WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 07-Sep-17
Applicant/Owner: Enbridge		State: MI	Sampling Point: u-51n22w19-a3
Investigator(s): PJK		Section, Township, Range:	S. 19 T. 51N R. 22W
Landform (hillslope, terrace, etc.): Mou	ınd	Local relief (concave, convex,	
Subregion (LRR or MLRA): LRR K	Lat.: 4	46 53.1052 Lon	g.: -93 10.3532
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on the	site typical for this time of ve	ar? Yes • No •	(If no, explain in Remarks.)
			I Circumstances" present? Yes No
	Hydrology naturally pr		i di cumptances present.
_ , _ ,		,	explain any answers in Remarks.) 1s, transects, important features, etc
	es O No O	A	10) ti uniscetti, importanza accinata, acci
7 7	es O No •	Is the Sampled Area	Yes ○ No ●
,	es O No •	within a Wetland?	tes Unit U
Remarks: (Explain alternative procedu			
Hydrology Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one re	quired: check all that apply)		Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leav	res (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13	, ,	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide O	dor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		res along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduce		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Iron Deposits (B5)		ion in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7	Thin Muck Surface	• •	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8	Utilei (Explain in Re	emarks)	FAC-neutral Test (D5)
Field Observations:			
	No Depth (inches):	0	
	No Depth (inches):		
	Depth (inches):	Wetland Hyd	rology Present? Yes O No 🖲
Describe Recorded Data (stream gauge,	, monitoring well, aerial photos	s, previous inspections), if ava	ilable:
Remarks:			

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pi	Sampling Point: u-51n22w19-a3			
(0)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:1 (A)
2	0			Total Number of Danis, and
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4				
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
1				
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of: Multiply by:
1 Corylus cornuta	10	✓	FACU	0BL speci es x 1 = 0
2				FACW species <u>40</u> x 2 = <u>80</u>
				FAC speciles x 3 =0
3				FACU species
4				UPL speci es $0 \times 5 = 0$
5				· '
6	0			Col umn Total s:100 (A)320 (B)
7	0			Prevalence Index = B/A = 3.200
(Plot size: 5	10 =	= Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation
1. Pteridium aquilinum	40	✓	FACU	Dominance Test is > 50%
2. Solidago gigantea	40	✓	FACW	
3. Cirsium arvense	10		FACU	Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strate.
9	0			Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2				Continue to Management I and the Continue to BRIT and
	_	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)				greater than 3.20 ft (fiff) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3				NA and a single All according to a greater than 2.20 ft in
4	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		- Total Cava		Thoight.
	=	= Total Cove	г	
				Hydrophytic Vegetation
				Present? Yes No •
Demonstra (Taralada albata anastra la construir la constr	h			1
Remarks: (Include photo numbers here or on a separate si	neet.)			

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

Soil Sampling Point: u-51n22w19-a3

	ription: (Des		the depth				nfirm the a	absence of indicators.)	
Depth (inches)	0-1	Matrix			lox Featu		1 2		Barranta
	Color (Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-3	10YR	2/1	100					Silt Loam	
3-6	10YR	3/2	100					Silt Loam	
6-20	10YR	4/2	100					Silt Loam	
		-						-	
					-			-	
		-					-		
						-			
		-		-					
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	d or Coate	d Sand Gra	ins ² Loca	ntion: PL=Pore Lining. M=M	atrix
Hydric Soil	Indicators:							Indicators for Droble	ematic Hydric Soils: 3
Histosol (Polyvalue Belov	v Surface (S8) (LRR R			
	pedon (A2)			MLRA 149B)	•				(LRR K, L, MLRA 149B)
Black His				Thin Dark Surfa	ice (S9) (L	RR R, MLR	A 149B)		ox (A16) (LRR K, L, R)
	n Sulfide (A4)			Loamy Mucky N	/lineral (F1)	LRR K, L)			or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleyed	Matrix (F2)			Dark Surface (S7)	
	Below Dark S	Surface (A	.11)	Depleted Matrix	(F3)				urface (S8) (LRR K, L)
	rk Surface (A1		,	Redox Dark Su	face (F6)			Thin Dark Surface	
	uck Mineral (S			Depleted Dark	Surface (F7)			Masses (F12) (LRR K, L, R)
	eyed Matrix (S			Redox Depress	ions (F8)				in Soils (F19) (MLRA 149B)
Sandy Re		,) (MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Materia Very Shallow Dark	
	face (S7) (LRF	R R, MLRA	A 149B)					Other (Explain in F	
									Kemarks)
			in and wella	nd hydrology must be p	resent, uni	ess disturbe	ed or proble	етанс.	
Restrictive L	ayer (if obs	erved):							
Type:								Hydric Soil Present?	Yes ○ No •
Depth (inc	:hes):							Hydric Soil Present?	Yes ∪ No ♥
Remarks:									