WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: SPP	City/County: Polk			Sampling Date: 2016-06-29				
Applicant/Owner: Enbridge		State: Mi	nnesota	Sampling Point: w-150n45w18-	-ab2			
Investigator(s): DPT, ZCW		Section, Town	ship, Range: S1	8, T150N, R45W				
Landform (hillslope, terrace, etc.): Depression			ef (concave, con		<u></u> %			
Latitude: 47.8038746025	Longitude:	-96.47954047		· · · · · · · · · · · · · · · · · · ·				
·	J		_					
Datum: NAD83								
Soil Map Unit Name: 149A				NWI Classification: N/A				
Are climatic/hydrologic conditions on the site ty	pical for this time of	year? (if no, ex	plain in Remarks	s): Yes	_			
Are Vegetation No, Soil No, or Hydrology	No significantly d	listurbed? Are '	'Normal Circum	stances" present? Yes				
Are Vegetation No, Soil No, or Hydrology	No naturally proble	ematic? (If nee	ded, explain any	answers in Remarks)				
SUMMARY OF FINDINGS - Attach site map si	howing sampling po	int locations, tr	ansects, import	ant features, etc.				
Hydrophytic Vegetation Present?	Yes	Is the San	npled Area					
Hydric Soil Present?	Yes	within a V	Wetland?	Yes				
Wetland Hydrology Present?	Yes	If yes, opt	ional Wetland S	ite ID: w-150n45w18-ab				
Remarks: (Explain alternative procedures here	or in a separate repo							
No digging, existing road, possible buried utiliti	es.							
55 G. 71								
VEGETATION - Use scientific names of plan	nts.							
	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot Size: 30) % Cover	Species?	Status	Number of Dominant Species				
1. Fraxinus pennsylvanica	60.00	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)	.)			
2				Total Number of Dominant				
3		_		Species Across All Strata: 4 (B)				
4				Percent of Dominant Species				
	60	_ = Total Cover		That Are OBL, FACW, or FAC: 100 (A/B	3)			
Sapling/Shrub Stratum (Plot Size: 15)				Prevalence Index worksheet:				
1. Cornus racemosa	10.00	Yes	FAC	Total % Cover of: Multiply by:				
2. Fraxinus pennsylvanica	5.00	Yes	FAC	OBL species <u>0.00</u> x 1 <u>0</u>				
3.				FACW species 65.00 x 2 130	_			
4.				FACU species 110.00 x 3 0	_			
5.				UPL species 0.00 x 4 0	_			
		= Total Cover		Column Totals 175 (A) 460	— (B)			
Herb Stratum (Plot Size: 5		_		Prevalence Index = B/A = 2.6285714	_ · ·			
1. Phalaris arundinacea	65.00	Yes	FACW	Hydrophytic Vegetation Indicators:				
2. Solidago gigantea	30.00	Yes	FAC	no 1 - Rapid Test for Hydrophytic Vegetation				
3. Urtica dioica	5.00	No	FAC	yes 2 - Dominance Test is > 50%				
4.			_	yes 3 - Prevalence Index is ≤ 3.0 ¹				
5.				4 - Morphological Adaptations (Provide				
6.			_	supporting data in Remarks or on a separate sheet)				
7				Problematic Hydrophytic Vegetation ¹				
				(Explain)				
0.		_	_					
9				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
10.								
				-				
	100	_ = Total Cover						
Woody Vine Stratum (Plot Size: 30)								
1								
2								
2				1				
	0	_ = Total Cover						
% Bare Ground in Herb Stratum				Hydrophytic				
				Vegetation Present? Yes				
Remarks:								

SOIL Sampling Point: w-150n45...

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			Features		2					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
	. ———										
	· -										
¹ Type: C=Concer	tration, D=Depletion, RM=Re		rix, MS=Masked Sand Gr	ains.				² Location: PL=Pore Lining, M=Matrix.			
Hydric Soil Indica	ators:						Indicators	for Problematic Hydric Soil ³ :			
Histosol (A	A1)		Sandy Gleyed	d Matrix (S	64)		1cm	Muck (A9) (LRR I, J)			
	pedon (A2)		Sandy Redox				Coast	: Prairie Redox (A16)(LRR K, L, R)			
			Stripped Mat					Surface (S7) (LRR G)			
Black Hist											
Hydrogen	Sulfide (A4)		Loamy Muck	y Mineral	(F1) (LRR	K, L)	∟ High	Plains Depressions (F16)			
Stratified	Layers (A5)		Loamy Gleye	d Matrix (F2)		(LRR H	l outside of MLRA 72 & 73)			
1cm Muc	(A9) (LRR F, G, H)		Depleted Ma	trix (F3)			Redu	ced Vertic (F18)			
☐ Depleted	Below Dark Surface (A11)		Redox Dark S	Surface (F6	5)		Red F	Red Parent Material (F21)			
Thick Dar	k Surface (A12)		Depleted Da	rk Surface	(F7)		☐ Very	Shallow Dark Surface (TF12)			
	cky Mineral (S1)		Redox Depre		. ,						
				,	•		E othe	(explain in remarks)			
	icky Peat or Peat (S2)(LRR G,	н)	☐ High Plains D	epression	s (F16)			of hydrophytic vegetation and			
5cm Muc	ky Peat or Peat (S3) (LRR F)		(MLRA 72	2 & 73 of L	.RR H)			wetland hydrology must be present, unless			
							disturbed o	or problematic.			
Restrictive Layer	(if present):										
Type:						Н	lydric Soil Present?	Yes			
Depth (inches):											
Remarks:											
No digging, soils	assumed hydric based on veg	/hydro.									
HYDROLOG	SY										
Wetland Hydr	ology Indicators:										
Daine and to disa	/ !						Cons				
	tors (minimum of one is	requirea;					Seco	ondary Indicators (minimum of two required)			
Surface V	er Table (A2)		Salt Crust (B11)		12)		_	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)			
Saturatio			Aquatic Inverte				no				
							<u></u>	Oxidized Rhizospheres on Living Roots (C3)			
	Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3)							(where tilled)			
					I LIVIIIG NO						
Drift Dep	or Crust (B4)		(where not tilled Presence of Re) (CA)		_	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
					1 (C4)		— ye				
Iron Depo	rained Leaves (B9)		Thin Muck Surf Other (Explain		c)		ye ye				
	n Visible on Aerial Imagery (E	:7)	Other (Explain	iii keiiiaik	5)		<u>yc</u>	Frost-Heave Hummocks (D7) (LRR F)			
Field Observa		,,		-	-			11032-11eave Hummocks (D7) (ERRT)			
Surface Water		No	Depth (inc	hes)							
Water Table P			Depth (inc								
Saturation Pre		No	Depth (inc				Wetland	Hydrology Present? Yes			
(includes capil				/				<u></u>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
				•	-						
Remarks:											
	ould not confirm/deny wa	ater table									
I											

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Latitude: 47.8038750635905

Longitude: -96.4795372915421

Direction: west

Cowardin Classification: PFO

Circular 39: 7

Eggers & Reed: Hardwood Swamp/Coniferous Swamp

Remarks:

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Site Photograph 2



Latitude: 47.8038750635905

Longitude: <u>-96.47953704</u>0085

Direction: south

Cowardin Classification: PFO

Circular 39: 7

Eggers & Reed: Hardwood Swamp/Coniferous Swamp

Remarks:

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