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: CLC5079b3W						
Investigator(s): EAB/RAJ	Section, Township, Range:						
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none) CC						
Slope (%): 0 - 2% Lat.: 47.396203	Long.: -95.253515 Datum:						
Soil Map Unit Name: 40B	NWI Classification: PSS1C						
Are climatic/hydrologic conditions of the site typical for Are vegetation , soil , or hydrol							
Are vegetation, soil, or hydrol (If needed, explain any answers in remarks)	ogy naturally problematic? present?						
(II fleeded, explain any answers in remarks)							
SUMMARY OF FINDINGS							
SOMMAN OF FINDINGS							
Hydrophytic vegetation present? Hydric soil present? Y	Is the sampled area within a wetland?						
Hydric soil present? Indicators of wetland hydrology present? Y	If yes, optional wetland site ID:						
indicators of wettand flydrology present:	ii yes, optional wetiand site ib.						
Remarks: (Explain alternative procedures here or in a	separate report.)						
The wetland community is a coniferous bog of	lominated by black spruce. The microtopography consists of						
hummocks and hollows.							
HYDROLOGY							
✓ High Water Table (A2) ☐ Ad ✓ Saturation (A3) ☐ M ☐ Water Marks (B1) ☐ Hy ☐ Sediment Deposits (B2) ☐ O ☐ Drift Deposits (B3) Rd ☐ Algal Mat or Crust (B4) ☐ Pr ☐ Iron Deposits (B5) ☐ Re ☐ Inundation Visible on Aerial Sd	Secondary Indicators (minimum of two required) ater-Stained Leaves (B9) quatic Fauna (B13) arl Deposits (B15) vdrogen Sulfide Odor (C1) cidized Rhizospheres on Living bots (C3) esence of Reduced Iron (C4) ecent Iron Reduction in Tilled bils (C6) in Muck Surface (C7) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Vargen Sulfide Odor (C1) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)						
	her (Explain in Remarks) I Microtopographic Relief (D4)						
Surface (B8)	✓ FAC-Neutral Test (D5)						
Field Observations: Surface water present? Water table present? Saturation present? (includes capillary fringe) Yes Yes I	Depth (inches): Indicators of wetland hydrology present? Y						
Describe recorded data (stream gauge, monitoring w	ell, aerial photos, previous inspections), if available:						
Remarks:							
	ater is present in hollows but not on hummocks.						
,							

SOIL								Samp	ling Point:	CLC5079b3W
Profile [Description:	(Describe to	the dep	oth needed to				onfirm the	e absence of	indicators.)
Depth	Matrix Redox Featu						1		Remarks	
(ln.)		(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	
0-20	Hue_5YR	2.5/2	100						Р	
			+-+					-		
			+ +					1		
			+ +					1		
			+ +					1		
			+ +							
			1 1					1		
				RM=Reduced	Matrix, CS=	=Cove	red or Coa	ted Sand	l Grains	
	Soil Indicat	e Lining, M=	waurx					Indicat	ore for Prob	lematic Hydric Soils:
riyaric	oon maicat	013.						maicat	013 101 1 100	nematic riyane dons.
	Histosol (A1	,			yvalue Belo)) (LRR K, L, MLRA 149B
	Histic Epipe Black Histic				i) (LRR R, N n Dark Surf					edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R)
	Hydrogen S				RR R, MLRA					67) (LRR K, L
	Stratified La				my Mucky				,	v Surface (S8) (LRR K, L)
		elow Dark S			RK, L)					ce (S9) (LRR K, L)
		Surface (A1:			my Gleyed					e Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 14 Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 145										
	Sandy Red		,		oleted Dark				d Parent Mat	
☐ Stripped Matrix (S6) ☐ Redox Depressions (F8) ☐ Very Shallow Dark Surface (TF12)										
☐ Dark Surface (S7) (LRR R, MLRA ☐ Other (Explain in Remarks)										n Remarks)
*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
					<u> </u>		•		<u>'</u>	
Restrict	ive Layer (if	observed).								
Type:	ivo Layor (ii	oboci ved).						Hydri	c soil preser	nt? Y
Depth (i	inches):							•	·	
Remark	e.									
		is neat to	20" me	eting indica	ator A1- H	istos	ol			
The soil profile is peat to 20", meeting indicator A1- Histosol.										