WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	pject/Site: Sandpiper		City/County:	Wader	a	Sampling Date:	Sampling Date: 09/13/2014		
Applicant/Owned	er: Enbridge		_	State:	MN	Sampling P	oint:	WA017b3	3U
Investigator(s): DPT					Section, Township, Range:				
Landform (hills	lope, terrace, etc.):	Rise	L	ocal relief	(concave	e, convex, none):	Conv	/ex/Conve>	x
Slope (%): 2	Lat.:	Long.:		Da	tum:				
Soil Map Unit N	lame				NW	I Classification:			
Are climatic/hy	drologic conditions o	of the site typical for this	time of the ye	ar?	(lf n	o, explain in remark	(s)		
Are vegetation	, soil	, or hydrology	significar	ntly disturb	ed?	Are "normal			
Are vegetation	, soil	, or hydrology	naturally	problemat	tic?	circumstances"	prese	ent? Y	'es
(If needed, exp	lain any answers in	remarks)							

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>N</u> N	Is the sampled area within a wetland? NN
Indicators of wetland hydrology present?	<u>N</u>	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures h	here or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two			
Primary Indicators (minimum of one is requ	required)				
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)			
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery			
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)			
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)			
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)			
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)			
Surface (B8)		Microtopographic Relief (D4)			
Field Observations:					
Surface water present? Yes	No X Depth (inches):	Indicators of			
Water table present? Yes	No X Depth (inches):	wetland			
Saturation present? Yes	No X Depth (inches):	hydrology			
(includes capillary fringe)		present? N			
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:			
Remarks:					

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50/20 ThresholdsntIndicatorsStatusFACTree StratumHerb Stratum16Herb Stratum8Woody Vine Stratum0Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:2YerPercent of DominantSpecies Across all Strata:5StatusFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUStatusFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACUFACU species0ACU species90X 3 =270FACU species90X 4 =400UPL species0X 5 =0Column totals190(A)670
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UPL species 0 x 5 = 0
Prevalence Index = $B/A = 3.53$
ver
Hydrophytic Vegetation Indicators:
nt Indicator Rapid test for hydrophytic vegetation
s Status Dominance test is >50%
FACU Prevalence index is ≤3.0*
FACU Morphogical adaptations* (provide
supporting data in Remarks or on a
separate sheet)
Problematic hydrophytic vegetation*
(explain)
*Indicators of hydric soil and wetland hydrology must be
present, unless disturbed or problematic
Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6 cm) or more in diameter
breast height (DBH), regardless of height.
— — — <u>,</u>
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
greater than 3.28 ft (1 m) tail.
Herb - All herbaceous (non-woody) plants, regardless of
nt Indicator
S Status Woody vines - All woody vines greater than 3.28 ft in height.
— — — — — — — — — — — — — — — — — — — —
Hydrophytic
vegetation
ver present? <u>N</u>
rs

SOIL							Sa	mpling Point: WA017b3U
Profile Dese	cription: (Descri	be to th	e depth needed	to docui	ment the	indicato	r or confirm the absence	e of indicators.)
Depth	Matrix		Redox Features				Texture Remarks	
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**		
9	10 YR 3/3	100					Sand	
20	10 YR 4/4	100					Sand	
				d Matrix	x, CS=Co	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining,	M=Mat	rix					
Hydric Soi	Indicators:						Indicators for Prob	plematic Hydric Soils:
Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 144 Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, F Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Sandy Redox (S5) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, Redox Depressions (F8) Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Other or problematic					at or Peat (S3) (LRR K, L, R) S7) (LRR K, L v Surface (S8) (LRR K, L) ice (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 149B) (A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) n Remarks)			
Restrictive Type: Depth (inch	Layer (if observe es):	ed):			-		Hydric soil preser	nt? <u>N</u>
Remarks:								