WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: I3_mainline	ainline City/County: Hubbard			Sampling Date: 2017-06-09			
Applicant/Owner: Enbridge			State: Minnesota	Sampling Point: u-145n36w23-c1			
Investigator(s): SMR, MRG		Section, Township, Range: S23, T145N, R36W					
Landform (hillslope, terrace, etc.): Rise			Local Relief (concave,		Slope (%): 8-15%		
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Subregion (LRR or MLRA):		Latitude. 4	7.3690901557	Longitude: <u>-95.22060024</u>			
Soil Map Unit Name: 1164				NWI Classifi			
Are climatic/hydrologic conditions on the	site typical fo	or this time of year? (i	f no, explain in Remar	·ks):	Yes		
Are Vegetation No , Soil No , or Hydr	ology <u>No</u> s	significantly disturbed	l? Are "Normal Circun	nstances" present? Yes			
Are Vegetation No , Soil No , or Hydrol	ogy <u>No</u> nat	turally problematic?	(If needed, explain ar	ny answers in Remarks)			
SUMMARY OF FINDINGS - Attach site r	nap showing	sampling point locat	tions, transects, impo	rtant features, etc.			
Hydrophytic Vegetation Present?	N	lo	Is the Sampled Area				
Hydric Soil Present?	N	lo_	within a Wetland?		No		
Wetland Hydrology Present?	N	0	If yes, optional Wetla	and Site ID:			
Remarks: (Explain alternative procedures	here or in a s	separate report.)					
No digging allowed due to potential utili	ties present.	On a drive way.					
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is req	uired; check	all that apply)		Surface Soil C	racks (B6)		
Surface Water (A1) Water-Stained Leaves (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 Odor (C1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)			on Living Roots (C3)	Saturation Visi	ble on Aerial Imagery (C9)		
Drift Deposits (B3)			ron (C4)	Stunted/Stress	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		no Geomorphic P	no Geomorphic Position (D2)		
Iron Deposits (B5)			Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)		Other (Explain in Rem	arks)	Microto pogra	Microto pographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)	rsely Vegetated Concave Surface (B8)			no FAC-Neutral To	est (D5)		
Field Observations:							
Surface Water Present?	No	Depth (inches)					
Water Table Present?		Depth (inches)					
Saturation Present?		Depth (inches)		Wetland Hydrology Pres	ent? <u>No</u>		
(includes capillary fringe)							
Describe Recorded Data (stream gauge, m	onitoring we	II, aerial photos, prev	vious inspections), if a	vailable:			
	-						
Remarks:							
No digging allowed due to potential utiliti	oc Matortak	alo and saturation co	uld not be verified				
No digging allowed due to potential dtiliti	es. Water tal	ore and saturation con	uid not be vermed.				

	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: 1 (B)	
4.				Percent of Do minant Species	
5		_	-	That Are OBL, FACW, or FAC: 0 (A/B)	
6.		_		Prevalence Index worksheet:	
		_	_		
7	0	Ta hall Carrain	_		
Continue (Charle Charles (Dist Charle 15	0	_ = Total Cover		OBL species 0.00 x 1 0 FACW species 0.00 x 2 0	
Sapling/Shrub Stratum (Plot Size: 15					
1		_		· · · · · · · · · · · · · · · · · · ·	
2		_	_	UPL species <u>0.00</u> x 4 <u>0</u>	
3				Column Totals <u>100</u> (A) <u>400</u> (B)	
4				Prevalence Index = B/A = 4	
5			_	Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				no 2 - Dominance Test is > 50%	
	0	_ = Total Cover		no 3 - Prevalence Index is ≤ 3.0 ¹	
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations ¹ (Provide	
1. Poa pratensis	90.00	Yes	FACU	supporting data in Remarks or on a separate sheet)	
2. Taraxacum officinale	10.00	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
3				<u> </u>	
4				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
6.				1	
7.				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 than or equal to 3.28 ft (1 m) tall.	
8.					
9.					
		_			
10				-	
11				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 (Plot Size: 30)					
1		_		_	
2.				Hydrophytic	
3.				Vege tation Present? No	
4.				1	
	0	=Total Cover]	
Remarks: (include photo numbers here or on a separate sheet	.)			-	
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OIL				Sampling Point: u-145n36w23-c1
rofile Description: (Describe to the dependent) Beth Matrix		ne indicator or confir x Features	m the absence of inc	licators.)
nches) Color (moist)	% Color (moist)		.oc ² Texture	Remarks
	<u></u>			
		 _		
ype: C=Concentration, D=Depletion, RM=Red	uced Matrix, MS=Masked Sand C	Grains.		² Location: PL=Pore Lining, M=Matr
ydric Soil Indicators:				Problematic Hydric Soil ³ :
Histosol (A1)	Polyvalue Belov 149B)	w Surface (S8) (LRR R, MI	LRA 2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	Thin Dark Surfa	ce (S9) (LRR R, MLRA 14	OB) Coast Pra	irie Redox (A16)(LRR K, L, R)
Black Histic (A3)	Loamy Mucky N	Mineral (F1) (LRR K,L)	5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Gleyed N	Matrix (F2)	Dark Surl	ace (S7) (LRR K, M)
Stratified Layers (A5)	Depleted Matri	x (F3)	Polyvalue	e Below Surface (S8) (LRRK, L)
Depleted Below Dark Surface (A11)	Red ox Dark Sur	face (F6)	Thin Dark	Surface (S9) (LRR K, L)
Thick Dark Surface (A12)	Depleted Dark S	Surface (F7)	☐ Iron-Mag	anese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Redox Depressi	ions (F8)	Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)			Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
San dy Red ox (S5)			☐ Red Pare	nt Material (F21)
Stripped Matrix (S6)			☐ Very Sha	llow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)			Other (ex	plain in remarks)
estrictive Layer (if observed):				
Туре:		-	Hydric Soil Present?	No
Depth (inches):		-		
emarks:		I		
Io digging, soils assumed non-hydric based on	vegetation and hydrology.			

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