WETLA	ND DETEF	RMINATION DATA F	ORM - North Cei	ntral an	d Northeast Region	ı		
Project/Site: SPP		City/County: <u>Aitkin</u>			Sampling Date: 2016-08-25			
Applicant/Owner: Enbridge		State: Minnesota			Sampling Point: AI059a4U			
Investigator(s): ZCW, MGH		Section, Township	o, Range: S35, T50		/	· <u> </u>		
Landform (hillslope, terrace, etc.): Should	er	Local Relief (concave, convex, none): VL Slope (%): 3-7%						
Subregion (LRR or MLRA):		Latitude: 46	Datum: NA	D83				
Soil Map Unit Name: 628				Ū	NWI Cla	- assification: N/A		
Are climatic/hydrologic conditions on the	site typica	al for this time of year	? (if no, explain in F	Remarks)		No		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd						-		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydro	logy <u>No</u>	naturally problematic	? (If needed, expl	lain any a	answers in Remarks)			
SUMMARY OF FINDINGS - Attach site	map show	ing sampling point lo	cations, transects,	, importa	ant features, etc.			
Hydrophytic Vegetation Present?		No	Is the Sampled Ar	rea				
Hydric Soil Present?		No	within a Wetland? No					
Wetland Hydrology Present?		No	If yes, optional We	etland Si	te ID:			
Remarks: (Explain alternative procedure	s here or ir	i a separate report.)						
Climatic conditions are "wet" based on t	he results	of a WETS analysis.						
HYDROLOGY								
Wetland Hydrology Indicators:					Secondary Indica	ators (minimum o	of two required)	
Primary Indicators (minimum of one is re	quired; ch	eck all that apply)			Surface So	oil Cracks (B6)		
Surface Water (A1) Water-Stained Leaves (B9)						Patterns (B10)		
High Water Table (A2)	High Water Table (A2) Aquatic Fauna (B13)				Moss Trim Lines (B16)			
Saturation (A3)	ion (A3) Marl Deposits (B15)				Dry-Seaso	n Water Table (C2)		
Water Marks (B1)	_	Hydrogen Sulfide Odor (C1)			Crayfish Burrows (C8)			
Sediment Deposits (B2)	_	Oxidized Rhizosphere	es 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) Thin Muck Surface (C7)					Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)					Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observations:								
Surface Water Present?	No	Depth (inches)						
Water Table Present?	No	Depth (inches)						
Saturation Present?	No	Depth (inches)		· ·	Wetland Hydrology P	resent?	No	

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: AI059a4U

		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: 2 (B)
					Percent of Dominant Species
					That Are OBL, FACW, or FAC: 0 (A/B)
					Prevalence Index worksheet:
7.					Total % Cover of: Multiply by:
···		0	= Total Cover		$\begin{array}{c} \hline \hline \\ $
Sapling/Shrub Stratum	(Plot Size: 15)	-			FACW species 15.00 x 2 30
					FACU species 85.00 x 3 340
					$\frac{1}{1} \frac{1}{1} \frac{1}$
					Column Totals <u>100</u> (A) <u>370</u> (B) Prevalence Index = B/A = 3.7
					-
					Hydrophytic Vegetation Indicators:
					1 - Rapid Test for Hydrophytic Vegetation
7					no 2 - Dominance Test is > 50%
		0	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size	<u>; 5</u>)				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Poa pratensis		65.00	Yes	FACU	-
2. Lotus corniculatus		20.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Phalaris arundinacea	1	15.00	No	FACW	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
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.
					Herb - All herbaeceous (non-woody) plants, regardless of size, and
					woody plants less than 3.28 ft tall.
12					
		100	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (F	Plot Size: 30)				
1					-
2					Hydrophytic Vegetation
3					Present? No
4					
		0	=Total Cover		
Remarks: (include phot	to numbers here or on a separa	te sheet.)			
		·			

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Northcentral and Northeast Region – Version 2.0

SOIL

Sampling Point: AI059a4U

Depth	Matrix	Redox F	eatures						
(inches) Color	(moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
			·						
			·						
	pletion, RM=Reduced M	d Matrix, MS=Masked Sand Grains.				² Location: PL=Pore Lining, M=Matr Indicators for Problematic Hydric Soil ³ :			
Hydric Soil Indicators:		Polyvalue Below S	Surface (S8) (LRR R,	MLRA	_	roblematic Hydric Soll*: k (A10) (LRR K, L, MLRA 149B)		
Histic Epipedon (A2)		Thin Dark Surface	(S9) (LRR	R, MLRA	149B)	🗌 Coast Prai	irie Redox (A16)(LRR K, L, R)		
Black Histic (A3)		Loamy Mucky Mir	neral (F1) (LRR K, L)			ky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2) Depleted Matrix (F3)				 Dark Surface (S7) (LRR K, M) Polyvalue Below Surface (S8) (LRR K, L) 			
Stratified Layers (A5)									
Depleted Below Dark Sur	face (A11)	Redox Dark Surfac	ce (F6)			Thin Dark S	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	1)	Redox Depression	ıs (F8)			Piedmont I	Floodplain Soils (F19) (MLRA 149B)		
Sandy Gleyed Matrix (S4))					Mesic Spoo	dic (TA6) (MLRA 144A, 145, 149B)		
Sandy Redox (S5)						Red Paren	nt Material (F21)		
Stripped Matrix (S6)						Very Shall	ow Dark Surface (TF12)		
Dark Surface (S7) (LRR R,	, MLRA 149B)					Other (exp	plain in remarks)		
Restrictive Layer (if observed):									
Туре:					н	lydric Soil Present?	No		
Depth (inches):									
Remarks:				I					
Sample point taken on road sh	oulder. No soil nit								

Site Photograph 1



Latitude: 46.7708523525361

Longitude: -93.6128623691328

Direction: North

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed:

Site Photograph 2



Latitude: 46.7708646320242

Longitude: -93.6129008420684

Direction: South

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed: