WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: I3_mainline	City/County:	City/County: Clearwater			Sampling Date: 2017-06-12	
Applicant/Owner: Enbridge		State: Minnesota			Sampling Point: w-145 n36w11-e2	
Investigator(s): SMR, DPT	Section,	Township, I	Range: S11, T145N, R36W			_
Landform (hillslope, terrace, etc.): Depression			Local Relief (concave, con	way nana): ((Slope 3-7%	• •
· · · · · · · · · · · · · · · · · · ·						
Subregion (LRR or MLRA):		Latitude. 47	7.3876699852 Lon	egitude: -95.21974252.		
Soil Map Unit Name: 709B				NWICIAS	ssification: PEM/S	221R
Are climatic/hydrologic conditions on the site	typical for this time	e of year? (i	f no, explain in Remarks):		Yes	
Are Vegetation No , Soil No , or Hydrolo	gy <u>No</u> significant	ly disturbed	? Are "Normal Circumsta	nces" present? Yes		
Are Vegetation No , Soil No , or Hydrology	No naturally pro	oblematic?	(If needed, explain any ar	nswers in Remarks)		
SUMMARY OF FINDINGS - Attach site map	showing sampling	point locat	tions, transects, importan	t features, etc.		
Hydrophytic Vegetation Present?	Yes	Yes Is the Sampled Area				
Hydric Soil Present?	Yes		within a Wetland?		Yes	
Wetland Hydrology Present?	Yes		If yes, optional Wetland S	iite ID:	<u>w-145 n36w11-e</u>	
Remarks: (Explain alternative procedures her	e or in a separate r	eport.)				
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicat	ors (minimum of	two required)
				Secondary marcat	.013 (11111111111111111111111111111111111	two required)
Primary Indicators (minimum of one is require	ed; check all that ap	oply)			oil Cracks (B6)	
Surface Water (A1)	Surface Water (A1) Water-Stained Leave		(B9)		Patterns (B10)	
yes High Water Table (A2)	Aquatic Fauna (B13)			·	Moss Trim Lines (B16)	
yes Saturation (A3)		posits (B15)			Dry-Season Water Table (C2)	
Water Marks (B1)		n Sulfide Odo		 ,	Crayfish Burrows (C8)	
· · · · ·	Sed iment Depo sits (B2) Oxidized Rhizosphere				Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3) Presence of Reduced					Stunted/Stressed Plants (D1)	
			in Tilled Soils (C6)		Geomorphic Position (D2)	
Iron Deposits (B5) Thin Muck Surfa		•			Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in I		xplain in Rema	arks)		Microtopographic Relief (D4) es FAC-Neutral Test (D5)	
Sparsely Vegetated Concave Surface (B8)				yes_FAC-Neutr	al lest (DS)	
Field Observations:	lo Den	. + la (: .a a la a a)				
_		Depth (inches)				
_		Depth (inches) 0 Depth (inches) 0		Marile ad III dealess e		Voc
_	<u>es</u> Dep	oth (inches)	<u> </u>	Wetland Hydrology F	resent?	<u>Yes</u>
(includes capillary fringe)						
Describe Recorded Data (stream gauge, moni	toring well, aerial p	inotos, prev	rious inspections), if availa	ble:		
Remarks:						

	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: 4 (A)	
2.		_		Total Number of Dominant	
		-	-	Species Across All Strata: 4 (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>10.00</u> x 2 <u>20</u>	
1. Alnus incana	10.00	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 110 (A) 120 (B)	
4.				Prevalence Index = B/A = 1.0909090	
5.			- <u> </u>	Hydrophytic Vegetation Indicators:	
		-	-	1 - Rapid Test for Hydrophytic Vegetation	
				' ' ' ' '	
7				yes 2 - Dominance Test is > 50%	
	10	_ = Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹	
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations (Provide	
1. Carex lacustris	60.00	Yes	OBL	supporting data in Remarks or on a separate sheet)	
2. Typha X glauca	20.00	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Carex stricta	20.00	Yes	OBL	1	
4				Indicators of hydrics oil and wetland hydrology must be present, unless disturbed or problematic.	
5			•	Definitions of Vegetation Strata:	
			_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast	
		-	_	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			_	equal to 5:20 it (2:11) tall	
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)		_ = 10101 00001		,	
1		_	_	l l	
2				Hydrop hytic Vege tation	
3			_	Present? Yes	
4					
	0	_=Total Cover		į	
Remarks: (include photo numbers here or on a separate sheet	:)		:	-	
(.,				

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					Sampling Point: w-145n36w11-e2		
ibe to the depth ne	eded to document the in	ndicator or o	onfirm th	e absence of indicat	tors.)		
Matrix	Redox Fe		_				
(moist) %	Color (moist)	% Туре	Loc ²	Texture	Remarks		
R 2 1 100				. <u>FSL</u>			
				- <u> </u>			
letion, RM=Reduced M	atrix, MS=Masked Sand Grain	ns.			² Location: PL=Pore Lining, M=Matrix		
	D. L. valva Balava Gu	(CO) (L DD	- **IB4	Indicators for Prob	olematic Hydric Soil ³ :		
	Polyvalue Below Su 149B)	rtace (S8) (LKK	R, MLKA	2 cm Muck (A	.10) (LRR K, L, MLRA 149B)		
	Thin Dark Surface (5	S9) (LRR R, ML I	RA 149B)	Coast Prairie I	Redox (A16)(LRR K, L, R)		
	Loamy Mucky Mineral (F1) (LRR K, L) 5 cm M			5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)		
	Loamy Gleyed Matrix (F2)			Dark Surface	Dark Surface (S7) (LRR K, M)		
	Depleted Matrix (F3)			Polyvalue Bel	olyvalue Below Surface (S8) (LRR K, L)		
face (A11)	Redox Dark Surface (F6)			Thin Dark Surf	face (S9) (LRR K, L)		
	Depleted Dark Surf	н			se Masses (F12) (LRR K, L, R)		
.)	Redox Depressions	(F8)		Piedmont Floc	odplain Soils (F19) (MLRA 149B)		
				Mesic Spo dic	(TA6) (MLRA 144A, 145, 149B)		
				Red Parent M			
				☐ Very Shallow	Dark Surface (TF12)		
MLRA 149B)				Other (explain	n in remarks)		
	7						
			,	Hydric Spil Present? Ye:	S		
			1 .	ayunc son riesent:	<u>, </u>		
			 				
(F F	Matrix (moist)	Matrix Redox Fe (moist) % Color (moist) R 2 1 100 R 2 1 100 Deletion, RM=Reduced Matrix, MS=Masked Sand Grain Polyvalue Below Surabble 149B) Thin Dark Surface (Sandy Mucky Mines) Loamy Mucky Mines Loamy Gleyed Matrix Depleted Matrix (Fi Redox Dark Surface) Depleted Dark Surface Redox Depressions	Matrix (moist) %	Matrix Redox Features (moist) % Color (moist) % Type¹ Loc² R 2 1 100 R 3 100 R 4 149B) R 5 1 100 R 5 1 100 R 6 1 100 R 7 100 R 8 100 R 7 100 R 8 100 R 8 100 R 8 100 R 8 100 R 9 100 R 9 100 R	(moist) % Color (moist) % Type¹ Loc² Texture R 2 1		

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