WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/23/14
Applicant:		Enbridge									County:	Marshall
Investigators		BEH/NTT				Subregior	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	I70A							I Classification:				
Landform:	Talf					cal Relief:					Sample Point:	u-155n45w34-e1
Slope (%):	0 - 2%		Latitude: 48			Longitude:			Datum:			
Are climatic/h	nydrologic co	nditions on the site	te typical for	r this tii	me of yea	r? (If no, exp	lain in rema	arks)	Yes	□ No	Section:	
Are Vegetation	on 🗵 Soil	☑, or Hydrology	⊏significar	ntly dis	sturbed?		Are	e normal circum	nstances pre	esent?	Township:	
Are Vegetation	on 🛭 Soil	□, or Hydrology	□aturally p	probler	matic?			✓ Yes	□ No		Range:	Dir:
SUMMARY C	OF FINDINGS	3										
Hydrophytic \	Vegetation P	resent?	No)					Hydric Soil	ls Present?	No	
Wetland Hyd	Irology Prese	nt?	No)					Is This Sar	mpling Poin	t Within A W	etland? No
Remarks:	The upland	sample point is lo	cated in a s	soybea	ın field, ad	ljacent to a	a wet me	eadow/marsh w	etland com	plex.		
										•		
HYDROLOG	Υ											
		inatora (Chaak all	I that apply	Minim	num of one	n primary (or two or	ooondory roqui	rod\.			
Primary:	•	icators (Check all	ir that apply;	, iviinim	ium oi one	e primary o	or two se	econdary requi	ea):	Socondoru,		
	<u>.</u>	Nater			П	B11 - Salt (Crust			Secondary:	B6 - Surface S	Soil Cracks
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio					C1 - Hydrog					B10 - Drainage	
	B1 - Water Ma	arks				C2 - Dry Se	eason Wa	iter Table				Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•						spheres on Living	Roots (not till	• 🗆	C8 - Crayfish E	
	B3 - Drift Dep					C4 - Preser						n Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M		ace			D2 - Geomorp	
	B5 - Iron Depo	osits In Visible on Aerial Im	magery		П	Other (Expl	ain)				D5 - FAC-Neu	trai Test aved Hummocks (LRR F)
	B9 - Water-St		nagery								D7 - F1051-F166	aved Fidiliffocks (LKK F)
	Do Water Ct	allica Loaves										
Field Observ	vations:											
		Voc. □	Do	nth.		(in)						
Surface Water		Yes		epth:		(in.)			Wetland H	lydrology F	Present?	N
Water Table		Yes		epth:		(in.)						
Saturation Pr	resent?	Yes □	De	epth:		(in.)						
						(33.33)						
Describe Reco	orded Data (s	stream gauge, mon	nitoring well, a	aerial p	ohotos, pre		ections),	if available:				
Describe Reco	•	stream gauge, moni			•	vious insp	ections),	if available:				
	•					vious insp	ections),	if available:				
	•					vious insp	ections),	if available:				
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary hydr	rological ind	dicators	s were obs	evious insposerved.	onfirm the	e absence of in				
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Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary hydr be to the depth ne etion, RM=Reduced Ma	rological ind	dicators	s were obs	evious insposerved.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary hydr be to the depth ne etion, RM=Reduced Ma	rological ind eeded to do fatrix, CS=Cove	cumen	s were obs	served. cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)			
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary hydr be to the depth ne etion, RM=Reduced Ma	rological ind eeded to do fatrix, CS=Cove	dicators	s were obs	served. cator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary hydr be to the depth ne etion, RM=Reduced Ma	rological independent of the record of the r	cumen	s were obs	served. cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture SCL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to do	cumen rered/Co	s were obs	served. cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)			Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to do	ocumen rered/Cos	s were obs	served. cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)			Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	No primary ption (Descrintration, D=Depleter Depleter) Hue_10YR Hue_10YR	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1	eeded to do	ocument vered/Cod	t the indicated Sand G	evious insposerved. cator or coerains; Locat Moist)	onfirm the	e absence of in ore Lining, M=Matr es Type	ix)			Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descrintration, D=Depleter Depleter) Hue_10YR Hue_10YR	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1	eeded to do	ocument vered/Cod	t the indicated Sand G	evious insposerved. cator or coerains; Locat Moist)	onfirm the	e absence of in ore Lining, M=Matr	ix)	SCL C		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descrintration, D=Deplete Hue_10YR Hue_10YR ic Soil Field	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1	eeded to do	cument rered/Co.	ctors are n	evious insposerved. cator or coerains; Locat Moist) ot present	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	SCL C	or Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descrintration, D=Deplete Hue_10YR Hue_10YR ic Soil Field A1- Histosol	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (ch	eeded to do	cumentered/Cost % 00 00 indica	Color (Notes are notes are	evious insposerved. Cator or cograins; Locat Moist) ot presented	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	SCL C Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descrintration, D=Deplete Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (chain in the color i	eeded to do	cumentered/Co.	Color (Notes are notes are series) Stripped	evious insposerved. cator or cograins; Locat Moist) ot present edox Matrix	mfirm the ion: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descrintration, D=Deplete Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (chaine)	eeded to do	cumentered/Cos % 00 00 indica S5 S6 F1	Color (Note: Stripped - Loamy More obs	evious insposerved. Cator or coerains; Locat Moist) ot presentedox Matrix ucky Minera	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	Ption (Descrintration, D=Deplementation, D=Deple	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (chain in Sulfide	eeded to do	cumentered/Cost % 00 00 indica \$5 \$6 \$6 \$7 \$1	Color (Notes are notes are	evious insposerved. Cator or cograins; Locat Moist) ot present edox Matrix ucky Mineral leyed Matrix	Mottle %	e absence of in ore Lining, M=Matr es Type	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 Depressio	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	htration, D=Deplementation, D=	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (chain Sulfide Layers (LRR F)	eeded to do	cumentered/Cos % 00 00 indica S5 S6 F1 F2 F3	Color (Note: Stripped - Loamy More obs	evious insposerved. Cator or coerains; Locat Moist) ot present edox Matrix ucky Mineral leyed Matrix Matrix	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	ption (Descrintration, D=Deplementation, D=Deple	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (chain in Sulfide	eeded to doo latrix, CS=Cove	indica S5 S6 F1 F2 F3 F6	Color (No. 2) Stripped Coamy March Loamy Good Depleted Color Redox Day Color (No. 2)	evious insposerved. Cator or coerains; Locat Moist) ot present edox Matrix ucky Mineral leyed Matrix Matrix	Mottle %	e absence of in ore Lining, M=Matr es Type	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 Depression eed Vertic	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deple	be to the depth neetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 7/1 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to doo latrix, CS=Cove	Cumen rered/Cos	Color (No. 2) Store observed and Grand Gr	evious insposerved. Cator or coerains; Locat Moist) ot present edox Matrix ucky Mineral leyed Matrix Matrix ark Surface park Surface park Surface	Mottle %	e absence of inore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed 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: u-155n45w34-e1
					·
VEGETATIO		are non-native spe	ecies.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	<u>% Cover</u> <u>Do</u>	<u>ominant</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.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0
	Total Cover	=0			FACW spp. $0 x 2 = 0$
					FAC spp. $0 x 3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				OBL spp. 0
1.					UPL spp. $60 X 5 = 300$
2.					
3.					Total 60 (A) 300 (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 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	60	Υ	NI	
2.					* Indicators of hydric soil and wetland hydrology must be
3.					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.	<u></u>	1		_	†
14.	, [1			1
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover	= 60			
	Total Cover				
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1	Tatum (Flot size. 30 ft. faulus)				
2.	-	=			
3.				-	Hydrophytic Vogetation Present?
5.	<u> </u>				Hydrophytic Vegetation Present? N
4.	<u> </u>				
4.	Total Cover	= 0		_	
Remarks:					
Remarks.	Sample site dominated by cultivated soybe	an.			
Additional R	Remarks:				