WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County: Clearwater	Sampling Date: 6/6/2014								
Applicant/Owner: Enbridge	State: N									
Investigator(s): EAB/RAJ		Township, Range:								
Landform (hillslope, terrace, etc.) Depression		concave, convex, noneCC								
Slope (%): 0 - 2% Lat.: 47.289067 Soil Map Unit Name: 1113	_Long.: <u>-95.180924</u> Datu	Im: NWI Classification: PSS1/EMC								
Are climatic/hydrologic conditions of the site typical	for this time of the year?	(If no, explain in remarks)								
Are vegetation , soil , or hydro										
Are vegetation \Box , soil \Box , or hydro		_								
(If needed, explain any answers in remarks)										
SUMMARY OF FINDINGS										
Hydrophytic vegetation present? Y	Is the sampled area wit	thin a wetland?								
Hydric soil present? Y	_ is the sampled area with	um a wedand:								
Indicators of wetland hydrology present? Y	dicators of wetland hydrology present? Y If yes, optional wetland site ID:									
Remarks: (Explain alternative procedures here or in										
The wetland is a shallow, lake sedge-dominated marsh surrounded by mesic forest.										
HYDROLOGY										
 ☑ High Water Table (A2) ☑ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ R 	eck all that apply) ater-Stained Leaves (B9) quatic Fauna (B13) arl Deposits (B15) ydrogen Sulfide Odor (C1) xidized Rhizospheres on ving Roots (C3) resence of Reduced Iron (C4) ecent Iron Reduction in Tilled bils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)								
	nin Muck Surface (C7)	☐ Shallow Aquitard (D3)								
	ther (Explain in Remarks)	☐ Microtopographic Relief (D4)								
Surface (B8)		FAC-Neutral Test (D5)								
Field Observations: Surface water present? Water table present? Saturation present? Yes Ves V	Depth (inches): 3 Depth (inches): 0 Depth (inches): 0	Indicators of wetland hydrology								
(includes capillary fringe)		present? Y								
Describe recorded data (stream gauge, monitoring	well, aerial photos, previous inspe-	ctions), if available:								
(a. a	, , , , , , , , , , , , , , , , , , , ,									
Remarks:										
Surface water is present throughout the w	etland.									
·										

							Samp	ling Point:	CLC5115a1W	
							_			
		to the	depth needed t				confirm	the absence	of indicators.)	
		0/						T t	Remarks	
	r` ´	_	Color (m	oist)	%	Type*	LOC^^			
		_			<u> </u>					
		_	Hue_10YR	3/6	5	С	М			
		_								
Hue_10YR	4/1	95	Hue_10YR	3/4	5	С	M	SC		
				d Matrix, C	S=Cov	ered or C	oated Sa	and Grains		
Soil Indica	tors:						Indicat	ors for Prob	lematic Hydric Soils:	
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Suface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA)						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 Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Ce (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
Restrictive Layer (if observed): Type: Depth (inches):							Hydric soil present? Y			
	I soil overla	ays s	andy clay wit	h redox f	eature					
	Color Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR General Hue_10YR Hue_10	Matrix Color (moist) Hue_10YR	Matrix Color (moist) % Hue_10YR	Matrix Color (moist)	Matrix Redox F Color (moist) % Color (moist) Hue_10YR 2/1 100 Hue_10YR 2/1 50 Hue_10YR 3/6 Hue_10YR 3/1 45 Hue_10YR 4/1 95 Hue_10YR 3/4 Hue_10YR 4/1 95 Hue_10YR 3/4 C=Concentration, D=Depletion, RM=Reduced Matrix, One of the color of	Matrix	Matrix	Description: (Describe to the depth needed to document the indicator or confirm Matrix Redox Features Color (moist)	Color (moist)	