WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP Ci	ty/County: Carlton Sampling Date: 5/28/2014
Applicant/Owner: Enbridge	State: MN Sampling Point: CRC5168j1W
Investigator(s): BJC/DGL	Section, Township, Range:
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): CC
Slope (%): 0 - 2% Lat.: 46.629544 Lc	ng.: -92.484951 Datum:
Soil Map Unit Name: 355E	NWI Classification: PSS1B
Are climatic/hydrologic conditions of the site typical for t	
Are vegetation, soil, or hydrology	
Are vegetation \square , soil \square , or hydrology	naturally problematic? circumstances" present?
(If needed, explain any answers in remarks)	
SUMMARY OF FINDINGS	
Hydrophytic vegetation present? Y	Is the sampled area within a wetland?
Hydric soil present?	·
Indicators of wetland hydrology present?	If yes, optional wetland site ID:
, <u> </u>	
Remarks: (Explain alternative procedures here or in a s	eparate report.)
The wetland is an alder thicket located within ar	n NWI mapped wetland.
HYDROLOGY	
	Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check a	·
	Stained Leaves (B9) Surface Soil Cracks (B6)
	c Fauna (B13)
	eposits (B15) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Hydrog	gen Sulfide Odor (C1)
	ed Rhizospheres on
	Roots (C3) Saturation Visible on Aerial Imagery
☐ Algal Mat or Crust (B4) ☐ Preser	nce of Reduced Iron (C4) (C9)
<u> </u>	t Iron Reduction in Tilled Stunted or Stressed Plants (D1)
☐ Inundation Visible on Aerial Soils (C6) Geomorphic Position (D2)
	—
	luck Surface (C7)
☐ Sparsely Vegetated Concave ☐ Other	luck Surface (C7) Shallow Aquitard (D3) (Explain in Remarks) Microtopographic Relief (D4)
	luck Surface (C7)
☐ Sparsely Vegetated Concave ☐ Other Surface (B8)	luck Surface (C7) Shallow Aquitard (D3) (Explain in Remarks) Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave ☐ Other Surface (B8) Field Observations:	luck Surface (C7) (Explain in Remarks) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
☐ Sparsely Vegetated Concave Surface (B8) Field Observations: Surface water present? Yes ☐	luck Surface (C7) (Explain in Remarks) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Depth (inches): Indicators of
☐ Sparsely Vegetated Concave Surface (B8) Field Observations: Surface water present? Water table present? Yes ✓	Depth (inches): Depth
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□ Sparsely Vegetated Concave Surface (B8) Field Observations: Surface water present? Water table present? Saturation present? (includes capillary fringe) □ Other Surface □ Other Surface □ Other Surface □ Other	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
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Sparsely Vegetated Concave Surface (B8) Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe) Describe recorded data (stream gauge, monitoring well Remarks:	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface water present? Water table present? Saturation present? (includes capillary fringe) Describe recorded data (stream gauge, monitoring well	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)

VEGETATION - Use scientific names of plan	Sampling Point:	CRC5168j1W			
Tree Stratum Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum	20% 50% 5 13
1 Fraxinus nigra	25	Y	FACW	Sapling/Shrub Stratum	14 35
2				Herb Stratum	19 48
3				Woody Vine Stratum	0 0
5				Dominance Test Workshop	eet
6				Number of Dominant	
7				Species that are OBL,	
8				FACW, or FAC:	4 (A)
9 10				Total Number of Dominant	
	25	= Total Cover		Species Across all Strata: Percent of Dominant	4 (B)
				Species that are OBL,	
Sapling/Shrub Plot Size (15 ft) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:	100.00% (A/B)
1 Alnus incana	70	Y	FACW	Prevalence Index Worksh	neet
2				Total % Cover of: OBL species 60 x 1	= 60
3 .				FACW species 130 x 2	
5				FAC species 0 x 3	
6 .				FACU species 0 x 4 UPL species 0 x 5	
8				Column totals 190 (A)	320 (B)
9 10				Prevalence Index = B/A =	1.68
10,	70	= Total Cover			
	Absolute	Dominant	Indicator	Hydrophytic Vegetation I Rapid test for hydrophy	
Herb Stratum Plot Size (5 ft)	% Cover	Species	Status	X Dominance test is >50	
1 Caltha palustris	60	Y	OBL	X Prevalence index is ≤3	
2 Equisetum sylvaticum 3 Onoclea sensibilis	25 10	Y N	FACW FACW	Morphological adaptati supporting data in Ren	
4				separate sheet)	
5				Problematic hydrophyti (explain)	ic vegetation*
7				*Indicators of hydric soil and wet	land hydrology must be
8				present, unless disturbed or prob	
9 10				Definitions of Vegetation	Strata:
11				Tree - Woody plants 3 in. (7.6 cr	
12 13				breast height (DBH), regardless	of height.
14				Sapling/shrub - Woody plants le	ess than 3 in. DBH and
15		Tatal Oanna		greater than 3.28 ft (1 m) tall.	
Woody Vine	95	= Total Cover		Herb - All herbaceous (non-wood	
Stratum Plot Size (30 ft)	Absolute	Dominant	Indicator	size, and woody plants less than	3.28 ft tall.
	% Cover	Species	Status	Woody vines - All woody vines of	greater than 3.28 ft in
1 2				height.	
3					
4				Hydrophytic	
5	0	= Total Cover		vegetation present? Y	
		- Total Cover		present? Y	-
Remarks: (Include photo numbers here or on a sepa		•	-		
Numerous fallen black ash trees were pres	sent at the tir	me of survey	'.		

SOIL								Samp	oling Point:	CRC5168j1W
	_									
		on: (Describe to the depth needed to document the indic					confirm	the absence	of indicators.)	
Depth		Matrix	Redox Features Color (moist) % Typ					1 **	Taxtura	Remarks
(ln.) 0-8	Hue 10YR	(moist) 2/2	100	Color (IIIC	oist)	%	Type*	Loc**	Texture P	
8-18	Hue 10YR	2/2	100						M	
0-10	nue_101K	2/1	100						IVI	
									+ +	
			+++						+	
			+ +						† †	
			1						†	
				RM=Reduced	d Matrix, (CS=Co	vered or C	oated S	and Grains	
	ion: PL=Por	<u> </u>	I=Matrix							
Hydric	Soil Indica	tors:						Indica	tors for Prob	olematic Hydric Soils:
	Histic Epipe Black Histic Hydrogen S Stratified Li Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped M Dark Surfactors of hydro	c (A3) Sulfide (A4) ayers (A5) elow Dark Surface (A ky Mineral yed Matrix (ox (S5) atrix (S6) ce (S7) (LR	Suface (A 12) (S1) (S4) RR R, MLI	Thir (LRI LOS)	(LRR R, Dark Su R R, MLF My Mucky R K, L) My Gleye Jeted Mar Ox Dark S Jeted Dar Ox Depre	rface (\$ RA 149) y Miner d Matri rix (F3) Surface k Surfa ssions	S9) B al (F1) x (F2) (F6) ce (F7) (F8)	5 0 Da Da Da Da Da Da Da	om Mucky Peark Surface (Solyvalue Belovin Dark Surfacen-Manganese edmont Floodiesic Spodic (Ted Parent Matery Shallow Deher (Explain in	ark Surface (TF12) n Remarks)
Restric	tive Layer (i	f observed)	:							
Type:								Hydri	c soil preser	nt? <u>Y</u>
Depth (inches):									
Remarl Soils	ks: s meet hyd	dric indica	tor A1, H	Histosol.						