WETLAND DETERMINATION DATA FORM Great Plains Region

D 1 1/011		li op								07/00/44	
Project/Site:		L3R							Date:	07/30/14	
Applicant:		Enbridge			Cubragian (N	IDA or IDD\	MIDAEG		County:	Marshall	
Investigators Soil Unit:	I23A	NTT/KRG				LRA or LRR): NWI Classification	MLRA 56		State:	MN	
Landform:	Crest				cal Relief: VV	INVVI Classification	1		 Comple Deint:	u-157n47w16-a1	
Slope (%):	0 - 2%	L atitud	le: 48.41		Longitude: -96	727262	Datum:		J Sample Folk.	u-13/114/W10-a1	
. , ,		onditions on the site typic					✓ Yes	□ No	Section:		
Are Vegetation		* ·		disturbed?	(i no, explain	Are normal circur			Township:		
Are Vegetation			•	olematic?		✓ Yes		000111.	Range:	Dir:	
SUMMARY C			rany prok	orornadio :		_ 100	_ 110		rango.	5	
Hydrophytic '			No				Hvdric Soi	Is Present?	No		
Wetland Hyd	_		No		_				nt Within A W	etland? No	
Remarks:		point is located within a		area domin	ated by bur oa	k and Pennsylvani		1 3			
	•	•				•	J				
HYDROLOG	Υ										
		icators (Check all that a	nnly: Mir	nimum of on	e primary or t	vo secondary regu	ired):				
Primary	•	icators (Check all that a	ippiy, iviii	iiiiidiii oi oi	e primary or to	vo secondary requ	iieu).	Secondary:			
<u> </u>	<u> </u>	Water			B11 - Salt Crus				B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aquatic F	auna			B8 - Sparsely	Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydrogen				B10 - Drainage		
	B1 - Water M B2 - Sedimer				C2 - Dry Seaso	n Water Table hizospheres on Living	a Poote (not till		C3 - Oxidized C8 - Crayfish B	Rhizospheres on Living Roots (t	illed)
	B3 - Drift Dep	•				of Reduced Iron	g Roots (not till		-	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin Muck			_	D2 - Geomorp		
	B5 - Iron Dep	osits			Other (Explain)				D5 - FAC-Neu		
		on Visible on Aerial Imagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves									
Fig. 1.1.01	-4*										
Field Observ											
Surface Wat		Yes	Depth:		_ (in.)		Wetland F	lydrology l	Present?	N	
Water Table		Yes	Depth:		- (in.)			, ,,		<u> </u>	
Saturation P	resent?	Yes	Depth:		_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream gauge, monitoring	well, aeri	al photos, pr	evious inspecti	ons), if available:					
Describe Rec Remarks:	<u>`</u>	stream gauge, monitoring hydrology indicators are			evious inspecti	ons), if available:					
Remarks:	<u>`</u>				evious inspecti	ons), if available:					
Remarks:	No wetland	hydrology indicators are	present		·						
Remarks: SOILS Profile Descri	No wetland	hydrology indicators are	present.	nent the indi	cator or confir	n the absence of i					
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Remarks: SOILS Profile Descri	No wetland	hydrology indicators are ibe to the depth needed etion, RM=Reduced Matrix, CS	present.	nent the indi	cator or confir Grains; Location:	n the absence of in the absence of in PL=Pore Lining, M=Mat					
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicators are ibe to the depth needed etion, RM=Reduced Matrix, CS	present. to docum	nent the indi /Coated Sand	cator or confir Grains; Location:	n the absence of in the absence of in PL=Pore Lining, M=Mat	trix)	Toyturo		Pomarke	
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descr	hydrology indicators are libe to the depth needed letion, RM=Reduced Matrix, CS Matrix Color (Moist)	to docum S=Covered	nent the indi	cator or confir Grains; Location:	n the absence of in the absence of in PL=Pore Lining, M=Mat		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descr	hydrology indicators are libe to the depth needed letion, RM=Reduced Matrix, CS Matrix Color (Moist)	to docum S=Covered	nent the indi /Coated Sand	cator or confir Grains; Location:	n the absence of in the absence of in PL=Pore Lining, M=Mat	trix)	Texture CL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descr	hydrology indicators are libe to the depth needed letion, RM=Reduced Matrix, CS Matrix Color (Moist)	to docum S=Covered	nent the indi /Coated Sand	cator or confir Grains; Location:	n the absence of in the absence of in PL=Pore Lining, M=Mat	trix)	Texture CL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No wetland iption (Descr	hydrology indicators are libe to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	to docum S=Covered	nent the indi /Coated Sand Color (cator or confir Grains; Location:	n the absence of in the absence of in PL=Pore Lining, M=Mat	trix)	CL			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No wetland iption (Description, D=Deplementation, D=Deplementation, D=Deplementation) Hue_10YR ric Soil Field A1- Histosol	hydrology indicators are libe to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here)	to docum S=Covered 100 ere if ind	Color (icators are r	cator or confir Grains; Location: Moist) not present):	n the absence of in the absence of in the plant of the pl	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Fic Soil Field A1- Histosol A2 - Histic Ep	hydrology indicators are libe to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check head)	moderate to docume to docu	Color (Cotor (Color (S5 - Sandy R S6 - Stripped	cator or confir Grains; Location: Moist) not present): edox Matrix	n the absence of in the absence of in the plant of the pl	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No wetland iption (Description, D=Deplementation, D=Deplementation	hydrology indicators are libe to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check head)	% 100 ere if ind	Color (Coted Sand Color (icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or confir Grains; Location: Moist) not present): edox Matrix Mucky Mineral	n the absence of in the absence of in the plant of the pl	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	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.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicators are libe to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check head) stic n Sulfide	moderate to docume to docu	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or confir Grains; Location: Moist) Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix	n the absence of in the absence of in the plant of the pl	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 ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	hydrology indicators are libe to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check head)	moderate of the present. to document of the present. % 100 100 ere if ind	Color (Coted Sand Color (icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or confir Grains; Location: Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix	n the absence of in the absence of in the plant of the pl	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 Depressio	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicators are libe to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check head) stic in Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface	moderate of the second of the	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	cator or confir Grains; Location: Moist) Moist) edox Matrix Mucky Mineral Gleyed Matrix Hark Surface Dark Surface	n the absence of in the absence of in the plant of the pl	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 ced Vertic Parent Material Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	hydrology indicators are ibe to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check head) site in Sulfide in Su	% 100 ere if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirements; Location: Moist) Moist) edox Matrix Mucky Mineral Gleyed Matrix Mucky Mineral Gleyed Matrix	n the absence of in PL=Pore Lining, M=Mate Mottles // 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 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	e: L3R				Sample Point: u-157n47w16-a1
EGETATIC		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				T
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Quercus macrocarpa	40	Y	FACU	
2.	Ulmus americana	10	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.	Acer negundo	10	N	FAC	
4.					Total Number of Dominant Species Across All Strata: 5 (B)
5.					(2)
6.					Percent of Deminant Species That Are ORL EACW or EAC: 40.0% (A/R)
					Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)
7.					Dravalana a Inday Warlaha at
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0
	Total Cover =	60			FACW spp 0
					FAC spp. 80 $x 3 = 240$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 50 $x 4 = 200$
1.	Ulmus americana	20	Υ	FAC	UPL spp. $0 x 5 = 0$
2.	Prunus virginiana	10	Y	FACU	
3.	r rands virginiana		•	. 7.00	Total 130 (A) 440 (B)
					Total 130 (A) 440 (B)
4.					December 2011 DVA
5.					Prevalence Index = B/A = 3.385
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	30			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Louis Cturatura	(Diet einer Eft redire)				
	(Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *
1.	Carex pensylvanica	50	<u> </u>		* In displayer of hydric acil and wellend by ductory moved by
2.	Laportea canadensis	40	Υ	FAC	* 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.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	90			
Woody Vine S	Stratum (Plot size: 30 ft. radius)				
1	oriatani (i lot 3123. 30 it. radias)				
2.					
					Hednembertle Wessetstlere Deserve O. M.
3.					Hydrophytic Vegetation Present?N
5.					
4.					
	Total Cover =				
Remarks:	The upland vegetation is dominated by bur of	oak and Pe	nnsylvania	ı sedge.	
Additional	Remarks:				
-uuili0iidi	iveniai vo.				