

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

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 7

SEPTEMBER 17TH TO SEPTEMBER 22ND

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 September 17th to September 22nd, 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 September 17, 2018, safety theme identified, slips, trips, falls and congested sites. Talk about line 3 motor vehicle incident. Don't use your cell phone while you're driving; Temp +11, UV index 2 or low, clean and disinfect vehicle and boots at the giant car wash in Brandon, Manitoba, follow all Bio security. Pick up garbage on the ROW when need to; SF(KP817+900) Monitor Banister going down the ROW with a dozer and a side boom attached. The machine you see hanging from side boom is a prep machine. What the prep machine is doing is bevelling the pipe to get the pipe ready for the automatic welder's; after the bevel is done clean-up crew comes right after and cleans up whatever mess there is to clean; SF13 (KP821+000) monitor Direct Horizontal Drilling; Prepping the site to get the bore pipe under the roadway. Excavator digging up the trench for the box and the bore pipe to be installed; SF26(KP836+409) Monitor Banister welding the bore pipe prepping the pipe to be install; SF27(KP838+200) monitor THE BIG Dirty TRUCK WASH. The wash station was very busy today there were 8 dozers waiting to be fine cleaned and disinfected. They have to be clean before leaving SF27; Work forecast: go back and monitor the ROW tomorrow.

On September 18, 2018, safety theme identified, slips, trips, falls, weather, congested sites wildlife and dusty roads; Temp +15, 30 percent chance of rain. Clean and disinfect vehicle and boots. Follow all bio security; fog patches in the morning. Pick up garbage on the ROW when need to which it does not happen too often; SF4(KP812+000) Monitor the welders at SF4. The welding has started NW of SF4. There was 7 dozers on site 5 of the dozers had welding shacks attached to the side booms. The shacks over the pipe are to stay out of bad weather and mostly out of the wind; SF11(KP819+100) Monitor Banister prep machine doing work going east .The prep machine goes ahead and bevel the pipe for the welders. You will see the prep machine in the photos; SF13 (KP821+000) Banister was installing the bore pipe under the roadway. The bore pipe was complete by end of day; SF28(KP841+300) Monitor Banister prepping the wetlands. They were building a ramp and laying down 3kms of geo-tech down on the wetlands going west towards the wetlands; Work forecast: Go back tomorrow and monitor the ROW.

On September 19, 2018, safety theme identified, trips, slips, falls, weather, wildlife congested sites, dusty gravel roads; Temp 13, UV index 4 or moderate. Clean and disinfected vehicle and boots; follow all bio security; pick up all garbage on the ROW when needed; which doesn't happen too often; SF4(KP812+700) Monitor banister preheating crew. The preheating crew goes ahead of the welder's and they heat the pipe at 120 degrees, once the pipe reaches the right temp they run a heat stick (marker) on the pipe if the marker don't leave a mark on the pipe it hit the 120 mark. Ready for the internal welding machine to start welding. The machine weld's the inside of the pipe. Photo taken of the welding machine; SF4 (812+000) Once the welding is complete a company call APLUS R+D comes behind the welder's and scan the weld to make

sure the weld is all good; SF28 (KP841+400) Reassess the wetlands. Banister started to lay down the geo-tech on the wetland. The purpose of geo-tech on the wetlands is to protect the wetland. Once the geo-tech is laid down then they put sand on top of it acting like a ramp to get across the wetland. It looks very good after all done; Work forecast: Go back and monitor the welder's at SF 4 going east.

September 20, 2018, safety theme identified, slips, trips, falls, weather wildlife congested sites and dusty gravel roads; Temp +13, UV index 4 or moderate. Clean and disinfected vehicle and boots; follow all bio security. Pick up all garbage on the ROW when needed; SF4(KP814+900) Monitor Banister going ahead of the welder's preheating the pipe. The welding is going ahead very well. They are using an internal welding machine that has a 4 spinning heads. The machine weld's the inside of the pipe spinning the welding heads inside of the pipe. It takes 2mins to weld the inside of the pipe; SF28 (KP841+300) Monitor Banister laying down the geo-tech on the wetlands. They have to lay 3kms of geo-tech to protect the wetlands. They have to haul sand on top of the geo-tech building a ramp to get across the wetland; SF60(KP899+800) Monitor Banister going to attached the test head on to the pipe. Before they weld the test head on to the pipe they fill the pipe with water and put the pig into the pipe. The purpose for the pig is to clean the pipe the pig pushes the water through; Weather forecast: Go back and monitor the ROW.

September 21, 2018, safety theme identified, slips, trips, falls, weather congested sites wildlife; Temp +14, UV index 4 or moderate. Fog patches in the morning, clean and disinfected vehicle and boots, follow all bio security, wetland, 1 MB-1039 wet semi-permanent marsh class 4 wetland complex; SF7 (KP816+600) Monitor Banister welding crew. The welder's are really moving down the ROW. Site is nice and clean; SF28 (KP841+000) Went to re-assess the wetland MB054. Banister is laying down geo-tech on the wetlands to protect the wetland, and also hauling sand with rock trucks to put on top of the geo-tech. They're using 3 rock trucks and one dozer to level out the sand; SFF10(KP818+800) Went to monitor the MB-1039, wet semi-permanent marsh class 4 wetland complex where the welder's are welding; Work forecast: going back tomorrow to monitor the ROW.

September 22, 2018, safety theme identified, slips, trips, falls, weather, wildlife, follow speed limit on the ROW, congested sites; Temp +3, calling for snow this afternoon. Clean and disinfected vehicle and boots; follow all BIO security; Wetland: 1 Ephemeral/Temporary Marsh Class 1 & 2 Wetland Complex Status work ongoing; SF11(KP819+300) Banister are moving east on the ROW with the welding, slower today because of the weather, all sites are nice and clean as they move east, SF12 (819+400) Monitor Banister crossing the road with dozer's and welding shack's under the power lines. They also had spotters when crossing the road and power lines; SF28 (KP841+300) Re-assess the wetland MB054, making very good progress with the geo-tech and the sand. The geo-tech is to protect the wetland when banister ready to cross the wetland. Everything will grow back on the wetland once they remove the geo-tech. Work forecast: go and monitor the ROW.

Photos of Sites Visited & Topics Discussed This Week

September 17, 2018



SF8(KP817+900)

Dozer moving the prep machine to
bevel the pipe



SF8(817+900)

This is what a bevel pipe looks like after the
prep machine is done.



SF8(KP817+900)

The operator is prepping to bevel the pipe.
Photo taken facing east



SF27(KP838+200)

The Big Dirty Truck Wash. Clean and disinfect the dozer. Photo taken facing east

September 17, 2018



SF28(KP841+300)

Banister putting down 3kms of geo-tech on the wetlands going west. Photo taken facing west.



SF11(KP819+100)

This is a prep machine use for beveling pipe. They prep the pipe for the welder's. Photo taken facing west.



SF4(KP812+000)

The welder's are welding NW of SF4.
Those are the welding shacks that they put
over the pipe to stay out of bad weather.
Photo taken facing NW



SF4(KP812+000)

Banister prepping the pipe ahead of the
welder's. Photo taken facing NW of SF4

September 19, 2018



SF4(812+700)

Banister is preheating the pipe at 120 degree.

Photo taken facing South



SF4(812+700)

Banister internal welding machine this machine weld's the pipe on the inside of the pipe. Photo taken facing south.



SF28(KP841+400)

Banister laying down the geo-tech on the wetlands going west. Photo taken facing west.



SF28(KP841+400)

Banister laying down sand on the geo-tech going west on wetlands. Photo taken facing west.

September 20, 2018



SF4(KP 814+900)

This is what they call an internal welder
Photo taken facing south



SF(KP899+800)

This is the test head that going to be weld on the pipe. Photo taken facing south



SF60(KP 899+800)

This is where the test head going to be attached at the end of this pipe. Photo taken facing south



SF60(KP899+800)

This is what they call a pig .The pig is used to clean out the pipe they fill the pipe with water and push the pig through it. Photo taken facing west.

September 21, 2018



SF28 (KP 841+000)

This is where the geo-tech is being laid on the wetland. Photo taken facing west



SF28 (KP841+000)

This is what geo-tech looks like on the wetland.
They have to lay 3kms of geo to protect the
wetland. Photo taken facing west.



SF28(KP841+000)

Rock truck unloading sand on the geo-tech.
Building a ramp to get across the wetland.
Photo taken facing west



SF10 (KP818+800)

The welder's crossing 1039 wetland semi-
permanent marsh class 4 wetland complex.
Photo taken facing west.

September 22, 2018



SF12(KP819+400)

Banister crossing the road under the power lines. They had spotters when crossing.



SF28(KP841+300)

Ephemeral/Temporary Marsh Class 1 & 2
This is where banister is laying down the geo-tech and sand .Geo-Tech is to protect the wetland. Photo taken facing west.


APPROVALS



Arnold Breland
Construction Monitor

October 2, 2018

Date



Daniel Tober
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October 2, 2018

Date