WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/19/14	'
Applicant:		Enbridge									County:	Marshall	
Investigators	:	BEH/RAJ				Subregion	า (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	116F							I Classification	า:				
Landform:	Talf					cal Relief:					Sample Point:	u-157n47w16-c6	
Slope (%):	0 - 2%		Latitude: 48			Longitude:			Datum:				
		nditions on the si				r? (If no, exp				□ No	Section:		
Are Vegetation		□, or Hydrology	•	•			Are	e normal circu	-	esent?	Township:		
Are Vegetation		□, or Hydrology	/ □aturally p	problemat	ic?			Yes	□ No		Range:	Dir:	
SUMMARY C													
Hydrophytic \	Vegetation P	resent?	No							s Present?			
Wetland Hyd	Irology Prese	nt?	No						Is This Sar	mpling Poin	t Within A W ϵ	etland? No	
Remarks:	The upland	sample point is lo	ocated in a g	grassland	domin	ated by sn	nooth br	ome and Kent	tucky bluegra	ass, adjacer	nt to an oxbow	/ channel.	
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check a	all that apply:	Minimum	of one	e primary o	or two se	econdary requ	ired):				
Primary:	•	ioatoro (orrock a	in that apply,	IVIII III III III	01 0110	o primary .	01 (110 0)	occitatily roqu		Secondary:			
	A1 - Surface \	Water				B11 - Salt (Crust				B6 - Surface So	oil Cracks	
☐ A2 - High Water Table						B13 - Aqua	tic Fauna					egetated Concave Surface	
	A3 - Saturatio					C1 - Hydro					B10 - Drainage		
	B1 - Water M					C2 - Dry Se			a Booto (not till	, –		Rhizospheres on Living Roots (til	led)
	B2 - Sedimen B3 - Drift Dep	•				C3 - Oxidiz		spheres on Living	g Roots (not till	, <u> </u>	C8 - Crayfish B	Visible on Aerial Imagery	
	B4 - Algal Ma					C7 - Thin M					D2 - Geomorph		
	B5 - Iron Dep					Other (Expl					D5 - FAC-Neut		
		n Visible on Aerial Ir	magery				ŕ				D7 - Frost-Hea	ved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves											
Field Observ													
Surface Wate	er Present?	Yes □	De	pth:		(in.)			Wetland H	lydrology F	Present?	N	
Water Table	Present?	Yes □	De	pth:		(in.)			Wettaria i	iyarology i	resent:		
Saturation P	resent?	Yes □	De	pth:		(in.)							
Describe Rec	orded Data (s	stream gauge, mor	nitoring well, a	aerial phot	os, pre	vious insp	ections),	if available:					
	<u> </u>			· · · · · · · · · · · · · · · · · · ·			ections),	if available:					
Describe Reco	<u> </u>	stream gauge, mor or secondary hyd		· · · · · · · · · · · · · · · · · · ·			ections),	if available:					
	<u> </u>			· · · · · · · · · · · · · · · · · · ·			ections),	if available:					
Remarks: SOILS Profile Descri	No primary	or secondary hyd	drological ind	dicators we	ere obs	served.	onfirm the	e absence of i					
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Remarks: SOILS Profile Descri	No primary	or secondary hyd be to the depth n etion, RM=Reduced M	drological ind	dicators we	ere obs	served.	onfirm the	e absence of i ore Lining, M=Ma					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hyd be to the depth n etion, RM=Reduced M	drological ind needed to do Matrix, CS=Cove	cument th	ere obs	cator or co	onfirm the	e absence of i ore Lining, M=Ma	trix)				
Remarks: SOILS Profile Descri	No primary iption (Descri	or secondary hydelegenerate be to the depth netion, RM=Reduced Matrix Color (Moist)	drological ind needed to do Matrix, CS=Cove	cument th	ere obs	cator or co	onfirm the	e absence of i ore Lining, M=Ma		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary iption (Descri	be to the depth netion, RM=Reduced Matrix Color (Moist) 3/2	needed to do	cument the ered/Coated	ere obs	cator or co	onfirm the	e absence of i ore Lining, M=Ma	trix)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary iption (Descri	be to the depth netion, RM=Reduced Matrix Color (Moist) 3/2	needed to do	cument the ered/Coated	ere obs	cator or co	onfirm the	e absence of i ore Lining, M=Ma	trix)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary iption (Descri	be to the depth netion, RM=Reduced Matrix Color (Moist) 3/2	needed to do	cument the ered/Coated	ere obs	cator or co	onfirm the	e absence of i ore Lining, M=Ma	trix)	LFS		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-21	No primary iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hyd be to the depth n etion, RM=Reduced N Matrix Color (Moist) 3/2 4/2	needed to do	cument the ered/Coated	e indice Sand G	cator or co	onfirm the	e absence of i ore Lining, M=Ma	trix)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-21	No primary iption (Descri	or secondary hyd be to the depth n etion, RM=Reduced N Matrix Color (Moist) 3/2 4/2	needed to do	cument the ered/Coated	e indice Sand G	cator or co	onfirm the	e absence of i ore Lining, M=Ma es Type	trix)	LFS LFS	or Problematic		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-21 NRCS Hydr	No primary iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hyd be to the depth n etion, RM=Reduced N Matrix Color (Moist) 3/2 4/2	needed to do	cument the ered/Coated % COOO 00 indicators	e indice Sand Good	cator or co Grains; Locat Moist)	onfirm the	e absence of i ore Lining, M=Ma es Type	Location	LFS LFS	or Problematic		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	or secondary hyd be to the depth n etion, RM=Reduced N Matrix Color (Moist) 3/2 4/2 Indicators (colorate)	needed to do	indicators S5 - Si S6 - Si F1 - Lo	e indicate of sand Grand	cator or co Grains; Locat Moist) ot presentedox Matrix ucky Minera	Mottle %	e absence of i ore Lining, M=Ma es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (I urface (LRR G)	: Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydebe to the depth netion, RM=Reduced Matrix Color (Moist) 3/2 4/2 Indicators (completed in Sulfide)	needed to do	cument the ered/Coated % COOO OO indicators S5 - Si S6 - Si S6 - Si F1 - Lo	e indicate of sand Color (Note of sand Color (cator or co Grains; Locat Moist) ot present edox Matrix ucky Minera leyed Matrix	Mottle %	e absence of i ore Lining, M=Ma es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	uck (LRR I, J) Prairie Redox (l urface (LRR G) l'ains Depressio	: Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth netion, RM=Reduced Matrix Color (Moist) 3/2 4/2 Indicators (completed in Sulfide Layers (LRR FGH) and Below Dark Surface of Surface Control of the Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface of Surface Color (LRR FGH) and Below Dark Surface Of Surface Color (LRR FGH) and Below Dark Surf	needed to doo Matrix, CS=Cove 10 10 check here if	indicators S5 - Si S6 - Si S6 - Si F1 - Lo F2 - Lo F6 - Ri F7 - Do	e indices and Color (Note and Sepleted and S	cator or co Grains; Locat Moist) ot present edox Matrix ucky Minera leyed Matrix Matrix ark Surface Dark Surface	Mottle %	e absence of i ore Lining, M=Ma es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio ed Vertic arent Material Shallow Dark S	E Soils¹ LRR F, G, H) INS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-157n47w16-c6
VEGETATION	(Species identified in all uppercase ar	e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0
	Total Cover =	0			FACW spp 0
					OBL spp. 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp45
1.	Fraxinus pennsylvanica	2	N	FAC	UPL spp55
2.					
3.					Total 107 (A) 476 (B)
4.					
5.					Prevalence Index = B/A = 4.449
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	2			Prevalence Index is ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	55	Υ	UPL	
2.	Poa pratensis	45	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Solidago gigantea	5	N.	FAC	present, unless disturbed or problematic.
4.	Contago giganica				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.					FIGID - Farmer second (No. 11 cody), Flame, regularized or older
14.					
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Caver	405			Woody Villes - All Woody Villes, Togardioss of Height.
	Total Cover =	105	_		
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.					
2.					Uhadaaahada Waadadaa Baada O N
3.					Hydrophytic Vegetation Present?N
5.					
4.	7.10				
<u> </u>	Total Cover =				
Remarks:	The sample point is dominated by smooth br	ome and k	Centucky b	luegrass.	
Additional R	emarks:				
1					