WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP Cit	ty/County: Carlton Sampling Date: 5/29/2014
Applicant/Owner: Enbridge	State: MN Sampling Point: CRC5097b1W
Investigator(s): KRG/NTT	Section, Township, Range:
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): CC
Slope (%): 0 - 2% Lat.: 46.588142 Lo Soil Map Unit Name: 268B	ng.: <u>-92.664004</u> Datum: WGS84 NWI Classification:
Are climatic/hydrologic conditions of the site typical for the	
Are vegetation, soil, or hydrology	significantly disturbed? Are "normal
Are vegetation, soil, or hydrology	naturally problematic? circumstances" present?
(If needed, explain any answers in remarks)	
SUMMARY OF FINDINGS	
Hydrophytic vegetation present? Y Hydric soil present? Y	Is the sampled area within a wetland? Y
Indicators of wetland hydrology present? Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures here or in a se	eparate report.)
	ing powerline corridor. Most of the vegetation is covered by
algal mat. Shallow standing water is present in s	some areas.
HYDROLOGY	Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check a	
	Stained Leaves (B9)
	c Fauna (B13) Drainage Patterns (B10)
	eposits (B15)
	ed Rhizospheres on
	Roots (C3) Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	nce of Reduced Iron (C4) (C9)
	t Iron Reduction in Tilled I Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (
	luck Surface (C7) Image: Shallow Aquitard (D3) (Explain in Remarks) Image: Microtopographic Relief (D4)
Surface (B8)	✓ FAC-Neutral Test (D5)
	. ,
Field Observations: Surface water present? Yes	Depth (inches): 2 Indicators of
Water table present? Yes	Depth (inches): 0 wetland
Saturation present? Yes	Depth (inches): 0 hydrology
(includes capillary fringe)	present? Y
Describe recorded data (stream gauge, monitoring well,	aerial nhotos, previous inspections), if available
Beschbe recorded data (sitean gauge, monitoling well,	achai photos, previous inspections), il available.
Remarks:	
	eas. Soils are saturated to the surface and algal matting is
extensive.	

VEGETATION - Use scientific names of plants					ampling Point				
Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum Sapling/Shrub Stratum Herb Stratum	20% 0 1 17	50% 0 3 43	
						Woody Vine Stratum	0	0	
							eet		
						Number of Dominant Species that are OBL, FACW, or FAC:	2	(A)	
								(B)	
			0	Total Cover		Percent of Dominant			
Plot Size (15 ft)	Absolute % Cover	Dominant Species	Indicator Status	Species that are OBL, FACW, or FAC:	100.00	<u>0%</u> (A/B)	
3			5	Y	FACW	Total % Cover of:			
						FACW species 5 x 2 FAC species 0 x 3	2 = 1 3 = 0	85 0 0 0	
						UPL species 0 x s Column totals 90 (A	5 = (0 95 (B)	
						Frevalence index - D/A -	1.00	<u>, </u>	
Plot Size (5 ft	`	5 =	Total Cover	Indicator				
	0.10)	% Cover	Species	Status	X Dominance test is >50			
anadensis)	% Cover 80 5	Species Y N	Status OBL OBL		9% 3.0* ions* (pro narks or o	on a	
)	80	Ý	OBL	X Dominance test is >50 X Prevalence index is ≤3 Morphological adaptat supporting data in Rer separate sheet)	3.0* ions* (pro narks or o tic vegeta tland hydro	on a ition*	
		,	80	Ý	OBL	X Dominance test is >50 X Prevalence index is ≤3 Morphological adaptat supporting data in Rer separate sheet) Problematic hydrophyi (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation	% 3.0* ions* (pro narks or o tic vegeta tland hydro blematic n Strata:	on a ntion* logy must be	
			80	Ý	OBL	X Dominance test is >50 X Prevalence index is ≤3 Morphological adaptat supporting data in Rer separate sheet) Problematic hydrophyi (explain) *Indicators of hydric soil and we present, unless disturbed or pro	9% 3.0* ions* (pro narks or o tic vegeta tland hydro blematic n Strata: m) or more	on a ntion* logy must be	
)	80 5 	Y N 	OBL	X Dominance test is >50 X Prevalence index is ≤3 Morphological adaptat supporting data in Rer separate sheet) Problematic hydrophyl (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c	% 3.0* ions* (promotion of the second tic vegetat tland hydro blematic 1 Strata: m) or more of height.	on a tion* logy must be in diameter a	
)	<u>80</u> 5 	Y N	OBL OBL	X Dominance test is >50 X Prevalence index is ≤3 Morphological adaptat supporting data in Rer separate sheet) Problematic hydrophyl (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants I greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-wood	% 3.0* ions* (promarks or of tic vegeta tland hydro blematic 1 Strata: m) or more of height. ess than 3 dy) plants,	on a tion* logy must be in diameter a in. DBH and regardless of	
	30 ft)	80 5 	Y N 	OBL	X Dominance test is >50 X Prevalence index is ≤3 Morphological adaptat supporting data in Rer separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants I greater than 3.28 ft (1 m) tall.	% 3.0* ions* (pro- marks or of tic vegeta tland hydro blematic 1 Strata: m) or more of height. ess than 3 hdy) plants, n 3.28 ft tall	on a htion* logy must be in diameter a in. DBH and regardless of	
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	Plot Size (Plot Size (15 ft	Plot Size (15 ft)	Plot Size (30 ft) % Cover	Plot Size (30 ft) % Cover Species	Plot Size (30 ft) % Cover Species Status	Plot Size (30 ft) % Cover Species Status Tree Stratum	Plot Size (30 ft % CoverSpeciesStatusTree Stratum0	

SOIL								Samp	ling Point:	CRC5097b1W	
Profile	Description:	(Describe	to the o	depth needed t	o documer	nt the ii	ndicator or	⁻ confirm	the absence	of indicators.)	
Depth		Matrix		•	Redox Features						
(In.)	Color	(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	Remarks	
0-8	Hue 10YR	2/2	100						MMI		
8-18	Hue 10YR	4/2	70	Hue_5YR	4/6	30	С	М	SL		
				_							
									1 1		
									1 1		
				n, RM=Reduce	d Matrix, C	S=Cov	vered or C	oated Sa	and Grains		
**Locat	ion: PL=Por	e Lining, M	=Matrix	C							
Hydric	Soil Indica	tors:						Indicat	ors for Prob	lematic Hydric Soils:	
Histosol (A1) □ Polyvalue Below Surface Histoc Epipedon (A2) □ S8) (LRR R, MLRA 149B) Black Histic (A3) □ Thin Dark Surface (S9) Hydrogen Sulfide (A4) □ Coast Prairie Redox (A16) (LRR K, L, R) Stratified Layers (A5) □ LRR R, MLRA 149B Depleted Below Dark Suface (A11) □ Loamy Mucky Mineral (F1) Thick Dark Surface (A12) □ Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) □ Depleted Matrix (S4) □ Stripped Matrix (S6) □ Depleted Dark Surface (F7) □ Stripped Matrix (S6) □ Depleted Dark Surface (F7) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA □ Polytolue Below Dark Surface (TF12) Thin Dark Surface (S7) (LRR R, MLRA □ □ Histor of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.											
Restrictive Layer (if observed): Type:Hyd Depth (inches):									ric soil present? <u>Y</u>		
Remark Soil		r mucky m	ineral	over a deple	eted sand	y loar	n. Redox	c feature	es are comr	non in the lower layer.	