		ON DATA FORM - North Centra	-					
Project/Site: SPP	City/County:	Aitkin	Samplii	ng Date: 2016-08-17				
Applicant/Owner: Enbridge		State: Minnesota	Samplir	ng Point: <u>u-50n26w7-r1</u>				
Investigator(s): ZCW, MGH	Sectio	Section, Township, Range: S7, T50N, R26W						
Landform (hillslope, terrace, etc.): <u>Rise</u>		Local Relief (concave,	, convex, none): <u>VV</u>	Slope (%): <u>3-7%</u>				
Subregion (LRR or MLRA):	l	Latitude: 46.8379686400	Longitude: -93.67896448	Datum: NAD83				
Soil Map Unit Name: 204B			NWI Cla	ssification: N/A				
Are climatic/hydrologic conditions on the	site typical for this t	ime of year? (if no, explain in Rem		No				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydr	rology <u>No</u> significa	antly disturbed? Are "Normal Circ	cumstances" present? Yes					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrol	ogy <u>No</u> naturally	problematic? (If needed, explain	n any answers in Remarks)					
SUMMARY OF FINDINGS - Attach site n	map showing sampl	ing point locations, transects, im	portant features, etc.					
Hydrophytic Vegetation Present?	No	Is the Sampled Area						
Hydric Soil Present?	No	within a Wetland?						
Wetland Hydrology Present?	No	If yes, optional Wetla	and Site ID:					
Remarks: (Explain alternative procedures	here or in a separat	te report.)						
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is req	uired; check all that	<u>t apply)</u>	Surface So	il Cracks (B6)				
Surface Water (A1)	Water-	Stained Leaves (B9)	ves (B9) Drainage Patterns (B10)					
High Water Table (A2)	Aquatio	c Fauna (B13)	L3) Moss Trim Lines (B16)					
Saturation (A3)	Saturation (A3) Marl Deposits (B15)			Water Table (C2)				
Water Marks (B1)	Hydrog	gen Sulfide Odor (C1)						
Sediment Deposits (B2)	Oxidize	ed Rhizospheres on Living Roots (C3)	Saturation \	/isible on Aerial Imagery (C9)				
Drift Deposits (B3)	Drift Deposits (B3) Presence of Reduc		Stunted/Str	essed Plants (D1)				
Algal Mat or Crust (B4)	Recent	Iron Reduction in Tilled Soils (C6)	Geomorphic	c Position (D2)				
Iron Deposits (B5)	Thin M	uck Surface (C7)	Shallow Aqu	uitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopog	raphic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)			FAC-Neutra	l Test (D5)				
Field Observations:		pth (inches)						
Surface Water Present?								
	No Dep	pth (inches)						
Surface Water Present? Water Table Present? Saturation Present?	No Dep		Wetland Hydrology Pr	resent? <u>No</u>				
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	No Dep	pth (inches) pth (inches)		resent? <u>No</u>				
Surface Water Present? Water Table Present? Saturation Present?	No Dep	pth (inches) pth (inches)		resent? <u>No</u>				

VEGETATION - Use scientific names of plants.

Sampling Point: u-50n26w...

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
ee Stratum (Plot Size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species		
Quercus rubra	30.00	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A)		
·				Total Number of Dominant		
·				Species Across All Strata: <u>4</u> (B)		
				Percent of Dominant Species		
				That Are OBL, FACW, or FAC: 0 (A/B)		
				Prevalence Index worksheet:		
				Total % Cover of: Multiply by:		
	30	= Total Cover		OBL species 0.00 x 1 0		
apling/Shrub Stratum (Plot Size: 15)				FACW species 0.00 x 2 0		
Corylus cornuta	45.00	Yes	UPL	FACU species 80.00 x 3 320		
Acer saccharum	10.00	No	UPL	UPL species 85.00 x 4 425		
Populus tremuloides	10.00	No	FAC	Column Totals 175 (A) 775 (B)		
				Prevalence Index = $B/A = 4.4285714$		
				Hydrophytic Vegetation Indicators:		
				1 - Rapid Test for Hydrophytic Vegetation		
·				no 2 - Dominance Test is > 50%		
·	65	- Total Cavar	_	no $3 - Prevalence Index is \leq 3.0^{1}$		
last Chartery (Dist Circu 5	<u>65</u> = Total Cover					
lerb Stratum (Plot Size: 5)	25.00	Vac	FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
Eurybia macrophylla	35.00	Yes	FACU	-		
Carex woodii	30.00	Yes		Problematic Hydrophytic Vegetation ¹ (Explain)		
Aralia nudicaulis	10.00	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless		
. Pteridium aquilinum	5.00	No	FACU	disturbed or problematic.		
				Definitions of Vegetation Strata:		
				-		
				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.		
·						
				Sapling/Shrub - Woody plants less than 3 in. DBH and greater that		
0				or equal to 3.28 ft (1 m) tall.		
1.				Herb - All herbaeceous (non-woody) plants, regardless of size, and		
				woody plants less than 3.28 ft tall.		
2	80 = Total Cover			Woody vines - All woody vines greater than 3.28 ft in height.		
		_= Total Cover		woody vines - Air woody vines greater than 5.28 it in height.		
Voody Vine Stratum (Plot Size: 30)						
·				Present? No		
k						
1				Hydrophytic Vegetation Present? <u>No</u>		
2		=Total Cover				

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SOIL

-	tion: (Describe to the	depth needed	to document the	e indicato	or or cor	nfirm th	e absence of ind	icators.)
Depth	Matrix		Redox	Features		-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 5 2	100					LS	
				_				
		_		_				
¹ Type: C=Concent	tration, D=Depletion, RM=	Reduced Matrix,	MS=Masked Sand Gr	 ains.				² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indica							Indicators for F	Problematic Hydric Soil ³ :
Histosol (A:	1)	E	Polyvalue Below 149B)	Surface (S	8) (LRR R,	MLRA	2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
Histic Epipe		Γ	Thin Dark Surface	e (S9) (LRR	R. MLRA	149B)	_	irie Redox (A16)(LRR K, L, R)
Black Histic		Г	Loamy Mucky Mi			-	_	ky Peat or Peat (S3) (LRR K, L, R)
Hydrogen S		Г	Loamy Gleyed M		(2111111, 2)		_	ace (S7) (LRR K, M)
Stratified La		Г	Depleted Matrix				_	Below Surface (S8) (LRR K, L)
		Г					_	Surface (S9) (LRR K, L)
	elow Dark Surface (A11)		Redox Dark Surfa					
	Surface (A12)		Depleted Dark Su				_	anese Masses (F12) (LRR K, L, R)
Sandy Muc	ky Mineral (S1)	L	Redox Depressio	ns (F8)			_	Floodplain Soils (F19) (MLRA 149B)
Sandy Gley	ed Matrix (S4)						Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)
Sandy Redo	ox (S5)						Red Parer	nt Material (F21)
Stripped M	atrix (S6)						Very Shall	low Dark Surface (TF12)
Dark Surfac	ce (S7) (LRR R, MLRA 1498)					Other (ex	plain in remarks)
Restrictive Layer	(if observed):	✓						
Type: Rock						F	lydric Soil Present?	No
Depth (ii	nches): <u>5</u>							
Remarks:								

Site Photograph 1



Latitude: 46.8379652454023

Longitude: -93.6789697688945

Direction: East

Cowardin Classification:

Circular 39:

Eggers & Reed:

Remarks: Upland



Latitude: 46.8379654968594

Longitude: -93.6789696850755

Direction: North

Upland

Remarks:

Cowardin Classification:

Eggers & Reed: ____

Circular 39: