## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/22/14
Applicant:		Enbridge								County:	Marshall
Investigators		BJC/BEH/NTT			_Subregio	•	A or LRR):	MLRA 56		State:	MN
Soil Unit:	I53A			_			I Classification:	• 			
Landform:	Talf				cal Relief:					Sample Point	u-155n45w28-k1
Slope (%):	0 - 2%		itude: 48.21		_	-96.444		Datum:			
Are climatic/h	hydrologic co	nditions on the site type	pical for th	is time of ye	ar? (If no, ex	plain in rema	arks)	Yes	□ No	Section:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □s	ignificantly	disturbed?		Are	e normal circun	nstances pro	esent?	Township:	
Are Vegetation	on □ Soil	□, or Hydrology □a	aturally pro	blematic?			Yes	□ No		Range:	Dir:
<b>SUMMARY C</b>	OF FINDINGS	3									
Hydrophytic \	Vegetation P	resent?	No					Hydric Soi	Is Present?	No No	
Wetland Hyd	_		No		_					nt Within A W	/etland? <b>No</b>
Remarks:		sample point is locate		ivated sovbe	ean field ne	ear a slig	ht depression.		,		
				, , , , , , , , , , , , , , , , , , , ,		3	,				
HYDROLOG'	Υ										
		Santana (Obaali all tha	t analus Mi				· · ·	, , , , , , , , , , , , , , , , , , ,			
_	•	icators (Check all tha	at appiy; Mi	nimum of or	ne primary	or two s	econdary requi	rea):	0		
Primary:	<u>:</u>	Notor			B11 - Salt	Crust			Secondary:	<u>:</u> B6 - Surface S	Soil Crooks
	A1 - Surface A2 - High Wa				B13 - Aqua		1				Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainag	
	B1 - Water M			_	C2 - Dry S				_		Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	t Deposits					spheres on Living	Roots (not till	€ □	C8 - Crayfish	
	B3 - Drift Dep						duced Iron				n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin I		ace			D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
	B9 - Water-St	n Visible on Aerial Image	ery							D7 - Frost-He	eaved Hummocks (LRR F)
	D9 - Water-Si	airieu Leaves									
Field Observ	vations:										
			<b>5</b>		/! \						
Surface Water		Yes	Depth		_ (in.)			Wetland F	Hydrology	Present?	N
Water Table		Yes	Depth		_ (in.)						<del></del>
Saturation Pr	resent?	Yes	Depth	:	_ (in.)						
Dagarila a Dag	andad Data /a										
Describe Rece	orded Data (s	stream gauge, monitorir	ng well, aer	ial photos, pr	evious insp	pections),	if available:				
	<u> </u>				evious insp	pections),	if available:				
Remarks:	<u> </u>	stream gauge, monitoring of wetland hydrolog			evious insp	pections),	if available:				
Remarks:	<u> </u>				evious insp	pections),	if available:				
Remarks:	No indicator	rs of wetland hydrolog	y were obs	served.	·	,		ndicators.)			
Remarks:  SOILS Profile Descri	No indicator		y were obs	served.	icator or co	onfirm th	e absence of ir				
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Remarks:  SOILS Profile Descri	No indicator	rs of wetland hydrolog	y were obs	served.	icator or co	onfirm th	e absence of ir ore Lining, M=Matr				
Remarks:  SOILS Profile Descri	No indicator	be to the depth needs	y were obs	served.	icator or co Grains; Loca	onfirm th	e absence of ir ore Lining, M=Matr		Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist)	ed to docur , CS=Covered	nent the ind	icator or co Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matr	rix)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	No indicator iption (Descri	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docur , CS=Covered	nent the ind	icator or co Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matr	rix)	L	I ots of gravel pre	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docur , CS=Covered	nent the ind	icator or co Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matr	rix)	Texture L SIL	Lots of gravel pre	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	No indicator iption (Descri	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docur , CS=Covered	nent the ind	icator or co Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matr	rix)	L	Lots of gravel pre	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	No indicator iption (Descri	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docur , CS=Covered	nent the ind	icator or co Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matr	rix)	L	Lots of gravel pre	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	No indicator iption (Descri	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docur , CS=Covered	nent the ind	icator or co Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matr	rix)	L	Lots of gravel pre	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18	No indicator iption (Descriptration, D=Depl	be to the depth neederion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3	ed to docur CS=Covered	ment the indi	icator or co Grains; Loca (Moist)	onfirm thation: PL=P	e absence of interest Lining, M=Matr	rix)	L	Lots of gravel pre	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18	No indicator iption (Descri	be to the depth neederion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3	ed to docur CS=Covered	nent the ind	icator or co Grains; Loca (Moist)	onfirm thation: PL=P	e absence of in ore Lining, M=Matr	rix)	L SIL		esent
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18	No indicator iption (Description, D=Deplementation, D=Deplementati	be to the depth neederion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3	ed to docur CS=Covered	ment the indid/Coated Sand  Color (	icator or co Grains; Loca (Moist)	onfirm thation: PL=P	e absence of interest Lining, M=Matr	Location	L SIL Indicators	for Problemati	esent ic Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	No indicator  Iption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol	be to the depth needertion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3  Indicators (check	ed to docur CS=Covered	ment the indid/Coated Sand  Color (  dicators are 1	Moist)  not presented	onfirm thation: PL=P	e absence of interest Lining, M=Matr	Location	Indicators 1 A9 - 1 cm M	for Problemati	esent ic Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neederion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3  Indicators (check	ed to docur CS=Covered	ment the indicators are served.	icator or congrains; Local  (Moist)  not presented a Matrix	onfirm the ation: PL=P	e absence of interest Lining, M=Matr	Location	Indicators 1 A9 - 1 cm M A16 - Coast	for Problemati luck (LRR I, J) Prairie Redox	esent  ic Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neederion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3  Indicators (checketic)	ed to docur CS=Covered	ment the indicators are served.  S5 - Sandy F S6 - Stripped F1 - Loamy N	icator or congrains; Local (Moist)  not present and Matrix Mucky Miner	monfirm the stion: PL=P	e absence of interest Lining, M=Matr	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	esent  ic Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needertion, RM=Reduced Matrix,  Matrix  Color (Moist)  2/1  5/3  Indicators (checked ipedonestic in Sulfide)	were observed to docur, CS=Covered % 100 100 100 100 100 100 100 100 100 1	ment the indicators are served.  Color (  S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy N	Moist)  Redox Mucky Miner Gleyed Matrix	monfirm the stion: PL=P	e absence of interest Lining, M=Matr	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	esent  ic Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth neederion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3  Indicators (check ipedon stic in Sulfide Layers (LRR F)	ed to docur CS=Covered	color ( S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted	icator or congrains; Local  (Moist)  not present Additional Matrix Mucky Miner Gleyed Matrix d Matrix	monfirm the stion: PL=P  Mottle %  ation: PL=P	e absence of interest Lining, M=Matr	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemati fluck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	esent  ic Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  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 needertion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3  Indicators (checked ipedonestice in Sulfide Layers (LRR F) ck (LRR FGH)	were observed to docur, CS=Covered % 100 100 100 100 100 100 100 100 100 1	ment the indid/Coated Sand  Color (  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox F	icator or congrains; Local  Moist)  Moist)  not present Redox Mucky Miner Gleyed Matrix Dark Surface	monfirm the stion: PL=P  Mottle %  at ix	e absence of interest Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	esent  ic Soils¹  (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  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 neederion, RM=Reduced Matrix,  Matrix  Color (Moist)  2/1  5/3  Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface	were observed to docur, CS=Covered % 100 100 100 100 100 100 100 100 100 1	color ( S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted	Moist)  Redox Mucky Miner Gleyed Matrix Mucky Surface d Matrix Dark Surface d Dark Surface	monfirm the Mottle %  Intion: PL=P  Mottle %  Intion: PL=P	e absence of interest Lining, M=Matr	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	esent  ic Soils <sup>1</sup> (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73)  Surface
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  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 A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neederion, RM=Reduced Matrix,  Matrix  Color (Moist)  2/1  5/3  Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) in Below Dark Surface ark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR F)	y were observed to docur, CS=Covered % 100 100 100 000 000 000 000 000 000 0	color (  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox F F7 - Depleted F8 - Redox F	icator or congrains; Local  (Moist)  Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	monfirm the stion: PL=P  Mottle %  ation: PL=P	e absence of inore Lining, M=Matrees  Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	esent  ic Soils <sup>1</sup> (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73)  Surface
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  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 A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neederion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/3  Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	y were observed to docur, CS=Covered % 100 100 100 000 000 000 000 000 000 0	color (  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox F F7 - Depleted F8 - Redox F	icator or congrains; Local  (Moist)  Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	monfirm the stion: PL=P  Mottle %  ation: PL=P	e absence of inore Lining, M=Matrees  Type	Location	Indicators of Part Indicators of	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	ic Soils <sup>1</sup> (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73)  Surface )
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R			Sample Point: u-155n45w28-k1
				•
<b>VEGETATIO</b>		are non-native species.)		
Tree Stratum (	(Plot size: 30 ft. radius)			
	Species Name	<u>% Cover</u> <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.				
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.   O
	Total Cover	= 0	FACW spp. $0   x 2 = 0$	
				$FAC spp. \underline{0}  x  3 = \underline{0}$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)			FACU spp. $0   x   4 = 0$
1.				UPL spp. $80   X   5 = 400$
2.				
3.				Total <u>80</u> (A) <u>400</u> (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	80 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.	<u></u>			
14.				
15.				Woody Vines - All woody vines, regardless of height.
10.	Total Cover	= 80		
	Total Cover			
Woody Vino St	ratum (Plot size: 30 ft. radius)			
1	Tatum (Flot size. 30 ft. fadius)			
2.	-	_		
3.	1			Hydrophytic Vegetation Present? N
5.	<u> </u>			Trydrophytic vegetation Flesent?
5. 4.	<u> </u>			
4.	Total Cover	= 0		
Remarks:	The upland sample point is dominated by I			
Remarks.	The upland sample point is dominated by i	lealthy soybeans.		
Additional R	Remarks:			