		A FORM - North Central	and Northeast Region				
Project/Site: SPP	City/County: Aitkin		Samplin	Sampling Date: 2016-08-16			
Applicant/Owner: Enbridge		State: Minnesota	Samplin	g Point: u-50n26w7-a1			
Investigator(s): ZCW, MGH	Section, Town	Section, Township, Range: S7, T50N, R26W					
Landform (hillslope, terrace, etc.): Rise		Local Relief (concave, co	onvex, none): <u>VL</u>	Slope (%): <u>3-7%</u>			
Subregion (LRR or MLRA):	Latitude:	46.8296350166 Lor	ngitude: <u>-93.68112006</u>	Datum: NAD83			
Soil Map Unit Name: 204B			NWI Clas	ssification: N/A			
Are climatic/hydrologic conditions on the sit	e typical for this time of ye	ear? (if no, explain in Rema	rks):	No			
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrol	logy <u>No</u> significantly dist	urbed? Are "Normal Circur	mstances" present? Yes				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrolog	gy <u>No</u> naturally problem	atic? (If needed, explain a	ny answers in Remarks)				
SUMMARY OF FINDINGS - Attach site ma	ap showing sampling poin	t locations, transects, impc	ortant 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	d Site ID:				
Remarks: (Explain alternative procedures he	ere or in a separate report)					
HYDROLOGY Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)			
			Secondary Indicat	ors (minimum of two required)			
Primary Indicators (minimum of one is requi				l Cracks (B6)			
Surface Water (A1)	Water-Stained Le		Drainage Pa				
High Water Table (A2)		Aquatic Fauna (B13)		ines (B16) Water Table (C2)			
Saturation (A3)		Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4)			essed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)			Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqui				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		,	FAC-Neutral				
Field Observations:							
Surface Water Present? <u>N</u>	<u>Io</u> Depth (inch	es)					
Water Table Present? N	<u>No</u> Depth (inch	es)					
Saturation Present? N	No Depth (inch	es)	Wetland Hydrology Pro	esent? <u>No</u>			
(includes capillary fringe)							
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos	s, previous inspections), if a	vailable:				
	nitoring well, aerial photos	s, previous inspections), if a	ivailable:				

VEGETATION - Use scientific names of plants.

Sampling Point: u-50n26w...

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species	
1. Quercus rubra	30.00	Yes	FACU	That Are OBL, FACW, or FAC: 1(A)	
2. Populus tremuloides	25.00	Yes	FAC	Total Number of Dominant	
3				Species Across All Strata: <u>6</u> (B)	
4.				Percent of Dominant Species	
5.				That Are OBL, FACW, or FAC: <u>16.66666666666</u> (A/B)	
6.				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	55	= Total Cover		OBL species 0.00 x 1 0	
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 0.00 x 2 0	
1. Corylus cornuta	40.00	Yes	UPL	FACU species 85.00 x 3 340	
2. Populus tremuloides	20.00	Yes	FAC	UPL species 40.00 x 4 200	
3				Column Totals 170 (A) 675 (B)	
4.				Prevalence Index = $B/A = 3.9705882$	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7		·		no 2 - Dominance Test is > 50%	
	60	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^{1}$	
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations ¹ (Provide	
1. Eurybia macrophylla	20.00	Yes	FACU	supporting data in Remarks or on a separate sheet)	
2. Aralia nudicaulis	20.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Pteridium aquilinum	15.00	Yes	FACU		
	15.00		1400	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		<u></u>	<u></u>		
	55 = Total Cover			Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size: 30)					
1					
2.				Hydrophytic	
3.				Vegetation Present? <u>No</u>	
4.				Fresent:	
	0			1	
Pomarke: (include photo numbers here or on a congrate sheet					
Remarks: (include photo numbers here or on a separate sheet.	1				

US Army Corps of Engineers

Northcentral and Northeast Region – Version 2.0

SOIL

Profile Descript Depth	Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3 1	100					LS	
3-24	10YR 4 4	100					<u>s</u>	
1								2
		-Reduced Ma	atrix, MS=Masked Sand Gr	ains.			Indicators for Proble	² Location: PL=Pore Lining, M=Matri:
Hydric Soil Indicat	tors:		Polyvalue Below	Surface (St	3) (LRR R,	MLRA	_	
Histosol (A1			└─ 」 149B)					0) (LRR K, L, MLRA 149B)
Histic Epipe	don (A2)		Thin Dark Surface	e (S9) (LRR	R, MLRA	149B)		edox (A16)(LRR K, L, R)
Black Histic			Loamy Mucky Mi		(LRR K, L)			at or Peat (S3) (LRR K, L, R)
Hydrogen S			Loamy Gleyed M				Dark Surface (S	
Stratified La	ayers (A5)		Depleted Matrix	(F3)			_	N Surface (S8) (LRR K, L)
Depleted Be	elow Dark Surface (A11)		Redox Dark Surfa	ice (F6)			_	ce (S9) (LRR K, L)
Thick Dark S	Surface (A12)		Depleted Dark Su	irface (F7)			Iron-Maganese	Masses (F12) (LRR K, L, R)
Sandy Muck	ky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont Flood	plain Soils (F19) (MLRA 149B)
Sandy Gleye	ed Matrix (S4)						Mesic Spodic (T	A6) (MLRA 144A, 145, 149B)
Sandy Redo	x (S5)						Red Parent Ma	terial (F21)
Stripped Ma	atrix (S6)						Very Shallow D	ark Surface (TF12)
Dark Surface	e (S7) (LRR R, MLRA 149	5)					Other (explain	in remarks)
Restrictive Layer (if observed):							
Туре:						ŀ	lydric Soil Present? No	
Depth (in	nches):							
Remarks:					I			

Site Photograph 1

Sampling Point: u-50n26w7-a1



Latitude: 46.829632921188

Longitude: -93.6811561883368

Direction: West

Circular 39:

Cowardin Classification:

Remarks: Upland Eggers & Reed:

Site Photograph 2



Latitude: 46.8296345137496

Longitude: -93.6811659951635

Direction: South

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed: