WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge								Date: County:	06/24/14 Marshall
Investigators		NTT/KRG		Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit:	<u>115A</u>	_		NWI Classification:							450-40-24-44
Landform:	Depression 3 - 7%		atitude: 48.29		cal Relief:		200	Dotum		Sample Poir	t: w-156n46w34-a1
Slope (%):		onditions on the site t			Longitude:			Datum:	□ No	Section:	
Are Vegetatio		il				1	e normal circum			Township:	
Are Vegetati		il □, or Hydrology □	•				e normai eirean ☑ Yes			Range:	Dir:
SUMMARY C		, , ,	Hatarany pro				_ 100	- 110		range.	5
Hydrophytic '			Yes					Hydric Soil	s Present?	Yes	
Wetland Hyd	-		Yes		-		Is This Sampling Poir				/etland? Yes
Remarks:	The wetlan standing w	•	v located wi	thin a roadsid	de ditch. T	he veget	tation consists o	of sparse pa	tches of Ca	arex pellita c	lue to the presence of open,
HYDROLOG	Y										
Wetland Hv	/droloav Inc	licators (Check all th	nat apply: M	inimum of or	e primarv	or two s	econdarv requir	ed):			
Primary					- p				Secondary:		
	A1 - Surface				B11 - Salt					B6 - Surface	
	A2 - High Wa A3 - Saturati				B13 - Aqua C1 - Hydro					B8 - Sparsely B10 - Drainag	Vegetated Concave Surface
	B1 - Water N				C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedime						spheres on Living	Roots (not tille		C8 - Crayfish	Burrows
	B3 - Drift De						educed Iron				on Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M		ace			D2 - Geomor	
	B5 - Iron Dep B7 - Inundati	oosits on Visible on Aerial Imag	nerv		Other (Exp	piain)				D5 - FAC-Ne	utral Test eaved Hummocks (LRR F)
		Stained Leaves	5 ° ' Y						_		
Field Obser	vations:										
Surface Wat	er Present?	Yes 🛛	Depth	n: 6	(in.)					D	X
Water Table Present? Yes Depth: Depth: (in.) Wetland Hydrology										Present?	Y
Saturation P	resent?	Yes 🛛	Depth	n: <mark>O</mark>	- (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
			-		-			er reaching	six inches i	in denth	
Remarks:			-		-			er reaching	six inches i	in depth.	
Remarks:			-		-			er reaching	six inches i	in depth.	
Remarks: SOILS	Soils are s		ce throughou	ut the wetland	d, and por	tions hav	ve standing wate		six inches i	in depth.	
Remarks: SOILS Profile Descri	Soils are so	aturated to the surfac	ce throughou	ut the wetland	d, and port	tions hav	ve standing wate	dicators.)	six inches i	in depth.	
Remarks: SOILS Profile Descri	Soils are so	ribe to the depth need	ce throughou	ut the wetland	d, and port	tions hav onfirm th tion: PL=P	ve standing wate the absence of in Pore Lining, M=Matr	dicators.)	six inches i	in depth.	
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are so	ribe to the depth need oletion, RM=Reduced Matrix	ded to docu	ut the wetland ment the indi d/Coated Sand	d, and port	tions hav onfirm th tion: PL=P Mottl	ve standing wate the absence of in Pore Lining, M=Matr	dicators.)		in depth.	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are so iption (Descintration, D=Dep ric Soil Field A1- Histosol	aturated to the surface ribe to the depth need eletion, RM=Reduced Matrix Matrix Color (Moist)	ce throughou ded to docu ix, CS=Covere %	ment the indi d/Coated Sand Color (Color (dicators are r S5 - Sandy R	d, and port	tions hav	ve standing wate be absence of in Pore Lining, M=Matri es Type	dicators.)	Texture <u>Indicators f</u> A9 - 1 cm M	or Problemat	ic Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Soils are so iption (Descintration, D=Dep ric Soil Field A1- Histosol A2 - Histic E	aturated to the surface ribe to the depth need pletion, RM=Reduced Matrix Matrix Color (Moist) d Indicators (check pipedon	ce throughou ded to docu ix, CS=Covere %	dicators are r	d, and port	tions hav	ve standing wate be absence of in Pore Lining, M=Matri es Type	dicators.)	Texture Indicators f A9 - 1 cm M A16 - Cost F	or Problemat	<u>ic Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Soils are so iption (Descintration, D=Dep ric Soil Field A1- Histosol A2 - Histic E A3 - Black H	ribe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) d Indicators (cheorem	ce throughou ded to docu ix, CS=Covere %	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	d, and port	tions hav	ve standing wate be absence of in Pore Lining, M=Matri es Type	dicators.)	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S	or Problemat luck (LRR I, J) Prairie Redox (urface (LRR G	<u>ic Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Soils are sa iption (Descintration, D=Dep ric Soil Field A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge	ribe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) d Indicators (cheological pipedon istic en Sulfide	ce throughou ded to docu ix, CS=Covere %	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	d, and port	tions hav	ve standing wate be absence of in Pore Lining, M=Matri es Type	dicators.)	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F	or Problemat luck (LRR I, J) Prairie Redox (urface (LRR G Plains Depress	<u>ic Soils¹</u> (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w34-a1
VEGETATIO		e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>/// Cover</u>	Dominant	<u>inu.status</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					
4.	<u> </u>				Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	J				
8.	J				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					$- \frac{-}{0} \frac{-}{0} \frac{-}{1} $
	Total Cover =	0			FACW spp. 0 $x 2 = 0$
	-				OBL spp. 45 X 1 = 45 FACW spp. 0 X 2 = 0 FAC spp. 0 X 3 = 0 FACU spp. 10 X 4 = 40
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 $x 4 = 40$
1.					UPL spp. 10 $x 5 = 50$
2.					
3.					Total <u>65</u> (A) <u>135</u> (B)
4.					
5.					Prevalence Index = $B/A = 2.077$
6.					
7.					
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.	Carex pellita	45	Y	OBL	
2.	Elymus repens	10	N	FACU	
3.	Bromus inermis	10	N	UPL	present, unless disturbed or problematic.
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.					
15.		• -			Woody Vines - All woody vines, regardless of height.
	Total Cover =	65	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.	 				- Undependentia Magnetations Process(2)
3.	<u> </u>				Hydrophytic Vegetation Present? Y
5.					
4.	Total Cover =	0			
Remarks:	The wetland has open pockets of standing w		nareo noto	hes of Co	arex pellita throughout
remarks:	The wettand has open pockets of standing w	alei willi S	parse pato		
Additional F	Remarks:				