

**MANITOBA METIS FEDERATION – MATRIX
SOLUTIONS INC. PARTNERSHIP**

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 7

NOVEMBER 19TH TO NOVEMBER 24TH

1. PURPOSE OF THIS REPORT

The report is a weekly summary of the daily reports submitted by the Indigenous Construction Monitors that are working on spread seven. The social and cultural findings have been tabulated with locations and mitigation measures below. A summary of the construction activities has been summarized for the weeks of November 19th to November 24th, 2018.

Social and Cultural Features

| Field Observation | # of occurrences | Description and Mitigation Measures | Mitigation Status | Further Action Required (Yes/No) |
|--|------------------|-------------------------------------|-------------------|----------------------------------|
| Traditional Use Area (hunting, fishing, gathering, trapping) | N/A | | | |
| Rock Formations (rocks of significance, tipi rings, etc.) | N/A | | | |
| Artifacts | N/A | | | |
| Bones | N/A | | | |
| Potential Gravesites | N/A | | | |

Environmental Features

| Field Observation | # of occurrences | Description and Mitigation Measures | Mitigation Status | Further Action Required (Yes/No) |
|--------------------------------|------------------|--|-------------------|----------------------------------|
| Medicinal or Cultural Plants | N/A | | | |
| Aquatic Life | N/A | | | |
| Animal Observations or Burrows | N/A | | | |
| Bird Nests | N/A | | | |
| Trees (Red Willow) | N/A | | | |
| Wetlands | N/A | Nov 19, 2018: Wetland: 1 SSKP 843.750 MB-063 ephemeral/temporary marsh | | YES |

| | | | | |
|----------------------|-----|---|-----------------------------|--|
| | | (class 1/ Class 2) Tackifying Crew in area. | | |
| | | Nov 20, 2018: Wetlands: 1 (SSKP 839+580) Monitor banister at the aqua dam. This area is a wetland area MB-053 ephemeral/temporary marsh (class 1/ class 2) wetland complex. | Further mitigation required | |
| | | Nov 22, 2018: Wetland MB-084 seasonal marsh (class 3) wetland complex (SSKP 857.13 +857.54) Trenching crew in area. Further mitigation required yes. | Future mitigation required | |
| | | Nov 23, 2018: MB-053 Ephemeral / temporary marsh (class 1 / class 2) wetland complex. Access crew in area. | Further mitigation required | |
| Watercourse Crossing | N/A | | | |

Additional Observations and Summary of Activities or Concerns

On November 19th, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, Emergency 911, Make sure your mirrors are nice and clear before heading out, Do not use cruise control on slippery roads, beware of black ice; High minus 14, wind chill minus 26 in the morning and minus 20 in the afternoon. Risk of frostbite, UV index 1 or low, Wetland: 1 SSKP 843.750 MB-063 ephemeral/temporary marsh (class 1/ Class 2) Tackifying Crew in area; RD#17 (SSKP 824 +900) Banister was waiting for the coating crew and to re-scanned the pipe before they could start to do the backfilling. Once all of this is complete then they could start backfilling. This site is clean and organized; RD#21 (SSKP 827 +600) Monitor banister prepping the trench. Cleaning the ice and the mud out of the trench. Once this is complete, banister can start the tie-in. Before they lower the pipe into the trench they have to jeep the pipe to make sure there no defects; RD#28 (SSKP 841 +300) Re-assess the aqua dam. Banister is making very good progress of hauling ramp material from the sand hills east of SF 28 to ramp west of SF28. This area is a wetland area MB-054 semi-permanent marsh (class 4) wetland complex; RD#28 (SSKP 843.75 to 843.91) Monitor banister applying beet juice and tree sap on the topsoil going east of SF 28 previously skipped to avoid ditch and lower in crews. This is a wetland crossing MB-063 ephemeral / temporary marsh (class 1/ Class 2); Work forecast: Go back and monitor the ROW tomorrow.

On November 20th, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, Emergency 911, eye contact with moving equipment at all times, warm weather causes slippery conditions be careful when driving, lots of wildlife on the roads this time of the year; High minus 5, Wind chill up to 15 km/wind chill minus 14 in the morning and minus 9 in the afternoon, UV index 1 or low. Follow all bio security on the ROW at all times; RD#27 (SSKP 839+580) Monitor banister at the aqua dam. This area is a wetland area MB-053 ephemeral/temporary marsh, (class 1/ class 2) wetland complex. Bannister is making progress on the aqua-dam. The site is using drip trips for re-fuelling generators; RD#28 (SSKP 843 +300) Banister hauling ramp material from the sand hills east of sf 28. For the wetland to the west of sf 28 filling aqua dam from the big island west. This area is a wetland area MB-054 semi- permanent marsh (class 4) wetland complex, Bannister is taking extra precautions on the wetlands areas; RD#38 (SSKP 863 +400) Banister has completed the reaming and prepping the site for the bore pull. This site is very clean and organized; RD#60 (SSKP 900 +300) Monitor banister coating crew at sf 60. The coating crew is moving east towards sf 61. The crew is doing amazing job of cleaning as they move forward; Work forecast: Go back and monitor the ROW.

On November 21st, Stars Emergency Link Centre 1-888-888-4567, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, emergency 911, buckle up your seatbelts before you start to drive, do not use cruise control on slippery roads, be in contact with your supervisor let him know where you're going to be for the day; High minus 7, Wind chill 7. Wind chill minus 22 in the morning and minus 14 in the afternoon, follow all bio security; RD#21 (SSKP 827 +600) Banister prepping the trench at sf 21. The crew was pumping out water and cleaning the ice out of the trench so they could start back filling.

The tie-in is complete and the site is very clean and organized; RD#28 (843 +500) Re-assess the aqua dam at sf 28. Banister hauling material from the sand hills east of sf 28 to the ramp west of SF 28. This is a wetland area MB-054 semi-permanent marsh (Class 4) wetland complex. Banister is doing a good job at this site; RD#33 (SSKP 856 +100) Banister is prepping the trench at sf 33. The crew is pumping water out of the trench so the lower in crew could start lower in the pipe between SF 33 to SF 34; RD#48 (SSKP 881 + 800) Banister re-scanning the coating at sf 48 moving east. The site is very clean as the crew moves forward.

On November 22nd, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, Emergency 911, follow speed limits at all times on the ROW; High plus 1, Wind chill minus 9 in the morning. Fog patches dissipating near noon, UV index 2 or low, Wetland MB-084 seasonal marsh (class 3) wetland complex (SSKP 857.13 +857.54) Trenching crew in area. RD#33 (SSKP 857.13 +857.54) Monitor banister doing some trenching by the wetlands. MB-084 wetland seasonal marsh class 3 wetland complex. Bannister is moving towards sf 34 with the trenching by the wetlands. The site is very clean and organized; RD#33 (SSKP 857 +500) Monitor banister pumping water out of the trench at sf 33. They have to pump the water out of the trench before they could lower in the pipe. They also have a pig pen set up on the north side of the trench where the water is being filter; RD#34 (SSKP 858 +800) Banister is trenching between sf 33 and sf 34 with the ditch wheel. Banister also sprayed mulch on the 5 meter buffer and also laid down some geo-tech to protect the 5 meter buffer; RD#62 (SSKP 904 +100) Bannister mainline coating crew is east of SF 63. The site is very clean and organized.

On November 23rd, Medic camp 1-780-329-9183, Virden Hospital (204) 748-1230, attended Tailgate meeting, drive slow in foggy conditions, be aware of wildlife, slips, trips, falls,, be aware of congested sites; High plus 1, UV index 1 or low, wind chill minus 6 in the evening and minus 16 overnight, follow all bio security. The ROW is very clean and organized at all times, MB-053 Ephemeral / temporary marsh (class 1 / class 2) wetland complex. Access crew in the area; RD#21 (SSKP 827 +600) Banister has completed the back filling at SF 21. The site is clean and organized; RD#22 (SSKP 829 +269) Monitor banister welding tie-in on the east side of sf 22. The site is very organized; RD#26 (SSKP 836+383) Monitor banister back filling the open cut road sf 26. Banister also doing compact test as there back filling the open cut road. They are using gravel and sand to do the backing filling; RD#27 (SSKP 839 +580) Banister hauling ramp material from the borrow pit to the aqua dam. This area of the aqua dam is a wetland area MB-053 ephemeral /temporary marsh (class 1 and class); Work forecast: Go back and monitor the ROW.

On November 24th, Medic camp 1-780-329-9183, Virden Hospital (204)748-1230, slips, trips, falls, use extra caution on slippery roads; Temperature falling to minus 10 in the afternoon. Wind chill minus 10 in the morning and minus 18 in the afternoon, UV index 1 or low; RD#1 (SSKP 808 +568) Banister has remove the de-watering system from sf 1. The site is very organized; RD#1 (SSKP 808 +200) Banister has completed the coating at SF 1, will be entering the high quarter at SF 2, RD#12 (SSKP 819 + 500) Banister has set up a de-watering system at sf 12. The water is pump to a pig pen which

has a filter system. The pig pen collects all the silt that's being pump from de- watering system; RD# 13 (SSKP 821 + 008 to 821 +183) Banister has completed the back filling and levelling at the native prairie site. The crew is taking extra precaution at these sensitive areas; Work forecast: Go back and monitor the ROW

Photos of Sites Visited & Topics Discussed This Week

November 19, 2018



RD#17 (SSKP 824 +900)

Hydro vac is on site sucking up the mud
prepping the site for the pipe to be
re-scanned and coated
Photo taken facing south



RD#28 (SSKP 841 +300)

Aqua Dam area
Wetland area MB-054
semi permanent marsh (class 4)
Photo taken facing west



RD#21 (SSKP 827 +600)

Banister prepping the trench for a tie-in
The pipe got to be jeep before they lower
the pipe in the trench so there no defects
Photo taken facing north



RD#28 (SSKP 843.75 to 843.91)

Banister applying beet juice and tree
sap
on top of the topsoil to keep it from
blowing

November 20, 2018



RD#27 (SSKP 839 +580)

Aqua Dam sf 27
Wetland area MB-053 ephemeral/temporary
marsh (class 1 /class 2)
Photo taken facing south



RD#28 (SSKP 843 +300)

This is area where banister hauling
sand
material for the aqua dam sf 28 west
Photo taken facing east



RD#38 (SSKP 863 +300)

Heritage Resource Feature ID# 160
Banister has completed the reaming
prepping the site for the bore pull
Photo taken facing west



RD#60 (SSKP 900 +300)

Banister coating crew at sf 60
After the coating is applied they have to
use
a jeeper to make sure there no defects on

November 21, 2018



RD#21 (SSKP 827 + 600)

Banister cleaning out the trench so they
could start doing the backing filling
Photo taken facing south



RD#28 (SSKP 843 +500)

Banister hauling ramp material
MB-054 semi permanent marsh (class 4)
Photo taken facing north



RD#33 (SSKP 856+100)

Banister prepping the trench at sf 33
pumping water to lower in the pipe
Photo taken facing east



RD#48 (SSKP 881 +800)

Mainline coating crew
They repair any defects on the pipe
Photo taken facing north

November 22, 2018



RD#63 (SSKP 904 +100)

Banister mainline coating crew
The crew is doing amazing job of cleaning
as they move forward
Photo taken facing east



RD#33 (SSKP 857 +500)

This is the site where banister got to
pump the water out of the trench
before they could lower in the pipe
Photo taken facing east



RD#34 (SSKP 858 + 800)

Banister trenching between sf 33 and sf
34
They also laid down geo-tech to protect
the 5 meter buffer



RD#33 (SSKP 857.13 to 857.54)

Banister doing some trenching at the
Wetland MB-084 seasonal marsh class 3
Photo taken facing west

November 23, 2018



RD#21 (SSKP 827 +600)

Banister completed the back filling at sf 21
The site is very clean and organized
Photo taken facing north



RD#22 (SSKP 829 +269)

Banister doing a tie-in at sf 22
Photo taken facing east



RD#26 (SSKP 836 +383)

Banister back filling the open cut road
They are using sand and gravel to back fill
Also will be doing a compact test
Photo taken facing east



RD#27 (SSKP 839 +580)

Banister hauling ramp material for the
aqua dam MB-053 ephemeral/temporary
marsh
(class 1/ class 2)

November 24, 2018



RD#1 (SSKP 808 + 568)

Banister has remove this de- watering system

at sf 1 the site very clean and organized
Photo taken facing east



RD# 12 (SSKP 819 + 500)

Banister has set up a de-watering system at
sf 12. The site is equipped with drip trays as you
can see. Photo taken facing west



RD# 13 (SSKP 821 +008) (821 +183)

Native prairie
Photo taken facing north



RD#1 (SSKP 808 + 200)

Banister have completed the coating sf 1
Moving to the high risk quarter sf 2
Photo taken facing west

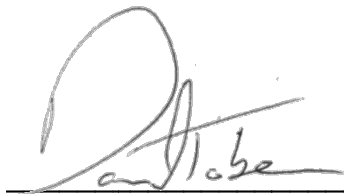
APPROVALS



Arnold Breland
Construction Monitor

November 28, 2018

Date



Daniel Tober
Senior Environmental Scientist

November 28, 2018

Date