

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

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 9

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 nine. 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 activities on Spread 9.

October 1, 2018 - Safety included: Slips, trips, falls: watch your footing
wild-life: scan the ditches practice defensive driving. Proper disposal of cigarettes butts.
Intersection: drive at a safe speed and scan all direction. Still dark early mornings.
Cyclist's harder to see. Also, wildlife animals on the move this time of autumn. Drive defensive. Cross intersections/pipelines cautiously. Watch for dangers while on right of way. School back in full swing. Busses watch for dogs and other livestock. While visiting other work areas keep informed by straw bosses/foremen of possible red zone dangers. Keep proper PPE in extremely dangerous areas i.e., Dead Horse Creek. be aware of where muster meeting area is located. Remember to remain in close contact with team members.

Weather forecast/Environment: Temperature, 11degrees, Humidity 52%, wind at S 23 km/hr and visibility 16.1 km.

Waste and garbage on right of way is a red flag zone. Keeping in mind of wishes of land owner as it pertains to land owners access roads and fields. While in area of land owners try to not make ruts in the wet soil.

General:

Indigenous Construction Junior Monitor lead the morning safety meeting with crew discussing safety matters. Covering the areas of safety concern as we move throughout our daily activities. Today was given direction by our senior monitor to monitor SSKP 1026, SSKP 1057 and start at 1042+000 Dead Horse Creek. Monitored horizontal directional drilling as they were over 3/4 of the way across the creek. As we monitored, they were cleaning the reamer head and washing it off. We travelled to kp 1057+800 and began to monitor the welding crew as they were finishing up by 1058+500. Zig zagged throughout shoo-fly's checking on progress of development in areas of construction. Made way to SSKP 1056-1057. Welders just crossing bridge at SSKP 1057.11. Spent time monitoring the crew that checks on welding integrity. Made way back to Morden Field Office to complete daily reports.

Work Forecast: Continue to monitor Spread 9 and possibly go to sskp 1058+500

October 2, 2018 - Safety included: Slips, trips, falls, watch your footing. Wild-life: scan the ditches practice defensive driving. Proper disposal of cigarettes butts. Use caution while driving in Morden office yard. Three-point contact. Tie boots, watch step, rinse shoes with chlorine if need be. Equipment and vehicles, maintain eye contact, stay clear. Check in to let team know where about. Driving conditions; drive to conditions. Congested sites. Be R.O.W. ready. Avoid if possible. Awkward body positions take micro breaks to stretch. Line of fire. stay clear. Beware. Un-controlled intersections-treat as four way stops.

Weather forecast/Environment: Foggy and cloudy with a high 4 degrees.

Smoke in designated areas. Proper disposal of cigarette butts. Be mindful of waste and garbage on right of way. Keeping in mind of wishes of land owner as it pertains to land

owners access roads and fields. While in area of land owners try to not make ruts in the wet soil.

General:

Lorne Parisian, Indigenous Construction Junior Monitor, lead the morning safety meeting with crew discussing safety matters. Today was given direction by our senior monitor Cory Monkman to monitor Shoo-fly26 Dead Horse Creek area. Monitored movement of two different Ditchers, one on Shoo-fly26 other on Shoo-fly27. Walked stretch following machine scanning piles for artifacts. Monitored SSKP 1068 to watch pipe being drawn under road. Arrived at Dead Horse Creek signed in safety sheet. All required PPE went to monitor area. Spent afternoon monitoring HDD as they drilled north to 1042. Made way back to Morden Field Office to complete daily reports.

Work Forecast: Continue to monitor Spread 9 and possibly go to sskp 1057.

October 3, 2018 - Safety included: Slips, trips, falls, watch your footing. Wild-life: scan the ditches practice defensive driving. Use caution while driving in Morden office yard. Three-point contact. Tie boots, watch step, rinse shoes with chlorine if need be. Equipment and vehicles, maintain eye contact, stay clear. Check in to let team know where about. Driving conditions; drive to conditions. Congested sites. Be R.O.W. ready. Avoid if possible. Awkward body positions take micro breaks to stretch. Line of fire. stay clear.

Weather forecast/Environment: Foggy and cloudy with a high of 4 degrees.

Smoke in designated areas. Proper disposal of cigarette butts. Be mindful of waste and garbage on right of way. Keeping in mind of wishes of land owner as it pertains to land owners access roads and fields. While in area of land owners try to not make ruts in the wet soil.

General: Cory Monkman lead the morning safety meeting with crew discussing safety matters. Today we travel to road 39 as they unload an excavator. They were track boring pipe from the west to the east kp1063+102. Monitored SSKP 1068 clean-up at road 42 In the afternoon travelled to 1042 to Dead Horse Creek to monitor the HDD as it came up and throw on kp1041 they haul the drill head back to 1042+000 we finished our day there. Made way back to Morden Field Office to complete daily reports.

Work Forecast: continue to monitor Spread 9.

October 4, 2018 - Safety included: Safety included: Slips, trips, falls, watch your footing. Wild-life: scan the ditches practice defensive driving. Proper disposal of cigarettes butts. Use caution while driving in Morden office yard. Three-point contact. Tie boots, watch step, rinse shoes with chlorine if need be. Equipment and vehicles, maintain eye contact, stay clear. Check in to let team know where about. Driving conditions; drive to conditions. Congested sites. Be R.O.W. ready. Avoid if possible. Awkward body positions take micro breaks to stretch. Line of fire. stay clear. Beware. Un-controlled intersections-treat as four way stops.

Weather forecast/Environment: High of 7 degrees.

Smoke in designated areas. Proper disposal of cigarette butts. Be mindful of waste and garbage on right of way. Keeping in mind of wishes of land owner as it pertains to land owners access roads and fields. While in area of land owners try to not make ruts in the wet soil.

General:

Cory Monkman our Senior monitor lead the morning safety meeting with crew discussing safety matters. Given direction by our senior monitor where to monitor for the day. Travelled to 1047 to monitor the track bore and did a sweep of the area for the morning. Monitored SSKP 1068 tie-in at road 42. Zig-zagged on to monitor Rosenheim travelled on as far as we could considering wet ROW. Arrived later during the morning to SSKP 1047.860. All required PPE went to monitor area. Crew Boss said to return at 12 noon to witness procedures to installing pipe under roadway #3. Returned to crossing of road #3 at 12 noon watched as crew pushed pipe through bored opening. Stayed on to witness procedure during majority of afternoon monitoring procession of track crew. In the afternoon we travelled to 1068+000, 1069+000, 1070+000, we walk in and did a sweep of the crews that were there welding crew and the bending engineers. We monitored the work they were doing, checked the area as we finished the day. We came back to office and did our reports and the team of NEB environmental came and sat with us and to discuss our day.

Work Forecast: Continue to monitor Spread 9 go to sskp Dead Horse Creek.

October 5, 2018 - Safety included: Dangers today wet conditions and raining. wild-life: scan the ditches practice defensive driving. Slips trips falls, Three-point contact. Tie boots, watch step, rinse shoes with chlorine if need be. Equipment and vehicles, maintain eye contact, stay clear. Theft, lock your vehicles. Do check in to let team know your location. Awkward body positions take micro breaks to stretch. Line of fire. stay clear. Beware. Un-controlled intersections-treat as four way stops.

Weather forecast/Environment: High of 2 degrees.

Wash vehicle and keep clean at all times. Waste and garbage on right of way is a red flag zone. Keeping in mind of wishes of land owner as it pertains to land owners access roads and fields. While in area of land owners try to not make ruts in the wet soil.

General:

Today was given direction by our senior monitor Cory Monkman monitor from Kick off to road 17 Hill escarpment -SSKP 1026, SSKP 1069, SSKP 1070, SSKP 1071.

Made way to SSKP 1026 Hill where area was too congested to enter as many machines were deep in the mud. Monitored area. Compiled photos carried on to next area. Arrived at SSKP 1071 Welding equipment but no personal. Nobody here couldn't sign in safety sheet. All required PPE went to monitor area. Made way to SSKP 1051.597 where the ditcher and crew was in preparation to dig its next stretch. Went to local car wash to clean up a bit of mud off the truck. Made way back to do report in Morden Field Office to complete daily report as we waited for Skype call.

Work Forecast: Possibly go to sskp 1041+000 monitoring spread 9 according to weather conditions.

October 6, 2018 - Dangers today wet conditions and raining. Show caution remain wary on right of way dangers or potential problems. Being attentive when on land watching for wildlife. Communication is important to touch base to ensure all personal are safe. Being aware of muster points at field office but out in the field with other crews. Driving defensively. Treating intersections and pipeline crossings gingerly. School children back

in Scholl. Autumn harvest is in full swing. The work crews are readying for movement on the Shoe-fly's. together traffic is heavier.

Weather forecast/Environment: Partly cloudy, 1 degree.

Remaining vigilant in regards, to waste and garbage on right of way. Being careful as to ignitions sources. Being aware of weather conditions.

General: Handed SSKP areas that are to be monitored today. Early morning made way to Dead Horse Creek. Observed side booms lifting pipeline to ready installation.

Entered DHC riparian zone monitored area, chlorine boots on way out. Drove to SSKP 1026 hill escarpment. noted no crew was in area. ROW to wet to drive so walked in.

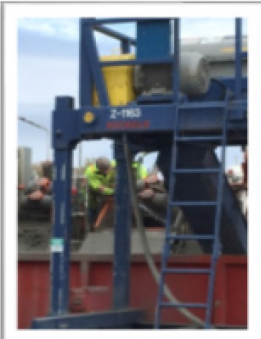
Made way back to Morden Field Office to complete daily report.

Work Forecast: Continue to monitor Spread #9.

Photos of Sites Visited & Topics Discussed This Week

October 1, 2018

Photo



Description & Location:

1057+000 DEAD HORSE CREEK
monitoring in the morning

Photo



Description & Location:

1057+800 to 1058+500
after noon monitoring
as we finished up for the
day 1058

Photo



Description & Location:

photo SSKP 1057. welding crew crossing
creek

Photo



Description & Location:

photo Dead Horse Creek crew cleaning
machine SSKP 26 looking north

Photo



Description & Location:

Photo SSKP 1026 crew working at dead
horse
creek

Photo

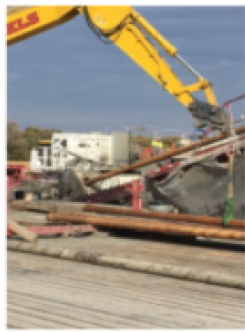


Description & Location:

Photo of side booms SSKP 1057

October 2, 2018

Photo



Description & Location:

1042+000 dead horse creek

Photo



Description & Location:

ditcher at 1043+200

Photo



Description & Location:

photo shoo-fly 26 pipe crossing creek

Photo



Description & Location:

Ditcher crew cleaning machine shoo fly 27

Photo



Description & Location:

Photo shoo-fly 27 crew ditching trench

Photo

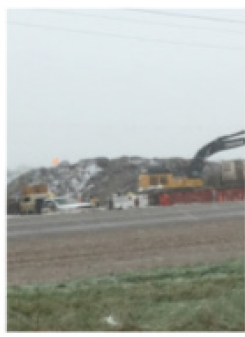


Description & Location:

Photo of medicinal plant at dead horse creek

October 3, 2018

Photo



Description & Location:

Road 39 track boring

Photo



Description & Location:

1042+000 hauling back drill head

Photo



Description & Location:

photo SSKP 1063 welding pushing crew

Photo



Description & Location:

horizontal diagonal drill crew machine
SSKP 1047 bringing drill head back

Photo



Description & Location:

Photo SSKP 1063 welding crew working in
thick
snowfall

Photo

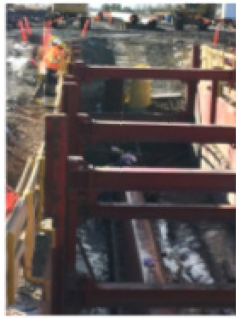


Description & Location:

Photo dead horse creek SSKP 1046

October 4, 2018

Photo



Description & Location:

1047+544
bore track

Photo



Description & Location:

1047+544

Photo



Description & Location:

photo SSKP 1047 track bore pushing crew

Photo



Description & Location:

track bore crew machine SSKP 1047
looking South

Photo



Description & Location:

Photo SSKP 1047 track bore driving pipe
under
hwy 3

Photo

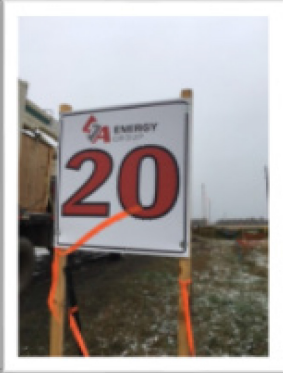


Description & Location:

Photo SSKP 1047 crew pushing pipe under
hwy 3

October 5, 2018

Photo



Description & Location:

starting point road 20
picture was taken facing
south

Photo



Description & Location:

lowering pipe and connecting at kp
1030+900

Photo



Description & Location:

travel to 1071+000 as the crew shut
down do to the weather wet snow
picture was taking south west

Photo



Description & Location:

picture of 1071+460 as picture facing
south

Photo



Description & Location:

photo SSKP 1026 pipe crossing creek

Photo



Description & Location:

machines @ SSKP 1071

Photo



Description & Location:

Sand blasting @ Shoo-fly 20

Photo

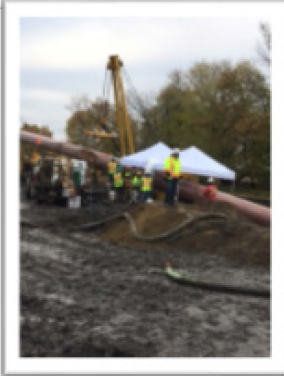


Description & Location:

Photo of men and equipment working at SSKP 1026

October 6, 2018

Photo



Description & Location:

kp 1041+750 bore support at dead horse .

Photo



Description & Location:

kp1041+750 dead horse creek

Photo



Description & Location:

kp1027+800
riparian zone

Photo



Description & Location:

1027+800 side boom, rock truck, dozer.

Photo



Description & Location:

photo looking north at dead horse creek

Photo



Description & Location:

hill escarpment SSKP 1026 looking west

Photo



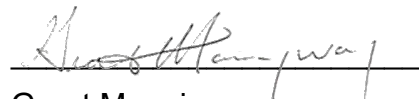
Description & Location:

photo of hill escarpment looking east

Photo

Description & Location:

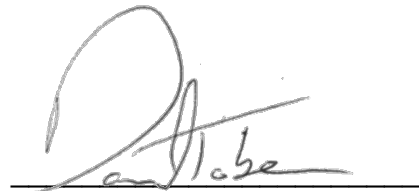
APPROVALS



Grant Manningway
Construction Monitor

November 28, 2018

Date



Daniel Tober
Senior Environmental Scientist

November 28, 2018

Date