## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City	/County: Clearwater Sampling Date: 6/2/2014
Applicant/Owner: Enbridge	State: MN Sampling Point: CLC5077c1W
Investigator(s): EAB/RAJ	Section, Township, Range:
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none) CC
Slope (%): 0 - 2% Lat.: 47.403469 Long	g.: -95.257897 Datum:
Soil Map Unit Name: 346	NWI Classification: PEMCd
Are climatic/hydrologic conditions of the site typical for this	
Are vegetation, soil, or hydrology	significantly disturbed? Are "normal circumstances"
Are vegetation, soil, or hydrology	naturally problematic? 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?
Indicators of wetland hydrology present? Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures here or in a sepa	rate report.)
	edge meadow grading into shallow marsh, and lies near
	the southern edge of the wetland to ensure that the entire
complex was included in the delineated area desp	
complex was included in the delineated area desp	
HYDROLOGY	
Primary Indicators (minimum of one is required; check all the	
	tained Leaves (B9)
	Fauna (B13) Drainage Patterns (B10)
	bosits (B15)
	n Sulfide Odor (C1) Dry-Season Water Table (C2)
	Rhizospheres on Living Crayfish Burrows (C8)
Drift Deposits (B3) Roots (C Algal Mat or Crust (B4) Presence	C3)       Saturation Visible on Aerial Imagery         e of Reduced Iron (C4)       (C9)
	ron Reduction in Tilled Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (C6	
	ck Surface (C7)
<b>U J U J</b>	xplain in Remarks)
Surface (B8)	✓ FAC-Neutral Test (D5)
Field Observations:	
Surface water present? Yes	Depth (inches): 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, ae	rial photos, previous inspections), if available:
Remarks:	
Saturation present at the sample point; surface v	vater present through much of the wetland.
	P

VEGETATION - Use scientific names of plants	Sampling Point: CLC5077c1W			
Tree Stratum         Plot Size (30 ft)           1	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum23Woody Vine Stratum0
5 6 7 8 9 10 Sapling/Shrub Stratum Plot Size ( 15 ft )	= 	Total Cover Dominant Species	Indicator Status	Dominance Test Worksheet         Number of Dominant         Species that are OBL,         FACW, or FAC:       1 (A)         Total Number of Dominant         Species Across all Strata:       1 (B)         Percent of Dominant         Species that are OBL,         FACW, or FAC:       100.00% (A/B)
1		Total Cover		Prevalence Index WorksheetTotal % Cover of: OBL species80 $x 1 =$ 80FACW species35 $x 2 =$ 70FAC species1 $x 3 =$ 3FACU species0 $x 4 =$ 0UPL species0 $x 5 =$ 0Column totals116(A)153Prevalence Index = B/A =1.32
Herb Stratum     Plot Size (5 ft)       1     Juncus arcticus       2     Phalaris arundinacea       3     Carex pellita       4     Symphyotrichum lanceolatum       5     Mentha arvensis       6     Equisetum arvense       7     8	Absolute % Cover 20 20 10 5 1	Dominant Species Y N N N N N	Indicator Status OBL FACW OBL FACW FACW FAC	Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         X       Dominance test is >50%         X       Prevalence index is ≤3.0*         Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)         Problematic hydrophytic vegetation* (explain)         *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
9 10 11 12 13 14 15 Woody Vine Stratum Plot Size ( 30 ft ) 1 2	<u> </u>	Total Cover Dominant Species	Indicator Status	<ul> <li>Definitions of Vegetation Strata:</li> <li>Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</li> <li>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vines - All woody vines greater than 3.28 ft in height.</li> </ul>
3 4 5	0=	Total Cover		Hydrophytic vegetation present? Y
Remarks: (Include photo numbers here or on a separat The vegetation at the sample point is domina		rush, with a	smaller reed ca	anary grass component.

SOIL								Samp	ling Point:	CLC5077c1W	
Profile I	Description:	(Describe to	o the d	epth needed to	document	the ind	icator or co	onfirm the	e absence of	indicators.)	
Depth		Matrix			Redox						
(ln.)	Color	(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	Remarks	
0-9	Hue_10YR	2/1	100						М		
9-14	Hue_10YR	2/1	95	Hue_7.5YR	3/4	5	С	М	С		
14-20	Hue_10YR	6/1	100						С		
								-			
	C=Concentra ion: PL=Pore			, RM=Reduced	Matrix, CS	S=Cove	red or Coa	ted Sanc	Grains		
Hydric	Soil Indicat	ors:						Indicat	ors for Prot	plematic Hydric Soils:	
<ul> <li>☐ Histosol (A1)</li> <li>☐ Polyvalue E</li> <li>(S8) (LRR I</li> <li>☐ Black Histic (A3)</li> <li>☐ Thin Dark S</li> <li>☐ Hydrogen Sulfide (A4)</li> <li>☐ Stratified Layers (A5)</li> <li>☐ Depleted Below Dark Suface (A11)</li> <li>☐ Thick Dark Surface (A12)</li> <li>☐ Sandy Mucky Mineral (S1)</li> <li>☐ Sandy Gleyed Matrix (S4)</li> <li>☐ Stripped Matrix (S6)</li> <li>☐ Dark Surface (S7) (LRR R, MLRA</li> <li>*Indicators of hydrophytic vegetation and wetland hydrology m</li> </ul>					) (LRR R, n Dark Sur R R, MLR amy Mucky R K, L) amy Gleyed bleted Mati dox Dark S bleted Darl dox Depres	MLRA face (S A 149E Minera d Matrix rix (F3) surface < Surfac ssions (	<b>149B</b> ) 9) 3 11 (F1) 5 (F2) (F6) 5e (F7) F8)	9B)       Coast Prairie Redox (A16) (LRR K, L, R)         5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Dark Surface (S7) (LRR K, L         =1)       Polyvalue Below Surface (S8) (LRR K, L)         =1       Thin Dark Surface (S9) (LRR K, L)         =2       Iron-Manganese Masses (F12) (LRR K, L, R)         =1       Piedmont Floodplain Soils (F19) (MLRA 149         5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149E         5)       Red Parent Material (F21)         5)       Other (Explain in Remarks)			
Restrictive Layer (if observed):     Type:     Hydric soil present? Y       Depth (inches):     Y											
Remark Muc		a clay laye	er with	n redox conce	entrations	;.					