

**SWAN LAKE FIRST NATION – MATRIX SOLUTIONS
INC. PARTNERSHIP**

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 8

OCTOBER 1ST TO OCTOBER 6TH

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 eight. 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 1st to October 6th, 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

Weekly activity included attending daily tailgate meetings and continue to check access points on the ROW and monitor Spread 8.

October 1, 2018 - Safety included: Muddy, slippery, rough walking conditions. Slips, trips, falls, Driving conditions, Congested sites, Wildlife, Distracted driving, Fatigue. Watch for farm equipment on roads, Watch out for busses on rural roads and school zones. Watch out for vehicles in uncontrolled intersections. Stay out of machine swing zones and blind spots. Watch for dangerous drivers. Watch out for speeding drivers in construction zones signs are being ignored.

Weather forecast/Environment: High of 7C. Cold and windy conditions

Fine clean and bleach when entering a new RM or land owner requested wash.

General:

Attend morning meeting

SF 2 (KP911+616) Excavator stripping half of the approach. Geotex cloth used works well when removing approach. Dozer is track packing the ROW. Crew members assisting excavator when needed, also cleaning soil that was tracked onto the Hwy. Traffic was speeding by the work site, I went and checked the road construction signs to assure they were uncovered. I warned the crew member that traffic was ignoring the signs and to be cautious when vehicles are coming.

SF 23 (KP 948+086) Bore crew is onsite. Excavator is working on the bore ditch. Workers removed snow fence so excavator can easily access the trench. When work was complete snow fence was put back into place.

SF 24 Bore crew is onsite. Excavator digging trench for bore drilling. Snow fence has been placed around the open pit being dug. Dozer pushing soil that is being removed for the trench is being piled on the South side of the ROW away from the other soil piles. Crew members are exposing foreign utilities using shovels.

SF 26 Lowering in crew crossed the road going North to South, Direct flagging was onsite stopping traffic. Crew was wearing appropriate PPE.

SF 30 Coating crew is onsite coating the welding joints on the pipe. Side boom was used to move the coating shack down the ROW. Crew was moving East to West.

SF 47 Set up crew is onsite. Side boom is using slings to lift and move the pipe. Crew members stacked skids for pipe to sit on. Pipes were placed onto stacked skids.

SF3 Caterpillar and excavator levelling clay on East side. Westside, tractor with disc parked. Crossing for wetland area still in place. Tandem truck parked on side of road.

SF4 Two excavators, one caterpillar and a grader levelling clay on East side. West side excavator making ramp narrower. SF5 Trench covered and graded on East side. On West side trench open by road and pipes that were standing are cut lower.

KP 916+500 SF6 West side crew removing pegs from sides of ROW. East side caterpillars and excavators levelling clay. SF48 Excavator loading and unloading pipes on and off of trucks. SF22 Angle drill working on North side of road. SF24 Excavator digging trench, caterpillar pushing clay into pile. SF24A Excavators digging trenches on both sides of road.

Work Forecast: Continue to monitor construction, wetland habitat, water courses, and Tradition land use areas.

October 2, 2018 - Safety included: Muddy, slippery, rough walking conditions. Slips, trips, falls, Driving conditions, Congested sites, Wildlife, Distracted driving, Fatigue. Watch for farm equipment on roads, Watch out for busses on rural roads and school zones. Watch out for vehicles in uncontrolled intersections. Stay out of machine swing zones and blind spots. Watch for dangerous drivers. Watch out for speeding drivers in construction zones signs are being ignored.

Weather forecast/Environment: Cloudy with flurries, High of 5

Fine clean and bleach when entering a new RM or land owner requested wash.

General: Attend morning meeting

SF (KP 940+950) Wetland habitat, Bore crew is onsite. Bore drilling is taking place, drilling diagonal North to South underneath road. Excavator on the South side of the road is continuing to dig bore pit. Soil is being placed into a rock truck and is being piled on the ROW away from Top soil and Seconds piles. Open ditch is fenced off and has proper signage. Stairs have been built into the pit for access. SF 23 Bore crew is onsite. Side booms are being used to pull pipe through the bore hole underneath the road. Open ditch barriers removed temporarily for work to take place. Flagging crew is onsite stopping traffic when needed. Pipe was removed and taken across the road going West to East. SF 24 (KP949+600) Bore crew onsite, continuing to dig trench on the South side of the road. Excavator removing soil and placing on the ROW for the dozer to pile adjacent to the trench away from other soil piles. Trench is fenced and roped off. Stairs were built into the pit. Existing line crossing has been exposed and is being held in place with rope. A crew member is assisting excavator when needed, giving him depth measurements. SF 8 (KP921+205) Oak Creek crossing, further digging was required for Bore pit. E.I informed of me when they would start digging. Upon arrival I was informed that another bone was found while digging the next 1M down. I informed worker that was onsite to keep it onsite until I knew what to do with it as there was no Golder Archaeologist in the area. I stayed onsite until the latest I could, no further bones were found. Crew dug another 2m deep. Wishing well was installed to pump water out of the pit. Water was being pumped into silt bags. SF3 Clay on both sides of road are spread out and graded. Excavator on West side ramp pulling up geo-tec and clay. East side also making the ramp narrower. SF4 Taking out ramps on both sides of road. Caterpillars levelling clay farther down ROW. Excavator digging trench while caterpillar moves clay on west side. On the East side caterpillar taking out ramp. Two excavators also waiting. SF6 On East side grader levelling clay and caterpillar levelling transition. On West side excavator waiting for spotters to cross road.

Work Forecast: Continue to monitor construction, wetland habitat, water courses, and Tradition land use areas.

October 3, 2018 - Safety included: Slips, trips, falls, driving conditions, congested sites, Wildlife, Distracted driving, Fatigue. Watch for farm equipment on roads, Watch out for busses on rural roads and school zones. Watch out for vehicles in uncontrolled intersections. Stay out of machine swing zones and blind spots. Watch for dangerous drivers. Watch out for speeding drivers in construction zones signs are being ignored.

Weather forecast/Environment: Cloudy with rain and snow, High of 1

Fine clean and bleach when entering a new RM or land owner requested wash.

General: Attended morning meeting

SF 20 crew working on Environmental deficiencies, Excavators have oilers working with help and spotting when needed. Dozer is onsite pushing soil into pile on the South side of the ROW. SF 22 Bore crew onsite continuing to dig trench. Crew is pumping water out of open ditch into silt bags. Soil is being removed and is being placed in a pile adjacent to trench. Light generator and small generator are next to open ditch with no spill trays underneath. I informed a crew member to place spill trays under both generators. I drove by a few hours later and spill trays were placed under generators.

SF 30 East side of the road crew is on standby due to weather impact. West side of the road crew is retrieving skids and piling on a trailer. SF20 Excavator digging along West side of road and caterpillars pushing and piling clay to side. Excavator being fuelled up.

SF21 Excavator loading pipes onto truck. SF22 Rock truck parked beside piles of topsoil. Excavator digging trench while another moves the clay over to the side.

Crews laying out hoses to drain water out of trench.

Work Forecast:

Continue to monitor construction, wetland habitat, water courses, and Tradition land use areas.

October 4, 2018 - Safety included: Due to weather impact on gravel roads drive with caution, possibility to slide of road when passing vehicles or equipment. Slips, trips, falls, driving conditions, congested sites, wildlife, distracted driving, fatigue. Watch out for both rural roads and school zones. Watch out for vehicles in uncontrolled intersections. Stay out of machine swing zones and blind spots. Watch for dangerous drivers. Watch out for speeding drivers in construction zones signs are being ignored.

Weather forecast/Environment: Mix of sun and cloud, High of 3.

Fine clean and bleach when entering a new RM or land owner requested wash.

ROW is wet and muddy.

General: Attend morning meeting

SF Excavator removing some soil in the trench and placing in soil pile adjacent to the trench. Open ditch is fenced off and has proper signage.

SF 35 Coating crew onsite. Side booms were used to move coating shacks along the ROW. Crew is coating weld joints on the pipe, travelling West to East.

SF 40A Welding crew crossing the road going West to East. Side booms are carrying welding shacks and moving along the ROW. Crew members are using ropes to prevent welding shack from swaying to much while crossing the road. Propane truck is trading out propane tanks on some of the welding shacks. Flaggers were used to stop local traffic. Swan Lake Pipe yard is almost empty. Field is worn but no rutting. No garbage on site, security is at access. *Not able to access ROW due to weather impact, vehicle not suited to drive the ROW when it is wet. SF24 Side booms holding up pipe getting ready to place it. Crew also heating up a part of another pipe. SF25 West side, excavator cleaning trench, crew member checking trench. East side, excavator moving clay over to side and loading clay into rock truck. SF35 Side boom holding welding shack over pipe and other crew testing pipe.

Work Forecast: Continue to monitor construction, wetland habitat, water courses, and Tradition land use areas.

October 5, 2018 - Safety included: Muddy, slippery, rough walking conditions. Watch for black ice in the morning, Due to weather impact on gravel roads drive with caution, possibility to slide of road when passing vehicles or equipment. Slips, trips, falls, Driving conditions, Congested sites, Wildlife, Distracted driving, Fatigue. Watch out for Busses on rural roads and school zones. Watch out for vehicles in uncontrolled intersections. Stay out of machine swing zones and blind spots. Watch for dangerous drivers. Watch out for speeding drivers in construction zones signs are being ignored.

Weather forecast/Environment: High of 2C. Snow and ice.

Fine clean and bleach when entering a new RM or land owner requested wash.

ROW is wet and muddy.

General: Attend morning meeting

Drove out to SF 19 and 22A. Indigenous Liaison informed me to shut down early to weather impact and weather conditions. *Not able to access ROW due to vehicle not being suitable for wet ROW conditions. Attended Line wide meeting regrading Aboriginal Construction Monitors at 2pm.

Work Forecast: Continue to monitor construction, wetland habitat, water courses, and Tradition land use areas.

October 6, 2018 - Safety included: Muddy, slippery and rough walking conditions. Stay out of swing zones while onsite. Watch for wildlife coming out of ditches, Watch for wide loads on Hwy #2. Due to weather impact on gravel roads drive with caution, possibility to slide of road when passing vehicles or equipment. Slips, trips, falls, Driving conditions, congested sites, wildlife, distracted driving, fatigue. Watch out for busses on rural roads and school zones. Watch out for vehicles in uncontrolled intersections. Stay out of machine swing zones and blind spots. Watch for dangerous drivers. Watch out for speeding drivers in construction zones signs are being ignored.

Weather forecast/Environment: Mix of sun and cloud, High of 3

Fine clean and bleach when entering a new RM or land owner requested wash.

ROW is wet and muddy.

General: Attend morning meeting

SF 22A Bore crew is onsite. Drill rig is on the North side of the road drilling South East underneath the road. South side of the road, side booms are preparing to lower pipe into the trench. ROW is wet and muddy. SF 26 Bore crew is onsite. trench has a lot of water in it. Crew is preparing to pump the water out. The generator for the water pump did not have a spill tray underneath it yet, I reminded a crew member to make sure there is a sprill tray under it before it is started. Existing line is crossing the open trench, it is being held in place by rope. Open ditch is fenced off and has proper signage. There is little space on the ROW and it is wet and muddy, crew trucks were parked on the road all on the same side in order not to impede traffic. Flaggers are in place to slow/stop traffic when needed. SF 36 Coating crew is onsite. Side booms are being used to move coating shacks along the ROW. Crew is onsite coating the welding joints on the pipe working West to East. SF25 Excavator parked while one side boom holding up pipe on West side of road. Other side booms waiting. SF26 Caterpillar crossing road, lots of water in trench. SF32 On North side excavator moving clay, other excavators parked. On the South side an excavator was digging trench. SF33 Excavator digging

trench. Lots of water and ice on ROW. SF 43 Side booms holding welding shacks for welders.

Work Forecast: Day off

Photos of Sites Visited & Topics Discussed This Week

October 1, 2018



Description & Location:

SF5 Facing North
Pipes cut shorter.



Description & Location:

SF26 Facing East
Side Booms moving down ROW.

Photo



Description & Location:

Photo facing South West
SF 2 (KP 911+616)
Excavator stripping half the approach.

Photo



Description & Location:

Photo facing South East
SF 24 South side of the road.
Excavator digging bore pit, Crew members
using shovels to expose foreign utility.

Photo



Description & Location:

Photo facing South East
SF 30 East side of the road.
Coating crew is onsite coating weld joints
on pipe.

Photo

Right Click
Change Picture..

Description & Location:

October 2, 2018



Description & Location:

SF3 Facing West
Excavator removing clay and Geo-tec from south half of approach.



Description & Location:

SF5 Facing West
Excavator digging trench while caterpillar moves clay to side.

Photo



Description & Location:

Photo facing North West
SF 22 (KP 940+950)
Directional driller drilling underneath road.

Photo



Description & Location:

Photo facing South West
SF 8 (KP921+205)
Excavator digging Bore pit.

Photo



Description & Location:

Photo facing North
SF 8 (KP921+205)
Bone that was found while digging the Bore pit. Approximately 1 foot in length.

Photo

Right Click
Change Picture..

Description & Location:

October 3, 2018



Description & Location:

SF20 Facing West
Excavator digging along West side of road.
Excavator being fueled up.



Description & Location:

SF22 Facing South East
Excavator digging trench while another
moves clay to side.

Photo



Description & Location:

Photo facing West
SF 20 West side of the road.
Crew is working on Environmental
deficiencies.

Photo



Description & Location:

Photo facing South east
SF 22 South side of the ROW
Excavator continuing to dig trench, crew
pumping water out of trench.

Photo



Description & Location:

Photo facing West
SF 30 West side of the road
Crew is retrieving skids and placing on
trailer.

Photo

Right Click
Change Picture..

Description & Location:

October 4, 2018



Description & Location:

SF25 Facing West
Excavator cleaning trench
Crew member checking trench



Description & Location:

SF25 Facing East
Excavator loading rock truck
Water in trench

Photo



Description & Location:

Photo facing South West
SF 25 West side of the road.
Excavator is cleaning out trench.

Photo



Description & Location:

Photo facing South east
SF 35 South side of the ROW.
Coating crew coating welds.

Photo



Description & Location:

Photo facing North
SF 40A Road crossing.
Propane truck trading out propane tanks.

Photo

Right Click
Change Picture..

Description & Location:

October 5, 2018

****No photos for both****

October 6, 2018



Description & Location:

SF25 Facing West
Excavater parked.Side boom holding up
pipe,and other side booms moved into
place.



Description & Location:

SF33 Facing East
Excavater digging trench.
Lots of water and ice on ROW.

Photo



Description & Location:

Photo facing North West
SF 22A North side of the road
Drill rig in place dilling underneath road

Photo



Description & Location:

Photo facing South
SF 26 South side of road
View of trench that needs water pumped out.

APPROVALS

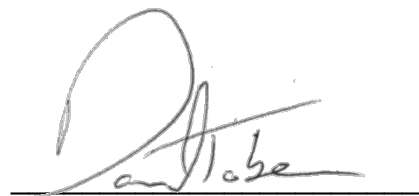


Justin McKinney

Senior Construction Monitor

November 28, 2018

Date



Daniel Tober

Senior Environmental Scientist

November 28, 2018

Date