## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP Ci	ity/County: Carlton	Sampling Date: 6/10/2014
Applicant/Owner: Enbridge	State: M	
Investigator(s): JRT/KJA	Section, T	ownship, Range:
Landform (hillslope, terrace, etc.) Depression	Local relief (co	oncave, convex, non CC
	ong.: -92.458853 Datum	1:
Soil Map Unit Name: 355C		NWI Classification: PSS/EM
Are climatic/hydrologic conditions of the site typical for		(If no, explain in remarks)
Are vegetation, soil, or hydrology	significantly disturbed	
Are vegetation $\Box$ , soil $\Box$ , 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	in a wetland? Y
Hydric soil present? Y		
Indicators of wetland hydrology present? Y	If yes, optional wetland sit	
Remarks: (Explain alternative procedures here or in a s	eparate report.)	
The wetland is wet meadow fringe located betw		r. The site is inundated as a result
of recent beaver activity. There is a floating ma		
	t beyond the open water are	
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check	all that apply)	required)
	-Stained Leaves (B9)	Surface Soil Cracks (B6)
	ic Fauna (B13)	Drainage Patterns (B10)
	Deposits (B15)	Moss Trim Lines (B16)
	gen Sulfide Odor (C1)	Dry-Season Water Table (C2)
	ed Rhizospheres on	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	nce of Reduced Iron (C4)	(C9)
□ Iron Deposits (B5) □ Recen	t Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (	C6)	Geomorphic Position (D2)
Imagery (B7)	luck Surface (C7)	Shallow Aquitard (D3)
□ Sparsely Vegetated Concave □ Other	(Explain in Remarks)	Microtopographic Relief (D4)
Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface water present? Yes	Depth (inches): 4	Indicators of
Water table present? Yes	Depth (inches): 0	wetland
Saturation present? Yes	Depth (inches): 0	- hydrology
(includes capillary fringe)	Deptil (illelies).	present? Y
		p. 000
Describe recorded data (stream gauge, monitoring well	, aerial photos, previous inspect	ions), if available:
Remarks:		
The wetland meets three primary indicators of	f hydrology. Four inches of	standing water is present at the
sample point.	,	

	e scientific	names of	i piant	5		Sampling Point:		aivv	
Tree Stratum	Plot Size (	30 ft	)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum	20% 0	50% 0
					opecies	Otatus	Sapling/Shrub Stratum	4	10
							Herb Stratum	18	45
							Woody Vine Stratum	0	0
							Dominance Test Worksh	et	
							Number of Dominant		
							Species that are OBL,		
							FACW, or FAC:	4	(A)
							Total Number of Dominant		
J			·				Species Across all Strata:	5	(B)
				0 =	Total Cover		Percent of Dominant		
							Species that are OBL,		
Sapling/Shrub	Plot Size (	15 ft	)	Absolute	Dominant	Indicator	FACW, or FAC:	80.00	<u>%</u> (A/B)
Stratum	FIOL SIZE (	1510	)	% Cover	Species	Status			
Alnus incana				10	Y	FACW	Prevalence Index Worksh	neet	
Corylus cornuta				5	Y	FACU	Total % Cover of:		
Spiraea alba				5	Y	FACW	OBL species 90 x 1		0
							FACW species 15 x 2		80
							FAC species 0 x 3		0
							FACU species <u>5</u> x 4 UPL species 0 x 5		2 <u>0</u> D
							UPL species 0 x 5 Column totals 110 (A)		40 (B)
							Prevalence Index = $B/A$ =	1.27	
				20 =	= Total Cover				
					_		Hydrophytic Vegetation I		
Herb Stratum	Plot Size (	5 ft	)	Absolute	Dominant	Indicator	Rapid test for hydrophy		tation
Calamagrostis canade	,			% Cover	Species	Status	X Dominance test is >50		
Carex lacustris	11515			<u>60</u> 25	Y Y	OBL OBL	X Prevalence index is ≤3 Morphological adaptati		ovide
Lemna minor				<u></u> 5	<u> </u>	OBL	supporting data in Ren		
Lennia minor							separate sheet)		011 G
							Problematic hydrophyt	c vegeta	ation*
							(explain)		
							*Indicators of hydric soil and wet	and hydro	logy must t
							present, unless disturbed or prot	lematic	
							Definitions of Venetation	Chuches	
l							Definitions of Vegetation		in diamet
							Tree - Woody plants 3 in. (7.6 cr breast height (DBH), regardless		in diameter
							2. 200 no.g. (2011), regulates		
							Sapling/shrub - Woody plants le	ss than 3 i	in. DBH an
							greater than 3.28 ft (1 m) tall.		
				90	<ul> <li>Total Cover</li> </ul>		Herb - All herbaceous (non-woo	dv) plants	regardless
Woody Vine		00.7		Abortote	Deminent	Indiactor	size, and woody plants less than		
Stratum	Plot Size (	30 ft	)	Absolute % Cover	Dominant Species	Indicator Status			
				% Cover	Species	Status	Woody vines - All woody vines of hoight	reater tha	n 3.28 ft in
							height.		
							Hydrophytic		
							vegetation		
				0 =	Total Cover		present? Y		
							P	_	

SOIL								Samp	ling Point:	CR102a1W	
Profile	Description:	(Describe	to the	depth needed t	o documer	nt the i	ndicator o	r confirm	the absence	of indicators.)	
Depth					Redox F	eature	es			Remarks	
(ln.)	Color	(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	Remarks	
0-3	Hue_7.5YR	2.5/1	100						SL		
3-12	Hue_7.5YR	4/1	95	Hue_5YR	4/6	5	С	М	S		
12-18	Hue_7.5YR	4/1	100						S		
			+								
			+								
			+								
*Type:	C=Concentr	ation. D=De	epletio	n, RM=Reduce	d Matrix. C	CS=Cov	vered or C	oated Sa	and Grains		
	tion: PL=Por				uu						
Hydric	Soil Indica	tors:						Indicat	tors for Prot	plematic Hydric Soils:	
	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)       Loamy Mucky Mineral (F1)         Depleted Below Dark Suface (A11)       (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)         Sandy Redox (S5)       Depleted Dark Surface (F6)         Stripped Matrix (S6)       Depleted Dark Surface (F7)         Dark Surface (S7) (LRR R, MLRA         tors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.						at or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks)				
Restrictive Layer (if observed): Type: Depth (inches):								Hydric soil present? Y			
Remarks: The soils meet hydric indicator S5 (sandy redox).											
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