WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14	
Applicant: Enbridge							County:	Marshall				
Investigators: BJC/RAJ Soil Unit: I65A			Subregion (MLRA or LRR): MLRA 56							State:	MN	
Soil Unit:	NWI Classification:											
Landform:	Talf				cal Relief:					Sample Point:	u-156n46w33-c1	
Slope (%):	0 - 2%		le: 48.29		Longitude			Datum:				
		nditions on the site typic			ar? (If no, ex				□ No	Section:		
Are Vegetation			ificantly	disturbed?		Are	e normal circun	nstances pro	esent?	Township:		
Are Vegetation	on □ Soil	□, or Hydrology □atu	rally prol	blematic?			Yes	□ No		Range:	Dir:	
SUMMARY C	OF FINDING:	5										
Hydrophytic \	Vegetation P	resent?	No		_		Hydric Soils Present? No					
Wetland Hydrology Present?								etland? No				
Remarks:	The upland	sample point is located	in a culti	vated soybe	ean field or	n very fla	t land. The veg	etation is si	gnificantly c	listurbed due	to herbicide application, and the	
	soils are sig	nificantly disturbed due	to tilling.									
HYDROLOG	Υ											
Wetland Hy Primary:	•	icators (Check all that a	pply; Mii	nimum of or	ne primary	or two s	econdary requi	red):	Secondary:			
<u> </u>	A1 - Surface \	Nater			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aqua	atic Fauna				B8 - Sparsely	Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M				C2 - Dry S		Rhizospheres on Living Roots (tilled)					
	B2 - Sedimen	•			C3 - Oxidiz		l€	C8 - Crayfish E				
	B3 - Drift Dep B4 - Algal Ma				C7 - Thin I		duced Iron		H	D2 - Geomorp	n Visible on Aerial Imagery	
	B5 - Iron Dep				Other (Exp		200			D5 - FAC-Neu		
	•	n Visible on Aerial Imagery		_	O 11.01 (LX)	,,,,,,			_		aved Hummocks (LRR F)	
	B9 - Water-St										,	
F'	- 4*											
Field Observ					<i>(</i> !)							
Surface Water		Yes	Depth:		_ (in.)			Wetland F	lydrology I	Present?	N	
Water Table		Yes	Depth:		_ (in.)				.,		<u> </u>	
Saturation Pr	resent?	Yes	Depth:		_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No indicators of wetland hydrology were observed.												
Remarks:	No indicato		-			, , , , , , , , , , , , , , , , , , ,	ii avaliable.					
Remarks:	No indicato		-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii avaliable.					
SOILS	No indicato		-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii avaliable.					
SOILS Profile Descri	iption (Descri	be to the depth needed	vere obs	erved.	icator or co	onfirm th	e absence of ir					
SOILS Profile Descri	iption (Descri	rs of wetland hydrology v	vere obs	erved.	icator or co	onfirm th	e absence of ir					
SOILS Profile Descri	iption (Descri	be to the depth needed etion, RM=Reduced Matrix, CS	vere obs	erved.	icator or co	onfirm th	e absence of ir ore Lining, M=Matr					
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed etion, RM=Reduced Matrix, CS	vere obs to docun S=Covered	nent the indi	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)				
SOILS Profile Descri	iption (Descri	be to the depth needed etion, RM=Reduced Matrix, CS	vere obs	erved.	icator or co Grains; Loca	onfirm th	e absence of ir ore Lining, M=Matr		Texture		Remarks	
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed etion, RM=Reduced Matrix, CS	vere obs to docun S=Covered	nent the indi	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)	Texture LFS		Remarks	
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1	to docun	nent the indi	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)			Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1	to docun S=Covered % 100	nent the indi	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)	LFS		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1	to docun S=Covered % 100	nent the indi	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)	LFS		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1	to docun S=Covered % 100	nent the indi	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)	LFS		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1	to docun S=Covered % 100	nent the indi	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)	LFS		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3	were observed to document with the document with	nent the indi	icator or co Grains; Loca (Moist)	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Matr	rix)	LFS		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3	were observed to document with the document with	nent the indi	icator or co Grains; Loca (Moist)	onfirm th tion: PL=P Mottl	e absence of inore Lining, M=Matrees Type	rix)	LFS FS	or Problematic		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_Stic Soil Field	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3	were observed to document with the document with	nent the indi //Coated Sand Color (icator or co Grains; Loca (Moist)	onfirm th tion: PL=P Mottl	e absence of inore Lining, M=Matrees Type	Location	LFS FS	or Problemation		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check he	were observed to document with the document with	nent the indi	Moist) not presented	onfirm th tion: PL=P Mottl	e absence of inore Lining, M=Matrees Type	Location	LFS FS Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils ¹	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 3/1 5/3 Indicators (check heigheden)	were observed to document with the document with	nent the indi Coated Sand Color (icators are i	icator or congrains; Local (Moist) not presented a Matrix	Mottle %	e absence of inore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast		c Soils ¹ (LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check heads)	were observed to document with the document with	nent the indi //Coated Sand Color (licators are i S5 - Sandy R S6 - Stripped	icator or co Grains; Loca (Moist) not presented Matrix Mucky Miner	mottle with the state of the st	e absence of inore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check he ipedon stice in Sulfide Layers (LRR F)	were observed to document with the document with	Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	icator or congrains; Local (Moist) not present Additional Matrix Mucky Miner Gleyed Matrix d Matrix	mottle with the state of the st	e absence of inore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic	c Soils ¹ (LRR F, G, H)	
Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check he be stice in Sulfide Layers (LRR F) ck (LRR FGH)	were observed observe	Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D	icator or congrains; Local Moist) Moist) not present Redox Mucky Miner Gleyed Matrix Dark Surface	mottle which was all and the conformation which was all and the conformation with the co	e absence of inore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic arent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 3/1 5/3 Indicators (check he below batic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	were observed observe	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	Moist) Redox Mucky Miner Gleyed Matrix Mucky Surface d Matrix Dark Surface d Dark Surface	mottle which was a ce	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	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check he be be be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 3/1 5/3	were observed observe	Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	icator or congrains; Local (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	mottle with tion: PL=P Mottle with the content of	e absence of ir ore Lining, M=Matr 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 (urface (LRR G) Plains Depressioned Vertic arent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check he bette b	were observed observe	Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	icator or congrains; Local (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	mottle with tion: PL=P Mottle with the content of	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	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check he be be be be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 3/1 5/3 Indicators (check he be	were observed observe	Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	icator or congrains; Local (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	mottle with tion: PL=P Mottle with the content of	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check he be be be be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 3/1 5/3 Indicators (check he be	were observed observe	Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	icator or congrains; Local (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	mottle with tion: PL=P Mottle with the content of	e absence of ir 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 TF12 - Very Other (Explain	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 3/1 5/3 Indicators (check he be be be be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 3/1 5/3 Indicators (check he be	were observed observe	Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	icator or congrains; Local (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	mottle with tion: PL=P Mottle with the content of	e absence of ir 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 TF12 - Very Other (Explain	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Pl	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-156n46w33-c1
					<u> </u>
VEGETATIO	N (Species identified in all uppercase at	re 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.					<u></u> ` '
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					(742)
8.					Prevalence Index Worksheet
9.					Tradal (V. Corresponde)
					Total % Cover of: Multiply by:
10.	Total Cover				$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Total Cover =	0	_		Total % Cover or: Multiply by: OBL spp. 0 X 1 = 0 FACW spp. 0 X 2 = 0 FAC spp. 0 X 3 = 0 FACU spp. 0 X 4 = 0 UPL spp. 90 X 5 = 450
					$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Stratum (Plot size: 15 ft. radius)				
1.					UPL spp. $_{\underline{}}$ $_{\underline{}}$ $_{\underline{}}$ $_{\underline{}}$ $_{\underline{}}$ $_{\underline{}}$
2.					
3.					Total 90 (A) 450 (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%
10.	 Total Cover =	0			Prevalence Index is ≤ 3.0 *
	Total Cover =		_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			N.11	Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	90	Y	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.				_	-
					_
14.					All considerations and the lines
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	90	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.				_	
· · ·	Total Cover =	0			
Remarks:	The upland sample point is dominated by he		ans		
i Komarks.	The apiana sample point is dominated by He	January 30 y DE	ario.		
	_				
Additional F	Remarks:				