

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

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 8

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 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 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	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 continue to check access points on the ROW and checking SF 21, 22A, 23, 24A, 25, 27, 28, 30, 31, 32, 35, 35A, 36.

August 20, 2018 - Safety included: Slips, trips, falls, holes in certain places from badgers and other animals. Dusty roads, congested sites and wide loads. Smoke and haze. Weather forecast, very dry and dusty with a temp of 32. Wetland Habitat. SSKP Range 947+580 Wetland ID# MB 157 Wetland class 1V Water course ID# 45 KP 947+260 Rare Plant Community Unique ID VG-87 SF23 East side, stripping topsoil. SF25 Building crossing, doing silt fences. grading. SF24A Speed dozer and other dozers striping topsoil. SF28 Stripping topsoil, laying down geotec, making approaches to road. Top soil pile that exceeded the boundary line at KP 942+240 has been fixed and is now in compliance. Water course crossing KP 941+820. Bull rushes are tramped down. Aqua dam is completed. Crew setup water pumps and proceeded to pump swamp water beyond the aqua dam (Same water course). Pumps are placed into spill trays in case of any release. Sf 23 (KP948+131) Top soil stripping on ROW is taking place, Dozers pushing and piling top soil on the South side of the ROW. Dozers had spotters onsite. Top soil piles did not exceed boundary line. No signs of any heritage or traditional objects within ROW. SF 24A Top soil stripping taking place. Dozer was pulling the speeder dozer behind to help move down the ROW. Grader followed behind the dozers and grader the ROW. Work forecast continue to monitor wetland habitat and traditional areas, monitor water course crossing at KP 941+820, Monitor mechanical logging in sensitive area.

August 21, 2018 Safety included: Slips, trips, falls, Driving conditions, Congested sites, Wildlife, Distracted driving, Fatigue. Stay 2x the length of tree being cut for safe distance. Watch for farm equipment on roads, Watch for dust up on dirt roads. Stay 100ft away from Mowers. SF 30 access Top soil stripping and approach installation taking place. Excavator stripping edges and ditch to depth. Dozer stripped top soil from ROW and piled top soil on southside of ROW. A semi arrived onsite with a dozer. Semi had appropriate safety measures in place (Wide load escort and signage. Flaggers to stop traffic while unloading. SF 36 Line locating taking place. Hydro Vac was used to locate foreign utilities. Once utilities were found, holes were covered, staked and fenced off. Cones were place around Hydro Vac truck while on the side of the road. Cypress River East of SF 35 at bridge crossing, 3 turtles were spotted in water body. (Water course crosses ROW further down the river). SF 31 (KP961+025) Hand slashers onsite clearing brush and falling trees. Foreman went through tailboard and instructed to stay at minimum 2x the length of the tree being cut. Chainsaw operators refuelled chainsaws in a spill tray. Gas and oil containers were placed in spill trays. All appropriate PPE was being worn. Workers took regular breaks to prevent overheating. Hand slashing crew was informed to cut the approximate width of a feller buncher and wood chipped. Work forecast, continue to monitor wetland habitat and traditional areas, monitor water course crossing at KP 941+820, Monitor mechanical logging in sensitive area.

August 22, 2018 – Safety features included: Slips, trips, falls, driving conditions, congested sites, Wildlife, distracted driving and fatigue. Stay 2x the length of tree being cut for safe distance. Watch for farm equipment on roads, watch for dust up on dirt roads. Stay 100ft away from Mowers. Stay back 150M from mechanical logging equipment. Weather forecast Sunny with a high of 30. Fine clean and bleach when entering a new RM or land owner requested wash. SF 30 west access. Skid steer was stuck in a marsh. An excavator placed digger mats throughout the marsh to reach the skid steer. Excavator used a sling to pull skid steer up onto a digger mat. Skid steer proceeded through the marsh without getting stuck again. SF 31 (KP 961+025) mechanical logging taking place. Feller buncher was being used to cut and pile trees, A skidder was used to pick up trees that were cut and take them to the wood chipper. The wood chipper chipped the material into awaiting semi's which were taken off site. A Mulcher came through and mulched stumps and brush that was left to clear the ROW. Grant Kurian instructed to stay back 150M away from Mulcher when operating, and 100M away from the Feller buncher and Wood chipper when operating. SF 28 (KP 955+600) Top soil stripping was taking place. Dozers and Excavator worked to strip the top soil from the ROW and pile the top soil on the South side of the ROW. Boundary lines were check from SF 28 to SF27 no soil piles exceeded the limit. SF 27 (KP 955+345) Bridge installation taking place at the Cypress River crossing. Bridge was in place upon arrival, crew was in the process of installing the ramps for the bridge. Ditching material to be used for the ramps. A pile of soil that was mixed with "Rare plant" material Green Needle Grass was kept separate from other soil piles and was fenced off. No signs of any traditional or heritage objects found in area. Work forecast continue to monitor wetland habitat and traditional areas, monitor water course crossings Monitor mechanical logging in sensitive area. Continue to check boundary lines of top soil material.

August 23, 2018 - Safety features included to watch for slips, trips, falls, Driving conditions, Congested sites, Wildlife, Distracted driving, Fatigue. Stay 2x the length of tree being cut for safe distance. Watch for farm equipment on roads, Watch for dust up on dirt roads. Stay 100ft away from Mowers. Stay back 150M from mechanical logging equipment. Weather forecast, Weather advisory, high of 31 C, smoky and hazy. SF 35A Land owner came and spoke to me about someone leaving the gates open on his property. Some of his cattle got into his neighbours' property. Told the workers onsite to close the gates when they left. Land owner also mention, in the past he found traditional objects on his property. Hand slashers at KP 968+300 falling trees, foreman went through the tailboard. A small ravine on the north side of ROW was checked for any traditional/heritage objects, none were found. Some of the trees that were cut down were bucked up at land owners request. SF 35 A bone was found in the cattle pasture near the Cypress River. E.I and Feller buncher operator were doing a walkthrough of what area needed to be cut. While doing the walk through I came across a bone that was placed by a stake. E.I was notified, and he was in contact with an archaeologist from Golder. E.I instructed Seer logging to stay away from the bone until further notice. SF 32 (KP963+425) Top soil stripping taking place. Dozers worked to clear the ROW while the Excavator stripped the edges on the ROW. Excavator and dozers had spotters. SF 2 Boring and ditching activity taking place. Pipe was laid out in excavation pit. Side boom holding pipe in place. Excavation pit was roped off and signs were in

place. Monitored SF20 top soil stripping and grading. Monitored SF21 East side, machines crossing highway. SF22A crews hydrovacating. SF23 soil stripped on West side. SF24A hydrovacating on the East side. SF26 hydro vac on South side. Work forecast, continue to monitor wetland habitat and traditional areas, monitor water course crossings. Monitor mechanical logging in sensitive area. Continue to check boundary lines of top soil material.

August 24, 2018 – Safety feature watch for slips, trips, falls, driving conditions, congested sites, wildlife, distracted driving and fatigue. Stay 2x the length of tree being cut for safe distance. Watch for farm equipment on roads, Watch for dust up on dirt roads. Stay 100ft away from Mowers. Stay back 150M from mechanical logging equipment. Watch out for Busses on rural roads and school zones. Weather forecast, sunny with a high of 32 SF 30 (KP 959+300) Water course crossing being built. Bull rushes were tramped down and CAEPLA cloth was laid out on top. Soil was then pushed and compacted by the excavator and dozers through the wetland. Silt fencing is to be installed. SF 30 (KP 959+ 400) Top soil stripping taking place. Dozers worked to clear the ROW while the spotters were there to keep them from pushing the soil piles over the boundary line. SF 31 (KP 960+99) Mechanical logging taking place. Excavator picking up stumps and rocks and placing them in piles. Skidder and Feller bunch work together to feed the Wood chipper. The Wood chipper chipped into semi's that were waiting on ROW. Hand slashers were onsite bucking up some of the tree's. Mulcher was on stand by while I was onsite. SF 31 on the East access equipment cleaning was taking place. A question came up, whether or not dust masks were required while using air compressor to clean equipment. Cleaning procedures continued once dust masks were brought to site. Work forecast, continue to monitor wetland habitat and traditional areas, monitor water course crossings Monitor mechanical logging in sensitive area. Continue to check boundary lines of top soil material.

August 25, 2018 – Safety discussion, slips, trips, falls, holes in certain places from badgers and other animals. Dusty roads. Smoke and haze. Weather forecast, high of 21 smoky and hazy out. SF 31 KP 960+99 Excavator pulling stumps and piling them on the ROW. Flaggers on the road stopping traffic while the dozers crossed the road to the East side approach. SF 31 East side approach all equipment crossing the road are being cleaned with compressed air. While the compressed air operators sprayed a piece of equipment other crew members worked to rid the dozers of big chunks of soil with track shovels. Appropriate PPE was worn by the compressed air operators (Hard hat with face shield with safety glasses underneath, ear plugs, and dust masks were worn. SF 34 on the West side on the road Top soil stripping was taking place. An excavator stripped the top soil from the boundary line while the other excavator piled the top soil on the ROW in preparation of installing an approach. East side of the SF 34 access Tilling of the ROW was taking place. Two farm tractors worked to till the ROW in preparation of top soil stripping. SF 36 (KP970+245) Approach installation was taking place. Crew had laid out a culvert and placed CAEPELA cloth on top. Access mats were place on the front and back of the approach. An excavator placed soil on top of CAEPELA cloth building the approach. Work forecast, day off.

Photos of Sites Visited & Topics Discussed This Week



Aug 21/18
Photo facing South West
SF 30 access
Top soil stripping & Grader grading ROW



Aug 21/18 SF 31 (KP 961+025)
Photo facing West
Chainsaw operator falling tree



Aug 21/18
Photo facing South East
Cypress river East of SF 35
Turtle sunbathing on a rock. Two other turtles swimming in the same water body.

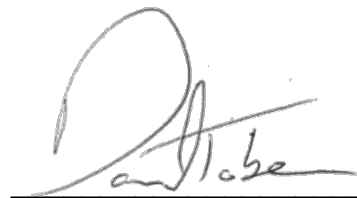
APPROVALS



Justin McKinney
Senior Construction Monitor

August 31, 2018

Date



Daniel Tober
Senior Environmental Scientist

August 31, 2018

Date