WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 08-Sep-17
Applicant/Owner: Enbridge	Sta	ate: MN Sampling Point: u-51n21w22-a2
Investigator(s): DPT	Section, Township,	Range: S. 20 T. 51N R. 21W
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, co	
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.3453	Long.: -93 1.7872
Soil Map Unit Name: B268B		NWI classification: N/A
Are climatic/hydrologic conditions on the site type	oical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolo		'Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrolo		eeded, explain any answers in Remarks.)
_ , _ , ,	•	cations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No •	
Hydric Soil Present? Yes ●	No Sampled within a Wetlan	
Wetland Hydrology Present? Yes	No •	ind:
Remarks: (Explain alternative procedures here	or in a separate report.)	
Hydrology Wetland Hydrology Indicators:		Company to the state of the sta
l	sheet all that anniv	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required;		Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2)		Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)
☐ Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	
sparsely regetated conteave surface (56)		
Field Observations: Surface Water Present? Yes No	Depth (inches): 0	
Water Table Present? Saturation Present? Yes No Yes No No No Ves No No Ves No	Depth (inches): 0 Wetla Depth (inches): 0	and Hydrology Present? Yes \bigcirc No $lacktriangle$
(includes capillally fringe)		if available.
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections)	, ii avaliabie:
Remarks:		

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: u-51n21w22-a2						
(8) -1 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species			
1. Fraxinus nigra		✓	FACW	That are OBL, FACW, or FAC: (A)			
2. Ulmus americana		✓	FACW	Total Number of Dominant			
3	0			Species Across All Strata:6 (B)			
4	0						
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:33.3% (A/B)			
6				That Are OBL, FACW, or FAC: 33.3% (A/B)			
7				Prevalence Index worksheet:			
	80 = Total Cover			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es 0 x 1 = 0			
1Corylus cornuta	60	✓	FACU	FACW species 80 x 2 = 160			
2. Prunus nigra			FACU	FAC speciles 10 x 3 = 30			
3	0			FACU species $\frac{110}{10}$ x 4 = $\frac{440}{10}$			
4	0						
5	0			N D = N D			
6				Column Totals: 230 (A) 780 (B)			
7	=			Prevalence Index = B/A =3.391			
		= Total Cove	r	Hydrophytic Vegetation Indicators:			
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation			
1. Aralia nudicaulis	20	✓	FACU	Dominance Test is > 50%			
2. Eurybia macrophylia	30	✓	UPL				
3. Carex woodll	20	✓	FACU	Prevalence Index is ≤3.0 ¹			
4. Equisetum arvense			FAC	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
5				Problematic Hydrophytic Vegetation ¹ (Explain)			
6							
7				¹ Indicators of hydric soil and wetland hydrology must			
8		$\overline{\Box}$		be present, unless disturbed or problematic.			
				Definitions of Vegetation Strata:			
9				_			
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
1				at bleast height (DBH), regardless of height.			
2	_		-	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall Herb - All herbaceous (non-woody) plants, regardless of			
Woody Vine Stratum (Plot size: 30	80 =	= Total Cove	er				
1	0						
2	0	$\overline{\Box}$		size, and woody plants less than 3.28 ft tall.			
3		\Box					
		\Box	-	Woody vine - All woody vines greater than 3.28 ft in height.			
4		- Total Covo		neight.			
	=	= Total Cove	Г				
				Hydrophytic			
				Vegetation			
				Present? Yes ○ No ●			
Remarks: (Include photo numbers here or on a separate s	sheet.)						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n21w22-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth					Redox Features							
(inches)	Color (%	Color (moist)	%	Type ¹	Loc ²	Texture	Rer	marks	
0-9	10YR	2/2	100						Loam			
9-20	10YR	4/1	90	10YR	4/6	10	C	M	Silt Loam			
		-	_	-	-				-			
-		-		-	-							
				-								
		-	-			-	-					
										-		
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix												
Hydric Soil I									Indicators for Prob	lematic Hydr	ic Soils: ³	
Histosol (•				value Belo A 149B)	w Surface	(S8) (LRR	R,	2 cm Muck (A10)	(LRR K, L, ML	RA 149B)	
	pedon (A2)			_	•	ace (S9) ((LRR R, ML	RA 149B)	Coast Prairie Rec	lox (A16) (LRR	K, L, R)	
Black Hist							1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4) Layers (A5)					Matrix (F2		,	Dark Surface (S7) (LRR K, L, M)			
	Below Dark S	Surface (A	11)		eted Matri				Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A1		.11)			ırface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)			
				☐ Dep	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8)						Piedmont Floodplain Soils (F19) (MLRA 1498)					
Sandy Red									Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Stripped Matrix (S6)							☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (TF12)				
Dark Surface (S7) (LRR R, MLRA 149B)							Other (Explain in Remarks)					
³ Indicators of	hydrophytic	vegetatio	n and wett	and hydrology	must ha i	nrasant III	nlace dietur	had or proble		Kemarks)		
			ii ana wetic	ina myarologi	must be	present, ui	ilicaa diatui	bed of proble	critatic.			
Restrictive La	ayer (IT obs	ervea):										
Type:									Hydric Soil Present?	Yes	No O	
Depth (inch	nes):								•			
Remarks:												