



SGS MUSCOWPETUNG

ABORIGINAL CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 6

SEPTEMBER 3RD TO SEPTEMBER 9TH, 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)	Various areas	686 + 500 Heritage site 805 + 200 Heritage site	The well marked and protected, proper mitigation for wetland and hydro vac excavations were completed. Heritage sites are fenced off and properly marked.	Yes, these areas will be monitored through various stages of construction
Rock Formations (rocks of significance, tipi rings, etc.)	1	Pipestone creek a possible rock formation may signify a tipi site. A buffer area was set up staked and marked.	Archeologist to do further assessments to determine.	Yes – Continue to monitor at various stages of construction
Artifacts				
Bones				
Potential Gravesites				

Environmental Features

Field Observation	# of occurrences	Description and Mitigation Measures	Mitigation Status	Further Action Required (Yes/No)
Medicinal or Cultural Plants	Many	805 + 700 various shrubs and plants within the right of way 745 + 300 – 746 + 100 Mint, sage and various plants. 805 + 200 – 806 + 000 Various plants	Some of the areas will be harvested by the F.N. We will continue to monitor.	No
Aquatic Life	1	Leopard frogs	A buffer area has been put up / Environmental	No

			personnel continues to sweep the area	
Animal Observations or Burrows				
Bird Nests				
Trees (Red Willow)	1	805 + 700 willow trees.	Monitoring	Monitor through various stages of construction
Wetlands	Many	Sc 584 class III Vipond creek valley seasonal marsh wetland complex SK 680, seasonal marsh class III SK 681, semi permanent marsh class IV SK 682, III Seasonal Marsh Class III SK 683 seasonal marsh, x2 Class III Sk 684 semi permanent marsh class IV Sk 693, seasonal marsh class III Sk 845 Temporary marsh Cass I and class II Sk 846 seasonal marsh class III Sk 847 Class III Sk 849 Seasonal marsh class III Sk 863 Class V Sk 865 Seasonal marsh class III wetland complex	The wetlands were Properly staked and marked. Some were roped off for no entry. At a few locations the markers had to be replaced or stood up.	Yes- continue to monitor through out various stages of construction
Watercourse Crossing	6	Pipestone Creek Sk WC 1010 Sk-WC 72 sskp 653.52 Vipond Creek The area is dry/ pipeline crossing method open cut / equipment crossing method – clear span bridge and re contour and re vegetate for restoration WC 85 – Drainage (NFB) open cut Ramp and culvert Matt if dry WC 86 – Drainage (NFB) open cut Ramp and culvert Matt if dry	Pipestone Creek – Isolated crossing Vipond creek – clear span bridge being installed	Yes – Continue to monitor through out various stages of construction

Additional Observations and Summary of Activities or Concern

This week our team travelled to various locations to do observation, site assessments and monitor areas.

Vipond Creek sacred site east side had been disked 661 + 120 area up to the rough clean station on the west upper cultivated land. 661 + 125. The ramp on top of the Valley west side of the hill was completed at 661 + 125 The track hoe and dozer were clearing the right of way and moving the soil into piles on the south side. Crews were constructing the Clear span bridge for the water crossing (skWC 72) kp 653 + 52 They had laid geo textile, and skids were put in place, clay was used on top of the geo textile. Proper signage and markers were in place for the wetlands area sk 584 Class III. On the far south side of the right of way junior monitor found bones and a small rock, followed procedure and called (Archaeologist} who gave instructions to leave the items in area where they were found. Environment helped buffer the area with stakes, it turned out they were recent animal bones. Within these areas there is possibility for buried cultural deposits, before during and after excavations our team walk the areas looking for items of interest.

An area we monitored this week at 686 + 500 had an entry sign posted Hydro vacs, Indigenous Area Ahead, Indigenous rep required. This sign was erected to notify crews that Aboriginal Construction monitors had to be present during construction. With the numerous areas requesting Monitors at various stages of construction I recommend these signs be posted at all the locations.

Monitored hydro vac excavation from 686 + 500 to 387 + 300, Our team kept the safe distance away, waited until the hydro vac was finished, then conducted visual assessments of all the holes for possible signs of cultural deposits or items. (No items were observed) A crew was working in the area roping off all the wetlands. SK 680, seasonal marsh class III, SK 681, semi-permanent marsh class IV, SK 682, III Seasonal Marsh Class III, SK 683 seasonal marsh, x2 Class III, Sk 684 semi-permanent marsh class IV, Sk 693, seasonal marsh class III. The wetlands were properly staked (marked) and roped off. When the hydro vac trucks unloaded between 687+100 and 687 + 200 slurry pit we observed the slurry hydro vac catchments.

The areas of 740 + 050 – 740 + 900 Archaeological sacred sites crews were hand slashing around certain areas, mowing was completed and the feller buncher and skidder were clearing the tress for the right of way along the south side tree line 10m in. The wetlands had a buffer and were Staked/marked off. Our team repaired the marker for the rare plant Tall Beggar's tick. We walked the area and collected sage. With the cooler weather, many of the medicinal culture plants were drying up and with the hot summer a few of the wetlands were passable on foot. To the East at 740 + 900 this area had been mowed and the wetlands sk847 and sk 849 were observed. The sk WC 85 is in this quarter section along with the northern blue-eyed grass (rare plant}.

I Met with Steve Kasston, Sean Lynch and Tam Huynh (Archaeologist's) and two members from Pheasant rump F.N. to conduct visual assessments at 747 + 900 – 749 + 800 this area has a tree pasture with wetlands through and adjacent to the right a way. We harvested mint and sage at wetland sk 864, assessed the area and continued to walk to 747 + 900 – 748 + 800 Heritage 137 with multiple wetlands, a lot of the stakes were knocked down or broken due to cattle grazing in this area. A later walk through will be conducted by our team and monitoring during construction.

Pipestone River Valley Archaeological/ Sacred sites. The fencing crew were working on removing the fence at two locations of the pipestone creek. The environmental crew were sweeping for leopard frogs, Observed red willow trees and various medicinal/cultural plants.

Carry the kettle First Nations harvested plants at various locations this week.

Photos of Sites Visited & Topics Discussed This Week



686 + 500 – 687 + 300 Hydrovac – slurry pit and signage





745 + 300 to 746 + 100 Treed pasture with wetlands – Wild raspberry bush





Photos taken looking East 661 + 120 – 661 + 125 Vipond creek Valley





805 + 200 Picture taken looking East at the Pipestone Creek Photo Below is a Red Willow



Approvals

Prepared by

D. Masney

Darlene Masney
Senior Construction Monitor

September 9, 2018

Reviewed by

J Roach

Joseph Roach
Project Manager

September 11, 2018

Approved by

Emmanuel Olotu

Emmanuel Olotu, P.Eng.
Technical Manager, Geotechnical

September 11, 2018

This document is issued by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content of appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.