

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

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 7

SEPTEMBER 4TH TO SEPTEMBER 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 September 4th to September 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			
Watercourse Crossing	N/A			

Additional Observations and Summary of Activities or Concerns

Attended daily tail gate meetings.

Weekly activity included monitoring the access points on the ROW and Spread 7.

September 4, 2018 – Safety included: Slips, trips, falls. Pay attention to the terrain and your footing.

Weather forecast: High of 19. UV index 6. wind northwest 30 km/h gusting up to 50

Tailgate meeting. SF # 59, banister semi-truck unloading skids, work area very muddy.

SF # 5, D 8- dozer being unloaded. SF # 10. Snowcat preparing work area to start building wetland ramps. SF # 15, No activity. Clean and organized

Me and Junior monitor went to Rd #60 SSKP 899+125 this morning to monitor the stringing but it was too wet. While there noticed an overhead powerline sign that was knocked down. I notified the field safety coordinator with Enbridge so they can notify the contractor to fix it. SSKP 822+000 at Rd #15 on south side of crossing the stairway made of soil was starting to cave in and had big cracks in it. The soil was wet and because of nearby wetlands it filled up the bell hole with water making the soil around excavation more unstable. I also notified the field safety coordinator of its unstable state.

SSKP 824+350 at Rd #17 on south side an excavator was digging out the exit point for road bore, Rig #2 drill the pilot hole and ream with 24". SSKP 829+253 at Rd #22 Biosecurity management fine-cleaning of heavy equipment, removed soil and debris and mist disinfectant on the surfaces of equipment that will come into contact with soil.

Work forecast: Check out SF # 60. monitoring work site

September 5, 2018 – Safety included: slips, trips, falls, distracted drivers.

Weather forecast: Sunny. High 20.

Attended Safety meeting. Travelled to RD # 59 No activity. RD#6, excavator removing topsoil and clear. RD# 10, workers building the wetlands ramp. Clean and organized.

RD# 21, clean and organized. RD# 22, repairs on the pipe, getting very congested, clean and organized. No environmental concerns. SSKP 855+100 there was a wetland complex Broad-Leaf Treed Swamp I assessed and swept, it was in good condition and no wildlife features were active. SSKP 842+440 Assessed a high potential area it was a Heritage sensitive area with an Enbridge valve site and Manitoba Hydro overhead powerline within our ROW and boundary.

Work Forecast: Assess the RTD crew that checks integrity of welds and the monitors are going to check out utility crew. Going to SF # 25 and 60

September 6, 2018 – Safety included: Slips, trips, falls. Watch your footing and pay attention to where you are stepping.

Weather forecast: 30 percent chance of showers late afternoon, with risk of thunderstorm with a high 22.

Attended safety meeting. Travelled to SF # 22, observing grader being pressure washed. No concerns. SF # 21, observed excavator digging open ditch very clean and organized. SF # 15, No activity. Clean and tidy. SF # 14, Workers putting up fence,

observed workers all the gas and oil was in the proper containment. SH # 11, Observed excavator loading a rock truck.

SSKP 825+954 Discovered ceremonial Indigenous plant called Sage on our ROW. Native American smudging is an ancient and sacred ceremony used to get rid of negative energy of objects like your home or your own body and other people.

SSKP 825+400 monitored the crew with Rotoscan that detects and measures welding imperfections within the weld and associated heat-affected zone, determining both the circumferential length and the through-thickness dimension. During the transportation or storage of oil and gas, it is essential that pipelines are completely safe. With welding imperfections, it can be harmful for environment and company image if not detected, the work being done by Applus RTD is one of the most important jobs in pipeline. They showed me there monitors after ultra-sonic scan and I learnt what they look for when looking at their results. The weld was good and ready for coating.

SSKP 808+600 monitored the Access crew strip the topsoil between Kick-off and Road #1, They were building road approaches at RD #1 and also built the Enbridge hot line ramp east of Rd #1. I met with the Banister Foreman and after talking was informed he was an Indigenous worker and so were 4 other members of his crew. They did a real good job and were careful when working around the boundaries. Was very nice to see an Indigenous person in a leadership role out here with the contractor Banister.

SSKP 826+426 Monitored another important role in pipeline the coating crew. They sandblast the weld after Applus RTD gives it the okay. They use an induction heat coil to get the weld to the right temperature. They clean the weld with a brush after and apply coating. It's not an easy process as they require the right temperature, proper mixture and correct application of millimetres of thickness around weld. It is then cured and inspected for quality assurance after 10-15 minutes of application. They also jeep the coating with a metal coil that is connected to a holiday detector which indicates if there's holes in the coating and sometimes there is which is usually on the weld as it sticks out more on the pipe and coating runs off of it. They repair it and jeep it again to 100% make sure there is no holes, it is then okay. I also noticed they are doing a good job cleaning the coating off the ground as it is toxic.

Work forecast: Tomorrow will try to get access to End Prep crew at Black Creek, will plan with monitors where they will go.

September 7, 2018 - Safety included: Weather, dress for the season not the day.

Listen for the weather forecast for the day. Dry and dusty, don't follow to close to other vehicles.

Weather forecast: Mix of sun and cloud with a high of 21.

Attended Tail gate meeting. Travelled to SF # 20, Very congested, workers taking down fence around the open ditch. Excavator digging, getting it ready for the stringing of the pipe. SF # 14, Very clean and organized, workers laying the G.E.O tech at the front entrance of the SF, very dusty. SF # 15, Workers putting up fence line. SF # 20, Returned to monitor the stringing of the pipe, very environmentally safe and tidy.

No environmental concerns.

Work forecast: Return and monitor the line.

September 8, 2018 – Safety included: Driving hazard dusty, keep 3 vehicles lengths away from one other. Good house-keeping, keep lights and windshields clean at all times. Communication important, let the foremen or supervisors know your where about at all times.

For our daily objectives sent the junior monitors to assess road bores and stripping top soil in sensitive areas, as for me I went to assess areas of wetlands and traditional land use areas. SSKP 879+718 At 360m north of our ROW there's increased Moose population. They released Timber Wolves into the parks in the mountains in the north near Dauphin, MB. These scared Moose away. The province closed down hunting in the mountains. There is hunting season starting soon and will need to be aware of hunters as it is Traditional land use area used for hunting in the fall (picture below).

SSKP 841+225 In the Wetland Ephemeral/Temporary Marsh class 1 & 2 spotted Canada Geese just south of ROW, in the environmental plans there is a site specific mitigation for seed mix once clean up starts. Areas are wet and will be once digging starts will need to pump water into approved area. At the Souris Stockpile Yard went to assess the area and the pipes will start to be hauled out of yard as stringing will start within the week, the signage for traffic was well posted.

Attended Tailgate meeting. Travelled to SH # 23, D-8 dozer stripping topsoil, Bobcat moving the mats to the entrance of the SF # 23. SF # 22, Badger truck vacuuming the water out of the open dich. No concerns, clean and tidy. SF # 21, Banister semi-truck unloading excavator at the entrance of SF # 21.

Work forecast: Return and monitor the line.

Photos of Sites Visited & Topics Discussed This Week



Sept 4/18
 Conditions on ROW muddy from rain
 At location noticed a knocked down sign
 Mats to step to access ROW
 Facing East with low bed truck in background



Sept 4/18
 Cracked stairway of entry of excavation
 Notified Enbridge safety of unstable ground
 Notice cracks bottom of picture unstable walls, cave in ahead of trench box



Sept 4/18
 SSKP 824+350
 Excavator digging exit hole on south side
 Orange stakes indicating bore alignment
 Rig mats to right used for hotline crossings
 Bore section in background



Sept 4/18
 SSKP 829+253
 Biosecurity Management cleaning station
 Dozers getting soil removed and debris
 Also mist disinfecting any piece that comes into contact with ground



Sept 5/18
 816 + 700
 Excavator removing top soil and doing clearing
 Photo taken facing south



Sept 5/18
 818 + 856
 Clean and organized
 Photo taken facing south



Sept 5/18
SSKP 842+440
Work area of importance
3 heritage sensitive areas
Enbridge valve site
Manitoba hydro powerline all on ROW



Sept 5/18
SSKP 855+100
Wetland Complex Broad Leaf Treed Swamp



Sept 6/18
821 + 183.3
Photo taken facing east
workers putting up the post for fence



Sept 6/17
823 + 253.0
Photo taken facing north west
Grader being pressure washed



Sept 6/18
SSKP 825+954
Scared Ceremonial Indigenous Plant
Sage on our ROW



Sept 6/18
SSKP 825+400
Applus RTD- Testing with ultrasonic scanner
Facing North



Sept 6/18
SSKP 808+600
Stripping Kick-off to Rd #1
Dozer building road approach
Flume pipe under geo tec, facing west
Flume pipe used to let water through



Sept 6/18
SSKP 826+475 – Facing north
Coated weld after inspection
Numbers indicate thickness
Also did a V-cut to check integrity



Sept 7/18
KP- 826+745.0
Workers getting ready to start the stringing
Photo taken facing east



Sept 7/18
KP- 821+183.3
Photo facing east
Workers laying geo tech
Wetland Complex



Sept 8/18
KP-830+923
D8-dozer stripping soil
Bob-cat moving mats



Sept 8/18
KP-826+650.0
Photo taken facing North.
Ream and pull the enbridge corridor bore. South fo SF #21



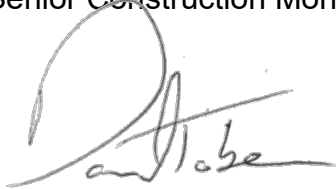
SEPT 8/18
Souris Stockpile Yard
Photo facing North west
White paint on pipe protects coating from sun

APPROVALS



Lee Bear
Senior Construction Monitor

October 26, 2018
Date



Daniel Tober
Senior Environmental Scientist

October 26, 2018
Date