

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

**INDIGENOUS CONSTRUCTION MONITORING**

**WEEKLY REPORT**

**SPREAD 9**

**OCTOBER 22<sup>ND</sup> TO OCTOBER 27<sup>TH</sup>**

## 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 nine. 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 October 22<sup>nd</sup> to October 27<sup>th</sup>, 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			
Watercourse Crossing	N/A			

## Additional Observations and Summary of Activities or Concerns

On October 22<sup>nd</sup>, Slips trips falls - 3 Point contact, tie your boots, watch your footing. Communication - Maintain communication amongst the crew, dusty roads - drive slow, keep safe distance between vehicles, be courteous to other drivers, un-controlled intersections - treat them as four way stops, be courteous, congested areas - be ROW ready, avoid if possible, awkward body pos. - take micros to stretch, wildlife - scan the ditches, be aware, defensive driving, theft - lock up your vehicle, keep belongings out of eye sight; Ensure proper disposal and separation of garbage and recycling; Smoke in designated area's only; Proper disposal of cigarette butts; Ensure vehicle/equipment is cleaned and inspected; Ensure Tires are cleaned and inspected; Vehicle is equipped with bleach and spill kits; Ensure Bio-Security protocols are followed; 6:00 AM Inspectors meeting; Safety touched on being fit for duty and had shared a couple incident reports from Saturday evening, environment had mentioned watercourse work happening as well a pit sump pit will be excavated at Lac Rondeau with specific dimensions as well the provincial government had issued a permit; 6:15 AM Environment meeting; 7:00 AM Construction meeting; Safety had mentioned to keep back up camera clean to help reduce risk of backing into something or someone as well keep mind on task at hand and to use spotters and know where to be standing; Monitored Crimper at Rd.4 heading South East, met with environmental inspector and had been informed the crimpers purpose is to act as a blanket on the top soil which in turns acts as an erosion control to keep the top soil in its field and allow for revegetation; Monitored SSKP 1054.179-(MB-WC71)-MARSH-(C111)-(MB-197) referring to section 6.0 and 10.0 in the E.P.P; While I was at the drainage site the excavator was ditching out the trench so the pipe could soon be lowered and tied in, the spoil piles were being separated so when it is restored the native soils will be put back in their original place and will be restored to its original pristine condition before disturbance. Signage was in place (no refueling within 100m) and silt fencing was intact; I had taken a look at the excavator starting to dig out the installed bridge at Dead Horse Creek-(MB-WC1002) referring to Section 9.0 in the E.P.P; One excavator was pulling dirt back from where the bridge was and being careful while doing it as it is land sensitive area and needs to be worked off of mats due to bio-security measures; Work forecast: Monitor Spread 9.

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yard. Environment had spoken of a biologist being on site at Lac Rondeau checking for fish and ensure proper protocols are being used when work commences; 6:15 AM Environment meeting; 7:00 AM Construction meeting; Housekeeping was a topic discussed this morning and safety had talked about taking more time to assess hazards for the work day and to have each other back out on the field. Environment mentioned MB-WC71 had been stripped and ditched and will be worked on today; This morning Lorne Parisian had conducted the morning safety meeting discussing hazards and controls for the work day. I had assigned the junior monitors with SSKP's to be monitored as well my own SSKP'S of interest to monitor; Monitored Seeding, crimping and harrowing at Rd.7 referring to section 14.0 in the E.P.P; Environment inspector was with the farm tractor operator ensuring the proper equipment, seed mix and amount of seed was being used for the seeding of the crop prior to crimping. Workers were harrowing the bar ditch on the east side of the road where the access ramp was previously taken out, the purpose of harrowing the ditch is to level, clean and restore to its original condition prior to installation of access ramps; Monitored Rd.17 and Rd.18 referring to section 14.0 in the E.P.P; The R.O.W. was being re-contoured to its pre-construction state as well graded, debris such as garbage, stakes, flagging, waste and hazardous materials have been cleaned and picked up prior to reclamation of the R.O.W. and properly disposed of in designated containers and approved facilities. The top soil has been replaced as evenly as feasible, feathered out, graded and is now awaiting to have erosion controls implemented; Monitored SSKP 1054.179-(MB-WC71) referring to section 10.0 and 6.0 in the E.P.P; Lowering in and welding was commencing during my time at the site, spoil piles were separated to be put back in its pristine condition once the pipe is welded and coated. Proper signage is in place as well silt fencing for erosion controls; Finished off day compiling days information into daily report; Work forecast: Monitor spread #9.

October 24<sup>th</sup>, Slips trips falls - 3 Point contact, tie your boots, watch your footing. Communication - Maintain communication amongst the crew, dusty roads - drive slow, keep safe distance between vehicles, be courteous to other drivers, un-controlled intersections - treat them as four way stops, be courteous, congested areas - be ROW ready, avoid if possible, awkward body pos. - take micros to stretch, wildlife - scan the ditches, be aware, defensive driving, theft - lock up your vehicle, keep belongings out of eye sight; Ensure proper disposal and separation of garbage and recycling; Smoke in designated area's only; Proper disposal of cigarette butts; Ensure vehicle/equipment is cleaned and inspected; Ensure Tires are cleaned and inspected; Vehicle is equipped with bleach and spill kits; Ensure Bio-Security protocols are followed; 6:00 AM Inspectors meeting; Texting and driving was brought up as the safety moment, safety had touched base on ladder securement and staying clear of the line of fire. Environment mentioned that the tackifier is not to be emptied out on organic lands; 6:15 AM Environment meeting; Environment lead informed the environment team and myself there is no fish in Lac Rondeau as well when the pit gets excavated the spoil piles will be contained on geotec and winged up; 7:00 AM Construction meeting; Safety had talked about focusing on the task at hand, safety before production. Spoil piles are to be a minimum of 4 feet from the ditch as well trench boxes to be used as required in case of a sluff out. Environment mentioned to ensure all garbage and debris cleaned

before the crimper goes through; Lorne Parisian had conducted the morning safety meeting discussing hazards, controls, ERP and muster points for the work day. I had assigned the junior monitors with SSKP'S to be monitored as well my own SSKP'S of interest to monitor; Monitored crimping at Rd.8 facing West referring to section 14.0 in the E.P.P; Equipment was out busting bales and crimping the West side of road 8, bio-security measures are followed as they are working on topsoil as well the amount of crimping to be done is followed as recommended by Enbridge's Environment team; Monitored Rd.18 facing West referring to section 14.0 in the E.P.P; The R.O.W. had been restored to its pristine condition now awaiting erosion controls to be put in place and revegetation in the near future. Bio-Security measures had been followed prior to grading of the topsoil (equipment fine clean and disinfect); Monitored Rd.20 facing West referring to section 14.0 in the E.P.P; Reclamation was taking place to have the sub soils spread and graded before final reclamation commences, the soils are put back to their original grades, bio-security measures are taken as the equipment is working with topsoil; Monitored SSKP 1054.179-(MB-WC71) referring to section 10.0 and 6.0 in the E.P.P; Proper signage is in place as well silt fencing for erosion controls, no construction was commencing while I was at site; Monitored SSKP 1049.100-(MBR-WC8) referring to section 10.0 and 6.0 in the E.P.P; Tying in was occurring when I was at the site, proper signage was in place as well as silt fencing (Erosion control). Spoil piles were separated to be up back in its native area's once construction is finished and the drainage is restored; Monitored Rosenheim drain and surrounding area SSKP-1071.179-(MB-WC76)-(HER-176); The horizontal direction drill rig had been de mobbed out, the environment controls for the channel such as silt fencing, riparian buffer zone and signage is intact, as well the site is clean as there was no findings of garbage or spills when I had walked and swept the area; Checked on Dead Horse Creek SSKP-1041.790-(MB-WC1002)-(HER-175), excavators were working on taking out man made bridge for equipment crossing, no other construction was commencing during my monitoring of the site;

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morning discussing the hazards, controls, muster points and the ERP for the work day, junior monitor Lorne Parisian had taken the day off due to personal reasons so Grant and myself had set out together; This morning I had taken Grant on my morning routine checking the progress on crimping, final clean up and DE compaction. I had educated Grant on the purpose of crimping explaining to him it is used as an erosion control as well explained to him crews go through and ensure all debris is taken out before seeding and crimping commence; Monitored Dead Horse Creek SSKP 1041.790-(MB-WC1002) referring to section 9.0 in the E.P.P; Checked out the area where the equipment crossing was pulled out, bio-security measures were followed on my part as I was monitoring off the rig mats. The area needs to be revegetated but the land and native soils look to be intact and un-disturbed; Monitored SSKP 1049.100-(MBR-WC8) The workers were still working on the pipe, we had left due to congestion and will be back tomorrow to view restoration if construction is finished; This afternoon we had our weekly meeting with Matrix-Solutions general manager Greg Lewis; Finished off day compiling days information into daily report.

October 26<sup>th</sup>, Slips trips falls - 3 Point contact, tie your boots, watch your footing. Communication - Maintain communication amongst the crew, dusty roads - drive slow, keep safe distance between vehicles, be courteous to other drivers, un-controlled intersections - treat them as four way stops, be courteous, congested areas - be ROW ready, avoid if possible, awkward body pos. - take micros to stretch, wildlife - scan the ditches, be aware, defensive driving, theft - lock up your vehicle, keep belongings out of eye sight; Ensure proper disposal and separation of garbage and recycling; Smoke in designated area's only; Proper disposal of cigarette butts; Ensure vehicle/equipment is cleaned and inspected; Ensure Tires are cleaned and inspected; Vehicle is equipped with bleach and spill kits; Ensure Bio-Security protocols are followed; 6:00 AM Inspectors meeting; Safety had talked about having proper controls in place such as fencing, flagging and signage as well had mentioned to use proper cribbing when working with pipe. Working in the dark will not be authorised unless light plants are being used; 6:15 AM Environment meeting; 7:00 AM Construction meeting; With freezing conditions upon start preparing for winter driving. Safety had touched base on topics discussed in the 6:00 AM meeting, environment mentioned that yard inspection will commence today as well Thornhill Coulee's bridge will be pulled out; This morning junior monitor Lorne Parisian had conducted the safety meeting discussing hazards and controls for the work day. I had assigned the juniors SSKP'S to be monitored as well as myself. Monitoring was limited today due to weather conditions this morning. I had spent some time in the office studying the E.P.P. as well going over the alignment sheet; Monitored Final clean up at Rd. 22 referring to section 14.0 in the E.P.P; Dozers and grader were feathering and grading topsoil. Bio-Security measures were followed as required and garbage, debris and hazardous materials. They have all been properly disposed of in an environmentally friendly matter; Monitored SSKP-1054.200-(MBR-WC71) referring to section 6.0 and 10.0 in the E.P.P; Excavator was backfilling the drainage with the native sub soils, second soils and top soil. When the stripping and ditching occurred prior to construction the soils were separated and is now being put back to original state; Finished off day compiling days information into daily report.



October 27<sup>th</sup>, Slips trips falls - 3 Point contact, tie your boots, watch your footing. Communication - Maintain communication amongst the crew, dusty roads - drive slow, keep safe distance between vehicles, be courteous to other drivers, un-controlled intersections - treat them as four way stops, be courteous, congested areas - be ROW ready, avoid if possible, awkward body pos. - take micros to stretch, wildlife - scan the ditches, be aware, defensive driving, theft - lock up your vehicle, keep belongings out of eye sight; Ensure proper disposal and separation of garbage and recycling; Smoke in designated area's only; Proper disposal of cigarette butts; Ensure vehicle/equipment is cleaned and inspected; Ensure Tires are cleaned and inspected; Vehicle is equipped with bleach and spill kits; Ensure Bio-Security protocols are followed; \* 6:00 AM Inspectors meeting; Safety had discussed on using defensive driving, ensure light plants are grounded and mushroom caps on T-Bar post. Environment had mentioned open watercourses need to have continual work until 100% completed; 7:00 AM Construction meeting; Safety had touched base on topics discussed in the 6:00 AM meeting, Environment stressed to make sure the watercourses are completed in a continuous matter once they are opened up to be restored as is in compliance; Lorne Parisian had conducted the safety meeting this morning discussing hazards and controls for the work day. I had assigned the junior monitors SSKP'S to be monitored as well as my own of interest. This afternoon has rain in the forecast so we will be moving along quickly to beat the rain; Monitored Rd.22 Final Clean up referring to section 14.0 in the E.P.P; The machines were cleaned prior to final clean up as bio security protocols require, the top soil is being feathered out and graded to pre-construction states; Monitored SSKP-1054.200-(MBR-WC71) referring to section 6.0 and 10.0 in the E.P.P; The excavator was putting the native soils back in place prior to disturbance as required, the drainage is being re-contoured to its original flow pattern and banks will be sloped and graded to its original state prior to construction. Erosion controls will be put in place such as bank wrap and or jute matt; Made way West to monitor the crimping and seeding but it seems they are offline today; Finished off day compiling days information into daily report.



## Photos of Sites Visited & Topics Discussed This Week

**October 22, 2018**



Separated spoil piles at 1054.179  
Photo taken South



Excavator at Dead horse Creek  
Photo taken Northeast on South side of creek

**October 23, 2018**



Topsoil reclamation at the  
escarpment Rd.18  
Photo facing West



Harrowing bar ditch at Rd.7  
Photo facing East



Lowering in and welding at SSKP 1054.179  
(MB-WC71) Photo facing West

October 24, 2018

5.00 Photos

Photo



Description & Location:

Reclamation at Rd.20  
Photo taken facing West

Photo



Description & Location:

Final clean up at Rd.18  
Photo taken facing West  
(Escarpment)

Photo



Description & Location:

Crimping at Rd.8  
Photo taken facing West

Photo



Description & Location:

Tying in at SSKP-1049.100-(MBR-WC8)  
Photo taken facing North

**Cory Monkman**

**October 25, 2018**

**5.00 Photos**

Photo



Description & Location:

Dead Horse Creek equipment crossing  
removal SSKP 1041.790-(MB-WC1002)  
Photo facing North

Photo



Description & Location:

De-Compaction and clean up  
Rd.21 Facing West

Cory Monkman

**October 26, 2018**



Final Clean up at Rd.22  
Photo taking West.



Excavator backfilling drainage  
1054.200-(MBR-WC71)  
Photo facing West.

**October 27, 2018**



Excavator at 1054.200-(MBR-WC71)  
Restoring drainage. Photo taken facing East



Rd.22 Final Clean up. Photo facing East

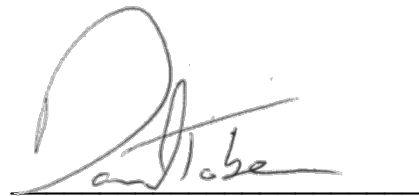
**APPROVALS**



\_\_\_\_\_  
Corey Monkman  
Senior Construction Monitor

\_\_\_\_\_  
November 14, 2018

Date



\_\_\_\_\_  
Daniel Tober  
Senior Environmental Scientist

\_\_\_\_\_  
November 14, 2018

Date