WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14	•
Applicant:		Enbridge								County:	Marshall	
Investigators		NTT/BEH			Subregic	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	153A			_ .			I Classification	i:		1	455 45 00 1 40	
Landform:	Depression		10		ocal Relief					Sample Point	w-155n45w28-h10	
Slope (%):	3 - 7%		Latitude: 48.			-96.435		Datum:				
		nditions on the sit						✓ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•	•		Are	e normal circur	-	esent?	Township:	D:	
Are Vegetation		□, or Hydrology	Haturally p	robiematic?			✓ Yes	□ No		Range:	Dir:	
			Yes					Hydric Soi	le Present?	Voc		
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes			Hydric Soils Present? Is This Sampling Poin				etland? Yes	
Remarks:		d is a shallow mars			avel road [Ominan	t nlants are rec				Cliana: 103	
rtomants.	The welland	a is a snahow man	on that is au	accin to a gi	averreda. I	Johnnan	t plants are rec	a canary gro	ass and my	ond cattain.		
HYDROLOG	Υ											
		ioators (Chaok all	I that apply:	Minimum of	ano primory	or two o	ooondory rogui	irod\.				
Primary:	•	icators (Check all	i that apply;	viinimum oi (one primary	or two s	econdary requi	irea):	Secondary:			
	<u>·</u>	Water		Г	B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aqu		a				Vegetated Concave Surface	Э
✓	A3 - Saturation			[C1 - Hydro					B10 - Drainage		. (d) N
	B1 - Water M			[1 C2 - Dry S			. Dooto (not till			Rhizospheres on Living Roo	ots (tilled)
	B2 - Sedimen B3 - Drift Dep						spheres on Living educed Iron	Roots (not till		C8 - Crayfish I	n Visible on Aerial Imagery	
	B4 - Algal Ma			-	C7 - Thin				✓	D2 - Geomorp	0 1	
	B5 - Iron Dep			[☐ Other (Exp	olain)			✓	D5 - FAC-Neu		
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	by - water-si	ained Leaves										
Field Observ	vations:											
Surface Water		Yes	Dep	th:	(in.)							
Water Table		Yes	Dep		— (in.)			Wetland F	lydrology l	Present?	Υ	
Saturation P		Yes ☑	Dep		 :. :						_	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Pec	orded Data (s		<u> </u>		(in.)	nactions)	if available:					
	<u>`</u>	stream gauge, mon	nitoring well, a			pections)	, if available:					
Describe Rec	<u>`</u>		nitoring well, a			pections)	, if available:					
Remarks:	<u>`</u>	stream gauge, mon	nitoring well, a			pections)	, if available:					
Remarks:	Soils are sa	stream gauge, mon	nitoring well, a	erial photos,	orevious ins	•		ndicators.)				
Remarks: SOILS Profile Descri	Soils are sa	stream gauge, mon turated at the surf	nitoring well, a face.	erial photos, ument the in	orevious insponential	onfirm th	ie absence of ii					
Remarks: SOILS Profile Descri	Soils are sa	stream gauge, mon turated at the surf be to the depth ne etion, RM=Reduced M	itoring well, a	erial photos, ument the in	orevious insponential	onfirm th	ne absence of in Pore Lining, M=Mat					
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	stream gauge, mon turated at the surf be to the depth ne etion, RM=Reduced M	itoring well, a face. eeded to doo fatrix, CS=Cove	erial photos, ument the in red/Coated San	dicator or c	onfirm th ation: PL=P Mottl	ne absence of ine Pore Lining, M=Mat	rix)				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Soils are sa iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR All Hue_10YR All Hue_10YR	turated at the surface be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/1 Indicators (chain chain ch	eeded to doo fatrix, CS=Cove	erial photos, ument the in red/Coated San Color Hue_10Y Hue_10Y So Hue_10Y So Sandy So Stripp F1 - Loamy	dicator or cod Grains; Local (Moist) R 6/8 R 6/8 e not preser	onfirm the ation: PL=P Mottl % 10 10 10 nt):	e absence of income Lining, M=Mates Type C C	Location M M	CL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) : Prairie Redox urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	turated at the surface be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/1 Indicators (chain in Sulfide Layers (LRR F)	eeded to doo fatrix, CS=Cove	ument the ingred/Coated Sandon Color Hue_10Y Hue_10Y S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deplet	dicator or cod Grains; Local (Moist) R 6/8 R 6/8 R 6/8 P not preser Redox Addrix Mucky Miner Code Matrix Mucky Miner Code Matrix Mucky Miner Mucky M	monfirm the stion: PL=P Mottl % 10 10 10 nt):	e absence of income Lining, M=Mates Type C C	Location	CL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	fluck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressioned Vertic	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	turated at the surface be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/1 Indicators (chaic ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH)	paitoring well, a face. eeded to doo fatrix, CS=Cover face. 9 10 9 heck here if i	ument the in red/Coated San Color Hue_10Y Hue_10Y Selections are	dicator or cod Grains; Local (Moist) R 6/8 R 6/8 R 6/8 P not preser Redox Ed Matrix Mucky Miner Gleyed Matrix Dark Surface	onfirm the ation: PL=P Mottl % 10 10 10 nt):	e absence of income Lining, M=Mates Type C C	Location	CL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	fluck (LRR I, J) Prairie Redox Urface (LRR G) Plains Depressioned Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-155n45w28-h10
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					(-,
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(A/B)
					Drovolonos Indov Workshoot
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 50
	Total Cover =	0			FACW spp. $\underline{}$ $\phantom{$
					FAC spp. $0 x 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$
1.					$UPL spp. \qquad 0 \qquad X 5 = \qquad 0$
2.					
3.					Total 100 (A) 150 (B)
4.					
5.					Prevalence Index = B/A = 1.500
6.					1 TOVAIGNOG INGEX - D/A - 1.000
	_				
7.					. Ukadasa kadis Wasadadian India dana
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum ((Plot size: 5 ft. radius)	,			Problem Hydrophytic Vegetation (Explain) *
1.	Typha X glauca	50	Υ	OBL	
2.	Phalaris arundinacea	40	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.		10		FACW	present, unless disturbed or problematic.
	Spartina pectinata		11	TACVV	·
4.					Definitions of Vegetation Strata:
5.					_
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					1
15.					Woody Vines - All woody vines, regardless of height.
15.	T / 10	400			Woody Vines - All woody vines, regardless of fielgrit.
	Total Cover =	100			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
7.	Total Cover =	0			
Remarks			d canony a	race and l	hybrid cattail dominant
Remarks:	Vegetation is consistent throughout the mars	on with ree	u canary g	rass and I	nybna cattaii aominant.
Additional F	Remarks:				