WETLA	ND DETERMIN/	ATION DATA F	FORM - North Central	and Northeast Re	gion	
Project/Site: SPP	e: SPP City/County: <u>Aitkin</u>			Sampling Date: 2016-08-19		
Applicant/Owner: Enbridge			State: Minnesota	Sar	mpling Point: <u>w-50n26</u> v	v18-d1
Investigator(s): ZCW, MGH	Se	ection, Townshi	ip, Range: <u>S18, T50N, R26</u>	5W		_
Landform (hillslope, terrace, etc.): Depres	ssion		Local Relief (concave, co	onvex, none): <u>CC</u>	Slope (%)	: 0-2%
Subregion (LRR or MLRA):		Latitude: 46	5.8225193256 Lon	ngitude: <u>-93.684702</u> 9	99 Datum: NAD8	3
Soil Map Unit Name: 204B				NW	/I Classification: N/A	
Are climatic/hydrologic conditions on the	e site typical for the	his time of year	? (if no, explain in Remar	rks):	No	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd	drology <u>No</u> sign	ificantly disturb	ped? Are "Normal Circun	nstances" present? <u>`</u>	Yes	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydro	ology <u>No</u> natura	ally problemation	c? (If needed, explain an	וץ answers in Remar	'ks)	
SUMMARY OF FINDINGS - Attach site		mpling point lo	cations, transects, impo	rtant features, etc.		
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area			
Hydric Soil Present?	Yes		within a Wetland?		Yes	
Wetland Hydrology Present?	Yes		If yes, optional Wetland	Site ID:	w-50n26w18-d	
Remarks: (Explain alternative procedure	-					
Climatic conditions are "wet" based on t	the results of a W	/ETS analysis.				
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary In	ndicators (minimum of t	wo required)
Primary Indicators (minimum of one is re	aquired; check all	that apply)		Surfa	ce Soil Cracks (B6)	
Surface Water (A1)	<u>yes</u> Wa	ater-Stained Leave	es (B9)	Draina	age Patterns (B10)	
yes High Water Table (A2)	Ag	quatic Fauna (B13)		Moss	Trim Lines (B16)	
yes Saturation (A3)	Ma	arl Deposits (B15)		Dry-Se	Dry-Season Water Table (C2)	
Water Marks (B1)	Hy	/drogen Sulfide Od	ior (C1)	Crayfis	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Ox	didized Rhizosphere	res on Living Roots (C3)Saturation Visible on Aerial Im			ry (C9)
Drift Deposits (B3)	Pre	esence of Reduced	Iron (C4)Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)	Re <sup>,</sup>	cent Iron Reductio	on in Tilled Soils (C6)	orphic Position (D2)		
Iron Deposits (B5)	Iron Deposits (B5) Thin Muck Surface (		27)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)		her (Explain in Rer	narks)		topographic Relief (D4)	
yes Sparsely Vegetated Concave Surface (B8)				yes_FAC-Ne	eutral Test (D5)	
Field Observations:	· ·					
Surface Water Present?		Depth (inches)				
Water Table Present?		Depth (inches)				
Saturation Present?	Yes	Depth (inches)	0	Wetland Hydrolog	gy Present?	Yes
(includes capillary fringe)						
Describe Recorded Data (stream gauge, r	monitoring well, a	aerial photos, p	revious inspections), if av	vailable:		
Remarks:				<u></u>		

# **VEGETATION** - Use scientific names of plants.

Sampling Point: w-50n26w...

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species	
1. Fraxinus nigra	15.00	Yes	FACW	That Are OBL, FACW, or FAC: 2(A)	
2.				Total Number of Dominant	
3				Species Across All Strata: 2(B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100 (A/B)	
6				Prevalence Index worksheet:	
7.				Total % Cover of: Multiply by:	
	15			OBL species 0.00 x 1 0	
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 20.00 x 2 40	
1				FACU species $0.00 \times 3 = 0$	
2				UPL species 0.00 x 4 0	
3				Column Totals 20 (A) 40 (B)	
4.				Prevalence Index = $B/A = 2$	
				Hydrophytic Vegetation Indicators:	
5					
6				1 - Rapid Test for Hydrophytic Vegetation	
7				<u>yes</u> 2 - Dominance Test is > 50%	
<del>.</del>	0	= Total Cover		<u>yes</u> 3 - Prevalence Index is $\leq 3.0^1$	
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
1. Calamagrostis canadensis	5.00	Yes	FACW		
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless	
4				disturbed or problematic.	
5				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 woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.	
12			·		
12.	5	- Total Cover			
WenderVine Stratum (Dist Size 30	<u> </u>			woody vines - Air woody vines greater than 5.20 it in height.	
Woody Vine Stratum (Plot Size: 30 )					
1				Hudronhutic	
2				Hydrophytic Vegetation	
3				Present? Yes	
4					
	0	=Total Cover			
Remarks: (include photo numbers here or on a separate sheet.	.)				
		4			

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## SOIL

-	tion: (Describe to the Matrix	depth neede		e indicat Features		nfirm th	e absence of indic	ators.)	
Depth (inches)	Color (moist)	%	Color (moist)	reatures	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
(incries) 0-10	10YR 4 2	» 90	4 4 6	<sup>70</sup> 10	C	M	LS	Netital KS	
			-						
					<u> </u>				
					·				
<sup>1</sup> Type: C=Concent	ration, D=Depletion, RM:	Reduced Matrix	MS=Masked Sand Gr	ains.	<u> </u>			<sup>2</sup> Location: PL=Pore Lining, M=Matrix	
Hydric Soil Indica	tors:						Indicators for Pro	blematic Hydric Soil <sup>3</sup> :	
Histosol (A1	L)	[	Polyvalue Below 149B)	Surface (S	58) (LRR R	, MLRA	2 cm Muck (	(A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Epipe	don (A2)	[	Thin Dark Surface	e (S9) <b>(LRF</b>	R R, MLRA	149B)	Coast Prairie	e Redox (A16)( <b>LRR K, L, R</b> )	
Black Histic	(A3)	[	Loamy Mucky M	ineral (F1)	(LRR K, L	)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)	
Hydrogen S	ulfide (A4)	[	Loamy Gleyed Matrix (F2)				Dark Surface (S7) (LRR K, M)		
Stratified La	ayers (A5)	[	Depleted Matrix (F3)				Polyvalue Below Surface (S8) (LRR K, L)		
Depleted Be	elow Dark Surface (A11)	[	Redox Dark Surface (F6)				Thin Dark Surface (S9) ( <b>LRR K, L</b> )		
Thick Dark S	Surface (A12)	[	Depleted Dark Surface (F7)				Iron-Maganese Masses (F12) (LRR K, L, R)		
-	(y Mineral (S1)	[	Redox Depressio				Piedmont Flo	podplain Soils (F19) <b>(MLRA 149B)</b>	
-	ed Matrix (S4)						Mesic Spodio	c (TA6) <b>(MLRA 144A, 145, 149B)</b>	
Sandy Redo								Material (F21)	
Stripped Ma							_	v Dark Surface (TF12)	
Dark Surfac	e (S7) <b>(LRR R, MLRA 149</b>	-					Other (expla	ain in remarks)	
Restrictive Layer (	if observed):	✓							
Type: Rock						ŀ	lydric Soil Present? Y	es	
	nches): <u>10</u>						· · · ·		
Remarks:									
I									

# Site Photograph 1

# Sampling Point: w-50n26w18-d1



Latitude: 46.8226051144738

Longitude: -93.6848654319473

Circular 39: 1

Cowardin Classification: PFO

Remarks:

Direction: South

Eggers & Reed: Seasonally Flooded Basin

# Site Photograph 2

Sampling Point: w-50n26w18-d1



Latitude: 46.8226049468357

Longitude: -93.6848653481283

Cowardin Classification: PFO

Circular 39: 1

Remarks:

Direction: East

Eggers & Reed: Seasonally Flooded Basin