## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City	/County: Clearwater Sampling Date: 6/3/2014
Applicant/Owner: Enbridge	State: MN Sampling Point: CLC5078d1W
Investigator(s): EAB/RAJ	Section, Township, Range:
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none) CC
	g.: -95.255422 Datum:
Soil Map Unit Name: 40B	NWI Classification:
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	arate report )
	. A sedge meadow interior is surrounded by a fringe of fresh
	. A seage meadow intenor is surrounded by a minge of mesh
meadow dominated by reed canary grass.	
HYDROLOGY	
	Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all the	
	tained Leaves (B9)
	Fauna (B13) Drainage Patterns (B10)
	posits (B15)     Moss Trim Lines (B16)       en Sulfide Odor (C1)     Dry-Season Water Table (C2)
	A Rhizospheres on Living Crayfish Burrows (C8)
Drift Deposits (B3)	
	e of Reduced Iron (C4) (C9)
	Iron Reduction in Tilled Stunted or Stressed Plants (D1)
□ Inundation Visible on Aerial Soils (C6	
	ck Surface (C7)
	Explain in Remarks)
Surface (B8)	FAC-Neutral Test (D5)
	· · · · · · · · · · · · · · · · · · ·
Field Observations:	
Surface water present? Yes	Depth (inches): 3 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 nhotos, previous inspections), if available:
2000 no recorded data (oredin gauge, montoning well, de	
Remarks:	
Soils throughout the wetland are saturated and s	surface water is present.

VEGETATION - Use scientific names of plants	Sampling Point:	int: CLC5078d1W			
Tree Stratum         Plot Size (30 ft)           1	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum1Herb Stratum22Woody Vine Stratum0	
5 6 7 8 9 10 Sapling/Shrub Stratum Plot Size ( 15 ft )		Total Cover Dominant Species	Indicator Status	Dominance Test WorksheetNumber of Dominant Species that are OBL, FACW, or FAC:2 (A)Total Number of Dominant Species Across all Strata:2 (B)Percent of Dominant Species that are OBL, FACW, or FAC:100.00% (A/B)	
1     Salix petiolaris       2	5	Y Total Cover	FACW	Prevalence Index WorksheetTotal % Cover of:OBL species16X 1 =16FACW species100X 2 =200FAC species0X 3 =0FACU species0X 4 =0UPL species0Column totals116(A)216Prevalence Index = B/A =1.86	
Herb Stratum     Plot Size (5 ft)       1     Phalaris arundinacea       2     Calamagrostis canadensis       3     Sium suave       4	Absolute % Cover 95 15 1	Dominant Species Y N N	Indicator Status FACW OBL OBL	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	
10	= 	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         Remarks: (Include photo numbers here or on a separa)	=	Total Cover		Hydrophytic vegetation present? Y	
The vegetation at the sample point is domina		anary grass	, with bluejoint	comprising most of the remaining cover.	

SOIL								Samp	ling Point:	CLC5078d1W	
Drafila	Decerintian	(Deceribe to	the d	lenth needed to	daaumaant	مام م	iaatar ar a	a safirma the	- choose of	indicators )	
		Describe to Matrix	the a	lepth needed to	Redox F			onfirm the	e absence of	Indicators.)	
Depth			%	Color (m		%		Loc**	Texture	Remarks	
(ln.)		(moist)	-	Color (m	r í	_	Type*	LOC			
0-8	Hue_10YR	3/2	98	Hue_10YR	3/4	2			SICL		
8-18	Hue_10YR	6/1	98	Hue_10YR	4/4	2			SICL		
			+		I	┥┥					
			+			┥┥		+			
*T		tion D-Dom	lation	, RM=Reduced	Matrix CO			tod Cond	Oraina		
•••		e Lining, M=N			Matrix, CS	-Cove	red of Coa	lieu Sanu	Grains		
	Soil Indicat		VIALITA					Indicat	ors for Prob	blematic Hydric Soils:	
	☐ Histosol (A1)       ☐ Polyvalue Below Sur (S8) (LRR R, MLRA         ☐ Black Histic (A3)       ☐ Thin Dark Surface (S (LRR R, MLRA 1491)         ☐ Stratified Layers (A5)       ☐ Loamy Mucky Mineral (LRR K, L)         ☐ Thick Dark Surface (A12)       ☐ Loamy Gleyed Matrix (F3)         ☐ Sandy Mucky Mineral (S1)       ☐ Depleted Matrix (F3)         ☐ Sandy Redox (S5)       ☐ Depleted Dark Surface         ☐ Dark Surface (S7) (LRR R, MLRA         *Indicators of hydrophytic vegetation and wetland hydrology must be p         Restrictive Layer (if observed):					MLRA face (S A 149E Minera d Matrix ix (F3) urface c Surfac ssions (	<b>149B</b> ) 9) <b>3</b> al (F1) ((F2) (F6) (F6) (F8)	<ul> <li>2 cm Muck (A10) (LRR K, L, MLRA 149B</li> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>			
Туре:	inches):							Hydrid	c soil prese	nt? <u>Y</u>	
Remark		obcorre	+ h		file						
Red	ox features	observed	throu	ughout the pro	ofile.						