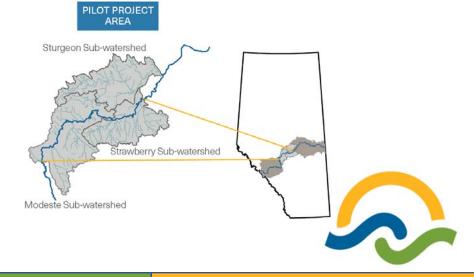


Sub-watershed Report Cards

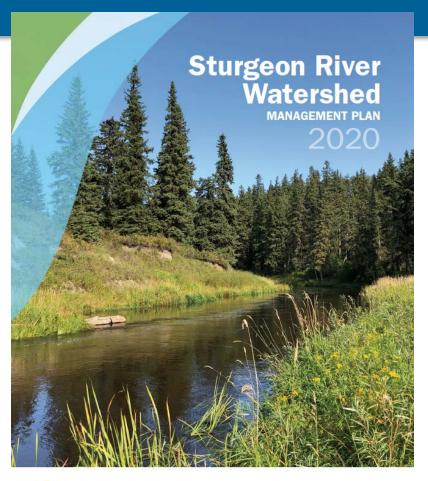


Next Steps

- 1. Landowner Type Assessment
- 2. Set-back Calculator
- 3. Riparian Health Targets
- 4. Riparian Literature Review
- 5. Riparian Strategy



Sturgeon River Watershed Alliance



Outcomes

- 1. Aligned Policies and Plans
- 2. Safe, Secure Drinking Water Supplies
- 3. Healthy Aquatic Ecosystems
- 4. Reliable Water Supplies
- 5. Wise Land Use
- 6. Local and Regional Initiatives



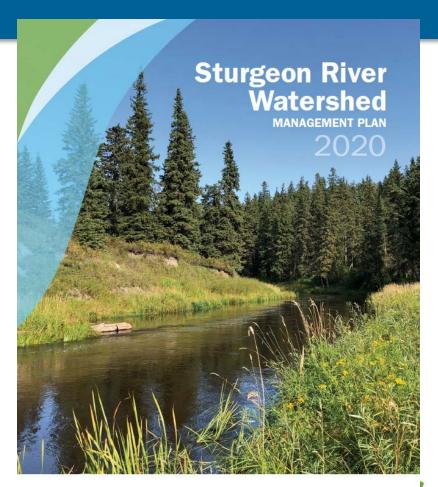




Sturgeon River Watershed Alliance

Priorities 2020- 2023

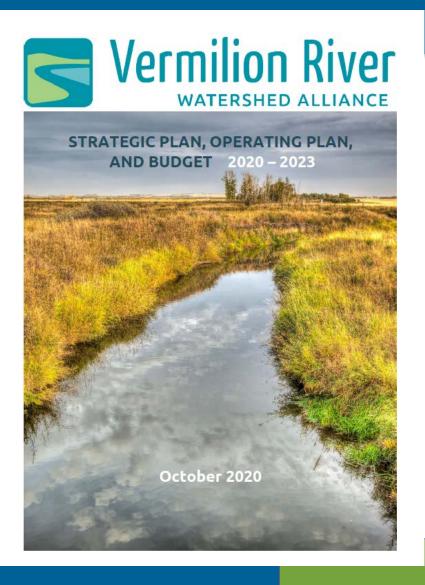
- Riparian and Wetland Conservation and Restoration Strategies
- Water Quality Monitoring Program
- Watershed Planning Alignment and Tools (flood risk areas, riparian setbacks, environmentally sensitive areas, overlay maps)
- Communications and Engagement (Educational forums, workshops, information resources)







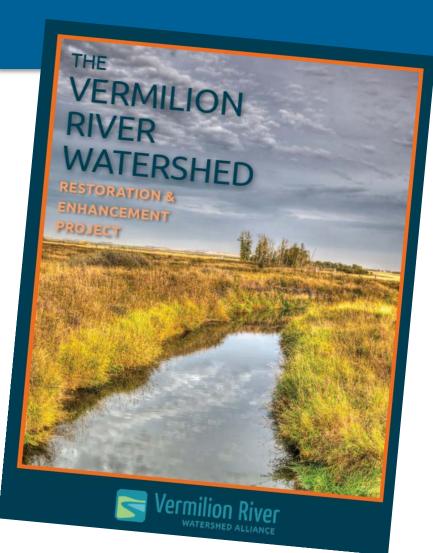
Vermilion Watershed Alliance

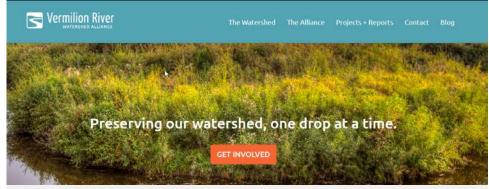


- 1) Develop capacity and knowledge in the watershed
- 2) Improve reliability of surface water supply
- Improve and maintain surface water quality
- 4) Improve and maintain water ecosystem health
- 5) Protect and sustain groundwater quality and supply



Vermilion Watershed Alliance





Latest Posts



Morecambe Structure and the Two Hills Floodplain: Its History and Operation

November 12, 2020

Above: Map of the Two Hills Roodplain: The Vermilion River moves north from Vegreville before passing through a chain of 8 interconnected lakes, known as the Vermilion Lakes. (Watt Lake to northwest is not shown.) Image adapted from: googlemaps.ca TWO HILLS FLOODPLAIN: FLAT + ALTERED = FLOODING Low, flat topography of floodplain and shallow depth [...]



Watershed Resilience: What Strategies Work Best?

October 19, 2020

VRWA partnered with ALCES to get a better understanding of which conservation or restoration strategies would have the greatest effect on the Vermilion River watershed's resilience. The ALCES report is summarized in the pages below:



Living with Beavers: How to Co-exist with Nature's Eco Engineer

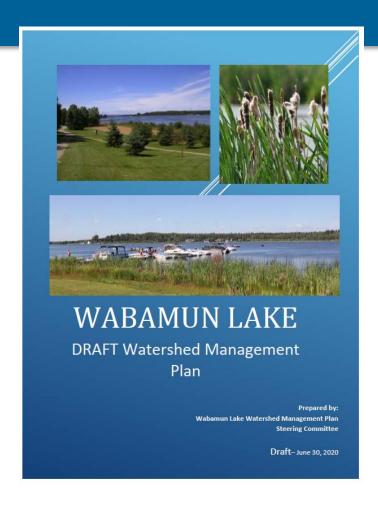
September 16, 2020

An evolving relationship with a national emblem By the early 1900s, beavers were nearly wiped out in Canada due to the fur trade. As beavers made a comeback in the 1920s and 1930s, their dams spread over the prairie landscape, often creating unwanted flooding for landowners and farmers. It's a complicated relationship with our national [...]

Read More



Lake Stewardship Groups





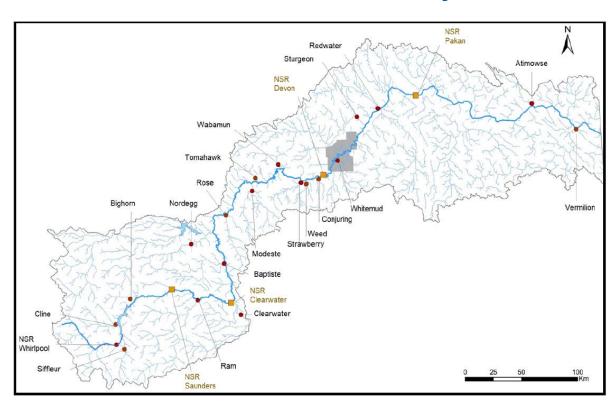


Lake Stewardship Groups



Goal 2 Leadership in Watershed Management

WaterSHED Water Quality Monitoring Project

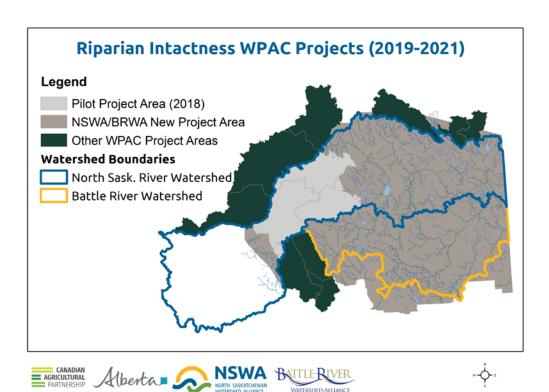


- Four-year program sponsored by EPCOR
- Alberta Environment and Parks, EPCOR and NSWA
- 19 new or upgraded monitoring stations



Goal 2 Leadership in Watershed Management

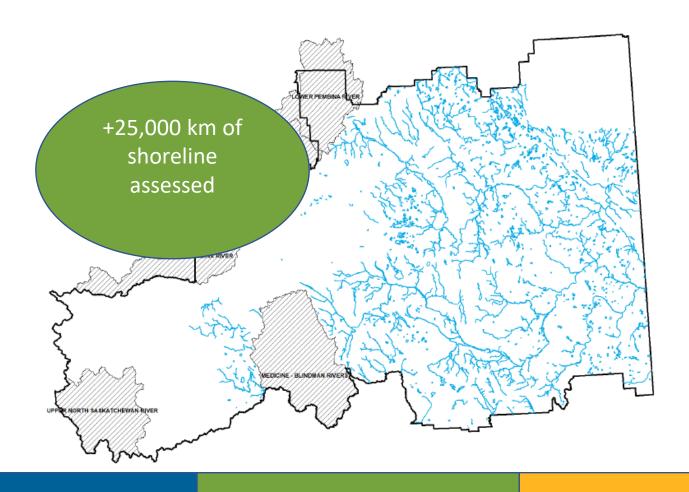
Expanded Riparian Assessment Project



- Five additional subwatersheds
- \$500,000 CAP grant
- \$130,000 WRRP
- Partnership with BRWA
- Three other WPACs using technique



NSWA + BRWA Project





Webportal



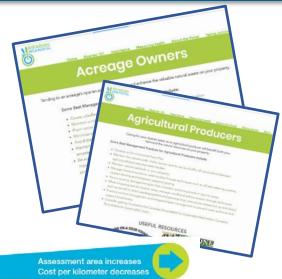
Three key purposes:

- Riparian data access
- Resources for users
- Projects on the ground



Riparian Web-portal Resources

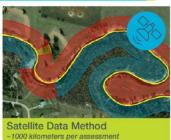






1 kilometer per assessment





Ability to observe detail (resolution) increases Ability to engage landowners increases



. Healthy, . Healthy but with

Actual riparian width

(variable)

Portion of single water body,

echnical experts; or trained

landowners

Local or property-scale

ommunity-scale action

Ability to observe plant species (including invasive species) and physical

features up close; ability to

see under tree canopy;

ability to combine with

landowner engagement &

advice

Discontinuous assessment

based on landowner

~\$2,500 per 1 KM

action; comb

3. Unhealthy

1 Good/Healthy

Poor/Impaired

Moderate (10-100 KM)

Fixed width (often 30

meters)

Entirety of single water

Technical experts

Community-scale action

(e.g. lake stewardship

activities)

of a whole lake:

provides partial

canopy; ability to

combine with local

stewardship group

activities

Requires access to

the case of drone, limited to navigable

vater bodies; inability t

identify plants by

invasive species)

servation under tree

Impaired,

2. Fair/Moderately

High intactness

4 Very low intactness

3. Low intactness

Moderate intactness

Fixed width (currently 50

Medium

Technical experts

Municipal, regional, or

watershed scale action

areas continuously and

rapidly; consistency in

areas and over time it

same; ability to combine

with watershed health assessment for planning and restoration/conservation prioritization

Inability to assess under

tree canopy; inability to identify plants by species

(including invasive

to satellite data

pecies); requires access

Goal 3 Watershed Knowledge Sharing





JIM DUNCAN
Councillor, Clearwater County





Goal 3 Watershed Knowledge Sharing











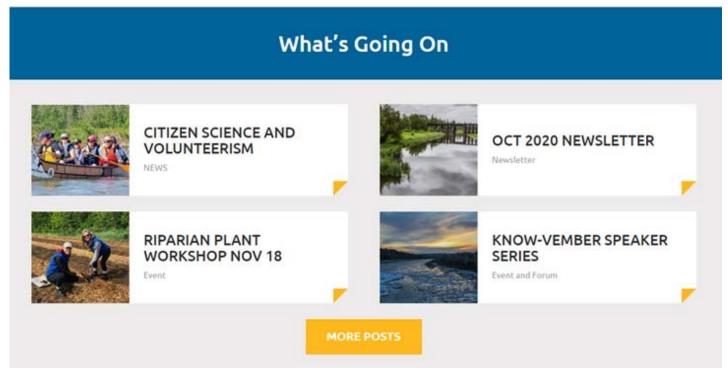




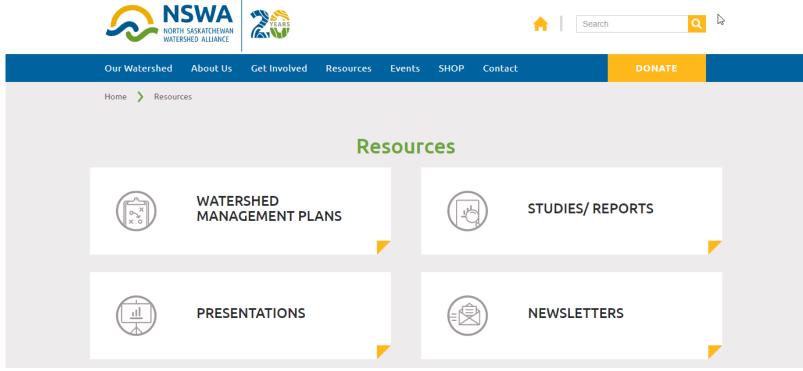
Fun Polling Question

 Did you learn something new about NSWA from our Knowledge in Know-vember session?











Thank you for joining us!

nswa.ab.ca

