WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Ait	City/County: Aitkin		Sampling Date: 2016-08-09	
Applicant/Owner: Enbridge		State: Minnesota	Samplin	g Point: <u>u-50n26w6-a3</u>	
Investigator(s): ZCW, MGH	Section, T	ownship, Range: S, T50N, R	k26W		
Landform (hillslope, terrace, etc.): Ris	se	Local Relief (concav	ve, convex, none): VL	Slope (%): <u>3-7%</u>	
Subregion (LRR or MLRA):	Latit	ude: 46.8537021009	Longitude: -93.67805840	Datum: NAD83	
Soil Map Unit Name: 504B			NWI Clas	ssification: N/A	
Are climatic/hydrologic conditions or	Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks):				
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Are Vegetation No_, Soil No, or	Hydrology No Significantly	disturbed? Are Normai Ci	rcumstances present? 1es_		
Are Vegetation No_, Soil No_, or H	ydrology No naturally prob	olematic? (If needed, expla	in any answers in Remarks)		
SUMMARY OF FINDINGS - Attach	site man showing sampling	noint locations, transacts, i	mnortant features, etc		
Hydrophytic Vegetation Present?	No	Is the Sampled Are			
Hydric Soil Present?	No No	within a Wetland?	•	No	
Wetland Hydrology Present?	No	If yes, optional Wet	tland Site ID:	<u></u>	
Remarks: (Explain alternative proced					
Climatic conditions are "wet" based	•				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)	
Primary Indicators (minimum of one	is required; check all that app	ply)	Surface Soil	Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fau	na (B13)	Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposi	its (B15)	Dry-Season	Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Si	ulfide Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rh	izospheres on Living Roots (C3)	Saturation V	isible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of	Reduced Iron (C4)	Stunted/Stre	ssed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled Soils (C6)	Geomorphic	Position (D2)	
Iron Deposits (B5)	Thin Muck S	Surface (C7)	Shallow Aqu	itard (D3)	
Inundation Visible on Aerial Imagery	(B7) Other (Expla	ain in Remarks)	Microtopogr	aphic Relief (D4)	
Sparsely Vegetated Concave Surface	(B8)		FAC-Neutral	Test (D5)	
Field Observations:					
Surface Water Present?		(inches)			
Water Table Present?	•	(inches)			
Saturation Present?	No Depth ((inches)	Wetland Hydrology Pro	esent? <u>No</u>	
(includes capillary fringe)					
Describe Recorded Data (stream gau	ge, monitoring well, aerial ph	notos, previous inspections),	, if available:		
Remarks:					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Quercus rubra	30.00	Yes	FACU	That Are OBL, FACW, or FAC: 1 (A)
2. Populus tremuloides	25.00	Yes	FAC	Total Number of Dominant
3		_		Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 25 (A/B)
6.		- '		Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
	55	= Total Cover	_	OBL species 0.00 x 1 0
				FACW species 0.00 x 2 0
1. Corylus cornuta	35.00	Yes	UPL	FACU species 110.00 x 3 440
2. Populus tremuloides	10.00	No	FAC	UPL species 35.00 x 4 175
3. Quercus rubra	10.00	No No	FACU	
	10.00	- 110	- 17.00	Column Totals $\frac{180}{}$ (A) $\frac{720}{}$ (B) Prevalence Index = B/A = 4
4				
5		_		Hydrophytic Vegetation Indicators:
6		_	-	1 - Rapid Test for Hydrophytic Vegetation
7		_		no 2 - Dominance Test is > 50%
	55	_ = Total Cover		no 3 - Prevalence Index is ≤ 3.0 ¹
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations (Provide
1. Eurybia macrophylla	45.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Cornus canadensis	10.00	No No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Pteridium aquilinum	10.00	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless
4. Vaccinium angustifolium	5.00	No	FACU	disturbed or problematic.
5		_		Definitions of Vegetation Strata:
6				_
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8				height (DBH), regardless of height.
9.				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
				or equal to 3.28 ft (1 m) tall.
10.		_		Herb - All herbaeceous (non-woody) plants, regardless of size, and
11.		_		woody plants less than 3.28 ft tall.
12		-	- -	1
	70	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30)				
1		-	_	-
2			_	Hydrophytic
3				Vegetation Present? No
4				_
	0	_=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	.)			•
	•			

Sampling Point: u-50n26w... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Type¹ Loc² (inches) Color (moist) % Color (moist) % Texture Remarks 10YR 3 2 0-7 100 FSL 10YR 5 2 7-24 100 LFS 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? No Depth (inches): Remarks:

Site Photograph 1 Sampling Point: u-50n26w6-a3



Site Photograph 2 Sampling Point: u-50n26w6-a3



Latitude:	46.8537046993588	Cowardin Classification:		
Longitude:	-93.6781505216785	Circular 39:		
Direction: Nor	thwest	Eggers & Reed:		
Remarks:				
Upland				