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: WA017b4U
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 type	ical for this time of the year		, explain in remarks)
Are vegetation , soil , or hydromatical , soil ,		ly disturbed?	Are "normal
Are vegetation , soil , or hydronic , or hydronic , soil , soil , or hydronic , soil ,		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 procedit.	ii yoo, optional	- Wolland Site 15.	
Remarks: (Explain alternative procedures here of	or in a separate report.)		
(— ф р р			
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)
 :	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)			ilcrotopograpriic Relier (D4)
Field Observations:			
Surface water present? Yes N	o X Depth (inches)	١٠.	Indicators of
Water table present? Yes N			wetland
Saturation present? Yes N			hydrology
(includes capillary fringe)	beptil (illelies)	/·	present? N
(includes capillary filinge)			present: N
Describe recorded data (stream gauge, monitori	ing well aerial photos prev	vious inspections) i	if available:
Describe recorded data (stream gauge, mornton	ing well, aeriai priotos, pre-	vious irispections), i	ii available.
Remarks:			
Normania.			

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supporting data in Remarks or on a
supporting data in Remarks or on a
separate sheet)
Problematic hydrophytic vegetation*
(explain)
*Indicators of hydric soil and wetland hydrology must b
present, unless disturbed or problematic
processing announce dictarized or processing and
Definitions of Vegetation Strata:
Dominiono di Togoladion Guatai
Tree - Woody plants 3 in. (7.6 cm) or more in diameter
breast height (DBH), regardless of height.
-
Sapling/shrub - Woody plants less than 3 in. DBH an
greater than 3.28 ft (1 m) tall.
Herb - All herbaceous (non-woody) plants, regardless
size, and woody plants less than 3.28 ft tall.
, and nood, planto 1000 than 0.20 it tall.
Woody vines - All woody vines greater than 3.28 ft in
height.
Hydrophytic
Hydrophytic
vegetation
present? N_

SOIL WA017b4U **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* 14 10 YR 3/3 100 Sand 10 YR 4/4 20 100 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: