

Contaminated Sites on Reserve (CSOR) Program Overview- Western Regional Slides

February 21, 2023



BC Region - Contaminated Sites Overview

- 1040 open sites in the Integrated Environmental Management System.
- Limited assessment funding available under FCSAP and CSOR.
- Assessments primarily funded through the First Nations Land Management Initiative.
 - 52 Operational, 15 Developmental
- Coordination with the First Nations Solid Waste Management Initiative to provide access for assessment and clean-up.
- Major Sites:
 - Sumas Brick Plant (far right)
 - Kitasoo Reserve-wide Remediation (top right)
 - Snuneymuxw Coal Mine (bottom right)



AB Region - Landfill Remediation and Reclamation

A combination of both FCSAP funding and Solid Waste funding was used to assess, remediate, and reclaim an unauthorized landfill on reserve over the span of 2 years.

JANUARY, 2019 SITE VISIT



AUGUST 18, 2020 FINAL INSPECTION



I Think My Community Has A Contaminated Site On Reserve - What Do I Do ?

Contact ISC's Regional Environment Team:

- We work closely with First Nation partners to determine an action plan to address the site
- We provide funding and project management support
- We provide scientific expertise and navigation assistance through the 10-Step FCSAP process

AB Region - ISC Environment Contacts


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Environmental Review Process	Contaminated Sites	Solid Waste	Forestry and Permits
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SK Region - Illegal Dumpsite App



ISC - SK Region - Illegal Dumpsite

 Indigenous Services Canada Services aux Autochtones Canada

Report Illegal Dumpsites

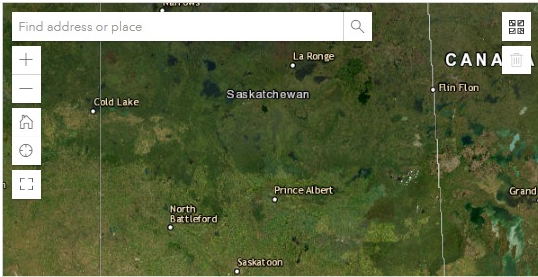
[Saskatchewan Waste Reduction Council](#)
[Environment and Climate Change Canada - Polluter Pays Principle](#)

Illegal Dumpsite Info ▼

Band Name (Number)*
Enter the band name or number where the dumpsite is located.

Location of Site*
Use the map below to identify the location (point) of the illegal dumpsite.

Find address or place

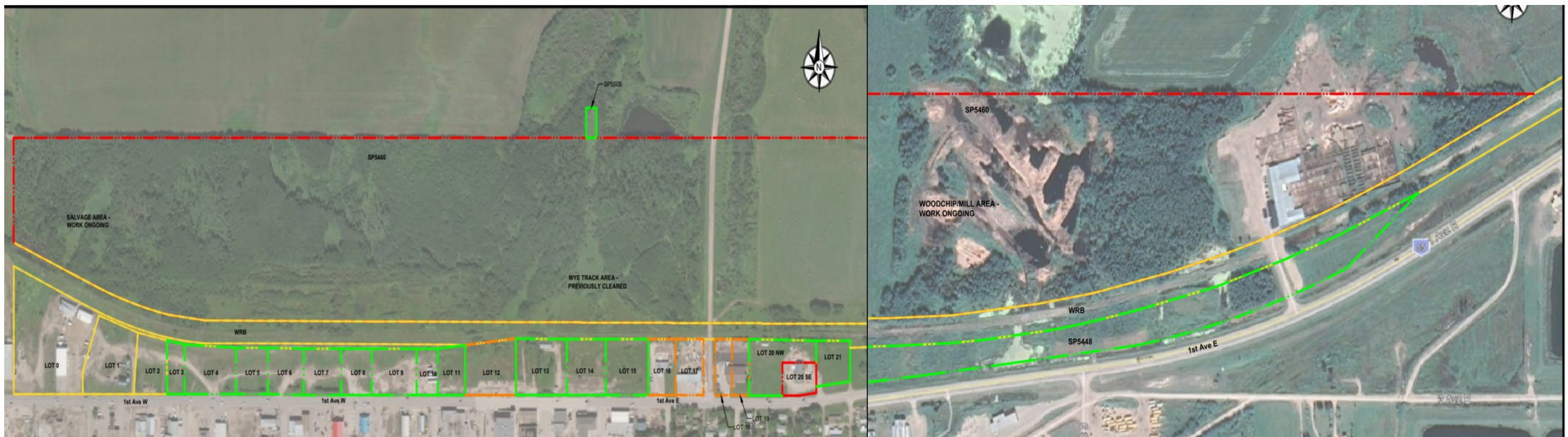


Earthstar Geographics | Esri, HERE, Garmin Powered by Esri

No geometry captured yet.

SK Region - Flying Dust Railway Lands

- Flying Dust First Nation
- Meadow Lake, SK
- Lands Reversion
- Environmental Remediation involving “Polluter Pays Principle” (CN)

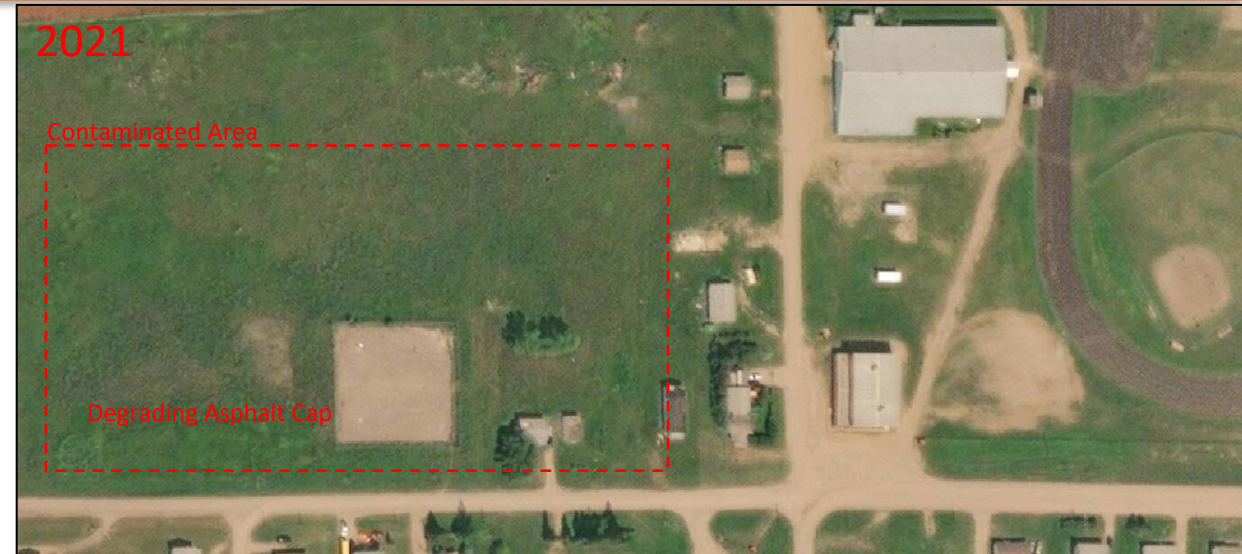


SK Region - Flying Dust Railway Lands



Cote Wood Treatment Plant

- COTE Wood Treatment Plant had steps 1 to 10 completed in 1996 with ongoing groundwater monitoring.
- In 2017, the asphalt cover was observed as degrading. Since step 1-4 was known with high levels of arsenic, it didn't need to be repeated.
- In 2018-19 testing and reclassifying the site (Phase 2 & 3 Environmental Site Assessment) transpired as per step 5 and 6.
- In 2020, a Remedial Action Plan with recommendation for a Risk Management Plan was documented as per step 7 in the event that site could not be fully remediated due to naturally occurring high arsenic levels in the area.
- In 2022 the site was able to be fully remediated and will be restored as a recreational site as per steps 8-10.



SK Region – CSOR Contact Information

Contaminated Sites on Reserve in Saskatchewan

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MB Region – CSOR Contact Information

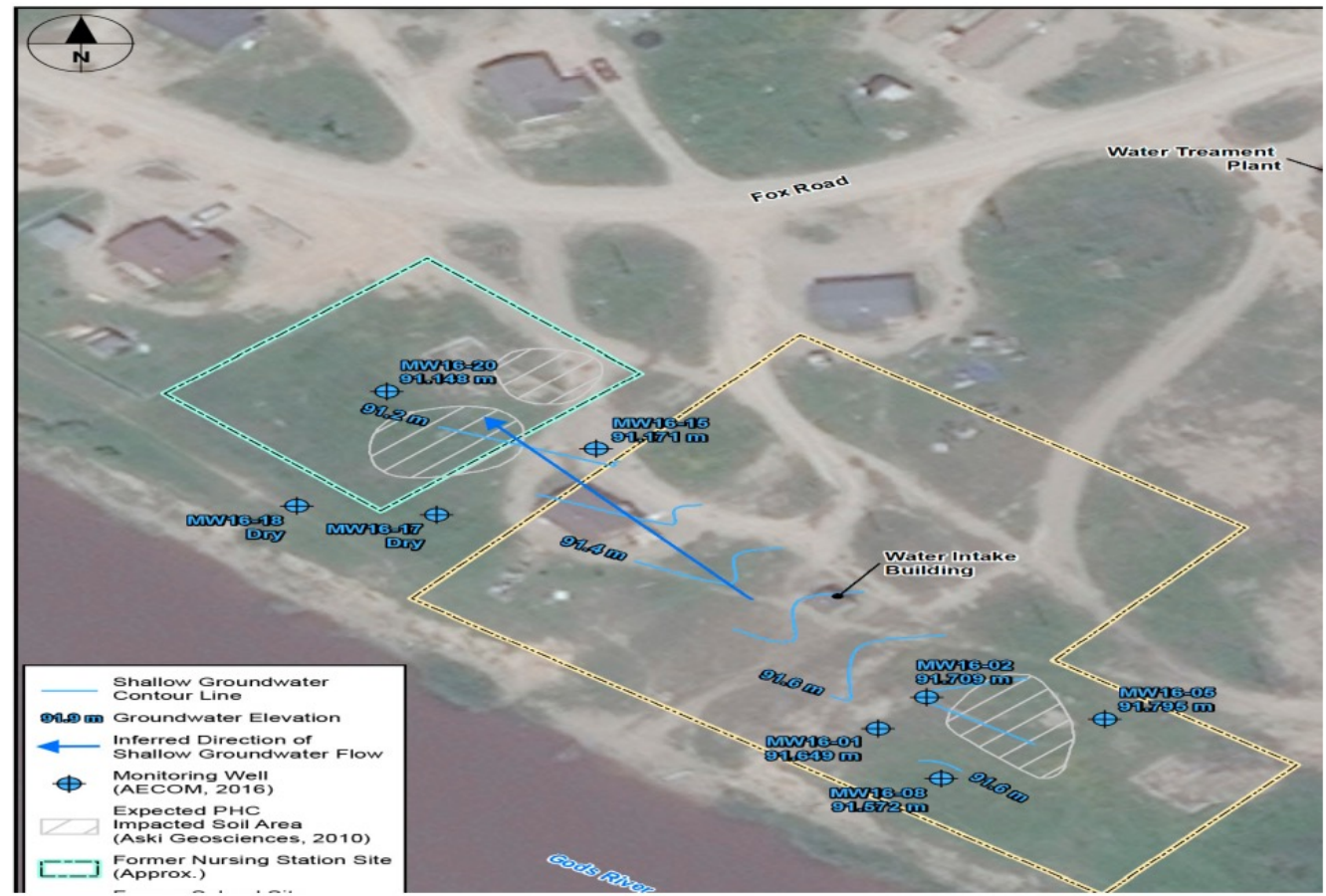
- **Contaminated Sites on Reserve in Manitoba**
- Programs that support the identification and assessment of contaminated sites
 - **FCSAP** (Federal Contaminated Sites Action Plan)

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MB Region - Shamattawa First Nation Soil Remediation Project



MB Region - Site Preparation and Soil Testing

- ESAs were completed
- Testing for Petroleum hydrocarbons (PHCs) BTEX + CCME Fractions F1 – F4
- Class 1 NCSCS Score (high Priority under FCSAP)

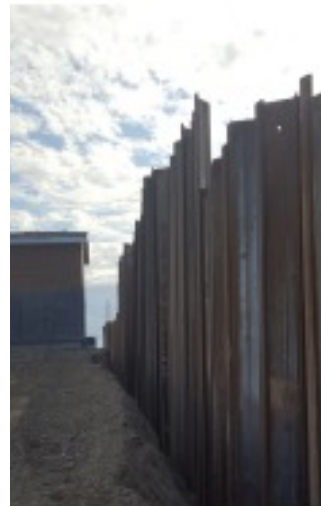


MB Region - Design and Construction

Remedial Action Plan (RAP) to aid the choice of remediation technology evaluation

Construction considerations:

- Historical Gravesites
- Riverbank Ecosystem
- Community Water Intake and other community infrastructure



MB Region - Backfilling and Restoration



Clean fill (peat moss, top-soil and vegetation)



Redevelopment for commercial or recreational use



MB Region – Landfarming & Closure

Landfarming

- Existing land-farm treatment with fertilizers and tilling
- Confirmatory sampling

Closure

- Inclement weather
- Shoring
- Remote location
- Protection of burial sites
- Protection of Riverbank Ecosystems and Community Infrastructure

