



**SGS MUSCOWPETUNG**

**ABORIGINAL CONSTRUCTION MONITORING**

**WEEKLY REPORT**

**SPREAD 6**

**SEPTEMBER 17<sup>TH</sup> TO SEPTEMBER 23<sup>RD</sup>, 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) | 4                | SSkp 805 + 70<br>SSkp 742 + 00 – 747 + 00<br>SSkp 760 +00 – 807 + 50<br>SSkp 785 + 786 50 | Areas are properly fenced                                   | Continue to monitor at various stages of construction |
| Rock Formations (rocks of significance, tipi rings, etc.)    | 2                | 805 + 300 Rocks of significance/ Area of interest<br>786 + 500 Rocks of significance.     | Areas are marked, and all the rocks are marked with stakes. | 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             | VG 60 – 722 + 400<br>VG 63 – 740 + 050 and 767 + 050<br>VG 71 804 + 300<br>805 + 590<br>VG 75 Shining leaved arnica<br>VG 76 Pincushion Beardtongue<br>VG 77 Golden Bean | All the areas have buffers signage and are roped off and clearly marked      | No                               |
| Aquatic Life                   | 2                | Leopard frogs 786 + 500 – 786 + 800 and 805 + 500 both sides of the Creek Crews did sweeps for frogs.  | Buffers are set up and salvage will be done, and the frogs will be relocated | No                               |
| Animal Observations or Burrows |                  |  |  |                                  |

|                    |      |   |  |  |
|--------------------|------|---|--|--|
| Bird Nests         |      |   |  |  |
| Trees (Red Willow) |      |   |  |  |
| Wetlands           | Many | <p>SK -753 Class III Associated with fish bearing watercourse Montgomery creek</p> <p>SK 754 Class III Associated with unnamed tributary</p> <p>SK 760 Class III, SK 761 Class III, SK 762 Class III, SK 763 Class III, SK 764 Class III wetland Complex, SK 769 Class III, 770 Class III, SK 771 Class I</p> <p>SK 776a Class III, SK 776b wetland complex SK 778, Class II</p> <p>SK-779 semi permanent marsh Class IV</p> <p>SK 780 Class III SK 782 Class IV SK 783 Class III SK 784 Class III SK 785 Class V SK 786 Class III SK 787 Class III wetland complex</p> <p>SK 785 open water pond class V</p> <p>SK 791 Class II</p> <p>SK 799 Class IV SK 800 Class III</p> <p>SK 801 Class III SK 802 Class IV wetland complex SK 803 Class III</p> <p>SK 802 Class IV wetland complex</p> <p>SK 809 Class III</p> <p>SK 842 Class III SK 843 Broad leaf treed swamp SK 844 Class IV wetland complex</p> <p>SK 845 Class I and II SK 846 Class III</p> <p>SK 847 Shrubby swamp wetland complex SK 848 Class III SK 849 Class III</p> <p>SK 916 Open water pond class V wetland complex</p> <p>Marshes' 921 Class III SK 922 Class I and II</p> <p>SK 944 Marsh wetland complex</p> <p>Associated with fish bearing Stony Creek Class III SK 949 Class II SK 950 Class I</p> | Wetland areas have been properly marked and roped off. Mitigation varies with the wetlands associated with the Creeks and open water bodies. | Continued monitoring is required at various stages of construction for many of these wetlands. |

|                      |   |  |  |   |
|----------------------|---|--|--|---|
|                      |   |  |  |   |
| Watercourse Crossing | 6 | SK-WC78 Montgomery Creek<br>SK- WC 79 Tributary<br>SK- WC 81 (NFB) Drainage<br>SK- WC-88 Jackson Creek<br>SK- WC 89 Stony Creek<br>MB- WC 1010 Pipestone Creek | Crossing Montgomery Creek including tributary, Stony, and Jackson Creeks clear span bridges will be constructed. SK- WC 81 and SK WC 88 will be drained matt/ culvert. MB – WC 1010 will have the engineered isolated crossing | Continue to monitor at various stages of construction |

## Additional Observations and Summary of Activities or Concern

This week our team of spread six monitors travelled to various locations within spread six to do monitoring and observing. Our weekly safety focussed on Driving to locations, communication and working around heavy equipment and hydro vacs. Additional focus this week on environment included installing the new bio security app and complying with procedure. Close to the end of the week spread six had rainy weather our team complied with no travel on right of way, and roads that can only be travelled on when dry, and walked the right of way within the locations we observed.

Monitoring continued at the Pipestone Creek location, within the area of the Creek it is noted as an archaeological sacred heritage site with many medicinal and rare plants. Crews continued to build the access on the west side 805 +190 – 805 + 596. The track hoe was lifting soil and rocks with a spotter. Two graders were moving seconds to the piles and separating the rocks. Through the week topsoil/transition and soil stripping was completed in this area. Manitoba Hydro completed installation of light posts on the south far corner. Access had been cleared around the rare plants, which were clearly marked with stakes and roped off. Along the railway crossing slashing crew had taken down some trees on the right of way. The rocks of significance all have markers and the area of interest had additional markers and a buffer zone around the location. The large buffer zones down by the Creek east and west side for the leopard frogs was still in place, a salvage will be completed, and the frogs will be relocated. Once access is cleared to the Creek a localized method will be used for crossing MB WC 1010.

The Montgomery Creek area, our team monitored hydro vacs 716 + 600 to 716 + 800 this area has a tributary to Montgomery creek SK WC 79 and medicinal plant potential. Further Monitoring of the hydro vacs from 721 + 700 to 727 + 600 All daylighted holes were sand shaded and backfilled with select fill material. Observations of the hydro vacs were completed at 728 + 629. Within certain quarters that the pipeline runs through additional bio security is mandatory when entering these locations. Our team washed trucks again before entering, sprayed boots and tires. Matting was laid at the entry, a crew was fencing the slurry pit due to the cows in this area, our team observed the hydro vacs and travelled the right of way. The following day we walked this area and took notes of the various wetlands SK 785 – SK 791

Continued monitoring Jackson Creek where crews were doing hydro vac excavations and preparation for the bore under the railway crossing. Matting was placed at the entry access and the area had been mowed. 775 + 950 crews had hand slashing trees in the area. A slurry pit was excavated for the hydro vac catchments at 776 + 500. Crew started to strip topsoil at 776 + 000 Throughout the Jackson creek area 775 + 500 to 779 + 500 there are many wetlands a water crossing and medicinal plant potential. Also, during the week our team walked Stony Creek areas 787 + 584 – 787 + 684 and 787 + 564 – 787 + 464 where crews installed two sections of silt fence 100m of the N and S boundaries, this buffer is for the leopard frogs in the area. Stony Creek has sacred heritage areas and medicinal plants, various wet lands and marshes, along with amphibians and WF164 snakes.

At the end of the week meeting with SGS representative and Spread five monitors to review both spread five and six areas. Enbridge bus tours of the project are continuing and representative from SGS had the opportunity to take a tour this week. Our week ended with rainy weather and the first snow fall.

## Photos of Sites Visited & Topics Discussed This Week



740 + 100 and 728 + 300 Hydro vacs

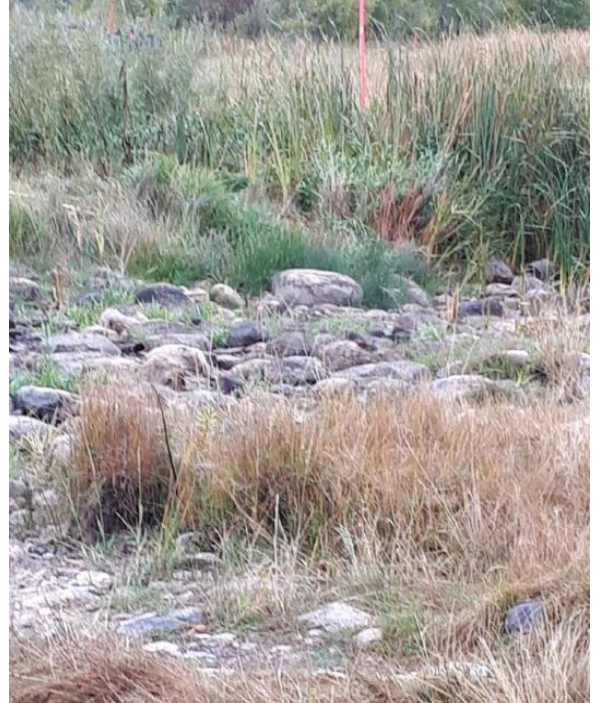






**786 + 500 Stony Creek Frog Buffers and marker**





**787 + 400 Stony Creek wet land marker and rocks of interest**





## Approvals

### Prepared by

D. Masney

Darlene Masney  
Senior Construction Monitor

Sept 24, 2018

### REVIEWED BY

J Roach

Joseph Roach  
Project Manager

September 25, 2018

### APPROVED BY

Emmanuel Olotu

Emmanuel Olotu, P.Eng.  
Technical Manager, Geotechnical

September 25, 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](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.