WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	07/31/14
Applicant:		Enbridge									County:	Marshall
Investigators		KRG/NTT				Subregion	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	124A							Classification:				
Landform:	Talf				Loc	cal Relief:					Sample Point:	u-156n46w35-a1
Slope (%):	0 - 2%		Latitude: 48			Longitude:			Datum:			
		nditions on the site				Ir? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology □	•	•			Are	normal circum	istances pre	esent?	Township:	
Are Vegetation		, ,	□aturally	problema	atic?			Yes	□ No		Range:	Dir:
SUMMARY C												
Hydrophytic '			No							s Present?		
	Irology Prese		No								t Within A We	
Remarks: The upland point is located in an uncultivated corner between two agricultural fields. Vegetation is a diverse mix of forbs and grasses, dominated by alfalfa,												
wild rye, and white clover.												
HYDROLOG	Υ											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):												
Primary	•	Caron (Cricon am c	,			, p		, , , , , , , , , , , , , , , , , , ,		Secondary:		
						B11 - Salt 0	Crust				B6 - Surface S	oil Cracks
						B13 - Aqua					B8 - Sparsely \	Vegetated Concave Surface
	A3 - Saturatio					C1 - Hydro					B10 - Drainage	
	B1 - Water Ma					C2 - Dry Se			Dooto (not till			Rhizospheres on Living Roots (tilled)
	B2 - Sediment B3 - Drift Dep	•				C3 - Oxidiz		spheres on Living	Roots (not tille		C8 - Crayfish E	Burrows In Visible on Aerial Imagery
	B4 - Algal Mat					C7 - Thin M				i	D2 - Geomorpl	
	B5 - Iron Depo					Other (Expl		100		<u> </u>	D5 - FAC-Neut	
	•	n Visible on Aerial Ima	agery		_	- (- xp.	· · · · · · ·					aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										, ,
Field Observ	vations:											
Surface Wat	er Present?	Yes □	De	pth:		(in.)			VA/ = (1 =1 1 1		D	N.I.
Water Table		Yes □		pth:		(in.)			wetland H	lydrology l	Present?	N
Saturation P		Yes □		pth:		(in.)						_
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (c	tream gauge monite	oring well	oprial pho	otoe pre		ections)	if available:				
	<u> </u>				otos, pre		ections),	if available:				
Describe Rec Remarks:	<u> </u>	tream gauge, monito hydrology indicators			otos, pre		ections),	if available:				
Remarks:	<u> </u>				otos, pre		ections),	if available:				
Remarks:	No wetland	hydrology indicators	s were ob	served.	·	evious insp	·		dicators)			
Remarks: SOILS Profile Descri	No wetland	hydrology indicators be to the depth nee	eded to do	served.	he indic	evious inspectator or co	onfirm the	e absence of in				
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Remarks: SOILS Profile Descri	No wetland	hydrology indicators be to the depth nee	eded to do	served.	he indic	evious inspectator or co	onfirm the	e absence of incore Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicators be to the depth nee etion, RM=Reduced Mat Matrix	eded to do	cument t	he indiced Sand C	evious inspectator or co	onfirm the ion: PL=Pe	e absence of in ore Lining, M=Matri	x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descri	hydrology indicators be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	eded to do	cument tered/Coate	he indic	evious inspectator or co	onfirm the	e absence of incore Lining, M=Matri		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18	No wetland iption (Descri	hydrology indicators be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/2	eded to do	cument tered/Coate	che indiced Sand Color (N	cator or co Grains; Locat	Mottle	e absence of in ore Lining, M=Matri	x)	CL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18	No wetland iption (Descrintration, D=Depleted) Hue_10YR Hue_10YR	hydrology indicators be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/2	eded to do trix, CS=Cov	cument tered/Coate	che indiced Sand Color (N	cator or co Grains; Locat	Mottle	e absence of incore Lining, M=Matri	x)	CL LS	or Problematic	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His	hydrology indicators be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/2 Indicators (che	eded to do trix, CS=Cov	cument tered/Coate	Color (Noted Sand Color (Noted Sandy Residue) Sandy Residue) Sandy Residue (Noted Stripped)	cator or co Grains; Locat Moist) ot present	Mottle %	e absence of incore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger	hydrology indicators be to the depth need ion, RM=Reduced Mate Matrix Color (Moist) 2/1 3/2 Indicators (checking Sulfide)	eded to do trix, CS=Cov	indicato	che indiced Sand Color (No. 1997) The same of the sam	cator or co Grains; Locat Moist) ot present edox Matrix ucky Minera	Mottle %	e absence of incore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic	c Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	hydrology indicators be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/2 Indicators (che ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH)	eded to do trix, CS=Cov	indicato	che indiced Sand Codor (No. 1997) Sandy Results of Stripped Loamy Mandal Codor (No. 1997) Sandy Results of Stripped Loamy Mandal Codor (No. 1997) Sandy Results of Stripped Loamy Mandal Codor (No. 1997)	evious inspectator or configurations; Located Moist) ot present edox Matrix leyed Matrix Matrix matrix ark Surface	Mottle %	e absence of incore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	hydrology indicators be to the depth need ion, RM=Reduced Mate Matrix Color (Moist) 2/1 3/2 Indicators (check in Sulfide Layers (LRR FGH) ck (LRR FGH) de Below Dark Surface	eded to do trix, CS=Cov	indicato	che indiced Sand Color (No. 1997) The same of the sam	evious inspectator or configurations; Located Moist) ot present edox Matrix lucky Mineral leyed Matrix Matrix mark Surface Dark Surface	Mottle %	e absence of incore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils ¹ ELRR 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: u-156n46w35-a1
,					· · · · · · · · · · · · · · · · · · ·
VEGETATIO	N (Species identified in all uppercase ar	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: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					·
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					(742)
8.					Prevalence Index Worksheet
9.					4
10.					Total % Cover of: OPL one OPL one OPL one Multiply by:
10.	_l Total Cover =	0			CON one
	Total Cover =		_		FACTOR Spp. $\frac{5}{2}$ \times $\frac{2}{3}$
0 1: (0) 1 (0. (0. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1				OBL spp. 0 x 1 = 0 FACW spp. 5 x 2 = 10 FAC spp. 0 x 3 = 0 FACU spp. 65 x 4 = 260
	Stratum (Plot size: 15 ft. radius)				FACU spp. 65 X 4 = 260
1.					UPL spp. 45 $x = 225$
2.					
3.	<u> </u>				Total 115 (A) 495 (B)
4.					
5.					Prevalence Index = B/A = 4.304
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Medicago sativa	40	Υ	NI	Froblem Hydrophytic Vegetation (Explain)
					* Indicators of hydric soil and wetland hydrology must be
2.	Elymus repens	20	Y	FACU	present, unless disturbed or problematic.
3.	Trifolium repens	20	<u> </u>	FACU	·
4.	Phleum pratense	15	N	FACU	Definitions of Vegetation Strata:
5.	Bromus inermis	5	N	UPL	_
6	Hordeum jubatum	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Melilotus officinalis	5	N	FACU	height (DBH), regardless of height.
8.	Ambrosia artemisiifolia	5	N	FACU	
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.
10.	Total Cover =	115			
	Total Cover =	113	_		
Manaka Viran Ota					
	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?N
5.					
4.					
	Total Cover =				
Remarks:	Vegetation is a diverse mix of forbs and gras	sses, domii	nated by a	lfalfa, wilc	d rye, and white clover.
Additional R	Remarks:				
, additional it					