WETLAN	ND DETERMINATION	DATA FORM - North Central	and Northeast Region				
Project/Site: SPP	City/County: Ait	kin	Sampling Date: 2016-08-24				
Applicant/Owner: Enbridge		State: Minnesota Sampling Point: u-50n26w17-ah1					
Investigator(s): ZCW, MGH	Section, 1	Section, Township, Range: S17, T50N, R26W					
Landform (hillslope, terrace, etc.): Should	er	Local Relief (concave, co	onvex, none): <u>VL</u> Slope (%): <u>3-7%</u>				
Subregion (LRR or MLRA):	Latit	ude: 46.8157014856 Lor	ngitude: <u>-93.67607130</u> Datum: <u>NAD83</u>				
Soil Map Unit Name: 204B			NWI Classification: N/A				
Are climatic/hydrologic conditions on the	site typical for this time	of year? (if no, explain in Remai	rks): <u>No</u>				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd	rology <u>No</u> significantly	v disturbed? Are "Normal Circur	nstances" present? Yes				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydro	logy <u>No</u> naturally pro	plematic? (If needed, explain an	ny answers in Remarks)				
SUMMARY OF FINDINGS - Attach site	map showing sampling	point locations, transects, impo	rtant features, etc.				
Hydrophytic Vegetation Present?	No	Is the Sampled Area					
Hydric Soil Present?	No	within a Wetland?	No				
Wetland Hydrology Present?	No	If yes, optional Wetland	Site ID:				
Remarks: (Explain alternative procedures	here or in a separate re	eport.)					
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two req	uired)			
Primary Indicators (minimum of one is rec	quired; check all that ap	ply)	Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stair	ed Leaves (B9)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fau	na (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Depos		Dry-Season Water Table (C2)				
Water Marks (B1)		ulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)		izospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Presence of Reduced Iron (C4) Stunted/Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5)		Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Expl	ain in Remarks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Sparsely Vegetated Concave Surface (B8) Field Observations:							
Surface Water Present?	No Depth	(inches)					
Water Table Present?		(inches)					
Saturation Present?		(inches)	Wetland Hydrology Present? No				
(includes capillary fringe)	Depti		include try trongy reserves in the second se				
Describe Recorded Data (stream gauge, m	nonitoring well aerial n	notos, previous inspections) if a	lvailable:				
		·····, p. ·····					

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.		·		That Are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
···	0	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15)	-			FACW species 0.00 x 2 0
1				FACU species 60.00 x 3 240
				UPL species 0.00 x 4 0
2				Column Totals 70 (A) 270 (B)
3				Prevalence Index = $B/A = 3.8571428$
4				
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50% no 3 - Prevalence Index is $\leq 3.0^{1}$
	0	= Total Cover		
Herb Stratum (Plot Size: 5)	25.00	v.	54.011	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
1. Phleum pratense	35.00	Yes	FACU	
2. Trifolium repens	10.00	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Trifolium pratense	10.00	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless
4. Plantago major	10.00	No	FAC	disturbed or problematic.
5. Poa pratensis	5.00	No	FACU	_ Definitions of Vegetation Strata:
6				-
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
8				
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
10				or equal to 3.28 ft (1 m) tall.
11.				Herb - All herbaeceous (non-woody) plants, regardless of size, and
12.				woody plants less than 3.28 ft tall.
	70	= 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? NO
4				4
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate shee	t.)			

US Army Corps of Engineers

Northcentral and Northeast Region – Version 2.0

SOIL

Sampling Point:	u-50n26w
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Depth Matrix		Redox F	eatures				
(inches) Color (moist)	%	Color (moist)	% 	Type ¹	Loc ²	Texture	Remarks
¹ Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators:						Indicators for P	2Location: PL=Pore Lining, M=Mat Problematic Hydric Soil ³ :
 Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) 		Polyvalue Below S 149B) Thin Dark Surface Loamy Mucky Mir Loamy Gleyed Ma Depleted Matrix (Redox Dark Surfac Depleted Dark Surfac Redox Depression	(S9) (LRR heral (F1) trix (F2) F3) ce (F6) rface (F7)	R, MLRA (LRR K, L)		Coast Prai	ik (A10) (LRR K, L, MLRA 149B) irie Redox (A16)(LRR K, L, R) iky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, M) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) nt Material (F21) low Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Sample point taken along existing forest restriction] 			н	Other (exp	plain in remarks) <u>No</u>

Site Photograph 1



Latitude: 46.8158012303028

Longitude: -93.6761063431331

Direction: West

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed:

Site Photograph 2



Latitude: 46.8158019008551

Longitude: -93.6761072651424

Direction: North

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed: