WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Hubbard			-	Sampling Date: 2016-07-22		
Applicant/Owner: Enbridge		State: Mir		3 Sampli		g Point: u-143	3n35w33-af1
Investigator(s): ZCW Section, Township, Range: S 33, T 143, R 35W							
Landform (hillslope, terrace, etc.):					≥ (%):		
			7.1556322928	Longitude: -95	.13119475	Datum: N	
Soil Map Unit Name: 526C		_			NWI Clas	ssification: N/	A
Are climatic/hydrologic conditions on th	ne site typical for th	is time of year	? (if no, explain in Re	emarks):		Yes	
Are Vegetation No , Soil No , or Hy	ydrology <u>No</u> sign	ificantly disturb	ped? Are "Normal C	Circumstances" p	resent? Yes		
Are Vegetation No_, Soil No_, or Hyd	rology <u>No</u> natura	illy problemation	c? (If needed, expla	ain any answers i	n Remarks)		
SUMMARY OF FINDINGS - Attach sit	e map showing sar	mpling point lo	cations, transects, i	important featur	res, etc.		
Hydrophytic Vegetation Present?	getation Present? <u>No</u>		Is the Sampled Area				
Hydric Soil Present?	dric Soil Present? No		within a Wetland?			<u>No</u>	
Wetland Hydrology Present? Remarks: (Explain alternative procedur	<u>No</u>		If yes, optional We	tland Site ID:			
HYDROLOGY							
Wetland Hydrology Indicators:				Seco	ondary Indicat	ors (minimum	n of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)							
Surface Water (A1) Water-Stained Leaves (B9)			es (B9)	Drainage Patterns (B10)			
High Water Table (A2)				Moss Trim Lines (B16)			
Saturation (A3)	turation (A3) Marl Deposits (B15)			Dry-Season Water Table (C2)			
Water Marks (B1)	er Marks (B1) Hydrogen Sulfide Od			or (C1)Crayfish Burrows (C8)			
Sediment Deposits (B2)	ent Deposits (B2) Oxidized Rhizospher		s on Living Roots (C3)Saturation Visible on Aerial Image			magery (C9)	
Drift Deposits (B3)	(B3) Presence of Reduced		I Iron (C4)Stunted/S			essed Plants (D1)	
Algal Mat or Crust (B4)			· · ·			norphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C		· —		Shallow Aqu	Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7	Other (Explain in Re					aphic Relief (D4)	!
Sparsely Vegetated Concave Surface (B8	<u>})</u>				FAC-Neutral	Test (D5)	
Field Observations:							
Surface Water Present?		Depth (inches)					
Water Table Present?		Depth (inches)					
Saturation Present?	<u>No</u>	Depth (inches)		Wetland	Hydrology Pro	esent?	<u>No</u>
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:							

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30	% Cover	Species?	Status	Number of Dominant Species
1. Pinus resinosa	20.00	Yes	FACU	That Are OBL, FACW, or FAC: 1 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: 3 (B)
				Percent of Dominant Species
				· '
5.				That Are OBL, FACW, or FAC: 33.3333333333 (A/B)
6			-	Prevalence Index worksheet:
7		-		Total % Cover of: Multiply by:
	20	= Total Cover		OBL species <u>0.00</u> x 1 <u>0</u>
Sapling/Shrub Stratum (Plot Size: 15				FACW species <u>0.00</u> x 2 <u>0</u>
1. Acer saccharum	10.00	Yes	UPL	FACU species <u>40.00</u> x 3 <u>160</u>
2				UPL species <u>10.00</u> x 4 <u>50</u>
3.				Column Totals 85 (A) 315 (B)
4.			-	Prevalence Index = B/A = 3.7058823
5				Hydrophytic Vegetation Indicators:
			·	
6			-	1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	10	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations (Provide
1. Plantago major	30.00	Yes	FAC	supporting data in Remarks or on a separate sheet)
2. Poa pratensis	10.00	No	FACU	Problematic Hydrophytic Vegetation 1 (Explain)
3. Cerastium arvense	10.00	No	FACU	<u></u>
4. Equisetum arvense	5.00	No	FAC	Indicators of hydric soil and wetland hydrology must be present, unless 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				or equal to 3.26 ft (1 fil) tall.
11.	•			Herb - All herbaeceous (non-woody) plants, regardless of size, and
12.				woody plants less than 3.28 ft tall.
	55	- Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
111 1 11 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_ = 10tal covel		woody vines - All woody vines greater than 3.20 it in neight.
Woody Vine Stratum (Plot Size: 30)				
1	· -			-
2		_		Hydrophytic Vegetation
3		_	_	Present? No
4.		_	_	
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	•)	_		•
Nemarks. (merade proto numbers here of on a separate sheet)			

Sampling Point: u-143n35... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Loc² (inches) Color (moist) Color (moist) % Type¹ Texture Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Maganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (explain in remarks) Restrictive Layer (if observed): Hydric Soil Present? No Depth (inches): Remarks: Sample point taken along existing forest road. No digging.

Site Photograph 1 Sampling Point: u-143n35w33-af1



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Latitude: 47.1555958316169	Cowardin Classification:				
Longitude: -95.1311319787941	Circular 39:				
irection: Southwest	Eggers & Reed:				
emarks:					

Site Photograph 2 Sampling Point: u-143n35w33-af1



	IN A STAR A	
Latitude:	47.1555899642847	Cowardin Classification:
Longitude:	: -95.1310925000302	Circular 39:
Direction: Nor	rtheast	Eggers & Reed:
Remarks:		