## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14
Applicant:		Enbridge								County:	Marshall
Investigators:				Subregion (MLRA			r LRR):	MLRA 56		State:	MN
Soil Unit:	165A			_		NWI C	Classification:	PEMAd			
Landform:	Talf			Lo	cal Relief:	LL				Sample Point:	u-155n46w3-e1
Slope (%):	0 - 2%		Latitude: 48.27	73398	Longitude:	-96.55066	52	Datum:			
Are climatic/h	hydrologic co	nditions on the site	e typical for th	is time of ye	ar? (If no, exp	lain in remarks	s)	Yes	□ No	Section:	
Are Vegetation	on 🗵 Soil	☑, or Hydrology	⊏significantly	disturbed?		Are n	ormal circun	nstances pre	esent?	Township:	
Are Vegetation		□, or Hydrology	•				□ Yes	☑ No		Range:	Dir:
SUMMARY C			, ,							Ü	
Hydrophytic \			No					Hydric Soil	s Present?	No	
Wetland Hyd			No		_					t Within A W	etland? <b>No</b>
Remarks:				to sovheans	The area	may have	heen draine				regetation is disturbed from
remarks.			-	-		-		-			d conditions are present.
HADBOLOGA		ierbiciae ase. The	Soli is distuib	ed Horr tillaç	ge. Though	i tile politi	15 Within and	1001 polygor	i, no indica	itors or wettan	d conditions are present.
HYDROLOGY	Υ										
		icators (Check all	that apply; M	inimum of or	ne primary o	or two seco	ondary requi	red):			
Primary:									Secondary:		
	A1 - Surface \				B11 - Salt C					B6 - Surface S	
	A2 - High Wat				B13 - Aquat		O dan				Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma					gen Sulfide C eason Water				B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen				,		nable neres on Living	Roots (not till	□ • □	C8 - Crayfish E	
	B3 - Drift Dep	•				nce of Reduc		rtoots (not till	, –	•	n Visible on Aerial Imagery
	B4 - Algal Mat					luck Surface			_	D2 - Geomorp	
	B5 - Iron Dep				Other (Expl	ain)				D5 - FAC-Neut	
	B7 - Inundatio	n Visible on Aerial Im	nagery		` .	•				D7 - Frost-Hea	eved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Depth	:	(in.)			\A/-4		D	N I
Water Table	Present?	Yes □	Depth		- (in.)			wetland F	lydrology l	Present?	N
Saturation Pr		Yes □	Depth		_ ` ′						<del></del>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
D	l l <b>- D</b> - ( / -		<u>'</u>		_ (in.)	2.21.2.2.2.16	9-1-1-				
	<u>`</u>	stream gauge, moni	itoring well, aeı	ial photos, pr		ections), if a	available:				
Describe Reco	<u>`</u>		itoring well, aeı	ial photos, pr		ections), if a	available:				
Remarks:	<u>`</u>	stream gauge, moni	itoring well, aeı	ial photos, pr		ections), if a	available:				
Remarks:	No indicator	stream gauge, moni	itoring well, aei	rial photos, pr served.	evious inspe	·					
Remarks:  SOILS Profile Descri	No indicator	stream gauge, monings of wetland hydro	itoring well, aer	rial photos, preserved.	evious inspe	nfirm the a	absence of in				
Remarks:  SOILS Profile Descri	No indicator	stream gauge, moni	itoring well, aer	rial photos, preserved.	evious inspe	nfirm the a	absence of in				
Remarks:  SOILS Profile Descri	No indicator	stream gauge, monings of wetland hydrouse to the depth neetion, RM=Reduced Ma	itoring well, aer	rial photos, preserved.	evious inspe	nfirm the a	absence of in Lining, M=Matr				
Remarks:  SOILS Profile Descri (Type: C=Concen	No indicator	stream gauge, monitors of wetland hydrous be to the depth ne etion, RM=Reduced Ma	ology were observed to document atrix, CS=Covere	rial photos, preserved.  ment the indicated Sand	evious inspectator or co	nfirm the a ion: PL=Pore Mottles	absence of in Lining, M=Matr	ix)			
Remarks:  SOILS Profile Descri	No indicator	stream gauge, monings of wetland hydrouse to the depth neetion, RM=Reduced Ma	itoring well, aer	rial photos, preserved.	evious inspectator or co	nfirm the a	absence of in Lining, M=Matr		Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concen	No indicator	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	ology were observed to document atrix, CS=Covere	ment the indid/Coated Sand	evious inspectator or co	nfirm the a ion: PL=Pore Mottles	absence of in Lining, M=Matr	ix)	Texture LFS		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concen	No indicator iption (Descri	be to the depth ne etion, RM=Reduced Marix  Color (Moist)	itoring well, aerology were observed to docuratrix, CS=Covere	rial photos, preserved.  ment the indicated Sand  Color (	evious inspectator or co	nfirm the a ion: PL=Pore Mottles	absence of in Lining, M=Matr	ix)			Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-12	No indicator	be to the depth ne etion, RM=Reduced Marix  Color (Moist)	eeded to docuratrix, CS=Covere	rial photos, preserved.  ment the indicated Sand  Color (	evious inspectator or co	nfirm the a ion: PL=Pore Mottles	absence of in Lining, M=Matr	ix)	LFS		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-12 12-18	No indicator iption (Descri	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2	eeded to docuratrix, CS=Covere	rial photos, preserved.  ment the indicated Sand  Color (	evious inspectator or co	nfirm the alion: PL=Pore  Mottles %	absence of in Lining, M=Matr	ix)	LFS		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-12 12-18	No indicator iption (Descri	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2	eeded to docuratrix, CS=Covere	rial photos, preserved.  ment the indicated Sand  Color (	evious inspectator or co	nfirm the alion: PL=Pore  Mottles %	absence of in Lining, M=Matr	ix)	LFS FS		
Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-12 12-18	No indicator iption (Descriptration, D=Deplete Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2	eeded to docuratrix, CS=Covere	cial photos, preserved.  ment the indicators are indicators are indicators.	cator or co Grains; Locati	nfirm the alion: PL=Pore  Mottles %	absence of in Lining, M=Matr	Location	LFS FS	or Problematic	
Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-12 12-18	No indicator  Iption (Descriptration, D=Depleted on the properties of the properties	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 4/2 Indicators (ch	eeded to docuratrix, CS=Covere	color ( Standard Sandard Sanda	cator or co Grains; Locati  Moist)  not present	nfirm the alion: PL=Pore  Mottles %	absence of in Lining, M=Matr	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-12 12-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1  4/2  Indicators (characters)	eeded to docuratrix, CS=Covere	cial photos, preserved.  ment the indicators are in the served served.  Color (  S5 - Sandy For S6 - Stripped	evious inspectator or cograins; Location Moist)  Moist)  not present Redox I Matrix	nfirm the a fon: PL=Pore  Mottles %	absence of in Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-12 12-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1 4/2  Indicators (characters)	eeded to docuratrix, CS=Covere	cial photos, preserved.  ment the indicators are in the served served.  Color (served)  Color (served)  Solution served served served.	cator or co Grains; Locati Moist)  not present Redox I Matrix Mucky Minera	nfirm the ation: PL=Pore  Mottles %	absence of in Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox ( urface (LRR G)	Soils <sup>1</sup> LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-12 12-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1  4/2  Indicators (characters)	eeded to docuratrix, CS=Covere    %   100	color ( Served.  The individual coated Sand  Color (  Solicators are in the served served)  Solicators are in the served	cator or co Grains; Locati  Moist)  not present Redox I Matrix Mucky Minera Gleyed Matrix	nfirm the ation: PL=Pore  Mottles %	absence of in Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-12 12-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1 4/2  Indicators (chair)  ipedon stic on Sulfide Layers (LRR F)	eeded to docuratrix, CS=Covere	color ( Served.  ment the indid/Coated Sand  Color (  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	cator or co Grains; Locati Moist)  Moist)  not present Redox I Matrix Mucky Minera Gleyed Matrix d Matrix	nfirm the ation: PL=Pore  Mottles %	absence of in Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic	Soils <sup>1</sup> LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-12 12-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1  4/2  Indicators (characters)  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to docuratrix, CS=Covere    %	color (  Served.  The individual of the individu	cator or co Grains; Locati  Moist)  not present Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface	nfirm the ation: PL=Pore  Mottles %	absence of in Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression red Vertic Parent Material	E Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-12 12-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1  4/2  Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to docuratrix, CS=Covere    Matrix	color (  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox E F7 - Depleted	cator or co Grains; Locati  Moist)  not present Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	nfirm the ation: PL=Pore  Mottles %	absence of in Lining, M=Matr	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 <sup>1</sup> 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: u-155n46w3-e1
VEGETATIO	N (Species identified in all uppercase a	re 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: 1 (B)
5.					<u></u> ` `
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 × 1 - 0
10.	_l Total Cover =	0			OBL spp. 0
	Total Cover -				EAC app.
Combiner/Observib	Othertone (Diet einer 45 ft. neditie)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Stratum (Plot size: 15 ft. radius)	1			$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.					
2.					
3.					Total 100 (A) 500 (B)
4.					_
5.					Prevalence Index = B/A = 5.000
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 *
			<u> </u>		Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	100	Υ	NI	Troblem rigarophytic vegetation (Explain)
2.	Glycine max	100	<u>'</u>	111	* Indicators of hydric soil and wetland hydrology must be
					present, unless disturbed or problematic.
3.					
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.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	= 100			1
	Total Cover =	100			
\\\   - \\ \\ \\   - \\ \\ \\ \\ \\ \\ \\ \\ \\ \ \\ \\ \\	return (Plat eines 00 ft, redison)				
woody vine St	ratum (Plot size: 30 ft. radius)				-
1.					
2.					-
3.					Hydrophytic Vegetation Present?N
5.					
4.					
	Total Cover =				
Remarks:	The upland is dominated by healthy soybea	ns.			
Additional F	Pomarke:				
Additional	AGIIIAI NO.				