WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County: Wadena	Sampling Date: 9/8/2014
Applicant/Owner: Enbridge	State: MN	Sampling Point: WA006a1U
Investigator(s): BEH/RAJ	Section, To	wnship, Range:
Landform (hillslope, terrace, etc.): Side slope	Local relief (cor	ncave, convex, none VL
Slope (%): 8 - 15% Lat.: 46.79443583	Long.: -94.8764606 Datum:	
Soil Map Unit Name: 458B		NWI Classification:
Are climatic/hydrologic conditions of the site typical for		(If no, explain in remarks)
Are vegetation, soil, or hydrological	ogy significantly disturbed?	Are "normal
Are vegetation, soil, or hydrological and the second control of the second c	ogy naturally problematic?	circumstances" present?
(If needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
III had the same of the same o	to the converted to a constitution	
Hydrophytic vegetation present? N	Is the sampled area within	n a wetland?
Hydric soil present? N	- , , , , , , , , , , , , , , , , , ,	
Indicators of wetland hydrology present? N If yes, optional wetland site ID:		
Demontos (Evaleia alternativo avecadores have avia o		
Remarks: (Explain alternative procedures here or in a		de la deserva de la la la la la la del de
The upland sample point is located in a hardwood forest, upslope from an ash-dominated floodplain forest		
surrounding the Crow Wing River.		
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; chec	k all that apply)	required) \
	ater-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	uatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	rl Deposits (B15)	Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Hy	drogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	dized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	ots (C3)	Saturation Visible on Aerial Imagery
	esence of Reduced Iron (C4)	(C9)
☐ Iron Deposits (B5) ☐ Re	cent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
	ls (C6)	Geomorphic Position (D2)
	n Muck Surface (C7)	Shallow Aquitard (D3)
_ , , ,	ner (Explain in Remarks)	Microtopographic Relief (D4)
Surface (B8)		FAC-Neutral Test (D5)
Field Observations		
Field Observations:	Donth (inches)	In diagraph of
Surface water present? Yes	Depth (inches):	Indicators of wetland
Water table present? Yes Saturation present? Yes	Depth (inches):	.
(includes capillary fringe)	Deptil (iliches).	hydrology present? N
(includes capillary filinge)		present?N
Describe recorded data (stream gauge, monitoring w	ell, aerial photos, previous inspection	ns), if available:
(, ,, ,,	**
Remarks:		
No primary or secondary hydrological indica	ators were observed.	

SOIL WA006a1U **Sampling Point:** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth Remarks Color (moist) % Loc** (In.) Color (moist) Type* Texture 0-3 Hue_10YR 2/2 100 SL 3/2 100 LS 3-19 Hue_10YR 19-22 100 S Hue 10YR 3/2 *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils: 2 cm Muck (A10) (LRR K, L, MLRA 149B Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L Hydrogen Sulfide (A4) (LRR R, MLRA 149B Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**) Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (F21) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Hydric soil present? N Type: Depth (inches): Remarks: The soil is three dark layers: sandy loam over loamy sand underlain by sand. The profile does not meet any hydric soil indicators.