

SGS MUSCOWPETUNG

ABORIGINAL CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 6

FEBRUARY 11TH TO FEBRUARY 17TH, 2019

ISO 9001: 2008 Registered OHSAS 18001:2007 Registered



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)	2	SSKP 805.63 – 805.93 Heritage Resource TLU 132,133,134,135 Her 140 and area of interest 787 + 500	Restoration Completed	No
Rock Formations (rocks of significance, tipi rings, etc.)				
Artifacts				
Bones	Many	805 + 800 Bison bone located	Archeologist on site	No
Potential Gravesites				

Environmental Features

Field Observation	# of occurrences	Description and Mitigation Measures	Mitigation Status	Further Action Required (Yes/No)
Medicinal or Cultural Plants				
Aquatic Life				
Animal Observations or Burrows	1	A grey owl was sitting on a rock truck at the Pipestone this week	Observation only	No
Bird Nests				
Trees (Red Willow)				
Wetlands	4	767 + 400 SK 902 and 768 + 300 SK 902-2. 772 + 200 SK 909 and 773 + 350 SK 911.	Restoration	No
Watercourse Crossing	2	MB 1010 Pipestone Creek Class V (FB) Backfill and restoration of the Creek and creek beds Stony Creek SK WC 89 open cut excavation through the Creek lowered in pipe and started to backfill.	Backfill and restoration completed at the Pipestone Creek Backfilling complete at Stoney Creek.	No

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Additional Observations and Summary of Activities or Concerns

This week safety focussed on lookout for your co-workers, some are your friends during work hours and even after work Help your fellow worker get through the shift without any incidents. We all want to see everyone leave work the way that they arrived. If we see anyone doing something unsafe we should stop them and correct them and expect that they would do the same in return.

This week our team continued to monitor at the Pipestone Creek MB 1010 SSKP 805.63 – 805.93 HER 132,133,134, 135 805 + 600. On the west side between the CN bore bay and the Creek, the crew set up to complete the tie in section to fit alignment and then completed the stab on weld. An area was excavated for the truck to park on and complete the weld at the induction bend. By mid-week the tie ins were completed on the west side of the creek. Sand was hauled in; the pipe was sand padded and shaded. Backfilling the section was completed. The trench box was removed, and snow was dug out at the bore pit. Side booms and all tracked equipment crossed the tracks on tires laid down and a call to CN was made before all crossings. An additional sign was placed on the east side of the area of interest. This is a no foot traffic area which our team roped off during the summer. With all the construction activity in the area possibly crew members take short cuts walking through the roped off site.

805 + 790 – 805 + 990 East side of the Pipestone Creek. The hydrovac exposed hot lines in this area, and the track hoe removed topsoil and started excavating tie in ditch. During excavation through this area Archaeologist located more bison bones. Blocks of ice were removed that contained bison bones, including parts of another bison skull. At 805 +950 there was a lot of water in the ditch, the crew had to reroute the hoses and set up sand point wells for pumping down ground water. The excavated ditch material was loaded onto rock trucks and stored on the south side of the right of way. The section was prepped and ready to lower in. Ditch was backfilled on north side of the creek at the end of the day on Thursday due to additional water issues. The creek had to be re isolated with steel plates to contain the water. Tie in was completed on this section of pipe, and the ditch was backfilled. The steel plates were removed from the creek. Clean up of the area continued with the dirty water containment (pig pen) taken down, hoses and equipment piled in one area for de mob. There was a grey owl on site this week sitting on top of the parked rock truck.

788 + 300 Stony Creek SK WC 89– Sand padding was installed under the pipe through the creek, rock guard was placed on the section of pipe prior to lowering in. Tie ins were completed on the creek section. Hydrovac was used to remove additional ice and snow from the ditch before the pipe was sand shaded and sand bedded. Track hoe was used to backfill spoil material removed from the creek ditch and placed back one foot from grade, the vegetation topsoil material was hauled back from the area it was stored. seed mix and coconut blanket were placed on the creek bed. Stone /rip rap was placed in the channel for erosion control. The seasonal drainage SC WC 90 was backfilled and the restored drainage was coil wrapped, seed mix and stones/riprap was placed further out from the channel. At 768 + 500 wetland SK 902-2 Class V our team observed restoration completed and track hoe stripping access ramp. At 765 + 700 restoration was completed at wetland SK 900. By the end of the week this area was completely back filled with roach-built up on ditch line. The ramp and the geo technical wingwalls were removed. MB Drainage 1008 Her 48. 781 + 100 observed the water line daylighted, tie in completed by the end of the week, backfilling of spoil pile and cleaning up the ditch line. At MB 012 Semi Permanent Marsh Class IV 791 + 800 observed wetland restorations



completed. Observed track hoe stripping wetland access ramp at SK - 813 class 4 down to geotextile and removing geo tech membrane. The dozer was ripping frozen ground, and another dozer was pushing remaining spoils over to ditch area. Removing the ramps within some of the wetland areas is part of the spring mitigation plan. These ramps may become covered with water during spring thaw and buried under water. Reclamation of wetlands focusses on proper storage of the soil material, Storing top soil from the mineral soil and replacement. Placing mineral soil first followed by upper surface material of the upper salvageable material to achieve the vegetation and the prevention of erosion and sediment transport into wetland.

Additional observations included mechanical backfilling at 797 + 600 sand shading/padding pipe. Observed track hoe mechanically shading pipe with clay material at 780+900. At 796 + 063 Dozer broke up frozen clay, track hoe mechanically shaded/padded pipe, and backfilling ditch was completed in this area and equipment moved the roach back on ditch line. At 795 + 990 Track hoe was backfilling / bulking up pipe before backfilling the ditch was completed. At 781 + 026, observed Track hoe backfilling, the water line and gas line area with representative on site. Also, in this area, backfilling was completed at 733 + 000 by the end of the week.

The hydrostatic testing of the pipe through TS28 and TS29 completed. Testing continued at

751 + 480. TS30/31 was set up; the pressure held on the pipe indicated successful test. Completed leak checks and monitored pressures and temperatures at 735 + 560. At TS30/31 depressurization was completed and the site was cleaned up. By the end of the week dry runs were completed for TS30/31. From sections tested 28 and 29 684 + 985 - 735 + 569 approximately twenty-six ovalities were noted. Our team continues to monitor the Pipeline construction process at various stages of construction.



Photos of Sites Visited & Topics Discussed This Week





733 + 000 water line daylighted

805 + 600 cut out and tie in of pipe



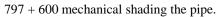
788 + 400 Backfillling ditch and placing roach back on ditch line







805 + 600 Tie in of pipe west side of the Pipestone Creek





805 + 700 Isolating the Pipestone Creek



805 + 800 tying in bend section east side of the Pipestone Creek







788 + 300 Stony Creek SK WC 89 Backfilling and restoration





SK WC 89 & SK WC 90 Restoration



Approvals

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