## WETLAND DETERMINATION DATA FORM Great Plains Region

Dunia at/Cita		LOD							Doto	00/40/44	
Project/Site: Applicant:		L3R Enbridge							Date: County:	09/16/14 Pennington	
Investigators		BEH/NTT			Subregion (ML	RA or LRR)·	MLRA 56		State:	MN	
Soil Unit:	I75A				• • • • • • • • • • • • • • • • • • • •	WI Classification			J Glato:		
Landform:	Shoulder			- Lo	cal Relief: VL				Sample Point:	u-154n44w31-m1	
Slope (%):	3 - 7%		itude: 48.11		Longitude: -96.3		Datum:				
Are climatic/h	hydrologic co	nditions on the site typ	pical for thi	s time of yea	ar? (If no, explain in r	emarks)	Yes	□ No	Section:		
Are Vegetation			•	disturbed?		Are normal circur	•	esent?	Township:		
Are Vegetation			aturally pro	olematic?		✓ Yes	□ No		Range:	Dir:	
SUMMARY C								L D 10	N		
Hydrophytic \			No		-			Is Present?		attain do Na	
Wetland Hyd			No No	dominated	by groops and	roldoprodo upole			nt Within A W	etland? <b>No</b>	
Remarks:	rne upiano	sample point is locate	ed in a neid	dominated	by grasses and	goldenrods, upsi	оре попга у	vet meadow	ap.		
HYDROLOG	V										
						,					
_		icators (Check all tha	it apply; Mii	nimum of on	e primary or two	secondary requi	ired):	Casandanu			
<u>Primary:</u> □	<u>.</u>	Water		П	B11 - Salt Crust			Secondary:	B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aquatic Fau	na				Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydrogen St				B10 - Drainage	e Patterns	
	B1 - Water M				C2 - Dry Season		Doote (not till			Rhizospheres on Living Roots (ti	illed)
	B2 - Sedimen B3 - Drift Dep	•			C4 - Presence of	zospheres on Living Reduced Iron	Roots (not till		C8 - Crayfish E	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin Muck S			= =	D2 - Geomorp		
	B5 - Iron Dep				Other (Explain)				D5 - FAC-Neu		
		on Visible on Aerial Image	ry						D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves									
Field Observ	votiona										
Field Observ		Vaa	Danth		(in )						
Surface Wate		Yes	Depth:		(in.)		Wetland F	lydrology l	Present?	N	
Water Table Saturation Pr		Yes $\square$	Depth:		(in.)					<del></del>	
Saturation Pr	resent?	Yes	Depth:		_ (in.)						
					<u> </u>						
	<u>`</u>	stream gauge, monitorir				s), if available:					
Describe Reco	<u>`</u>	stream gauge, monitorir or secondary hydrolog				s), if available:					
Remarks:	<u>`</u>					s), if available:					
Remarks:	No primary	or secondary hydrolog	gical indica	tors were ob	served.	·	adicators )				
Remarks:  SOILS Profile Descri	No primary	or secondary hydrolog	gical indica	tors were ob	served.	the absence of i					
Remarks:  SOILS Profile Descri	No primary	or secondary hydrolog	gical indica	tors were ob	served.	the absence of i					
Remarks:  SOILS Profile Descri	No primary	or secondary hydrolog	gical indica	tors were ob	cator or confirm	the absence of i					
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix,	gical indica	tors were ob	cator or confirm Grains; Location: PL	the absence of in Pore Lining, M=Mat		Texture		Remarks	
Remarks:  SOILS Profile Descri	No primary	or secondary hydrologo be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist)	ed to docun	nent the indi	cator or confirm Grains; Location: PL	the absence of in Pore Lining, M=Mat	rix)	Texture FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary iption (Descriptration, D=Depl	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docun CS=Covered	nent the indi	cator or confirm Grains; Location: PL	the absence of in Pore Lining, M=Mat	rix)			Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19	No primary  iption (Descriptration, D=Depl	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docum CS=Covered	nent the indi	cator or confirm Grains; Location: PL	the absence of in Pore Lining, M=Mat	rix)	FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19	No primary  iption (Descriptration, D=Depl	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docum CS=Covered	nent the indi	cator or confirm Grains; Location: PL	the absence of in Pore Lining, M=Mat	rix)	FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19	No primary  iption (Descriptration, D=Depl	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docum CS=Covered	nent the indi	cator or confirm Grains; Location: PL	the absence of in Pore Lining, M=Mat	rix)	FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19	No primary  iption (Descriptration, D=Depl	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1	ed to docum CS=Covered	nent the indi	cator or confirm Grains; Location: PL	the absence of in Pore Lining, M=Mat	rix)	FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22	No primary  iption (Descriptration, D=Depl	be to the depth neede etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 4/2	ed to docum CS=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PL	the absence of in Pore Lining, M=Mat	rix)	FSL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22	No primary  iption (Descriptration, D=Depl  Hue_10YR Hue_10YR	be to the depth neede etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 4/2	ed to docum CS=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PL  Mo Moist)  %	the absence of inepore Lining, M=Mates  Type	rix)	FSL LFS	for Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22	No primary  Iption (Description, D=Depl  Hue_10YR Hue_10YR  Hue_10YR  A1- Histosol	be to the depth neede etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  4/2  Indicators (check	ed to docum CS=Covered	nent the indi /Coated Sand Color (  icators are r	cator or confirm Grains; Location: PL  Mo Moist)  not present):	the absence of inepore Lining, M=Mates  Type	Location	FSL LFS Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  NRCS Hydr	No primary  Iption (Description, D=Depl  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep	be to the depth neede etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 4/2  Indicators (check	ed to docum CS=Covered	coated Sand Coated Sand Coated Sand Color (Sandy Research Sandy Re	cator or confirm Grains; Location: PL  Mo Moist)  not present):  edox Matrix	the absence of inepore Lining, M=Mates  Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neede etion, RM=Reduced Matrix,  Matrix  Color (Moist)  2/1  4/2  Indicators (check ipedon stic	ed to docum CS=Covered	content the individual	cator or confirm Grains; Location: PL  Moist)  Moist)  not present):  edox Matrix Mucky Mineral	the absence of inepore Lining, M=Mates  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox ( urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  4/2  Indicators (check ipedon stic in Sulfide	gical indica	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or confirm Grains; Location: PL  Moist)  Moist)  Mot present):  edox Matrix Mucky Mineral Gleyed Matrix	the absence of inepore Lining, M=Mates  Type	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	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth neede etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 4/2  Indicators (check ipedon stic in Sulfide Layers (LRR F)	gical indica	content the individual	cator or confirm Grains; Location: PL  Moist)  Moist)  not present):  edox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix Matrix	the absence of inepore Lining, M=Mates  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  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	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  4/2  Indicators (check ipedon stic in Sulfide	gical indica	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted	cator or confirm Grains; Location: PL  Moist)  Moist)  Mot present):  edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface I Dark Surface	the absence of inepore Lining, M=Mates  Type	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 Depressioned Vertic	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  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 neede etion, RM=Reduced Matrix,  Matrix  Color (Moist)  2/1  4/2  Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) in Below Dark Surface eark Surface	gical indica	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: PL  Moist)  Moist)  Mot present):  edox Matrix Mucky Mineral Gleyed Matrix I Matrix Park Surface I Dark Surface Pepressions	the absence of inepore Lining, M=Matestales  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Plains Material	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  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 neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  4/2  Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) in Below Dark Surface in	gical indicated to document of the second se	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: PL  Moist)  Moist)  Mot present):  edox Matrix Mucky Mineral Gleyed Matrix I Matrix Park Surface I Dark Surface Pepressions	the absence of inepore Lining, M=Matestales  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	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Red Vertic Parent Material Shallow Dark S Rain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	sent
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  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 neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  4/2  Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) in Below Dark Surface eark Surface ucky Mineral flucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	gical indicated to document of the second se	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: PL  Moist)  Moist)  Mot present):  edox Matrix Mucky Mineral Gleyed Matrix I Matrix Park Surface I Dark Surface Pepressions	the absence of inepore Lining, M=Matestales  Type	Location	Indicators of half the state of	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Red Vertic Parent Material Shallow Dark S Rain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	esent,
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-22  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 S4 - Sandy G	be to the depth neede etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  4/2  Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface ark Surface ucky Mineral Mucky Peat or Peat (LRR F) leyed Matrix	gical indicated to document of the second se	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	cator or confirm Grains; Location: PL  Moist)  Moist)  Mot present):  edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface I Dark Surface Pepressions Ains Depressions	the absence of inepore Lining, M=Matestales  Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red PTF12 - Very Other (Explain Indicators of hunless disturbed)	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	esent,
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-154n44w31-m1					
					•					
<b>VEGETATIO</b>	N (Species identified in all uppercase	are non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius)									
	Species Name	% Cover	<b>Dominant</b>	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)					
3.		1								
4.					Total Number of Dominant Species Across All Strata: 2 (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)					
7.	<u></u>				(142)					
8.	<u></u>				Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.	Total Cover				OBL spp. 0					
	Total Cover	= 0			FACW spp. $0 \times 2 = 0$					
					FAC spp. $20$ $\times 3 = 60$					
	Stratum (Plot size: 15 ft. radius)				FACU spp. $75$ $x 4 = 300$					
1.					UPL spp. $\underline{15}$ $X 5 = \underline{75}$					
2.										
3.					Total 110 (A) 435 (B)					
4.										
5.					Prevalence Index = $B/A = 3.955$					
6.										
7.										
8.		-			Hydrophytic Vegetation Indicators:					
9.		_			Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
10.	_lTotal Cover	= 0			Prevalence Index is ≤ 3.0 *					
	Total Cover									
					Morphological Adaptations (Explain) *					
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Poa pratensis	35	Y	FACU						
2.	Solidago altissima	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Bromus inermis	15	N	UPL	present, unless disturbed or problematic.					
4.	Solidago gigantea	15	N	FAC	Definitions of Vegetation Strata:					
5.	Melilotus officinalis	5	N	FACU						
6	Symphyotrichum ericoides	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Equisetum arvense	5	N	FAC	height (DBH), regardless of height.					
8.										
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.										
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.					
					rierb - 7 in Horbacocae (Horr mood)/ plants, regardose of oiles.					
13.	<u> </u>									
14.					All marketings are all and the state.					
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover	= 110								
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.	T									
· · ·	Total Cover	= 0								
Remarks:			and tall go	Idenrod						
Remarks: The sample point is dominated by Kentucky bluegrass and tall goldenrod.										
Additional Remarks:										