WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Sandpiper	City/County:	Wadena	Sampling Date: 09/13/2014
Applicant/Owner: Enbridge		State: MN	Sampling Point: WA017b6U
Investigator(s): DPT		Section, Township	p, Range:
Landform (hillslope, terrace, etc.): Rise	Lo	cal relief (concave,	
Slope (%): 2 Lat.:	Long.:	Datum:	-
Soil Map Unit Name		NWI	Classification:
Are climatic/hydrologic conditions of the site typi	cal for this time of the year		, explain in remarks)
Are vegetation , soil , or hydr		ly disturbed?	Are "normal
Are vegetation , soil , or hydr		roblematic?	circumstances" present? Yes
(If needed, explain any answers in remarks)	<u> </u>		•
SUMMARY OF FINDINGS			
Hydrophytic vegetation present?	Is the sample	d area within a we	etland? N
Hydric soil present?			
Indicators of wetland hydrology present?	If yes ontional	I wetland site ID:	
indicators of worlding hydrology procent:	i yoo, optional	- Wolland Site 15.	
Remarks: (Explain alternative procedures here or in a separate report.)			
HYDROLOGY			
		Seco	ndary Indicators (minimum of two
Primary Indicators (minimum of one is required;	check all that apply)	requir	
	Water-Stained Leaves (B9)	-	urface Soil Cracks (B6)
	Aquatic Fauna (B13)		rainage Patterns (B10)
	Marl Deposits (B15)		loss Trim Lines (B16)
	Hydrogen Sulfide Odor (C1)		ry-Season Water Table (C2)
	Oxidized Rhizospheres on L		rayfish Burrows (C8)
	Roots (C3)		aturation Visible on Aerial Imagery
	Presence of Reduced Iron (29)
 , 1	Recent Iron Reduction in Til		tunted or Stressed Plants (D1)
	Soils (C6)		Geomorphic Position (D2)
	Thin Muck Surface (C7)		hallow Aquitard (D3)
	Other (Explain in Remarks)		AC-Neutral Test (D5)
Surface (B8)	Other (Explain in Remarks)		licrotopographic Relief (D4)
Surface (Bo)			ilciotopograpriic Keller (D4)
Field Observations:			
Surface water present? Yes No	Depth (inches)	١٠.	Indicators of
Water table present? Yes No			wetland
Saturation present? Yes No			hydrology
(includes capillary fringe)	Beptil (illelies)	/·	present? N
(includes capillary filinge)			present: N
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
December received data (circum gauge, membering well, definal protect, provided inspections), in available.			
Remarks:			
Tomano.			

SOIL WA017b6U **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* 2 10 YR 3/2 100 Loamy sand 16 10 YR 3/3 100 Sand 20 10 YR 4/3 100 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) 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? N Depth (inches): Remarks: