WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	Ci	ity/County: Aitkin		Sampling Date: 2016-08-16		
Applicant/Owner: Enbridge			State: Minnesota	Samplir	ng Point: w-50n26w7-b1	
Investigator(s): ZCW, MGH		Section, Township	p, Range: <u>S7, T50N, R26</u>	W		
Landform (hillslope, terrace, etc.): Depres	ssion		Local Relief (concave, co	onvex, none): CC	Slope (%): 0-2%	
Subregion (LRR or MLRA):		Latitude: 46	i.8285898771 Lor	ngitude: -93.68123631	Datum: NAD83	
Soil Map Unit Name: 204B				NWI Cla	ssification: N/A	
Are climatic/hydrologic conditions on the	site typic	al for this time of year	? (if no, explain in Remai		No	
		,		•		
Are Vegetation No , Soil No , or Hyd	irology No	significantly disturb	oed? Are "Normal Circur	mstances" present? Yes		
Are Vegetation No_, Soil No_, or Hydro	ology No	naturally problemation	? (If needed, explain a	ny answers in Remarks)		
		•				
SUMMARY OF FINDINGS - Attach site	map show	ving sampling point lo	cations, transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?		Yes	Is the Sampled Area			
Hydric Soil Present?		Yes	within a Wetland?		<u>Yes</u>	
Wetland Hydrology Present?		<u>Yes</u>	If yes, optional Wetland	d Site ID:	<u>w-50n26w7-b</u>	
Remarks: (Explain alternative procedures	s here or i	n a separate report.)	-			
Climatic conditions are "wet" based on t	he results:	of a WETS analysis.				
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is re	<u>quirea; cri</u>		o (BO)		l Cracks (B6)	
Surface Water (A1) Water-Stained Leave		5 (89)	Drainage Patterns (B10)			
High Water Table (A2) Saturation (A3)	<u> </u>			Moss Trim Lines (B16) Dry-Season Water Table (C2)		
<u> </u>	Marl Deposits (B15) Hydrogen Sulfide Od		or (C1)			
Sediment Deposits (B2)	Water Marks (B1) Hydrogen Sulfide Odd Sediment Denosits (B2) Ovidized Rhizosphere		es on Living Roots (C3)			
Drift Deposits (B3)						
Algal Mat or Crust (B4)						
Iron Deposits (B5)						
Inundation Visible on Aerial Imagery (B7)	 -		· — · · · · ·			
Sparsely Vegetated Concave Surface (B8)	_		•	yes FAC-Neutral		
Field Observations:						
Surface Water Present?	No	Depth (inches)				
Water Table Present?	No_	Depth (inches)				
Saturation Present?	No	Depth (inches)		Wetland Hydrology Pr	esent? Yes	
(includes capillary fringe)		• •				
Describe Recorded Data (stream gauge, r	monitorin _ξ	g well, aerial photos, pr	revious inspections), if a	vailable:		
Remarks:						
inemarks.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Fraxinus nigra	35.00	Yes	FACW	That Are OBL, FACW, or FAC: 3(A)
2				Total Number of Dominant
3.				Species Across All Strata: 3 (B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100 (A/B)
6.		-		Prevalence Index worksheet:
				Total % Cover of: Multiply by:
7	35	= Total Cover		
6 1: (6) 1 6: 1 (9) 6: 15	33	= Total Cover		
Sapling/Shrub Stratum (Plot Size: 15	35.00	Vos	FAC)A/	FACW species 100.00 x 2 200
1. Fraxinus nigra	25.00	Yes	FACW	FACU species 0.00 x 3 0
2			.	UPL species <u>0.00</u> x 4 <u>0</u>
3	-			Column Totals <u>140</u> (A) <u>240</u> (B)
4				Prevalence Index = B/A = 1.7142857
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				yes 2 - Dominance Test is > 50%
	25	= Total Cover		yes 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations 1 (Provide
1. Calamagrostis canadensis	40.00	Yes	FACW	supporting data in Remarks or on a separate sheet)
2. Carex lacustris	40.00	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3.				1
4.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	-			Definitions of Vegetation Strata:
		-	-	Definitions of Vegetation Strata.
6		-	_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
7			_	height (DBH), regardless of height.
8	-			-
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		_	_	of equal to 3.20 ft (1 fif) tail.
11.				Herb - All herbaeceous (non-woody) plants, regardless of size, and
12.			-	woody plants less than 3.28 ft tall.
	80	= Total Cover	_	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30	-			
1.				
		-	-	- Hydrophytic
2				Vegetation
3		-	_	Present? Yes
4				
	0	_=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	:.)			

Sampling Point: w-50n26w... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Loc² (inches) Color (moist) % Color (moist) % Type¹ Texture Remarks 10YR 4 2 446 95 С 0-12 M FSL 10YR 5 2 10YR 5 6 90 12-24 10 С М LS ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Maganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (explain in remarks) Restrictive Layer (if observed): Hydric Soil Present? Yes Depth (inches):

Remarks:

Site Photograph 1

Latitude: 46.8286573095683

Longitude: -93.6811501533665

Circular 39: 1

Eggers & Reed: Seasonally Flooded Basin

Remarks:

Site Photograph 2 Sampling Point: w-50n26w7-b1



Latitude:	46.8286575191159	Cowardin Classification: PFO
Longitude:	-93.6811498180904	Circular 39: 1
Direction: East	<u>t</u>	Eggers & Reed: Seasonally Flooded Basin
Remarks:		