

Thank you for reporting this event (OM2017-691) to the National Energy Board. This message confirms that you have completed your submission to the NEB of all information for this event as listed below. Your contact at the NEB will review all of the material. If any clarification is required, you will be contacted for more information; otherwise, the NEB will close its file for this event. Please note that you will no longer be able to use the link provided previously for access to the online event reporting system. To revise any of the data or provide further information, please contact the NEB at dlerssupport@neb-one.gc.ca.

Following is a list of the data that you have provided to the NEB:

[View documents in the NEB regulatory document repository](#)

Event Details - OM2017-691

Event Types

What are the event types that you are reporting?

Notification (check only one)

- Operations and Maintenance

Circumstances

Provide a complete description of the planned activity or project

Enbridge Pipelines (NW) Inc. ("Enbridge") is proposing to conduct two maintenance digs on its Line 21 liquids pipeline (Norman Wells to Zama) near Kilometer Post ("KP") 180, approximately 160 km southeast of Norman Wells, in the Sahtu Region of the Northwest Territories (see Figure). One dig is located at KP 180.168, within the high water mark of the Saline River and the second dig is located at KP 180.28, along the south bank of the Saline River above the high water mark. The two maintenance digs will be conducted within the existing Enbridge right-of-way ("ROW") and portions of temporary work space that extend beyond the existing ROW. The Project is located in a remote and largely undeveloped area with minimal road infrastructure near the Project.

Access to the Project site by construction vehicles and equipment will be from the existing Highway 1 (winter road) south of Line 21 using an established access road before intersecting the ROW. Vehicle and equipment access along the established access road and along the existing ROW will involve the construction of temporary snow-fill bridges and/or use of access matting over the active channels of the watercourse, if required. Minor brushing and vegetation removal will be required along the existing access and ROW to the dig locations. Equipment and materials will be towed up and down the steep north slope of the Saline River with a D8 bulldozer.

The construction/excavation stage of the Project includes excavation to expose the Line 21 pipeline for assessment. The Project area is anticipated to be dry or frozen to the bottom at the time of proposed Project activities. However, depending on flow characteristics of the Saline River at the time of the excavation, isolation of the Project from the Saline River may be required. Isolation of the excavation and temporary work space required to complete the excavation will be completed as described in Figure 2, depending on flow characteristics encountered at the time of the excavation. If required, isolation will be conducted according to the Enbridge Environmental Guidelines for Construction (Enbridge EGC). Excavation will occur in the Project footprint to expose the existing pipe, and excavated material (native substrate within the Saline River) will be stockpiled at approved locations within the temporary workspace to allow for assessment of the exposed pipe. Dewatering of the excavation area will be conducted. Once assessment is completed, the pipe will be sleeved and the excavation will be back-filled and the existing channel grade and the site will be reclaimed to generally match pre-disturbance conditions.

The maintenance dig at KP 180.168 is located below the high water mark of the Saline River, and the maintenance dig at KP 180.28 requires crossing of the Saline River to access the dig location, which is on the south bank above the high water mark. At the time of the August 15, 2017 environmental site assessment, the crossing location had a bankful width of approximately 160 m, with two active channels, flowing generally from the northeast to the southwest at the Project location. The north channel (nearest to the right downstream bank) had a wetted width of approximately 5 m, and the south channel (nearest to the left downstream bank), had a wetted width of

approximately 15 m and an approximate maximum depth of 0.5 m. The Saline River is anticipated to be frozen to the bed or dry during the Project period. Substrate at the Project location was dominated by cobble material.

There are no fish records available for the Saline River, though the Saline River is connected to the Mackenzie River, approximately 1.6 km downstream of the Project location. Fish species within the Mackenzie River are well documented, and include Northern Pike (*Esox luciosus*), Arctic Grayling (*Thymallus arcticus*), Burbot (*Lota lota*), Longnose Sucker (*Catostomus catastomus*), Lake Chub (*Couesius plumbeus*), Walleye (*Sander vitreus*), Inconnu (*Stenodus nelma*), Arctic Cisco (*Coregonus autumnalis*), Goldeye (*Hiodon alosoides*), Mountain Whitefish (*Prosopium williamsoni*), and Round Whitefish (*Prosopium cylindraceum*). Based on its connectivity to the Mackenzie River, the fish community of the Saline River is expected to include both spring and fall spawning species. However, the Saline River is expected to be primarily frozen during the Project, and is anticipated to have limited local fish utilization during Project activities. A Fisheries and Oceans Canada Risk Self-assessment was used to determine potential impacts on local fish communities related to the proposed Project. Based on this Self-assessment and incorporation of recommended mitigation measures, the Project was found to pose a Low risk to causing serious harm to fish and fish habitat in the Project area.

What is the rationale for the activity or project?

Per the Enbridge Integrity Management Program, in-line inspections are conducted at specific intervals, investigating for defects such as corrosion, dents and cracking. The ILI results are analyzed and defects meeting Enbridge criteria for field assessment require excavation, assessment and the appropriate repair.

Check all of the following circumstances that apply to this event

- Ground disturbance using power-operated equipment within 30 m of a wetland or a water body, or within 30 m of the substrate of a wetland or water body

Provide a complete record or table of consultation that has been undertaken with 3rd parties or justification why consultation was not carried out. (If this information is provided in a document uploaded through the Documents page, state this.)

Enbridge has been actively engaged with the local Indigenous groups, non-Indigenous communities and other stakeholders in the Project area regarding the Project. Initial notification letters were sent to the five potentially affected groups in the area of the Project on 3 November 2017, including:

- Tulita Land Corporation
- Tulita and District Land Corporation
- Tulita Dene Band
- Hamlet of Tulita
- Fort Norman Metis Land and Financial Corporation

Individuals from Enbridge representing both the Region (Operations) and the Project have met and will continue to meet in person with these groups to identify issues and concerns related to the Project and consider mitigation measures to address issues and concerns. In addition, two public meetings were held in Tulita on 8 November 2017 and 20 November 2017, as well as one in Norman Wells on 31 October 2017. Meetings were also held with the Norman Wells Land Corporation (7 November 2017) and the Town of Norman Wells (31 October 2017). Enbridge also met with the Tulita Renewable Resources Council on 8 November 2017 and is undertaking a Traditional Knowledge (TK) study with the Tulita Renewable Resource Council to determine traditional uses of the Project area where construction activities will occur. Results of the TK study will be incorporated into the Project planning. The consultation process will be ongoing to address issues or concerns as they are raised by the affected groups. There are currently no unresolved concerns in regards to the planned integrity digs.

How far away (metres) from the proposed work location is the closest residence or building where people routinely congregate in large groups?

Not specified

Provide details of the locations of the applicable residence or buildings where people congregate. (If this information is provided in a document uploaded through the Documents page, state this.)

Not specified

How long (metres) is the section of pipe being replaced?

How is the pressure testing to be performed?

Not specified

Provide references to the applicable sections of relevant company manuals or environmental protection plan

Enbridge Operations & Maintenance Procedures Manuals; LP/MP Safety Manual; Enbridge Environmental Guidelines for Construction (2013)

Activity Plan

Does this activity include excavation to expose, assess, or repair an existing pipeline (integrity dig)?

Yes

How many digs are expected for this activity?

2

Select the type of activity that is planned

Not specified

Specify other activity type

Not specified

Is this an unplanned event with less than 21 working days' notice given?

No

Please explain why 21 working days' notice cannot be given for this activity

Not specified

Enter the date when the activity is to occur

2018-01-05

Enter the date when the activity is to be completed

2018-03-15

This event was created on

2017-12-01 15:41 Mountain

This event report was first submitted to the NEB on

2017-12-01 15:53 Mountain

Location

Pipeline

Pipeline name

Line 21

Pipeline outside diameter (NPS)

N/A

Pipeline length (km)

854.6546

Commodity carried

Crude Oil

Facility

Facility name

Not specified

Facility Type

Not specified

Event Location**Select the country where the event occurred**

Canada

Province or territory

Northwest Territories

Did this event take place onshore or offshore?

Onshore

What is the populated centre nearest to this location

Tulita

Enter any other information that helps to describe this location

Please refer to the attached Figure 1

Line 21 - KP 180.168 and KP 180.28

Contact**First name**

Jesse

Last name

Ho

Company name

Enbridge Pipelines Inc.

Address

Suite 200, 425 - 1st Street SW

City

Calgary

Province or territory

Alberta


Country

Canada

Postal code

T2P 3L8

Work phone number

403-767-4581 

Extension

Not specified

Cell phone number

Not specified

Fax number

Not specified

Home phone number

Not specified

Email Address

jesse.ho@enbridge.com

Company

Enter the name of the company that owns the facility or operates the pipeline where the event will occur

Enbridge Pipelines (NW) Inc.

Select all regulations that apply to this event. (Note that different acts may apply depending on the selected company.)

Not specified

Water Body

Will there be ground disturbance using power-operated equipment within 30m of a wetland or a water body, or within 30m of the substrate of a wetland or water body, while accessing the site?

No

How many new vehicle crossings, either temporary or permanent, will be required in accessing the activity site?

Not specified

Will all applicable DFO measures to avoid and mitigate harm to fish and fish habitat be followed?

Not specified

Will there be ground disturbance using power-operated equipment within 30m of a wetland or a water body or within 30 m of the substrate of a wetland or water body at the activity site?

Yes

Is the water body fish-bearing? If unknown, please select Yes.

Yes

Will there be any in-stream work?

Yes

Will all applicable DFO measures to avoid harm to fish and fish habitat be followed?

Yes

Are there species present which are listed on Schedule 1 of the Species at Risk Act?

No

Will a navigable water body be crossed while accessing the site or will there be ground disturbance or activity within or across a navigable water body's wetted perimeter?

Yes

Will the activity, including all in-stream restoration and removal of construction debris, be carried out while the navigable water body is frozen or seasonally dry?

Yes

Will all activities with the potential to impact navigation and navigation safety meet the criteria of Transport Canada's Minor Works and Waters Order, as amended?

Not specified

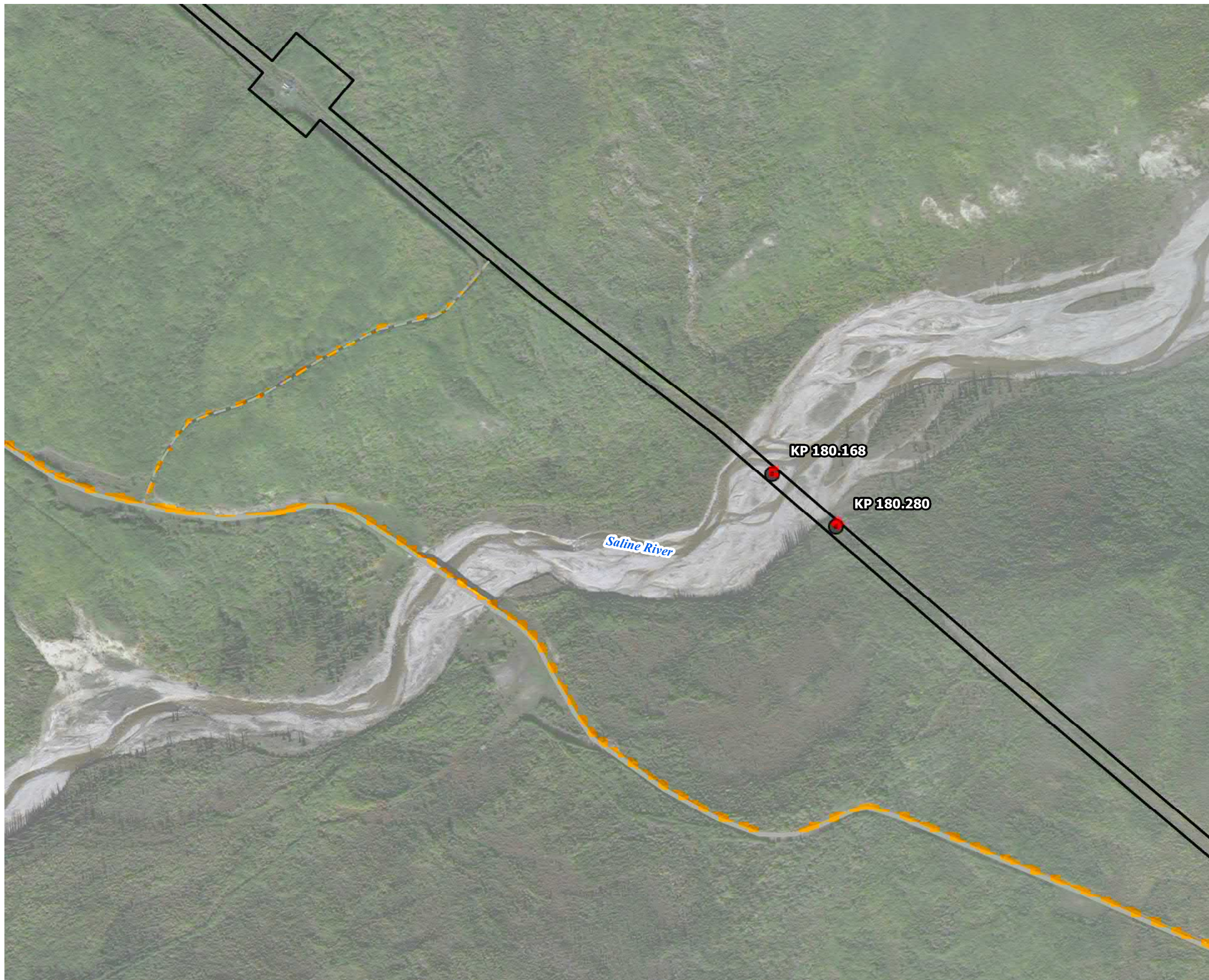
Documents (3)

Figure 1

Figure 2

OM2017-691 - Final Submission

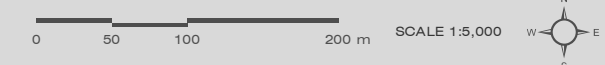
This is an automated email sent from the National Energy Board (NEB). If clicking on a link in this message does not work, copy the complete link text and paste it into the address line of your browser. Do not reply directly to this message as it comes from an account which is not monitored. If you encounter problems of any kind in using this system, please contact the NEB at dlerssupport@neb-one.gc.ca for assistance.



ENBRIDGE PIPELINES INC.
LINE 21 KP 180 INTEGRITY DIGS

PROJECT LOCATION
FIGURE 1

-  NORTHWEST TERRITORIES HIGHWAY 1 (WINTER ROAD)
-  EXISTING ACCESS
-  EXISTING ENBRIDGE RIGHT OF WAY
-  DIG LOCATIONS



MAP DRAWING INFORMATION:
DATA PROVIDED BY DILLON CONSULTING LIMITED
SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY

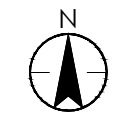
MAP CREATED BY: BQS
MAP CHECKED BY: TGR
MAP PROJECTION: NAD 1983 UTM Zone 10N

FILE LOCATION: \\DILLON.CA\DILLON_DFS\CALGARY\CALGARY CAD\GIS\NWT_MV_MAPS\MXD\TULITA



PROJECT: 17-6215
STATUS: DRAFT
DATE: NOVEMBER 2017

ORIGINAL SHEET - ANSID ZZ234
 Layout Name: U:\11073642\drawing\civil\73642C-104.dwg
 Plot Date: 2017.11.07 1:26 PM
 Login: Wiebe, Brian



200 - 325 25th Street SE
 Calgary AB Canada T2A 7H8
 Tel. 403.716.8000
 www.stantec.com

Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants

Legend / Notes

1. DATE OF SURVEY: AUGUST 15, 2017 PROVIDED BY ALTUS GEOMATICS.
2. LIMITS ARE APPROXIMATE AND ARE PROVIDED WITH REFERENCE TO ALTUS GEOMATICS AUGUST 15, 2017 SURVEY.
3. UNITS ARE IN METERS UNLESS NOTED OTHERWISE.
4. ROW LOCATION ABOUT PIPES IS BASED ON ALTUS SURVEY AND INFORMATION PROVIDED BY ENBRIDGE.
5. DIG 20514 OPTION #1 USES NO ISOLATION OR DIVERSION MEASURE ASSUMING THE RIVER IS FROZEN TO BED AT THE TIME OF CONSTRUCTION.
6. ISOLATION OPTION USED IS TO BE AT THE CONTRACTOR'S DISCRETION OR AS DIRECTED BY ENBRIDGE ACCORDING TO RIVER FLOW AT THE TIME OF CONSTRUCTION, ICE/SNOW BRIDGES TO BE USED AS REQUIRED.

- LIMITS OF CONSTRUCTION
- TEMPORARY WORKSPACE (OFF ROW)

Disclaimer & Copyright - Electronic Media

5					
4					
3					
2					
1					
Revision		By	Appd.	YYYY.MM.DD	
E					
D					
C					
B					
A	FOR PERM REVIEW	DJ	MW	2017.11.03	
Issued		By	Appd.	YYYY.MM.DD	
NOT FOR CONSTRUCTION					
Client No.		Bwiebe	MWood	Djones	2017.11.02
		Dwn.	Chkd.	Drgh.	YYYY.MM.DD

Permit-Seal

ISSUED FOR PERMIT REVIEW
2017 NOVEMBER 3

Client/Project



LINE 21 INTEGRITY DIGS
 CIVIL ISOLATION PLAN
 SALINE RIVER, NWT

Title

CIVIL
 PERMIT PLAN

Project No.	Scale
110773642	1:700
Drawing No.	Issue/Revision

73642C-104

A / 0

