		ION DATA FORM - North Cen	0	a Data: 2016-08-02		
Project/Site: SPP		City/County: Cass		ng Date: 2016-08-02		
Applicant/Owner: Enbridge		State: Minnesota	Samplin	g Point: u-139n25w18-ai1		
Investigator(s): DPT/MGH	Sect	Section, Township, Range: S18, T139N, R25W				
Landform (hillslope, terrace, etc.): Rise	2	Local Relief (concav	ve, convex, none): <u>VL</u>	Slope (%): <u>0-2%</u>		
Subregion (LRR or MLRA):		Latitude: 46.854146677113	Longitude: -93.88556926	Datum: NAD83		
Soil Map Unit Name: 142			NWI Clas	ssification: N/A		
Are climatic/hydrologic conditions on	the site typical for this	time of year? (if no, explain in Re	emarks):	Yes		
Are Vegetation <u>No</u> , Soil <u>No</u> , or	Hydrology <u>No</u> signific	cantly disturbed? Are "Normal Ci	ircumstances" present? Yes			
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hy	drology <u>No</u> naturally	problematic? (If needed, expla	in any answers in Remarks)			
SUMMARY OF FINDINGS - Attach	ite man showing samr	ling point locations transects i	mnortant features, etc.			
Hydrophytic Vegetation Present?	No	Is the Sampled Are	-			
Hydric Soil Present?	No	within a Wetland?	-	No		
Wetland Hydrology Present?	No	If yes, optional Wet	tland Site ID:	<u> </u>		
Remarks: (Explain alternative proced	ures here or in a separa	ate report.)				
HYDROLOGY Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two require		
Primary Indicators (minimum of one i	s required: check all th	at apply)	Surface Soi	l Cracks (B6)		
Surface Water (A1)		r-Stained Leaves (B9)		itterns (B10)		
High Water Table (A2)		tic Fauna (B13)	Moss Trim Lines (B16)			
Saturation (A3)		Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)		ogen Sulfide Odor (C1)	Crayfish Bur	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidiz	ed Rhizospheres on Living Roots (C3)	Saturation V	isible on Aerial Imagery (C9)		
Drift Deposits (B3)	Prese	nce of Reduced Iron (C4)	Stunted/Stre	essed Plants (D1)		
Algal Mat or Crust (B4)	Recer	t Iron Reduction in Tilled Soils (C6)	on in Tilled Soils (C6)Geomorphic Po			
Iron Deposits (B5)	Thin M	Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (	ble on Aerial Imagery (B7) Other (Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (	B8)		FAC-Neutral	Test (D5)		
Field Observations:						
Surface Water Present?	<u>No</u> De	epth (inches)				
Water Table Present?	De	epth (inches)				
Saturation Present?	<u>No</u> De	epth (inches)	Wetland Hydrology Pr	esent? <u>No</u>		
(includes capillary fringe)						
Describe Recorded Data (stream gaug	e, monitoring well, aer	ial photos, previous inspections),	, if available:			
Remarks:						
No digging, could not verify water tak	le					

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

Sampling Point: u-139n25...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1. Betula papyrifera	5.00	Yes	FACU	That Are OBL, FACW, or FAC: 1(A)
2.				Total Number of Dominant
3			_	Species Across All Strata: 4 (B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 25 (A/B)
6				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
	5	= 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 65.00 x 3 260
2				UPL species 0.00 x 4 0
3.				Column Totals 90 (A) 335 (B)
4.				Prevalence Index = B/A = 3.7222222
5				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
6				no 2 - Dominance Test is > 50%
7	0	= Total Cover		no $3 - Prevalence Index is \leq 3.0^{1}$
Herb Stratum (Plot Size: 5)	<u> </u>			
1. Plantago major	25.00	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Solidago canadensis	20.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Trifolium repens	20.00	Yes	FACU	
		No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless
Poa pratensis     Trifolium pratense	15.00 5.00		FACU	disturbed or problematic.
	5.00	No	FACU	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				
	85	= 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? No
4.	_			
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate shee				•
<b>Remarks.</b> (include photo numbers here of on a separate since	,			

US Army Corps of Engineers

Northcentral and Northeast Region – Version 2.0

#### SOIL

Sampling	Point:	u-139n25
----------	--------	----------

Depth Matrix		Redox I	Features				
(inches) Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
			·				
			·				
			·				
			·				
Type: C=Concentration, D=Depletion, RM=Rec	luced Matrix,	MS=Masked Sand Gr	ains.				<sup>2</sup> Location: PL=Pore Lining, M=Mat
Hydric Soil Indicators:         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 Redox (S5)         Stripped Matrix (S6)		Polyvalue Below S 149B) Thin Dark Surface Loamy Mucky Mi Loamy Gleyed Ma Depleted Matrix I Redox Dark Surfa Depleted Dark Su Redox Depression	: (S9) <b>(LRR</b> neral (F1) atrix (F2) (F3) ce (F6) rface (F7)	R, MLRA (LRR K, L)		2 cm Muc Coast Pra 5 cm Muc Dark Surf Polyvalue Thin Dark Iron-Mag Piedmont Mesic Spc Red Pare	Problematic Hydric Soil <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B) hirie Redox (A16)(LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) face (S7) (LRR K, M) e Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) surface (S9) (LRR K, L) Floodplain Soils (F19) (MLRA 149B) odic (TA6) (MLRA 144A, 145, 149B) nt Material (F21) How Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)							xplain in remarks)
Restrictive Layer (if observed): Type: Depth (inches):					Н	ydric Soil Present?	No
Remarks:							
No digging, soils assumed non-hydric based or	veg and hydr	0.					

# Site Photograph 1



Latitude: 46.8541468447511

Longitude: -93.8855684270094

Direction: south

Cowardin Classification:

Eggers & Reed:

Circular 39:

Remarks: Upland

# Site Photograph 2



Latitude: 46.8541472219367

Longitude: -93.8855682593713

Direction: north

Remarks: Upland Cowardin Classification:

Circular 39:

### Eggers & Reed: