

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

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 7

DECEMBER 3RD TO DECEMBER 8TH

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 December 3rd to December 8th, 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	December 4, 2018: Wetland MB-1039 semi-permanent marsh (class 4)		

		<p>wetland complex. Wetland MB-054 semi-permanent marsh (class 4) wetland complex. December 6: Wetland area MB- 054 ephemeral/temporary marsh (class 1 / class 2) wetland complex. (SSKP 841 + 400) Wetland area MB-053 semi-permanent marsh (class 4) wetland complex. No disturbance done to the wetlands. December 8, 2018: Wetland MB-100 seasonal marsh permanent marsh (class 3) wetland complex.WF-109 wildlife feature.</p>		
Watercourse Crossing	N/A			

Additional Observations and Summary of Activities or Concerns

On December 3rd, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230 Emergency 911, Stars Emergency Link Centre 1-888-888- 4567, do a 360 walk around your vehicle before leaving for the job site, drive slow in foggy conditions, make sure you have your boot cleats on when you get on site; High minus 6, Wind chill near minus 15. Fog patches dissipating in the morning. Wind coming west 20 km/in the afternoon; RD#27 (SSKP 839 + 800) Re-assess wetland MB-053 ephemeral / temporary marsh (class 1/ class 2) wetland complex. Banister hauling ramp material from the borrow pit east of sf 27 going east towards sf 28; RD#28 (SSKP 842 +300) Monitor banister building a berm alongside the pre-existing containment topsoil; RD#28 (SSKP 846 +400) Monitor banister pumping water west of sf 29. Banister fighting with water levels at this site; RD# 39 (SSKP 866 +500) Monitor banister weld and push the bore 19.1mm carrier pipe at the railway tracks. Banister will be attaching the product pipe to the bore.

On December 4th, On December 3rd, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, Emergency 911, Stars Emergency Link Centre 1-888-888- 4567, do a 360 walk around your vehicle before leaving for the job site, make sure you attend the tailgate meeting every morning before you start your day, be fit for duty; High minus 7. Wind chill minus 19 in the morning and minus 14 in the afternoon. A mix of sun and cloud, fog patches dissipating this morning. Wetland MB-1039, semi-permanent marsh (class 4) wetland complex. Wetland MB-054 semi-permanent marsh (class 4) wetland complex; RD#11 (SSKP 819 + 100) Monitor banister backfilling the ditch by the wetland MB-1039 semi-permanent marsh (class 4) wetland complex. No disturbance was done to the wetland; RD#26 (SSKP 836 +300) Monitor the big dirty truck wash spraying hot water onto the pipe to melt some of the ice. This got to be done before banister could start the tie -in and backfilling; RD#28 (SSKP 839 + 900) Re-assess the aqua dam at the wetland MB-054 semi-permanent marsh (class 4) wetland complex; Banister hauling ramp material from the bore pit east of sf27. The site by the wetland is very clean and organized; RD# 42 (SSKP 869+000 to 870 +100) Banister completed the lowering the pipe and backfilling. Dozers operators are levelling the backfill. This site is also clean and organized.

On December 5th, slips, trips, falls, congested sites, attended tailgate meeting. Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, Emergency 911, do a 360 walk around your vehicle before leaving for site, stop at all railroad crossing; High minus 9. Wind chill near minus 20. Wind becoming northwest 20/ km/ h gusting to 40 near noon. Periods of light snow; D#26 (SSKP 836 + 500) Banister fighting with water levels and ice. Before the pipe can be lowered in, most job specifications call for the ditch to be dry or closed. All pumps are contained by using drip trays. This site is very organized; RD#28 (SSKP 846 + 369) Monitor banister prepping to tie-in and lower the pipe at sf 28. When a tie-in will be required at a particular point, a carefully measured extra length of pipe is left on the adjoining pipe ends. Because of the exact tolerances involved, the pipe ends are cut with a cutting torch. The cutting torch head is mounted on a ring attached to the outside of the pipe. The tie-in and lowering in is taking place by a

wetland area MB-068 broad- leaf treed swamp; RD#34 (SSKP 858 + 900) Monitor banister removing crumb subsoil off the buffer mulch between sf 34 and 35. Crumb subsoil behind tie -ins. Banister is also removing the geo-tech off the buffer; RD#43 (SSKP 872 +700) Banister will be lowering in the pipe at sf 43. The cradle method is quick because there is no hooking and unhooking. This site is also clean and organized.

On December 6th, slips, falls, trips, congested sites. Eye contact with the equipment operator at all times; Do a 360 walk around your vehicle before leaving for site; Do not use cruise control on slippery roads; Stop at all railroad crossing look both ways before crossing; Follow speed limits at all times; Follow all company rules and at all times.

Make sure your vehicle is equipped with an emergency kit; High minus 16. Wind chill minus 34 in the morning and minus 21 in the afternoon. There is a risk of Frostbite. UV index 1 or lower; RD#1 (SSKP 568+ 600) Banister backfilling between the Enbridge corridor and SF 2. Site is clean and very organized; RD#26 (SSKP 837 + 700) Monitor banister prepping to do a tie-in at sf 26. Banister has to move the pipe back so they could do the tie-in. This site is clean and organized; RD#28 (SSKP 838 + 800 to 841 +400) Banister has completed hauling ramp material to the wetlands area; Wetland area MB- 054 ephemeral/temporary marsh (class 1 / class 2) wetland complex. (SSKP 841 + 400) Wetland area MB-053 semi-permanent marsh (class 4) wetland complex. No disturbance done to the wetlands. (SSKP 838 + 800); RD#29 (SSKP 850 + 000) Banister prepping the ditch at SF29. The ditch crew job is to excavated ditches to the correct depth and width to provide a firm uniform and continuous support for a pipeline. This ditch is by wetland MB-073 seasonal marsh (class 3).

On December 7th, safety identified as medics camp. slips, trips, falls, congested sites, Emergency 911, Virden Hospital (204) 748-1230, Star Emergency Link Centre 1-888-888-4567 site # 2832, make sure your vehicle is equipped with an emergency kit; do a 360 walk around your vehicle before leaving for site, take warm up breaks as needed, make sure you have your boot cleats on when walking out of your vehicle prevent you from slipping on ice, attended tailgate meeting every morning, report any near miss to your supervisor as soon as possible; tie-in crew; RD# 28 (848 + 700) Monitor banister removing and cleaning the pig pen area at sf 28. These pig pen are used to filter the water that's being pumped out of the ditch. The filter in the pig pen keeps the silt from entering onto the topsoil; RD# 12 (SSKP 819 + 500) Re-assess the de-watering area at sf 12. All equipment at this site is contained by using drip trays. This site is clean and organized;

RD# 26 (SSKP 836 +600) Monitor banister is welding east of sf 26. Banister is doing a tie-in and cut at this site. Tie-ins, welds and cuts are the last performed on the line. Workers in the tie-in crew need to perform a variety of tasks. Once the pipe has been cut, the ends are bevelled for welding; RD# 28 (SSKP 842 +240 to 842 +440) Banister is doing a clean-up at the archaeology site east of sf 28. Archaeologists are present at this heritage resource feature. The site is clean and organized.

On December 8th, safety theme identified as slips, trips , falls and congested sites, Medics camp 1-780-329-9183, Hospital (204) 748-1230, Emergency 911, Stars Emergency Link Centre 1-888-888-4567, follow speed limit at all times, do not use

cruise control on slippery road; High minus 9. Wind chill minus 25 in the morning and minus 15 in the afternoon. There is a risk of frostbite, wetland MB-084 seasonal marsh (class 3) wetland complex. Wetland MB-083 semi-permanent marsh (class 4) wetland complex; RD#38 (SSKP 863 +270 to 864 +070) RE-assess native prairie; RD# 33 (SSKP 857.13 +599.14) RE-assess wetland MB-084 seasonal marsh (class 3) wetland complex; RD#33 (SSKP 855.73 +856.75) Re-assess MB-083 wetland semi-permanent marsh (class 4) wetland complex; RD# 46 (SSKP 877 +700) Re-assess wetland MB-100 seasonal permanent marsh (class 3) wetland complex; RD#46 (SSKP 877 + 700) WF-109 wildlife feature.

Photos of Sites Visited & Topics Discussed This Week

December 3, 2018



RD# 27 (SSKP 839 + 800)

Wetland MB-053
Ephemeral / temporary marsh (class 1/class2)
Hauling ramp material to this wetland
Photo taken facing east



RD#28 (SSKP 842 + 300)

Pre- existing containment topsoil sf 28
As you see in the photo banister build a
berm along side of the pre-existing



RD# (SSKP 846 + 400)

Banister pumping water at sf 28
Water levels are high in this area
Photo taken facing west



RD#39 (SSKP 866 +500)

Banister weld and push the bore 19.1mm
carrier pipe at the railway tracks
Photo taken facing west

December 4, 2018



RD#11 (SSKP 819 + 100)

Banister backfilling at sf 11
This area is by wetland MB-1039
Semi permanent marsh (class 4)
Photo taken facing west



RD#26 (SSKP 836 +300)

The big dirty truck wash at sf 26
Spraying hot water on the pipe to melt
the ice. Photo taken facing west.



RD#28 (SSKP 839 +900)

Aqua dam SF28
Wetland MB-054 semi permanent marsh
Banister hauling ramp material
Photo taken facing west



RD#42 (SSKP 869 +000)

Banister dozers operators are leveling the
backfill at sf 42
Photo taken facing east

December 5, 2018



RD#43 (SSKP 872 +700)

Banister lower in crew sf 43
Photo taken facing east



RD#34 (SSKP 858 +900)

Banister removing crumb soil from buffer
Photo taken facing west



RD#28 (SSKP 846 +369)

Banister prepping to tie-in at sf 28
Photo taken facing west



RD#26 (SSKP 836 + 500)

Banister pumping water and cleaning
ditch
Photo taken facing east

DECEMBER 6, 2018



RD#29 (SSKP 850 +000)

Banister prepping the ditch
To lower the pipe
Photo taken facing east



RD#28 (SSKP 841 +100 to 838 +800)

Aqua dam wetland area MB-054
Semi permanent marsh (class 4)
Photo taken facing west



RD#27 (SSKP 839 +600)

Wetland area MB- 053
Ephemeral/ temporary marsh (class 1/2)
Photo taken facing west



RD#1 (SSKP 568 +600)

Banister backfilling enbridge corridor sf 1
Photo taken facing east

DECEMBER 7, 2018



RD#12 (SSKP 819 + 500)

De - watering system sf 12
Photo taken facing west



RD# 26 (SSKP 836 + 600)

Tie - in crew at sf 26
Photo taken facing east



RD# 28 (SSKP 842 + 240 to 842 + 440)

Heritage resource feature sf 28
Photo taken facing east



RD# 28 (SSKP 848 + 700)

Banister removing pig pen area sf 28
Photo taken facing east

DECEMBER 8, 2018



RD# 38 (863 + 270 to 864 + 070)

Re-assess native prairie sf 38
Photo taken facing east



RD# 33 (SSKP 857.13 + 859.14)

Re-assess wetland MB-084
Seasonal marsh (class 3) wetland
complex
Photo taken facing east



RD# 33 (SSKP 855.73 to 856.75)

Re-assess wetland MB-083
Semi permanent marsh (class 4)
Photo taken facing east



RD#46 (SSKP 877 + 700)

Wetland MB-100
Seasonal permanent marsh (class 3)
Photo taken facing south

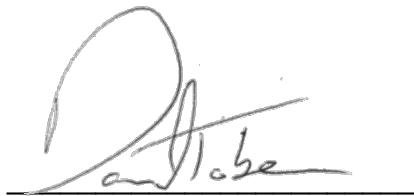
APPROVALS



Arnold Breland
Construction Monitor

December 18, 2018

Date



Daniel Tober
Senior Environmental Scientist

December 18, 2018

Date