WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Sandpiper	City/County:	Wadena	Sampling Date	: <u>09/12/2014</u>
Applicant/Owner: Enbridge		State: MN	Sampling F	Point: WA021a1W
Investigator(s): DPT		Section, To	wnship, Range:	
Landform (hillslope, terrace, etc.): Depression	Lo	cal relief (cor	ncave, convex, none):	Concave/Concave
	Long.:	Datum:		
Soil Map Unit Name			NWI Classification:	
Are climatic/hydrologic conditions of the site typical	for this time of the year	r?	(If no, explain in remark	(S)
Are vegetation , soil , or hydrolog		ly disturbed?	Are "normal	
Are vegetation , soil , or hydrolog		roblematic?	circumstances'	present? Yes
(If needed, explain any answers in remarks)	·			
SUMMARY OF FINDINGS				
Hydrophytic vegetation present? Y	Is the sample	d area withii	n a wetland?	Υ
Hydric soil present? Y				
Indicators of wetland hydrology present?	If yes, optional	I wetland site	ID: WA021a1	IW
	, 555, 54			
Remarks: (Explain alternative procedures here or in	a separate report.)			
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DEM. Type 2 wet medday.				
PEM - Type 2, wet meadow				
HYDROLOGY				
			Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; che	ck all that apply)		required)	
Surface Water (A1) Water-Stained Leaves (B9)			Surface Soil Cracks (B6)	
High Water Table (A2) Aqu	Aquatic Fauna (B13)		Drainage Patterns (B10)	
X Saturation (A3) Mar	Marl Deposits (B15)		Moss Trim Lines (B16)	
Water Marks (B1) Hyd	Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)	
Sediment Deposits (B2) Oxid	Oxidized Rhizospheres on Living		Crayfish Burrows (C8)	
	Roots (C3)		Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4) Pres	Presence of Reduced Iron (C4)		(C9)	
Iron Deposits (B5) Rec	Recent Iron Reduction in Tilled		Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial Soil	Soils (C6)		X Geomorphic Position (D2)	
	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Sparsely Vegetated Concave Other	Other (Explain in Remarks)		X FAC-Neutral Test (D5)	
Surface (B8)			Microtopographic Re	elief (D4)
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Field Observations:				
Surface water present? Yes No	X Depth (inches)):	Indicators of	
Water table present? Yes X No	Depth (inches)): 20	wetland	
Saturation present? Yes X No	Depth (inches)): 10	hydrology	
(includes capillary fringe)			present?	Υ
			·	
Describe recorded data (stream gauge, monitoring v	vell, aerial photos, prev	vious inspecti	ions), if available:	
		-	•	
Remarks:				

SOIL WA021a1W **Sampling Point:** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Texture Remarks (Inches) Color (moist) % Loc** Color (moist) Type* 0-5 10YR 2/1 100 Sandy Loam 5-16 10YR 2/1 100 Loamy Sand 16-22 10YR 4/2 90 10YR 4/6 10 С М Sand *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 Histisol (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) Depleted Below Dark Suface (A11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) X 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) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Red Parent Material (F21) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? Y Depth (inches): Remarks: