## WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: <u>I3_mainline</u>	City/County: Hubbard		Sampling Date: <u>2017-06-09</u>						
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-141n35w20-b1						
Investigator(s): SMR, TDT	Section, Township, Range: S20, T141N, R35W								
Landform (hillslope, terrace, etc.): Depression	3ection, rownship,	Local Relief (concave, c	Slope (%):						
Subregion (LRR or MLRA):	Latitude: 4		ongitude: -95.14955699 Datum: NAD83						
	. Latitude		NWI Classification: N/A						
Soil Map Unit Name: 1943	teel feethick the effect 2	//							
Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks):  Yes  Yes									
Are Vegetation No_, Soil No_, or Hydrology No_ significantly disturbed? Are "Normal Circumstances" present? Yes_									
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)									
SUMMARY OF FINDINGS - Attach site map sh	owing sampling point loca	tions, transects, import	ant features, etc.						
Hydrophytic Vegetation Present?	Yes	Is the Sampled Area							
Hydric Soil Present?	Yes	within a Wetland?	<u>Yes</u>						
Wetland Hydrology Present?	Yes	If yes, optional Wetlan	d Site ID: <u>w-141n35w20-b</u>						
Remarks: (Explain alternative procedures here c	r in a separate report.)								
No digging allowed due to potential utilities present.									
HYDROLOGY									
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)									
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil Cracks (B6)						
Surface Water (A1)	Wat er-Stain ed Leave	s (B9)	Drainage Patterns (B10)						
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)						
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)						
Water Marks (B1)	Hydrogen Sulfide Od	or (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 Reductio	n in Tilled Soils (C6)	yes Geomorphic Position (D2)						
Iron Deposits (B5)	Thin Muck Surface (C	7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Ren	narks)	Microto pograp hic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)			yes FAC-Neutral Test (D5)						
Field Observations:									
Surface Water Present? No	_ Depth (inches	)							
Water Table Present?	_ Depth (inches								
Saturation Present?	_ Depth (inches		Wetland Hydrology Present? Yes						
(includes capillary fringe)									
Describe Recorded Data (stream gauge, monitor	ng well aerial nhotos nre	vious inspections) if ava	ilable:						
Describe necorata bata (stream gauge, montor	ing wen, derial priocos, pre	vious inspections,, ii uvu							
Pomarke									
Remarks:									
No digging allowed du to potential buried utilities. Saturation and water table could not be verified.									

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot Size: 30 )	% Cover	Species?	Status	Number of Dominant Species		
1. Populus tremuloides	30.00	Yes	FAC	That Are OBL, FACW, or FAC: 3 (A)		
2.				Total Number of Dominant		
3				Species Across All Strata: 5 (B)		
4.				Percent of Dominant Species		
5.				That Are OBL, FACW, or FAC: 60 (A/B)		
				Prevalence Index worksheet:		
7				Total % Cover of: Multiply by:		
	30	= Total Cover		OBL species 0.00 x 1 0		
Sapling/Shrub Stratum (Plot Size: 15	30	Total Cover		FACW species 115.00 x 2 230		
1. Salix bebbiana	60.00	Yes	FACW	FACU species 45.00 x 3 180		
2. Corylus cornuta	20.00	Yes	UPL			
	20.00	163	012			
3				Column Totals $\frac{210}{100}$ (A) $\frac{600}{1000}$ (B)  Prevalence Index = B/A = $\frac{2.8571428}{1000}$		
4				1		
5				Hydrophytic Vegetation Indicators:		
6		· -		1 - Rapid Test for Hydrophytic Vegetation		
7				yes 2 - Dominance Test is > 50%		
_	80	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>		
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1. Calamagrostis canadensis	40.00	Yes	FACW			
2. Aralia nudicaulis	35.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
3. Ono clea sensi bil is	15.00	No	FACW	1 Indicators of hydrics oil and wetland hydrology must be present, unless disturbed		
4. Pteridium aqui linum	10.00	No	FACU	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				ricigite (bb11), regardless of height.		
9		_		Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or		
10				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		_				
	100	= Total Cover				
Woody Vine Stratum (Plot Size: 30		_ = 10 tal Covel		Troody times you woody times greater than 3.20 remineight.		
1	-	_		Ukada ana ka aki a		
2		_	-	Hydrop hytic Vegetation		
3		_		Present? <u>Yes</u>		
4		_				
	0	_=Total Cover	-			
Remarks: (in clude photo numbers here or on a separate sheet.	)					

OIL						Sampling Point: w-141n35w20-b1
Profile Description: (Describe to the	depth needed to do	cument the indicato	or or conf	firm the a	absence of indi	icators.)
Depth Matrix		Redox Features				
inches) Color (moist)	% Color	(moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	- — — — — — — — — — — — — — — — — — — —					
Type: C=Concentration, D=Depletion, RM=		asked Sand Grains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:					Indicators for P	Problematic Hydric Soil <sup>3</sup> :
Histosol (A1)	Pol <b>149</b>	lyvalue Below Surface (S 9B)	8) <b>(LRR R, I</b>	VILRA	2 cm Mucl	k (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epipedon (A2)	☐ Thi	n Dark Surface (S9) (LRR	R, MLRA 1	(49B)	Coast Prair	irie Redox (A16)( <b>LRR K, L, R</b> )
Black Histic (A3)	☐ Lo€	amy Mucky Mineral (F1)	(LRR K, L)		5 cm Muck	ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen Sulfide (A4)	☐ Lo∂	amy Gleyed Matrix (F2)			Dark Surfa	ace (S7) ( <b>LRR K, M</b> )
Stratified Layers (A5)	Der	pleted Matrix (F3)			Polyvalue	Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	Rec	dox Dark Surface (F6)			Thin Dark S	Surface (S9) (LRR K, L)
Thick Dark Surface (A12)	☐ De <sub>l</sub>	pleted Dark Surface (F7)	ı		☐ Iron-Maga	anese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	☐ Rec	dox Depressions (F8)			Piedmont F	Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)					Mesic Spoo	dic (TA6) (MLRA 144A, 145, 149B)
San dy Red ox (S5)					Red Paren	nt Material (F21)
Stripped Matrix (S6)					☐ Very Shall	low Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B	a)				Other (exp	plain in remarks)
Restrictive Layer (if observed):						
Туре:				Hva	dric Soil Present?	Yes
Depth (inches):			$\perp$	117	Ufic Soft ricocia.	163
Remarks:						
No digging permitted due to potential utilit	ies. Hydric soils are assu	med based on vegetatio	n and hydr	ology.		

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