WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	_ City/County: Carlton	Sampling Date: 6/10/2014						
Applicant/Owner: Enbridge	State: M							
Investigator(s): JRT/KJA		Fownship, Range:						
Landform (hillslope, terrace, etc.) Depression		oncave, convex, nonc <u>CC</u>						
Slope (%): 0 - 2% Lat.: 46.635054	Long.: <u>-92.459451</u>	n:						
Soil Map Unit Name: 355C Are climatic/hydrologic conditions of the site typical	for this time of the year?	NWI Classification: PSS/EM1F						
Are vegetation , soil , or hydro		(If no, explain in remarks) Are "normal						
Are vegetation \Box , soil \Box , or hydro		_						
(If needed, explain any answers in remarks)	naturally problematic	circumstances present:						
(in needed, explain any anowers in remarks)								
SUMMARY OF FINDINGS								
Hydrophytic vegetation present? Y	Is the sampled area with	nin a wetland?						
Hydric soil present?	_							
Indicators of wetland hydrology present?	If yes, optional wetland si	te ID:						
	_							
Remarks: (Explain alternative procedures here or in								
The wetland contains abnormally high wate								
inundated and drown-out is occurring in the	wetland. Dead speckled alder	is present around the wetland						
fringe.								
HYDROLOGY								
 ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial ☐ Imagery (B7) ☐ Sparsely Vegetated Concave ☐ Surface (B8) 	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) nin Muck Surface (C7) ther (Explain in Remarks)	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) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)						
Field Observations: Surface water present? Water table present? Yes Ves	Depth (inches): 2 Depth (inches): 0	Indicators of wetland						
Saturation present? Yes	Depth (inches): 0	hydrology						
(includes capillary fringe)		present? Y						
Describe recorded data (stream gauge, monitoring	well, aerial photos, previous inspec	tions), if available:						
	, p							
Damada								
Remarks:	tland in a faw inches of steer to	ing water. Three primary indicates:						
The soil pit was dug at the edge of the we	uanu, in a iew inches oi standi	ing water. Three primary indicators						
of hydrology were observed.								

SOIL								Samp	ling Point:	CR101d1W	
			to the	depth needed to document the indicator or confirm				r confirm	the absence	e of indicators.) Remarks	
Depth		Matrix	%	Redox Feature Color (moist) %							
(ln.) 0-3	Hue 7.5YR	(moist) 3/2	100	Color (III	oist)	%	Type*	Loc**	Texture SIL		
3-18	Hue 7.5YR	3/2	90	Hue 2.5YR	3/6	10	С	М	LS		
3-10	nue_/.51K	3/2	90	Hue_2.51K	3/0	10		IVI	LO		
				n, RM=Reduce	d Matrix, C	S=Cov	ered or C	oated S	and Grains		
	ion: PL=Por	<u> </u>	=iviatri	X					to a Company	demande the date of the	
Hyaric	Soil Indica	tors:						indica	tors for Proc	olematic Hydric Soils:	
Histosol (A1) 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) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA *Indicators of hydrophytic vegetation and wetland hydrology must be						MLRA face (S A 149B Minera d Matrix rix (F3) furface c Surface ssions (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) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
Restric	tive Layer (it	f observed):									
Type:								Hydric soil present? Y			
Depth (inches):										
Remark	KS:										
		oils meet l	hydric	soil indicator	r S5 (san	dy red	ox).				
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