



SGS MUSCOWPETUNG

ABORIGINAL CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 6

NOVEMBER 5TH TO NOVEMBER 11TH, 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)	3	803 + 494 Her 151 SSKP 805.63 – 805.93 West side of Pipestone Creek	Archeologist ICM's on site	No
Rock Formations (rocks of significance, tipi rings, etc.)	Many	SSKP 805.63 – 805.93 Rocks of interest found while walking the stripped area	Archeologist tagged the items for review	No
Artifacts	0			
Bones	Many	SSKP 805.63 – 805.93 – bones of interest found while walking the stripped area	Archeologist tagged the items for review	No
Potential Gravesites	0			

Environmental Features

Field Observation	# of occurrences	Description and Mitigation Measures	Mitigation Status	Further Action Required (Yes/No)
Medicinal or Cultural Plants	Many	803 + 494 VG 75 VG 76 VG 77 772 + 339 VG 66, VG 67, VG 68	Completed	No
Aquatic Life	2	803 + 494 NLF 757 + 453 Fish salvage	Completed	No
Animal Observations or Burrows	0			
Bird Nests	0			
Trees (Red Willow)	0			
Wetlands	3	766 + 953 SK 902 class V Aqua dam 781 + 943 SK 935 Class IV Aqua dam SK 923 Class III Ramp Installation	Completed	No
Watercourse Crossing	2	Stony Creek 788 + 352 Clear span bridge installation across SK WC 89 (FB) the drainage ramp was installed at SK WC 90 (NFB)	Completed	No

Additional Observations and Summary of Activities or Concerns

This week our team reviewed mitigation and procedures for wetlands and excavations within the traditional land use areas and heritage sites. And acquired information working alongside the Archaeologists and their teams at the pipestone Creek and additional areas.

With the winter weather and icy conditions our team used caution when driving to areas. With the daylight hours shorter we work for two hours each morning in the dark and by day end its dark travelling back. Driving is the biggest hazard when working on the pipeline. We spend a great deal of time traveling from one location to another. Adjusting speed to road conditions and watching for side road vehicles at approaches is important. Driving within areas where heavy equipment is working required extra precautions.

Enbridge safety focussed on Housekeeping and picking tools/ items off the ground that could get buried in the snow. The right of ways is kept clean, all debris as small as sun flower seeds are not allowed. Corking the heavy equipment tracks was focussed on as well. This helps prevent the equipment from sliding due to icy/snow conditions. Traction Aids for footwear in winter are required to help eliminate slips on snow/ice.

Within the Pipestone Creek (MB-WC 1010) the river valley and native prairie adjacent quarter sections of lands there is Archaeological sacred site potential. The areas were assessed prior to vegetation clearing due to rare and medicinal/culture plants. Perry 'sedge pincushion beardtongue and golden bean are located on the west side parcel. Various medicinal and cultural plants were observed and recorded during prior assessments including sage and mint. During cultural walks our team took part in harvesting some of the medicinal plants. Her 147 to 152 are located through 805 + 200 – 807 + 100. Her 152 is within 806 + 000 Pipestone River Valley has various medicinal plants recorded during assessments. DkMh-30 is located within this quarter and was subject to deep archaeological excavation. Construction monitoring of this site has been requested by the HRB. The Pipestone River Valley is a fish bearing waterbody. Due to the Heritage and environment concerns our team of ACM's along with Archaeologists and their teams (ICM" S) have monitored these areas all through the week. There are various traditional land use and HER sites within spread six, however the Pipestone Creek area hold significant interests to various first nations.

During the week our team monitored 803 + 494 Her 151 SSKP 805.63 – 805.93 West side of Pipestone Creek. Bore pit excavation and preparation for the bore under the tracks continued this week, Archaeologist was on site all week to monitor the excavation. Soil pile was relocated from the extra work space to the North side of the right of way. Additional drill string and equipment were brought in for assembly of the bore track. Fencing was put up around the open pit excavation with signage. Proper access egress with steps and ladders were installed. The track was assembled at the bottom of the pit. A pump is in place to pump out any water from the snow melting or water from the bottom. The Northern leopard frog 400 m buffers are still up on both sides of the creek. The rare plants VG 77 VG78 VG79 are roped off and have proper signage, Small areas the soil was removed containing seeds were relocated to a separate designated pile and are roped off and marked. On the North side of the tracks additional space that was required within the area of interest was agreed upon. And the area of interest was re surveyed. The exit bore pit was excavated with the track hoe, adjacent to the area of interest the track hoe keyed the edged with a spotter, snow fence and signage was put up with caution open pit signage.

The east side of the Pipestone Creek at 807 + 205 crew replaced matting and installed geo textile widening the ramp for the equipment to cross over. An additional ramp was constructed at 805 + 915 over the hotlines. Further east at the Pipestone Creek Her 151 SSKP 805.63 – 805.93 dozers and a track hoe stripped the area up to the frog buffers. The track hoe keyed the edges with a spotter. Five Archaeologists', ICM's ACM's Environment and NEB were all on site. Dozers tandem pushed topsoil with Archaeologists on either side of right of way observing. Once the equipment stopped the area was walked and items of interest were marked and places in bags. Attention Heritage Resource (TLU) Traditional Land use signage is placed at three locations

within the area., there is a no fuelling within 100m buffer zone, all equipment was walked a distance for refuelling.

Stony Creek 787 + 570 TLU HER - 140 The prep work for the bridge installation across SK WC 89 (FB) NFLR WF-122 Geo teck was placed on both sides off the creek banks, select clay material was placed on top the geo to build up the access ramps to the bridge. The 60-foot bridge arrived and was set across the creek placed on timber skids, the access ramps were completed for access onto the bridge completed with geo teck wing walls. The adjacent SK WC 90 (NFB) the drainage ramp was installed complete with geo teck, clay ramp, culvert and geo wing walls.

The power dozers completed stripping the topsoil through 794 + 000 TLU Her 143 with NFLR WF 145 and through 795 + 00 TLU Heritage 187 the dozers completed pushing the stripped topsoil into windrows along the right of way. The buffer for the WF 164 is still in place properly roped off and marked. Topsoil, seconds and clay are all piled/windrowed a meter apart and staked for identification. Soil stabilization (Tackifying) continued this week. Additional areas were graded and cleaned up. Topsoil stripping off hot lines was completed, and equipment wash stations were busy complying with the bio security system.

There are many wetlands within spread six that are adjacent to or within our right of way or work space areas. Mitigation of these wetlands, depending on location size and class, included roping off all class III and up, ramping many of the wetlands and aquafarms where access through was required. Spill kit barrels are set up at all wetland and water crossings and no fuelling buffers. Wetlands that required stripping were place in separate designated piles and marked with stakes. At 767 + 953 Dewatering and installation of aqua dam and building access through SK 902 -2 class 5, Track hoe loaded rock trucks with clay material for the access road. A fish salvage was completed of fathead minnows the biologist and their team captured the fish in nets and the fish were relocated to another area. Another aqua dam was constructed at 781 + 943 SK 935 class IV Ramps were built over wetlands SK 923 class III. Some of these wetlands are within the traditional land use areas. Environment conducts aquatic sweeps and ensures proper mitigation by consistently following procedures within the alignment sheets and EPP. And ensures crew foreman have a copy of the wetlands crossing plans and W/C agreements.

Additional observations this week included Stringing with piping loaded on flat decks and hauled from the pipe yards to right away and placed on skids. Skids are stacked/assembled by following the safe cribbing and skidding guidelines found in the Enbridge Canadian safe work guidelines. At various locations of road crossings, the Tail ditches (entry) and Bar ditches (exit) were excavated for the bore to be drilled. With welded pull head at the end of the heavy wall pipe the pipe is then hooked onto the drill bit. The drill is hooked onto the pull head and pulled back through the bore ready for future tie ins.

Photos of Sites Visited & Topics Discussed This Week



Dozers at 787 + 500 Stony Creek – Heritage sign at area of interest and right of way stripped.





767 + 953 Aqua dam SK 902-2 Class V





Tackifying (Soil Stabilization)



Picture left Tail ditch – Picture right bore hole entry (Side Booms)



Pipestone Creek East side track hoe stripping topsoil – Archeologists and teams walking the area.



East side Pipestone Creek stripping topsoil



Pipestone Creek West side 805 + 700 – Track bore excavation



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