WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: 13_mainline	ct/Site: 13_mainline City/County: Clearwater						
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-145n36w14-c3				
Investigator(s): SMR, DPT	Section, Township, Range: S14, T145N, R36W						
Landform (hillslope, terrace, etc.): Depression Subregion (LRR or MLRA): Soil Map Unit Name: 1164		Local Relief (concave, co	Slope (%):				
Are climatic/hydrologic conditions on the site ty	pical for this time of year?	(if no, explain in Remarks)): <u>Yes</u>				
Are Vegetation No , Soil No , or Hydrology	No significantly disturbe	d? Are "Normal Circumst	tances" present? Yes				
Are Vegetation No , Soil No , or Hydrology No	o naturally problematic?	(If needed, explain any	answers in Remarks)				
SUMMARY OF FINDINGS - Attach site map s	nowing sampling point loca	ations, transects, importa	ant features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here	Yes Yes Yes Yes or in a separate report.)	Is the Sampled Area within a Wetland? If yes, optional Wetland	Yes				
HYDROLOGY			Consider, Indicators (minimum of two yearsized)				
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required	check all that apply)		Surface Soil Cracks (B6)				
yes Surface Water (A1)	Water-Stained Leave	es (B9)	Drainage Patterns (B10)				
yes High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
yes Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Od		Crayfish Burrows (C8)				
Sediment Deposits (B2)		es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced		Stunted/Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reductio	on in Tilled Soils (C6)	<u>yes</u> Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rer	narks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)			<u>yes</u> FAC-Neutral Test (D5)				
Field Observations:	(1	、 1					
Surface Water Present? Yes							
Water Table Present? Yes							
Saturation Present? Yes	_ Depth (inches	<u>)</u>	Wetland Hydrology Present? Yes				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, pre	evious inspections), if avai	lable:				
Remarks:							

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Num ber of Do minant Species	
1.		•		That Are OBL, FACW, or FAC: 3 (A)	
2.				Total Number of Dominant	
				Species Across All Strata: 3 (B)	
3				Percent of Dominant Species	
4		-		That Are OBL, FACW, or FAC: 100 (A/B)	
5					
6	-			Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	0	= Total Cover		OBL species <u>100.00</u> x 1 <u>100</u>	
Sapling/Shrub Stratum (Plot Size: 15				FACW species <u>70.00</u> x 2 <u>140</u>	
1. Alnus incana	70.00	Yes	FACW	FACU species <u>0.00</u> x 3 <u>0</u>	
2				UPL species <u>0.00</u> x 4 <u>0</u>	
3				Column Totals <u>170</u> (A) <u>240</u> (B)	
4				Prevalence Index = B/A = <u>1.4117647</u>	
5.				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
			· - -	yes 2 - Dominance Test is > 50%	
7	70	= Total Cover		ves 3 - Prevalence Index is $\leq 3.0^{1}$	
Hart Control (Dist Con 5	70	- Total Cover		<u> </u>	
Herb Stratum (Plot Size: 5	70.00	Voc	OBL	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
1. Carex lacustris		Yes	-		
2. Caltha palustris	30.00	Yes	OBL	Problematic Hy drophytic Vegetation ¹ (Explain)	
3		_		1 Indicators of hydrics oil and wetland hydrology must be present, unless disturbed	
4		_		or problematic.	
5		_		Definitions of Vegetation Strata:	
6		_			
7		_		Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast	
8			_	height (DBH), regardless of height.	
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or	
				equal to 3.28 ft (1 m) tall.	
10		_		Hank All house account and many many and are second as a first and	
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.			-	Vegetation Present? Yes	
4			-		
*-	0	Tabal Carra	-		
	-	_=Total Cover			
Remarks: (include photo numbers here or on a separate sheet.)				

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rofile Description: (Describe to the de	pth needed	to document the	indicate	or or cor	nfirm th	e absence of indica	tors.)
epth Matrix			Features				•
nches) Color (moist)	% (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-24 10YR 2 2	100					<u>MP</u>	
				. ——			
- C. C. a contaction Deponds on DM-Dou		Cond Gr	•				² Location: PL=Pore Lining, M=Ma
Type: C=Concentration, D=Depletion, RM=Rec	Jucea Ivialita, iv	/IS=IVIaskeu sanu ora	ins.			Indicators for Prof	Location: PL=Pore Lining, M=Ma
lydric Soil Indicators: ├──	—	⊣ Polyvalue Below S	Surface (S	8) (LRR R,	, MLRA	—	
Histosol (A1)	L	」149B)					.10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	L	☐ Thin Dark Surface	(S9) (LRR	. R, MLRA	149B)	Coast Prairie F	Redox (A16)(LRR K, L, R)
Black Histic (A3)	L	Loamy Mucky Mir	neral (F1)	(LRR K, L)	1	5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	L	Loamy Gleyed Ma	ıtrix (F2)			Dark Surface	(S7) (LRR K, M)
Stratified Layers (A5)	L	Depleted Matrix (F3)			Polyvalue Below Surface (S8) (LRR K, L)	
Depleted Below Dark Surface (A11)		Redox Dark Surfac	ce (F6)			Thin Dark Surface (S9) (LRR K, L)	
Thick Dark Surface (A12)		Depleted Dark Sui	rface (F7)	j		Iron-Maganese Masses (F12) (LRR K, L, R)	
Sandy Mucky Mineral (S1)		Redox Depression	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)	
Sandy Gleyed Matrix (S4)						Mesic Spo dic	(TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)						Red Parent M	
<i>,</i> , , , , , , , , , , , , , , , , , ,						—	, ,
Stripped Matrix (S6)						☐ Very Shallow	Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)						Other (explain	n in remarks)
Restrictive Layer (if observed):							
Туре:					,	Hydric Soil Present? Yes	¢
Depth (in ches):				1		Tyuric John Tesene.	<u>, </u>

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