

INSPECTION OFFICER ORDER NO. SLM - 002 - 2017

IN THE MATTER OF THE NATIONAL ENERGY BOARD ACT, AN ORDER UNDER SECTION 51.1

Full name of the recipient
is employed by Westcoast Energy Inc., carrying on business as Spectra Energy Transmission (Westcoast), and/or
is a person conducting Company Name
an excavation or construction on or near a facility located at Chetwynd, British Columbia .
On <u>26 August 2017</u> , the undersigned <i>National Energy Board</i> Inspection Officer conducted
an inspection at WCS-10 Tributary to Moberly River 55.814522 -122.165859 and WCS-16 Highrise Creek at 55.767084 -122.214498.
The Inspection Officer has reasonable grounds to believe:
1. The access bridges over the two watercourse crossings have not been constructed according to specification drawings, and may not be safe for large equipment, pipe and people to cross;
2. The "Riparian Management Areas" have not been adequately protected from rutting and general disturbance; and
3. Sediment and erosion control measures at each watercourse crossing is not adequate.
the inspection officer shall describe the grounds for making the order
Based on the above mentioned, the inspection officer has reasonable grounds to believe that a hazard to the safety or security of the public, or employees of a company or a detriment to property or the environment is being or will be caused by the construction, operation, maintenance or abandonment of the pipeline, or excavation activity or construction of a facility as per 49(2)(a).
Therefore, is HEREBY ORDERED,
pursuant to subsections 51.1(1) and 51.1(2) of the National Energy Board Act, to
 ⊠ take measures specified below for guarding the safety or security of the public or employees or protecting property or the environment ∑ Suspend work until the hazard or detrimental situation has been remedied to the satisfaction of the inspection officer; or the order is stayed or rescinded by the Board Specified Measures: Westcoast shall:

- a) Stop travel on the span bridges located at WCS-10 Tributary to the Moberly River, and WCS-16 Highrise Creek;
- b) Stop travel on the wooden access ramp across WCS-16 Highrise Creek and remove as soon as practicable;
- c) Provide written confirmation from a Professional Engineer that the span bridges located at WCS-10 and WCS-16 meet the requirements of Spectra Energy Drawing No. 22 Typical Temporary Bridge-Portable, and that it is safe to transport sidebooms and the 42" section of pipe to be installed at each watercourse;

Activity #: 1718-135 Canada

Revised October 2016 Document #: 282391



and

d) Correct all non-compliances at each watercourse with reference to requirements specified in the High Pine Expansion Project Environmental Protection Plan, dated 2 August 2016.

26 August 2017 Inspection - South Pipeline Loop Watercourses

#	KP	Name	Environmental A Riparian Management Area M	Resources, Requirements and Hazards	Observations
WCS-10	8.9	Tributary to Moberly River	40 (80 total)	 Caribou herd range The riparian management area will be flagged prior to construction Install clear span bridge Fish bearing watercourse RAP from July 15 to August 15 Avoid harm to fish and fish habitat Rescue fish prior to crossing Keep RoW clearing as narrow as possible within the riparian zone and disturbance in the riparian area disturbance should be minimized Disturbance and clearing minimized Discharge water 50 m away from watercourse and prevent erosion Gaps will be left in strippings at wildlife trails Apply seed mix to minimize erosion For bank stabilization, soft engineering is preferred over riprap armoring to facilitate natural channel processes. On steep banks utilize brush layering or geo-grid system to stabilize soil. If stream banks must be armored, install live dormant posts of will or 	 Silt fence does not me compliance to specific Spectra Energy Drawi Clean granular materia not been used to const temporary bridge as re by specification Spect Energy Drawing No. I 22 Metal supporting post bridge abutment are le out The wooden matts use construction of the about are broken and leaning Exposed soil is in the and banks of the water from equipment operathrough the creek Two sediment laden, now woven geotextile fabric (deleterious material) within the Riparian Management Area (RI have not been remove) Large trees within the and not in the work are been cut down Topsoil piles have not marked/flagged At the marked wildlift access has not been must through the soil piles Trees have been cut up off of the right of t

- does not meet ce to specification nergy Drawing No.1
- nular material has used to construct the y bridge as required cation Spectra rawing No. Drawing
- porting posts for the utment are leaning
- len matts used for the on of the abutments n and leaning out
- soil is in the channel s of the watercourse pment operating he creek
- ment laden, nonotextile fabric piles us material) located Riparian ent Area (RMA) been removed
- es within the RMA. the work area have lown
- iles have not been agged
- rked wildlife trails, s not been maintained ne soil piles
- Trees have been cut up to 11 m off of the right-of-way near wildlife trails
- Rutting up to 60 cm deep through the creek on the west

Revised October 2016 Activity #: 1718-135 Document #: 282391

density

dogwood between riprap and

geotextile cloth at a prescribed

through an underlying



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WCC 16			 High or severe erosion risk and priority area for installation of sediment barriers Weed management required Lessen disturbance to vegetation, wildlife habitat and sensitive areas Avoid and minimize caribou habitat loss and restore on-site then monitor for effectiveness 	limit of the right-of-way Broken wooden matts on site
WCS-16	15.1 Highrise Creek	50 (100 total)	 Caribou herd range The riparian management area will be flagged prior to construction Limit clearing dimensions and reduce disturbance to vegetation Temporary workspace will be reduced Install clear span bridge Fish bearing watercourse Avoid harm to fish and fish habitat Rescue fish prior to crossing Keep RoW clearing as narrow as possible within the riparian zone and disturbance in the riparian area disturbance should be minimized Clearly stake and/or flag sensitive areas like old forest Disturbance and clearing minimized to blade width or 20 m Avoid felling trees into old forest Discharge water 50 m away from watercourse and prevent erosion Potentially unstable trench Apply seed mix to minimize erosion For bank stabilization, soft engineering is preferred over riprap armoring to facilitate natural channel processes. On steep banks utilize brush layering or geo-grid system to 	 Silt fencing does not meet compliance to specification Spectra Energy Drawing No.1 Clean granular material has not been used to construct the temporary bridge as required by specification Spectra Energy Drawing No. Drawing 22 Ramp across the watercourse does not have a culvert, and has not been constructed as required by specification Spectra Energy Drawing No. 21 Metal supporting post for the bridge abutment is leaning out The wooden matts used for the construction of the abutments are leaning out Large trees within the RMA, and off right-of-way have been cut and felled into the old forest stand Broken wooden matts on site Garbage on site Rutting in the RMA to 30 cm deep

Revised October 2016 Activity #: 1718-135 Canadä Document #: 282391



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through an underlying
geotextile cloth at a prescribed
density
Lessen disturbance to
vegetation, wildlife habitat and
sensitive areas
Avoid and minimize caribou
habitat loss and restore on-site
then monitor for effectiveness

Inspection Officer	IO Designation #1680	Signature
	Date 27 August 2017	
	517 10th Avenue SW Calgary AB T2R 0A8	

Activity #: 1718-135 Canada