

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

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 7

AUGUST 20TH TO AUGUST 25TH

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 August 20th to August 25th, 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	2	SSKP 816+700/905+000 905+00.5		
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 and safety meetings. Weekly activity included checking access points on the ROW and checking Roads 1, 2, 3, 4, 5, 6, 7, 11, 15, 16, 21, 59.

August 20, 2018 - Safety included: be aware of slips, trips, driving conditions and fatigue. Weather forecast was cloud cover and a smoky with a temp of 24. Walked to KP 904+709.5. It is all good with top soil stripping. Walk from 904+400 to 906+400 and met with Megan Trefry, the archaeologist. Tractor + disk at 906+400 906+0.25. 3:50pm found 2 bones and took pictures of bones. 905+000 905+00.5. Work forecast is to go to KP 904+400 August 21, 2018 Safety included: watch while driving- uncontrolled intersections, dust roads drive slowly -keep distance and scan for wildlife. Weather forecast was a bit of cloud with a temp of 24. Attended morning tailgate meeting at Rd 6 Virden. Rd 5 observed the wash station activities and everything done environmentally safe. Rd 15 D6-Dozer was fixed. Located deer antlers 905+290, glass fragment at 904+045 and chert rock found with Megan Trefry archaeologist at 904+075. Work forecast is to go to Virden to monitor Roads 5, 6, 15, and bone yard Rd4.

August 22, 2018 – Safety include: Slips, trips, falls, distracted drivers. Weather forecast very hot, dry and dusty with a high of 27. Dozers working the top soil, excavator digging soil by entrance on approach. Wash station in use, washing a dozer at Rd 5 Virden Rd 7- 2 John Deere tractors breaking soil. Rd 15 and 16 fenced off. Senior monitor met with Jeannette Morrison the Office Administrator to get the app for cleaning truck and met with William Crowe, Indigenous Liaison for spread 7 to discuss Senior monitor's duties. Set up office with computer and gathered maps and paperwork for spread 7. Work forecast to monitor the equipment at Rds 6 and 7.

August 23, 2018- Safety included: Medic at Rd # 4 Bone Yard, be aware of slips, trips, falls and fatigue. Weather forecast, temp 29 and smoky in areas, due to fires in the west. Rd-59 Black Creek, no activity. Kick-off Rd #1, Rd # 2, Rd # 3, Rd # 4, no activity Rd # 6, equipment working, 8-D8-dozers, 1 excavator, 1 grater. Stripping the topsoil. Rd # 7 monitoring banister fuel truck refuelling a skidder, was done environmentally safe. Attended morning meeting with Enbridge at 6am, the National Energy Board (NEB) was present and topics of discussion was that some trees were cut and fell into wetlands area, trees are to be cut away from wetlands. Another topic was housekeeping and maintaining a clean work area as garbage and cigarette butts were found. Medic 1 at Rd # 21/Medic 2 Rd# 63/Medic 3 Rd #4. Know what to do in an emergency situation use ERP and have it in view in vehicle at all times. Uneven ground be careful walking on ROW and watch getting out of vehicle on slopes could slip. Drink plenty of water stay hydrated and keep an eye out for co-worker's dehydration. Drive slowly when passing vehicles, be aware of surroundings, obey all traffic signs, drive defensively. Coordinate with other trades/crews and have good communication. Driving in yard be aware of people and traffic its getting busier. Being fit for duty get plenty of rest after work and eat healthy. Weather forecast dry and dusty on ROW and

gravel roads. After meeting discussed daily objectives with monitors, Arnold Breland would go to Rd# 5 and GERALYNNE COCHRANE would go with the senior monitor to Souris River, Black Creek and a Wetland habitat at KP 818+200. Souris river it was beautiful, it was a bit of a hike but worth it, also seen two white tailed deer grunting when we reached the river. Assessed the wetland on our ROW at Black Creek. Stumbled across a plant in our boundary I've never seen before, picture sent it to environmentalist and identified as a Milk Weed. Took a ride to kick-off to get familiar with the roads, no work being done now, there is wetlands also throughout kick-off to Rd#5. Took a picture of Wetland Habitat KP 818+200. Spoke to company manager to get an oil change for the vehicles. Learned about a few medicinal plants today (Sage and Grandfathers Beard) plants the Indigenous people use for natural medicine, plants that are native to the region were in. Work forecast is to monitor wetlands and equipment. Senior monitor will continue to get familiar with the ROW and assist the junior monitors with report writing and the work they will be doing.

August 24, 2018 – Safety included: Pinch points, driving conditions, weather, slips, trips, falls. Weather forecast, sunny with a high of 28. No activity or equipment working, rd # 14 Virden. Spoke with Banister hydro worker, working on goal posts. Rd # 16 fenced off. No activity, Mud piled on north east of the right away. Observed 3 dozers pushing top soil rd # 17. Spoke with Environmental Coordinator with the monitors about getting information about sensitive areas. Requested 2 copies of the Environmental Alignment Sheet Package to help better understand our surroundings by helping us learn and give our reports more accurate information. Assessed a rare plant called the Sand Bluestem, it was the first rare plant I've seen on the Line 3 Replacement project and I was captivated and excited as I've never seen this plant before, the tips of the plant have a feather like appearance, its location was by Road # 27 on the ROW at west side KP 838+132. It was properly staked at 10m and had a picture to illustrate its appearance. Next stop was about 1.5 km's off Road #26 entrance, there was no access so we walked in, we came across a heritage site and came across another interesting rare plant called the American lopseed KP 835+300 (picture below) it was hard to find like a needle in a haystack but we located it after 20 minutes. While looking for plant we came across a bone and broken skull in the middle of our projected ROW at KP 835+320. I took picture and notified the Environmental Coordinator and told me they will fence off area and have the archaeologist determine the species of the find. Work forecast look for rare plants, wetlands. Senior is giving the monitors a feeling of being more involved, we have many different types of watercourses/hydrology, wetlands, wildlife habitats, vegetation and some soil conditions that warrant additional mitigation. The monitors will pick where they want to go, and I will look at the sites they plan to see and confirm if they can go or not. I will mitigate arising concerns and change work scope when required from either Enbridge/Environmental when the time comes for specific sites that require monitoring.

August 25, 2018 - Safety included, while driving be aware of people and traffic, slow down when passing on gravel roads, use flag when driving on ROW, use 3-point contact when exiting and getting into vehicle, use spotter when backing up make sure spotter in safe spot, honk twice if no alarm when backing up. Drink plenty of water and make sure water is in vehicles before heading out to ROW. Be aware of operators on

the Row give them lots of space and have good communication with them. If unsure of task, ask someone who knows and be 100% positive before commencing task. Obey all traffic signs and don't tailgate behind other drivers, give lots of space. Watch for uneven ground, dips, slopes and branches so you don't trip. Weather forecast, Low 4°C to High 20°C Wind: NW 15 to 30 km/h Humidity: 43% Lots of sunshine. The monitors agreed to head out to a nesting area of the bird called Black Turnstone. Their breeding habitat is freshwater marshes and they have left the area as breeding is between May 1 to July 15. During the monitors assessment this was an area with many surprises. The monitors discovered a few nests in the trees that were not on the alignment sheets as well as a sighting of the Northern Leopard Frog. This was reported to the Environmental Coordinator who is going to get a biologist to do a sweep and assessment of the area. The monitors were jubilant about their findings as was I. The monitors location was SSKP 831+200/300/750. My first stop was at SSKP 821+112. It was a Wetland Complex class 5, a semi-permanent marsh. When the work starts by the road it will be bored with some potential hazards on the east side as they have a MTS cable 1.09m below the surface as well as a 24" buried conduit 1.25m below surface and also, an overhead powerline. The lines have been daylighted and were identified and we will go back and see the process when it gets started. At SSKP 817+650 observed the Environmental Inspectors extending the wetland buffer stakes from 10m to 20m as the National Energy Board has mandated. Next stop was a nesting area of the bird called the Horned Grebe at SSKP 816+700. Their breeding period is between April 1 to

August 31. Its' conservation status is vulnerable. They are known to breed in marshes and they prefer areas with sedges, rushes and cattails. This habitat provides a suitable site for nest material. In the same area I came across what appears to be bones from the remains of cattle. I took picture and sent it to the Environmental Coordinator with Enbridge, who will get the archaeologist to do assessment.

Photos of Sites Visited & Topics Discussed This Week



Aug 20/18
905+000 905+00.5



Aug 20/18
905+000 905+00.5



Aug 21/18
dozer at wash station
photo taken facing west
(816+100)



Aug 21/18
excavator parked



Aug 21/18
Deer antlers 905+290



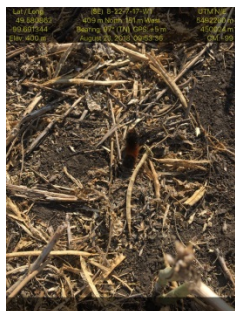
Aug 21/18
chert rock 904+075



Aug 23/18 KP 907+500
Beautiful Scenery of Souris River
Pink Boundary stakes
Facing South



Aug 23/18 KP 899+440
Milks Weed in work area



Aug 23/18 KP 907+550
Banded Woolly Bear Caterpillar
(Black+Orange)
On ROW



Aug 23/18 KP 818+200
Wetland habitat on ROW facing east



Aug 24/18 821+200
Wetland Complex class 4
Photo taken facing south



Aug 24/18 821+200
mud pile on side of north east entrance



Aug 25/18 SSKP 821+112
Wetland Complex Class 5
Facing West towards gravel road
Stakes indicating bore and buried lines
With overhead powerline safety rope above



Aug 25/18 SSKP 817+650
Environmental Inspectors extended
wetland habitat buffer by 10m
With skidsteer buncher in background



Aug 25/18 SSKP 816+700
Remains of what appears to be cattle bones
Discovered within our area of work



Aug 25/18 SSKP 816+700
Horned Grebe Nesting Waterbody
Marshy landscape was dried out
Looking towards NE

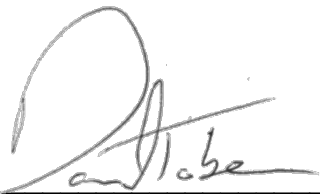
APPROVALS



Lee Bear
Construction Monitor

August 31, 2018

Date



Daniel Tober
Senior Environmental Scientist

August 31, 2018

Date