WETLA	ND DETERMINATION DA	TA FORM - North Central	and Northeast Region		
Project/Site: SPP	City/County: <u>Aitkin</u>			Sampling Date: 2016-08-11	
Applicant/Owner: Enbridge		State: Minnesota	Sampling	gPoint: u-50n26w6-g1	
Investigator(s): ZCW, MGH	Section, Tow	nship, Range: <u>S6, T50N, R26</u>	W		
Landform (hillslope, terrace, etc.): Rise		Local Relief (concave, co	onvex, none): CC	Slope (%): 0-2%	
Subregion (LRR or MLRA):	Latitude	e: 46.8483196199 Lor	ngitude: -93.68269636	Datum: NAD83	
Soil Map Unit Name: 292			NWI Class	sification: N/A	
Are climatic/hydrologic conditions on the	site typical for this time of		No		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd	drology <u>No</u> significantly di	sturbed? Are "Normal Circur	nstances" present? Yes		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydro	ology <u>No</u> naturally probler	natic? (If needed, explain a	ny answers in Remarks)		
SUMMARY OF FINDINGS - Attach site	map showing sampling poi	nt locations, transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?	No	Is the Sampled Area			
Hydric Soil Present?	No	within a Wetland?	within a Wetland? No		
Wetland Hydrology Present?	No If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedure	s here or in a separate repo	rt.)			
Climatic conditions are "wet" based on t	the results of a WETS analys	s.			
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)	
Primary Indicators (minimum of one is re	equired; check all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	Surface Water (A1) Water-Stained Leaves (B9)		Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfid	e Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizos	Oxidized Rhizospheres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Rec	Presence of Reduced Iron (C4)		Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Red	Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surfa	ace (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain i	n Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral	est (D5)	
Field Observations:					
Surface Water Present?	No Depth (inc	hes)			
Water Table Present?	No Depth (inc	hes)			
Saturation Present?	Depth (inc	hes)	Wetland Hydrology Pre	sent? <u>No</u>	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, r	monitoring well, aerial photo	os, previous inspections), if a	vailable:		
	· · · · · ·				

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: u-50n26w...

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1. Populus tremuloides	35.00	Yes	FAC	That Are OBL, FACW, or FAC: <u>1</u> (A)	
2. Quercus rubra	30.00	Yes	FACU	Total Number of Dominant	
3				Species Across All Strata: <u>5</u> (B)	
4				Percent of Dominant Species	
5.				That Are OBL, FACW, or FAC: 20 (A/B)	
6.				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	65	= Total Cover		OBL species 0.00 x 1 0	
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 0.00 x 2 0	
1. Populus tremuloides	15.00	Yes	FAC	FACU species 80.00 x 3 320	
2. Acer saccharum	10.00	Yes	UPL	UPL species 10.00 x 4 50	
3.				Column Totals 140 (A) 520 (B)	
4				Prevalence Index = B/A = 3.7142857	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
				no 2 - Dominance Test is > 50%	
7	25	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^{1}$	
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations ¹ (Provide	
1 Eurybia macrophylla	35.00	Yes	FACU	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
2. Aralia nudicaulis	15.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
	15.00		1400		
3				¹ Indicators of hydric soil and wetland hydrology must be present, unless	
4				disturbed or problematic.	
5				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					
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
12					
	50	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size: <u>30</u>)					
1					
2.				Hydrophytic	
3.				Vegetation Present? <u>No</u>	
4.					
· · · · · · · · · · · · · · · · · · ·	0	=Total Cover		1	
Remarks: (include photo numbers here or on a separate sheet					
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SOIL

-	tion: (Describe to the	depth nee				nfirm th	e absence of ind	licators.)	
Depth	Matrix			Feature		n			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 3 3	100				·	L		
6-24	10YR 5 2	95	10YR 5 8	_ 5	<u>C</u>	M	<u>L</u>		
				_					
					_				
						·			
						·			
¹ Type: C=Concen	tration, D=Depletion, RM	 =Reduced Ma	atrix. MS=Masked Sand G	 ains.				² Location: PL=Pore Lining, M=Matrix	
Hydric Soil Indica							Indicators for I	Problematic Hydric Soil ³ :	
			Polyvalue Below	Surface (58) (LRR R	, MLRA	_	ck (A10) (LRR K, L, MLRA 149B)	
Histosol (A			└ . 149B)						
Histic Epipe			Thin Dark Surfac					irie Redox (A16)(LRR K, L, R)	
Black Histic			Loamy Mucky M) (LRR K, L))	_	cky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen S	Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Dark Surf	ace (S7) (LRR K, M)	
Stratified L	ayers (A5)		Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) (LRR K, L)	
Depleted B	elow Dark Surface (A11)		Redox Dark Surface (F6)				Thin Dark Surface (S9) (LRR K, L)		
Thick Dark	Surface (A12)		Depleted Dark Su	urface (F7)		Iron-Mag	anese Masses (F12) (LRR K, L, R)	
Sandy Muc	ky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)	
Sandy Gley	ed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)	
Sandy Redo	ox (S5)						Red Pare	nt Material (F21)	
Stripped M	atrix (S6)						Very Shal	low Dark Surface (TF12)	
Dark Surfac	ce (S7) (LRR R, MLRA 149 E	3)					Other (ex	plain in remarks)	
Restrictive Layer	(if observed):	Γ							
Туре:								No	
Depth (i	nches):					ł	Hydric Soil Present?		
Remarks:									

Site Photograph 1

Sampling Point: u-50n26w6-g1



Latitude: 46.8483421253477

Longitude: -93.6825914216169

Direction: North

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed:

Site Photograph 2



Latitude: 46.8483423348953

Longitude: -93.682591589255

Direction: East

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed: