WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City	y/County: Carlton	Sampling Date: 5/19/2014
Applicant/Owner: Enbridge	State: MI	N Sampling Point CR160d1W
Investigator(s): KRG/KJA		ownship, Range:
Landform (hillslope, terrace, etc.): Depression		oncave, convex, none): CC
Slope (%): 0 - 2% Lat.: <u>46° 35' 50.0640</u> Lor Soil Map Unit Name: 303	ng.: <u>92° 18' 35.2080</u> Datum	
Are climatic/hydrologic conditions of the site typical for the	his time of the year?	NWI Classification: (If no, explain in remarks)
Are vegetation, soil, or hydrology	significantly disturbed	
Are vegetation , soil , soil , or hydrology	naturally problematic?	circumstances" present?
(If needed, explain any answers in remarks)		
SUMMARY OF FINDINGS	-	
Hydrophytic vegetation present? Y	Is the sampled area with	nin a wetland? Y
Hydric soil present? Y		
Indicators of wetland hydrology present? Y	If yes, optional wetland sit	ie ID:
Remarks: (Explain alternative procedures here or in a se	parate report.)	
The wetland consists of a small, depressional	wet meadow within an exist	sting pipeline corridor.
HYDROLOGY		
Primary Indicators (minimum of one is required; check a	ll that apply)	Secondary Indicators (minimum of two required)
	Stained Leaves (B9)	Surface Soil Cracks (B6)
	Fauna (B13)	Drainage Patterns (B10)
	eposits (B15)	Moss Trim Lines (B16)
	en Sulfide Odor (C1)	Dry-Season Water Table (C2)
	ed Rhizospheres on Roots (C3)	 Crayfish Burrows (C8) Saturation Visible on Aerial Imagery
	ce of Reduced Iron (C4)	
	Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial		Geomorphic Position (D2)
	uck Surface (C7)	Shallow Aquitard (D3)
	Explain in Remarks)	Microtopographic Relief (D4)
Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		la l'actava af
Surface water present? Yes	Depth (inches):	Indicators of wetland
Water table present? Yes Saturation present? Yes	Depth (inches): Depth (inches):	hydrology
(includes capillary fringe)	Deptil (inches).	present? Y
		· <u> </u>
Describe recorded data (stream gauge, monitoring well,	aerial photos, previous inspect	tions), if available:
Remarks:		
The sample point is located in a depressional	area and is dominated by	hydrophytic vegetation.

VEGETATION - Use scientific names of plants

VEGETATION -	Use scientific i	names of	plants				Sampling Poir	nt: CR160d1W
							50/20 Thresholds	
Tree Stratum 1 2	Plot Size (30) (Absolute % Cover	Dominant Species	Indicator Status	Tree Stratum Sapling/Shrub Stratum Herb Stratum	20% 50% 0 0 0 0 12 30
2							Woody Vine Stratum	0 0
5							Dominance Test Workshe Number of Dominant	et
7							Species that are OBL,	
8 9							FACW, or FAC: Total Number of Dominant	<u> </u>
10				0	= Total Cover		Species Across all Strata:	<u>1</u> (B)
							Percent of Dominant Species that are OBL,	
Sapling/Shrub Stratum	Plot Size (15)	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:	<u>100.00%</u> (A/B
							Prevalence Index Worksho Total % Cover of:	∋et
3							OBL species 60 x 1	
4 5							FACW species 0 x 2 = FAC species 0 x 3 =	
6							FACU species 0 x 4 UPL species 0 x 5	= 0
8							Column totals 60 (A)	60 (B)
9 10							Prevalence Index = B/A =	1.00
· · ·				0	= Total Cover			
Herb Stratum	Plot Size (5)	Absolute % Cover 60	Dominant Species Y	Indicator Status OBL	Hydrophytic Vegetation In Rapid test for hydrophyt X Dominance test is >50% X Prevalence index is <3.0	ic vegetation
23	s canadensis			00	i		Morphogical adaptations supporting data in Rema	s* (provide
4							separate sheet)	
5 6							Problematic hydrophytic (explain)	vegetation*
7 8 9							*Indicators of hydric soil and wetla present, unless disturbed or proble	
10							Definitions of Vegetation S	
12							Tree - Woody plants 3 in. (7.6 cm) breast height (DBH), regardless of	
							Sapling/shrub - Woody plants les greater than 3.28 ft (1 m) tall.	s than 3 in. DBH an
15				60	= Total Cover		Herb - All herbaceous (non-wood)	/) plants, regardless
Woody Vine	Plot Size (30)	Absolute	Dominant	Indicator	size, and woody plants less than 3	.28 ft tall.
Stratum 1 2	1 101 0120 (% Cover	Species	Status	Woody vines - All woody vines gr height.	eater than 3.28 ft in
3								
5							Hydrophytic vegetation	
				0	= Total Cover		present? Y	
Remarks: (Include p							1	
The small wet	meadow is dor	ninated by	y Cana	da bluejo	pint.			

SOIL								Sar	npling Point: CR160d1W
			e depth needed				confirm	the absence	of indicators.)
Depth (In.)	Mat Color (mo		Color (m	Redox Fe noist)	eatures	s Type*	Loc**	Texture	Remarks
			ion, RM=Reduce	ed Matrix, CS	S=Co	vered or C	oated Sa	nd Grains	
**Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric S Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) (LRR K, L) Depleted Below Dark Suface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Mucky Mineral (F1) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Redox (S5) Depleted Dark Surface (F6) Stripped Matrix (S6) Redox Depressions (F8) Thindicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic							 b) (LRR K, L, MLRA 149B b) (LRR K, L, MLRA 149B b) (LRR K, L, R) b) (LRR K, L c) (LRR K, L c) (LRR K, L) c) (S9) (LRR K, L) <lic) (s9)="" (s9)<="" li=""> <lic) (s9)="" (s9)<<="" td=""></lic)></lic)>		
Type: Depth (i	ive Layer (if ob inches):	served):					Hydric	soil presen	t? <u>Y</u>
	were not sa		to the location n and presenc					ridor. Soils	assumed to be hydric