



SGS MUSCOWPETUNG

ABORIGINAL CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 6

AUGUST 27TH TO SEPTEMBER 2ND, 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	744+800 - 745+ 200 - Archaeological sacred site 786+600 - 787+400 - Archaeological sacred site 787+400 - 787 + 500 - Archaeological sacred site 787+500 - 788 + 300 - Stony Creek Archaeological sacred site 801 + 500 - 802 + 550 - Archeological site HER - 147-148-149 804 + 300 - 805 + 200 -Pipestone creek Archeological sacred site HER 150 and 151 805 +200 - 806 + 000 - Pipestone Creek HER 147 to Her 151 806 +000 - 806 + 200 - Pipestone river valley Archeological sacred site 806 +200 - 807 + 200 - Pipestone River Valley HER - 152 Archeological sacred site.	These areas were observed for potential plant harvesting and seed bank collecting.	Yes, these areas will be monitored through various stages of construction
Rock Formations (rocks of significance, tipi rings, etc.)				
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	727+600, - 728 + 700 - Medicinal plant potential 744+800 - 745+ 200 medicinal plant potentials, 778+700 - 779+500 medicinal plant potential, 787+400 - 787 + 500 - medicinal plant potential , 787+500 - 788 + 300 - Stony Cree / medicinal plant potential *801 + 500 - 802 + 550 - medicinal plant potential 804 + 300 - 805 + 200 -Pipestone creek medicinal plant potential 805 +200 - 806 + 000 - Pipestone Creek 806 +000 - 806 + 200 - Pipestone river valley medicinal plant potential		Yes – continue to monitor throughout various stages of construction
Aquatic Life				
Animal Observations or Burrows				
Bird Nests	1	Barn swallow nest near sskp 684+84	Still active – environment is monitoring	No
Trees (Red Willow)				
Wetlands	Many	sk504 , sk 505, sk544 sk785 - 791, sk 916 – 923, sk 944 - 949	Properly staked and marked	Yes- continue to monitor through out various stages of construction
Watercourse Crossing	6	Chapleau Lake Pipestone Creek Montgomery creek Vipond Creek Jackson Creek Stoney creek	Chapleau Lake location for HDD site Pipestone Creek – Isolated crossing (TBD) Montgomery, Vipond Jackson and Stony creek	Yes – Continue to monitor through out various stages of construction

Additional Observations and Summary of Activities or Concern

Monitors of spread six ensured they complied with the Bio security system with washing of trucks and spraying boots and tires before leaving to sites and repeating procedure before entering new locations. Rough cleans were completed this week as well. The system was created to eliminate cross contamination from field to field. The Bio Security system also protects the medicinal and cultural plants within the First Nation Heritage sites, wetlands and water crossings.

Daily Construction meetings were attended, our team held a toolbox meeting each morning, this week we focussed on driving safety and tripping hazards. A field level risk assessment before leaving every day was completed to recognize and eliminate hazards before leaving to locations and kept in our trucks should task or conditions change.

This week our team travelled to Spread five Chapleau Lake to observe the soil stabilization. This procedure is used to cover the excavated soil piles (top soil and seconds) for preservation. A spray on method of environmentally friendly, bio degradable hydro mulch is used to keep the soil from blowing onto fields and the Chapleau Lake, and surrounding water bodies, and preserve the soil for future reclamation. Soil was hauled in to start filling in the dugout. The soil was tested before it is brought in from a nearby location.

We travelled the Right of way and observed the Wetland areas Sk 504 and Sk 505 and from 640+634 to 645+547 observed the ramp at Sk544, another crew was building ramps on either side of the road at 648+628 another ramp was built over hot lines at the west side of the right of way at 647+198, Grading and stripping were done by crews at 642+276 and 647+198

Our team toured with the Archaeologist to locations the First Nations have requested monitoring in spread six. To do visual observations of Archaeological sites, to also locate areas with medicinal cultural plants that could be harvested, and locations with potential for seedbank harvesting as well. Stoney, Jackson and the Pipestone creek areas were locations where we observe cultural plants and medicinal medicines. Within these areas we also observed several wetlands, water crossings and Heritage sites.

Additional monitoring included location 758 + 719 the Vipond creek area cultivated uplands and valley crest, where crews were building a ramp over hotlines and at the road access. Crew will continue to install access across Vipond creek. Our team will continue to monitor the excavation for possible Cultural deposits.

Visual assessments were done throughout the week at the Montgomery creek area within spread six. The creek area has multiple wetlands, marshes and the cultivated fields adjacent to the creek crossing 715 + 100 and 200 requires monitoring during the hydro vac process. Additional monitoring of the area at various stages of construction will be concluded to observe proper mitigation.

Location 721+632 observations were done of the rare plant (Tall Beggars Ticks). and the areas of wetlands. Sk789 Sk790,Sk791 location. 729 + 467 crews were hand slashing and mulching.

Photos of Sites Visited & Topics Discussed This Week



HDD pipe on the hill East side Chapleau lake & the soil stabilization (tackifier) 622+224





Vipond creek Valley area 758 + 719 building ramp on east side upper cultivated land





Area for harvesting medicinal plants 744+800



721 + 632 Rare plant Tall Beggar's Tick's

Approvals

Prepared by

D. Masney

Darlene Masney
Senior Construction Monitor

September 4, 2018

Reviewed by

J Roach

Joseph Roach
Project Manager

September 5, 2018

Approved by

Emmanuel Olotu

Emmanuel Olotu, P.Eng.
Technical Manager, Geotechnical

September 5, 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 alternation, 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.