## WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: SPP Ci	ity/County: Polk			Sampling	g Date: 2016-06-29	
Applicant/Owner: Enbridge		State: Mir	nnesota	Sampling	Point: w-150n45w18-ab1	
Investigator(s): DPT, ZCW		Section, Towns	ship, Range: S18	3, T150N, R45W		
Landform (hillslope, terrace, etc.): Depression		Local Relie	ef (concave, con	vex, none): CL	Slope (%): 0-2%	
Latitude: 47.8039195714	Longitude:	-96.47904074		· · · · · · · · · · · · · · · · · · ·	. , ,	
			_			
Datum: NAD83						
Soil Map Unit Name: 149A				NWI Class	ification: N/A	
Are climatic/hydrologic conditions on the site typic	al for this time of	year? (if no, exp	olain in Remarks	s):	Yes	
Are Vegetation No , Soil No , or Hydrology N	o significantly di	isturbed? Are "	Normal Circums	stances" present? Yes		
Are Vegetation No_, Soil No_, or Hydrology No_	_ naturally proble	matic? (If need	ded, explain any	answers in Remarks)		
SUMMARY OF FINDINGS - Attach site map show	ving sampling poi	nt locations, tra	ansects, import	ant features, etc.		
Hydrophytic Vegetation Present?	<u>Yes</u>	Is the Sam	pled Area			
Hydric Soil Present? Yes		within a V		<u>Yes</u>		
Wetland Hydrology Present? Yes			ional Wetland S	te ID: w-150n45w18-ab		
Remarks: (Explain alternative procedures here or i	n a separate repoi	rt.)				
Vegetation recently mowed, but could still ID. No	digging, existing ro	ad, possible bu	ried utilities.			
<b>VEGETATION</b> - Use scientific names of plants.						
vegetation - ose scientific names of plants.	Absolute	-		Dominages Test wester		
Tree Stratum (Plot Size: 30 )	% Cover	Dominant	Indicator	Dominance Test workshee  Number of Dominant Spec		
Tree Stratum (Plot Size: 30 ) 1.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Species?	Status	That Are OBL, FACW, or FA		
2.			_	Total Number of Dominant		
3.			_	Species Across All Strata:		
4.	_			Percent of Dominant Speci		
	0	= Total Cover		That Are OBL, FACW, or FA		
		•		Prevalence Index workshe		
1.				Total % Cover of:	Multiply by:	
2.				OBL species	0.00 x 1 0	
3.				FACW species	100.00 x 2 200	
4.	_	_		FACU species	0.00 x 3 0	
5	_			UPL species	0.00 x 4 0	
	0	= Total Cover		Column Totals	100 (A) 200 (B)	
Herb Stratum (Plot Size: 5 )				Prevalence In	dex = B/A = 2	
1. Phalaris arundinacea	100.00	Yes	FACW	_ Hydrophytic Vegetation In	dicators:	
2	_			yes 1 - Rapid Test for	Hydrophytic Vegetation	
3	_		_	yes 2 - Dominance Te	_	
4				yes 3 - Prevalence Ind	_	
5		<u> </u>		4 - Morphological	Adaptations (Provide narks or on a separate sheet)	
6			_	-	·	
7	_	-		Problematic Hydrophytic V	'egetation <sup>†</sup>	
8	_	-	_	(Explain)		
9				Indicators of hydric soil and wetla unless disturbed or problematic.	and hydrology must be present,	
10.						
10.			_	-		
	100	_ = Total Cover				
Woody Vine Stratum (Plot Size: 30						
1		_		_		
2.						
		T-1-1-0		1		
	0	_ = Total Cover				
% Bare Ground in Herb Stratum				Hydrophytic Vegetation		
				Present?	Yes	
Romarks:				•	<del></del>	
Remarks:						

SOIL Sampling Point: W-150n45...

Depth Matrix		Redox	eatures			absence of ir	,
(inches) Color (moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
(menes) color (moist)	70	color (moist)	70	Турс	LOC	TEXTUTE	Remarks
			·				
			-				
							-
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	=Reduced Ma	trix, MS=Masked Sand Gr	ains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators:		_				Indicator	s for Problematic Hydric Soil <sup>3</sup> :
Histosol (A1)		Sandy Gleye	d Matrix (	64)		1cn	n Muck (A9) ( <b>LRR I, J</b> )
Histic Epipedon (A2)		Sandy Redox	(S5)			Coa	st Prairie Redox (A16)( <b>LRR K, L, R</b> )
Black Histic (A3)		Stripped Ma	rix (S6)			☐ Darl	s Surface (S7) (LRR G)
Hydrogen Sulfide (A4)		Loamy Muck	v Mineral	(F1) <b>(I RR</b>	K. I.)	High	n Plains Depressions (F16)
			•		.,, -,		
Stratified Layers (A5)		Loamy Gleye		F2)			H outside of MLRA 72 & 73)
1cm Muck (A9) ( <b>LRR F, G, H</b> )		☐ Depleted Ma	trix (F3)			□ Red	uced Vertic (F18)
Depleted Below Dark Surface (A11)		Redox Dark S	urface (F6	5)		☐ Red	Parent Material (F21)
Thick Dark Surface (A12)		Depleted Da	k Surface	(F7)		☐ Ver	Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)		Redox Depre	ssions (F8	)		<b>✓</b> Oth	er (explain in remarks)
2.5cm Mucky Peat or Peat (S2)(LRR	G. H)	High Plains D	epression	s (F16)			
5cm Mucky Peat or Peat (S3) (LRR F)		(MLRA 72					rs of hydrophytic vegetation and hydrology must be present, unless
Sem Macky Feat of Feat (33) (ERR F)	,	(WILITA 72	75 01 1				or problematic.
Restrictive Layer (if present):		1					•
nestrictive tayer (ii present).		1					
Tyne:			i				
Type:					H	ydric Soil Present	? <u>Yes</u>
Type:					H	ydric Soil Present	? <u>Yes</u>
Depth (inches):Remarks:					H	ydric Soil Present	? <u>Yes</u>
Depth (inches):			veg/hydro	).	Н	ydric Soil Present	? <u>Yes</u>
Depth (inches):  Remarks:  No digging, existing road, possible buried u			veg/hydro	).	H	ydric Soil Present	? <u>Yes</u>
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Depth (inches):  Remarks:  No digging, existing road, possible buried u	utilities. Soils a	issumed hydric based on	veg/hydro	).	н		? Yes
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Depth (inches):  Remarks:  No digging, existing road, possible buried u  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)	utilities. Soils a	issumed hydric based on ; check all that apply Salt Crust (B11)	brates (B:	13)	н	<u>Se</u> - -	condary Indicators (minimum of two required) Surface Soil Cracks (B6)
Depth (inches):  Remarks:  No digging, existing road, possible buried u  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)	utilities. Soils a	; check all that apply Salt Crust (B11	brates (B:	13)	н	<u>Se</u> - -	condary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
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US Army Corps of Engineers Great Plains Region – Version 2.0



Latitude: 47.8038730519338

Longitude: -96.4789384045605

Direction: west

Cowardin Classification: PEM

Circular 39: 2

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

US Army Corps of Engineers

Great Plains Region – Version 2.0

Site Photograph 2



Latitude: 47.8038744349478

Longitude: -96.4789358899896

Direction: east

Cowardin Classification: PEM

Circular 39: 2

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

US Army Corps of Engineers Great Plains Region – Version 2.0