WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Sandpiper		City/County:	Waden	a	Sampling Date:	09/12	2/2014	
Applicant/Own	er: Enbridge		_	State:	MN	Sampling P	oint:	WA021a3	30
Investigator(s):	DPT			Sectior	n, Townsl	hip, Range:			
Landform (hills	lope, terrace, etc.):	Rise	L	ocal relief	(concave	e, convex, none):	Conv	/ex/Convex	<
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 here or in a separate 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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	nts			Sampling Point:	WA021a3L
				50/20 Thresholds	
	Absolute	Dominant	Indicator	20	0% 50%
Tree StratumPlot Size (30 ft)	% Cover	Species	Status	Tree Stratum 1	8 45
Populus tremuloides	60	Ý	FAC	Sapling/Shrub Stratum	6 15
, Betula papyrifera	30	Y	FACU		0 50
				Woody Vine Stratum	0 0
				-	
				Dominance Test Worksheet	
				Number of Dominant	
				Species that are OBL,	
				FACW, or FAC:	<u>1</u> (A)
	<u> </u>			Total Number of Dominant	
	·			Species Across all Strata:	5(B)
	90	Total Cover		Percent of Dominant	
				Species that are OBL,	
Plot Size (15 ft)	Absolute	Dominant	Indicator	FACW, or FAC: 20	<u>0.00%</u> (A/B
Stratum	% Cover	Species	Status		
Corylus cornuta	30	Y	FACU	Prevalence Index Worksheet	
	-			Total % Cover of:	
		·		OBL species $0 \times 1 =$	0
				FACW species $0 \times 1 =$	0
				FAC species $60 \times 3 =$	180
	·			FACU species $100 \times 4 =$	400
	·			UPL species $60 \times 5 =$	300
				Column totals 220 (A)	880 (B)
					4.00
	- <u> </u>				
	30 :	Total Cover			
				Hydrophytic Vegetation Indica	ators:
Lash Otrastum $Dist Oirs (Cft)$	Absolute	Dominant	Indicator	Rapid test for hydrophytic ve	
Herb StratumPlot Size (5 ft)	% Cover	Species	Status	Dominance test is >50%	-
Carex pensylvanica	50	Ý	UPL	Prevalence index is ≤3.0*	
Pteridium aquilinum	30	Y	FACU	Morphogical adaptations* (p	rovide
Eurybia macrophylla	10	N	UPL	supporting data in Remarks	
Aralia nudicaulis	10	N	FACU	separate sheet)	
				Problematic hydrophytic veg	etation*
				(explain)	
				*Indicators of hydric soil and wetland hy	/drology must be
				present, unless disturbed or problemati	
				Definitions of Vegetation Strat	ta:
				Tree Mandu plants 2 in (7.6 am) as m	ana in diamatan
				Tree - Woody plants 3 in. (7.6 cm) or m breast height (DBH), regardless of heig	
				2.0401	
				Sapling/shrub - Woody plants less that	n 3 in. DBH and
				greater than 3.28 ft (1 m) tall.	
	100 -	Total Cover		Horb All borboooding (non-wood i) -1-	nto rogardias-
				Herb - All herbaceous (non-woody) pla size, and woody plants less than 3.28 ft	
Voody Vine Plot Size ()	Absolute	Dominant	Indicator	5/20, and woody plants 1655 than 3.20 h	cm.
	% Cover	Species	Status	Woody vines - All woody vines greater	than 3.28 ft in
Stratum				height.	
Stratum					
Stratum					
Stratum ,	·				
Stratum				Hydrophytic	
Stratum				Hydrophytic vegetation	
Stratum	0	Total Cover		vegetation	
Stratum	0	= Total Cover			
Stratum		= Total Cover		vegetation	
Stratum		- Total Cover		vegetation	
Stratum		- Total Cover		vegetation	
Stratum		Total Cover		vegetation	

SOIL							Sa	mpling Point: WA021a3U
Profile Des	cription: (Descri	be to th	e depth needed i	to docu	ment the	indicato	or or confirm the absence	e of indicators.)
Depth	Description: (Describe to the depth needed to document the Matrix Redox Features				indicate		·	
(Inches)	Color (moist)	%	Color (moist)			Loc**	Texture	Remarks
8	10 YR 2/2	100					Sandy Loam	
16	10 YR 3/2	95	10 YR 4/6	5	С	М	Sand	
20	10 YR 4/2	90	10 YR 4/6	10	С	М	Sand	
				d Matrix	x, CS=C	overed o	r Coated Sand Grains	
	PL=Pore Lining, I Indicators:	w=wa	IIX.				Indicators for Prot	blematic Hydric Soils:
	· maleuter er							
Bla Hyo Stra Dep Thi Sar Sar Sar Sar Sar 149	,	44) 5) rk Sufac (A12) ral (S1) ix (S4)) LRR R,	Ce (A11) (LR Loa Ce (A11) (LR Loa Dep Rec Dep Rec MLRA	n Dark S R R, M my Muc R K, L) my Gle bleted V lox Darl bleted D lox Dep	yed Matr latrix (F3 < Surface ark Surfa ressions	S9) B ral (F1) rix (F2) 3) e (F6) ace (F7) 5 (F8)	5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganese Piedmont Flood Mesic Spodic (Red Parent Mat	w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks)
Restrictive Type: Depth (inch	Layer (if observe les):	ed):			-		Hydric soil prese	nt? <u>N</u>
Remarks:								