## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Applicant/Owner: Enbridge	//County: Carlton Sampling Date: 5/19/2014
	State: MN Sampling Point CR160d1U
Investigator(s): KRG/KJA	Section, Township, Range:
Landform (hillslope, terrace, etc.): Rise	Local relief (concave, convex, none): VL
	g.: 92°18'35.4712" Datum: WGS84
Soil Map Unit Name: 303	NWI Classification:
Are climatic/hydrologic conditions of the site typical for th	
Are vegetation, soil, or hydrology	significantly disturbed? Are "normal
Are vegetation $\square$ , soil $\square$ , or hydrology	naturally problematic? circumstances" present?
(If needed, explain any answers in remarks)	
SUMMARY OF FINDINGS	
SOMMAN OF THE BINGS	
Hydrophytic vegetation present? N	Is the sampled area within a wetland?
Hydric soil present?	is the sampled area within a wettand:
Indicators of wetland hydrology present?	If yes, optional wetland site ID:
indicators of wetland flydrology present:	ii yes, optional wetland site ib.
Remarks: (Explain alternative procedures here or in a se	parate report.)
The upland point is in a pasture within the exis	
The apiana point is in a pastare within the exic	ang pipomie demaor.
LIV/DDQL QQV/	
HYDROLOGY	
	Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all	_' '
	Stained Leaves (B9) Surface Soil Cracks (B6)
	Fauna (B13) Drainage Patterns (B10)
Saturation (A3) Marl De	posits (B15) Moss Trim Lines (B16)
Saturation (A3) Marl De Water Marks (B1) Hydroge	posits (B15)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2)  Marl De Hydroge	posits (B15)
Saturation (A3)	posits (B15)
Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Marl De  Hydroge  Oxidized  Living R	posits (B15)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)  Marl De Hydroge Oxidized Living R Presence	posits (B15)
Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial  Marl De  Hydroge  Oxidized  Living R  Event  Recent  Soils (C	posits (B15)  In Sulfide Odor (C1) In Sulfide Odor (C2) In Sulfide Odor (C3) In Sulfide Odor
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)  Marl De Marl	posits (B15)  In Sulfide Odor (C1) In Sulfide Odor (C2) In Sulfide Odor (C3) In Sulfide Odor
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  Marl De Hydroge Coxidized Living R Living R Recent Soils (C	posits (B15) In Sulfide Odor (C1) Id Rhizospheres on Idoots (C3) Idoots (C3) Idoots (C4) In Reduction in Tilled Idoots (C7) In Sulfide Odor (C1) In Sulfide Odor (C1) In Sulfide Odor (C1) In Sulfide Odor (C2) In Sulfide Odor (C3) In Sulfide
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SOIL									Sam	pling Point:	CR160d1U
Drofilo	Dosorintion:	(Dosoribo	to the de	onth noodod t	to docume	ant tha i	ndicator or	confirm	the absonce o	of indicators \	
Depth		Matrix	to the de	pin needed i		Feature		COMMITTE		f indicators.)	
(ln.)		(moist)	%	Color (m		%	Type*	Loc**	Texture	Rema	ırks
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<b>.</b> -			كيبك	DM D 1	<u> </u>						
	C=Concenti ion: PL=Por			RM=Reduce	d Matrix,	CS=Co	vered or Co	oated Sa	nd Grains		
	Soil Indica							Indicat	ors for Proble	ematic 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 ☐ 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be						x (F2) x (F2) c (F6) c (F8)	□ 2 cm Muck (A10) (LRR K, L, MLRA 149B □ 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 149E □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Red Parent Material (F21) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) unless disturbed or problematic				
Restrictive Layer (if observed): Type: Depth (inches):							Hydric soil present? N				
	s were not			the proximit	-	• .	•	Soils are	e assumed r	non-hydric ba	sed on the