



CUTBANK INSPECTION INC

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February 11, 2013

Ken Dillabaugh
Saskatchewan Ministry of Environment
Resource Management and Compliance Division
Lands Branch – Land Management South – Swift Current
Box 5000
Swift Current, Saskatchewan S9H 4G3

**Re: Aquatic Habitat Protection Permit Application for Open Cut Contingency Wetland Crossing for
Vantage Pipeline Project – Wetland**

Cutbank Inspection Inc. on behalf of Vantage Pipeline Canada ULC (Vantage) has prepared the attached Aquatic Habitat Protection Permit (AHPP) Application for a proposed open cut contingency crossing for the completion of the pipeline to be installed within the Class IV Wetland WT096 located in SW 13-09-17 W3M. This application is being submitted to amend the Saskatchewan Ministry of the Environment AHPP 2012-53.

Photos, mapping and the proposed mitigation plan for the aforementioned wetland, as submitted by Vantage to the National Energy Board, is included herewith for your reference.

If you have any questions, please do not hesitate to give me a call (587-215-6415) or contact via e-mail maureen.bogner05@gmail.com.

Regards,

CUTBANK INSPECTION INC.

Maureen D. Bogner, B.Sc., P.Ag.
Environmental Planner

2013



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Pipelines & Facilities

AQUATIC HABITAT PROTECTION PERMIT APPLICATION

PREPARED FOR

VANTAGE PIPELINE CANADA ULC



Cutbank Inspection Inc. on behalf of Vantage Pipeline Canada ULC (Vantage) has prepared the attached Aquatic Habitat Protection Permit (AHPP) Application for a proposed open cut contingency crossing for the completion of the pipeline to be installed within the Class IV Wetland WT096 located in SW 13-09-17 W3M. This application is being submitted to amend the Saskatchewan Ministry of the Environment AHPP 2012-53.

CONTACT INFORMATION

Cutbank Inspection Inc. is submitting this application for an Aquatic Habitat Protection Permit (AHPP) on behalf of Vantage Pipeline Canada ULC (Vantage).

	PROPONENT	CONSULTANT
Name	David Schmunk Vantage Pipeline Canada ULC	Maureen D. Bogner Cutbank Inspection Inc.
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1 AQUATIC HABITAT PROTECTION PERMIT

Description of Proposed Development

Cutbank Inspection Inc. on behalf of Vantage Pipeline Canada ULC (Vantage) has prepared the attached Aquatic Habitat Protection Permit (AHPP) Application for a proposed open cut contingency crossing for the completion of the pipeline to be installed within the Class IV Wetland WT096 located within SW 13-09-17 W3M; the total length of trenching required within the previously identified limits of the wetland is approximately 36 m. Wetland WT096 was previously permitted under AHPP 2012-53. Vantage is proposing an open cut methodology for the completion of remaining work required within the aforementioned wetland.

2 DESCRIPTION OF AREA WORK IS TO TAKE PLACE

SLOPE	SURROUNDING LAND USE	SOIL		VEGETATIVE COVER
		TYPE	PHASE	
2 – 3 >0.5 to 5%	SE 13 – Native Prairie	Wymark Soil Series	Calcareous, gleyed	Type 3: Shallow marsh vegetation
	SW 13 – Cultivated			

3 CONSTRUCTION SCHEDULE

The proposed scope of work would be completed under frozen ground conditions and initiated upon receipt of a Saskatchewan Permit.

4 PROPOSED MITIGATIVE MEASURES

Proposed measures to mitigate or prevent further potential impacts associated with the open cut construction works within aquatic and riparian habitats include:

- To provide passage through WT096, mats will be placed from the south side of the wetland (Point A) to the fence line on the east boundary (Point B) of the wetland (see reference drawing). These mats will serve a dual purpose for traffic down the line and for completing the

lowering in and tie-in work necessary to install pipeline through the wetland; approximately 112 m of mats will be used in the wetland area.

- Once matting is in place, it is proposed that the pull head will be cut off and an induction bend welded on to the pipeline section. Any further bell holes required to tie-in to the main pipe will be located outside the wetland to the east past Point B (see reference drawing).
- After tie-ins are completed on the south side of the bore pipe, matting will be used under the hoe completing pipe shading and replacing topsoil in the bell hole area. All efforts will be made to complete the clean-up within the boundaries in WT096 and to have no further ground disturbance in the wetland area.
- Matting will remain in WT096 until all pipeline traffic has traversed through the wetland area.
- Water from the existing break-off hole located at '1' on the reference drawing will be pumped onto an upland vegetated area northwest (>100 m) of the wetland to ensure adequate filtration and the return of the water into the wetland.

To be noted that potential impacts to native prairie by construction activities will be lessened with the proposed mitigation; additionally, works completed during frozen conditions will minimize impacts to migratory birds, and the risks of rutting, compaction, and siltation.

5 PLANS FOR RESTORATION

Wetland restoration following completion of the proposed activity will be in accordance with the approved methodologies outlined in the Environmental Protection Plan. Vantage will endeavor to ensure wetland reconstruction mimics as closely as possible, the characteristics of the original wetland area – including aquatic and riparian vegetation. Post-construction monitoring would ensure reclamation of wetland and surrounding vegetation.

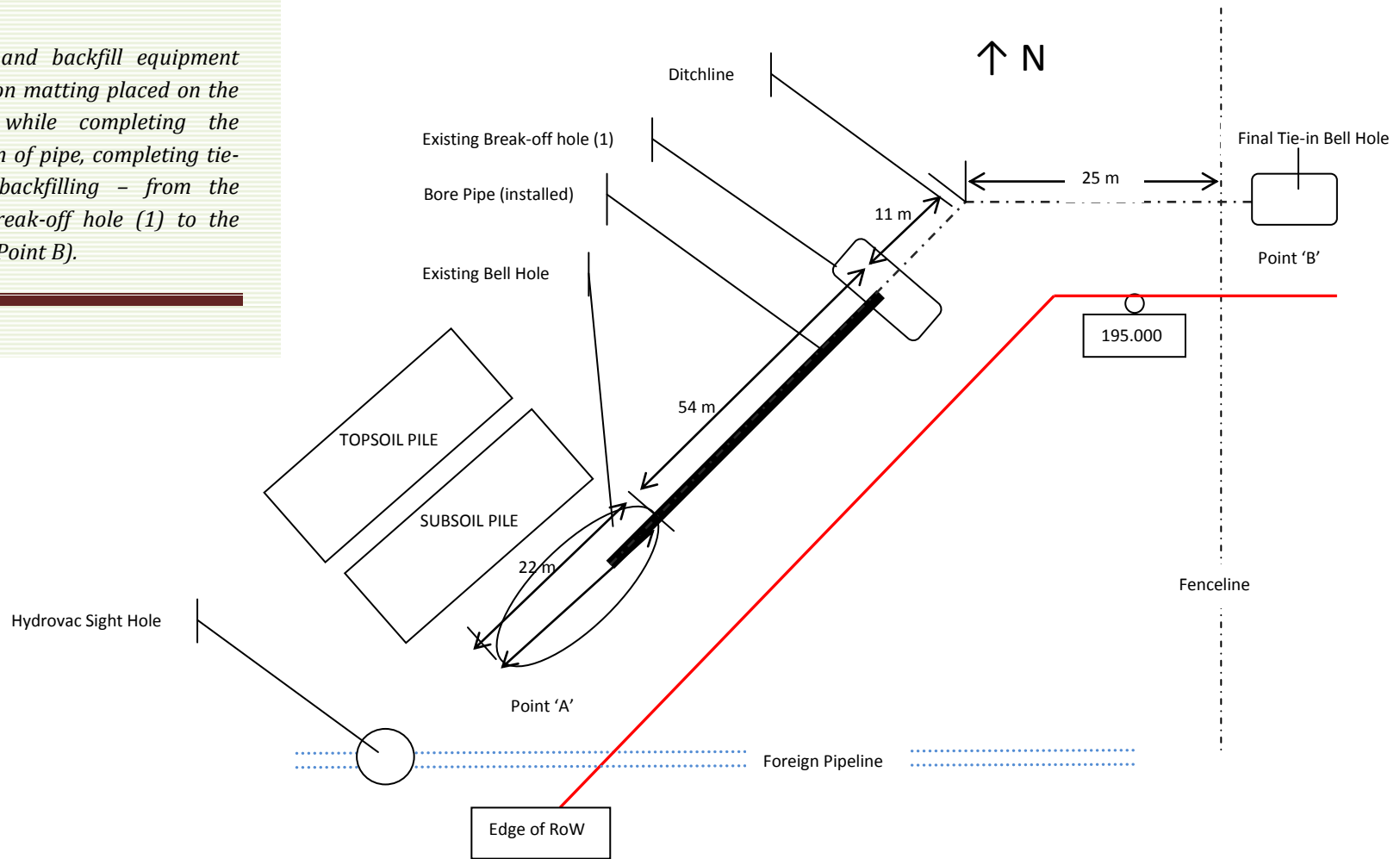
6 PHOTOS & MAP

Photos, mapping and the proposed mitigation plan for the aforementioned wetland, as submitted by Vantage to the National Energy Board, is included herewith for your reference.

WETLAND WT096

Note:

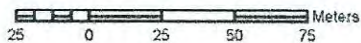
All tie-in and backfill equipment are to sit on matting placed on the worksite while completing the lowering in of pipe, completing tie-ins, and backfilling - from the existing break-off hole (1) to the fenceline (Point B).





See Alignment Sheet 65

Scale: 1:2,500



Legend

Proposed Route:

--- Ditch Line

ROW

TWS

Note: Sketches are based on hand drawn field notes, so locations and boundaries are approximate.



Open Water



Boundary of Wetland



Photo Location / Direction of Photo (Approx. Locations Only)



Location of "Photo Stake"

GPS Point from 2012 Field Work



Fence Line



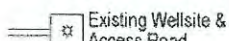
Rock Pile



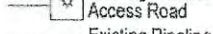
Trees / Shrubs



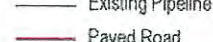
Cattails



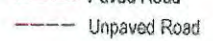
Existing Wellsite & Access Road



Existing Pipeline



Paved Road



Unpaved Road

Wetland Sketch
WLSGF20120623_W02
Wetland 096
Class IV; Cover Type 3

August 2012

Wetland 096

GP REF: 1282-06-200 (AHPP)



Photo 12: Landscape to west



Photo 13: Looking east from midpoint between W2C and W2D.



Photo 14: Looking northwest from midpoint between W2C and W2D.

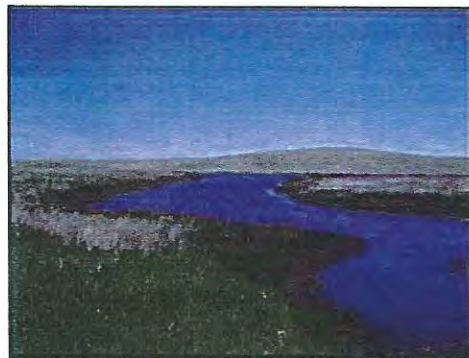


Photo 15: Looking east from fenceline (QS boundary).



Photo 16: Looking west from fenceline (QS boundary).



Photo 17: Route traversed (stake position #1).

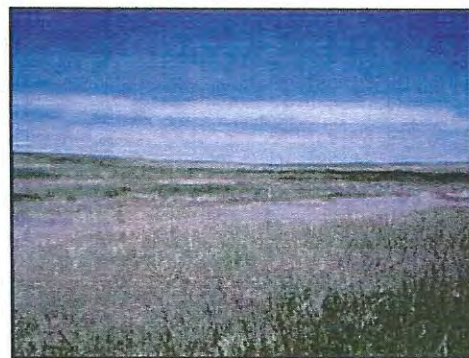


Photo 18: Route traversed to northeast (stake position #2).

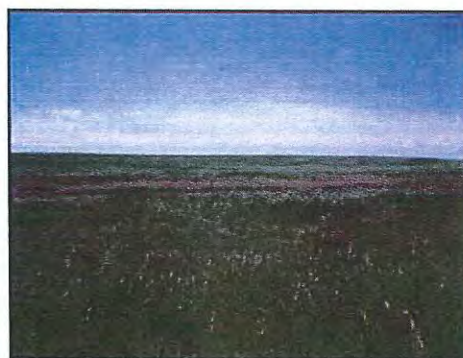


Photo 19: Route traversed to southwest (stake position #2).

GENERAL MITIGATION INFORMATION

- Tilled or Class I, II, III, VI wetlands that are dry or frozen to bottom will be open-cut. Fencing will be used to prevent siltation and to exclude wildlife from the construction area as necessary.
- Tilled or Class I, II, III, VI wetlands that contain water will be assessed for open-cut viability and for wildlife concerns. Open-cut wetlands will be fenced to prevent siltation and to exclude wildlife from the construction area. Wildlife (Amphibian Species at Risk) will be removed off the ROW to suitable habitat using sterile handling techniques under permit from provincial wildlife authorities. If construction is necessary between the period of April 1 to August 31 and if water depth is too great for open-cut, or there are or nesting migratory birds, the wetland will be avoided or trenchless crossing method used.
- Class IV, V wetlands regardless of depth will be avoided or trenchless crossing method used, unless otherwise agreed upon by regulatory authorities.
- For traversed cultivated through wetlands (WT-c) no AHPP permit is required for crossing.

WT096 702888 E, 5512678 N; 12U / SW 13-9-17 W3M / Class IV, Cover Type 3 / Cult. Status: Partially cultivated / Crossing Method: Trenchless

Notes: Wetland extends approx. 600 m past W2F northwest.

Listed Wildlife Species - **2010/2011:** northern leopard frog; **2012:** none observed

Surrounding Land Use - Native Prairie (SE13), Cultivated (SW 13)

Cultivated Status - Partially cultivated (SW 13)

FIELD PHOTOS
WLSGF20120623_W02
Wetland 096
Class IV; Cover Type 3