## WETLAND DETERMINATION DATA FORM Great Plains Region

- · · · / O ! ·		li ob							T	00/00/4	
Project/Site:		L3R							Date:	08/22/14	
Applicant:		Enbridge			Cubragian (M	DA or I DD\	MI DA FG		County:	Marshall	
Investigators Soil Unit:					_Subregion (M	,	,		State:	MN	
Landform:	I15A Depression			_	NWI Classification: Local Relief: CC				- Comple Boint	w-155n45w20-g2	
Slope (%):	0 - 2%		atitude: 48.2		Longitude: -96	4605473	Datum:	•		W-1331143W20-g2	
. , ,		nditions on the site t					✓ Yes	□ No	Section:		
Are Vegetation			•	ly disturbed?	GIT (II 110, OXPIGIT II	Are normal circui			Township:		
Are Vegetation			•	oblematic?		✓ Yes	•	000111.	Range:	Dir:	
SUMMARY C			Pictor any pr			_ 100	_ 110		ranger	J	
Hydrophytic \			Yes				Hvdric Soi	ils Present?	<sup>9</sup> Yes		
Wetland Hyd	_		Yes		_				nt Within A W	etland? Yes	
Remarks:		d is a hardwood swar		ated by trembl	ling aspen. All	parameters of wet					
			•	,	0 1						
<b>HYDROLOG</b>	Υ										
		icators (Check all th	nat annly: N	linimum of or	ne primary or tw	o secondary regu	ired):				
Primary:	•	icators (Check all th	ιαι αρριу, ι	All lilling the Or	ie primary or tw	o secondary requ	ireu).	Secondary			
<u>- 1111ary.</u>	<u>.</u>	Water			B11 - Salt Crust				<u>-</u> B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aquatic Fa	una			B8 - Sparsely	Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydrogen S				B10 - Drainage		n
	B1 - Water M B2 - Sedimen				C2 - Dry Season	Water Table hizospheres on Living	a Poote (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (	(tilled)
	B3 - Drift Dep	•			C4 - Presence of		g Roots (not till	"	_	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin Muck			✓	D2 - Geomorp		
	B5 - Iron Dep				Other (Explain)			✓	D5 - FAC-Neu	tral Test	
		on Visible on Aerial Imag	gery						D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-Si	tained Leaves									
Field Observ	votiona										
		Vec.	Don	ula .	(in )						
Surface Water		Yes	Dep		_ (in.)		Wetland F	Hydrology	Present?	Υ	
Water Table Saturation Pr		Yes □ Yes □	Dep Dep		– (in.) – (in.)					<del>_</del>	
Saturation	esent!	162	Deb		(111.)						
					<u> </u>						
	`	stream gauge, monitor		erial photos, pr	evious inspection	ns), if available:					
Describe Reco	`	stream gauge, monitor ndicators are presen		erial photos, pr	evious inspection	ns), if available:					
Remarks:	`			erial photos, pr	evious inspection	ns), if available:					
Remarks:	Hydrology ii	ndicators are presen	nt.		·		ndicatora				
Remarks:  SOILS Profile Descri	Hydrology in	ndicators are present	nt.	ument the ind	icator or confirr	n the absence of i					
Remarks:  SOILS Profile Descri	Hydrology in	ndicators are presen	nt.	ument the ind	icator or confirr	n the absence of i					
Remarks:  SOILS Profile Descri	Hydrology in	be to the depth need	nt.	ument the ind	icator or confirr Grains; Location: F	n the absence of i L=Pore Lining, M=Mat					
Remarks:  SOILS Profile Descri (Type: C=Concer	Hydrology in	be to the depth need etion, RM=Reduced Matrix	ded to doc	ument the ind ed/Coated Sand	icator or confirr Grains; Location: F	n the absence of in L=Pore Lining, M=Mat ottles	trix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	Hydrology in tration, D=Depl	be to the depth need etion, RM=Reduced Matrix  Color (Moist)	ded to doci	ument the ind ed/Coated Sand Color (	icator or confirr Grains; Location: F	n the absence of in L=Pore Lining, M=Mat ottles			mucky mineral th	Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	Hydrology in the Intration, D=Deplementation, D=	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1	ded to doci ix, CS=Cover	ument the ind ed/Coated Sand Color (	icator or confirr Grains; Location: F	n the absence of in L=Pore Lining, M=Mat ottles	trix)	MMI	mucky mineral, th	Remarks ne mineral component is fine sand	
Remarks:  SOILS Profile Descri (Type: C=Concer	Hydrology in tration, D=Depl	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1	ded to doci	ument the ind ed/Coated Sand Color (	icator or confirr Grains; Location: F	n the absence of in L=Pore Lining, M=Mat ottles	trix)		mucky mineral, th		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	Hydrology in the Intration, D=Deplementation, D=	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1	ded to doci ix, CS=Cover	ument the ind ed/Coated Sand Color (	icator or confirr Grains; Location: F	n the absence of in L=Pore Lining, M=Mat ottles	trix)	MMI	mucky mineral, th		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	Hydrology in the Intration, D=Deplementation, D=	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1	ded to doci ix, CS=Cover	ument the ind ed/Coated Sand Color (	icator or confirr Grains; Location: F	n the absence of in L=Pore Lining, M=Mat ottles	trix)	MMI	mucky mineral, th		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18	Hydrology in the Intration, D=Deplementation, D=	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2	ded to doci ix, CS=Cover	ument the ind ed/Coated Sand  Color (	icator or confirr Grains; Location: F	ottles Type	trix)	MMI	mucky mineral, th		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	Hydrology in the Intration, D=Deplementation, D=	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2	ded to doci ix, CS=Cover	ument the ind ed/Coated Sand Color (	icator or confirr Grains; Location: F	n the absence of in L=Pore Lining, M=Mat ottles	trix)	MMI FS		ne mineral component is fine sand	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hydrology in the Intration, Depointment of the Intration of	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2	ded to doci ix, CS=Cover	Color (	icator or confirmation of present):	ottles Type	Location	MMI FS	for Problemati	ne mineral component is fine sand	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hydrology in the Intration, D=Deplementation, D=	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2  Indicators (checking)	ded to doci ix, CS=Cover	Color (CO)	icator or confirmation of Grains; Location: Final Market M	ottles Type	Location	MMI FS Indicators	for Problemation	ne mineral component is fine sand  c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hydrology in the Intration, Depointment of the Intration of	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  4/2  Indicators (checking)	ded to doci ix, CS=Cover	Color (CO)	icator or confirmation of Grains; Location: Final Market M	ottles Type	Location	Indicators A9 - 1 cm N A16 - Coas	for Problemati	ne mineral component is fine sand  c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hydrology in the Intration, Description (Description, Depoint of the Intration, Description, Des	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  4/2  Indicators (checking the color is the color in the color is the color in the colo	ded to doci ix, CS=Cover	Color (CO)  Color	icator or confirming Grains; Location: F	ottles Type	Location	Indicators A9 - 1 cm N A16 - Coasi	for Problemation  Muck (LRR I, J)  t Prairie Redox (Surface (LRR G)	ne mineral component is fine sand  c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hydrology in the Intration, Description (Description, Depoint Intration, Description, D	matrix  Color (Moist)  2/1  4/2  Indicators (checking Sulfide Layers (LRR F)	ded to doci ix, CS=Cover	Color (CO)  S5 - Sandy FC S6 - Stripped F1 - Loamy FC F2 - Loamy FC F3 - Deplete	icator or confirming Grains; Location: F  Management Management Management Matrix Mucky Mineral Gleyed Matrix d Matrix d Matrix	ottles Type	Location	Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduce	for Problemation  for Problemation  fuck (LRR I, J)  t Prairie Redox  furface (LRR G)  Plains Depression  ced Vertic	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hydrology in tration (Description (Description), D=Deplementation,	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  4/2  Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH)	% 10 10 ck here if in	Color (CO)  S5 - Sandy FC S6 - Stripped F1 - Loamy FC F2 - Loamy FC F3 - Depleted F6 - Redox F	icator or confirmation of Grains; Location: Final Moist)  Moist)  Moist)  Moist)  Note the present of the prese	ottles Type	Location	Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F	for Problemation  Muck (LRR I, J)  t Prairie Redox (LRR G)  Surface (LRR G)  Plains Depression  ced Vertic  Parent Material	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.) 0-12 12-18  NRCS Hydr	Hydrology in the price of the p	matrix  Color (Moist)  2/1  4/2  Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) cd Below Dark Surface	% 10 10 ck here if i	Color (CO)  S5 - Sandy FC S6 - Stripped F1 - Loamy FC F2 - Loamy FC F3 - Depleted F6 - Redox FC F7 - Depleted	icator or confirmation of Grains; Location: Final Modern of Confirmation of Co	ottles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation  Muck (LRR I, J)  t Prairie Redox (Curface (LRR G)  Plains Depression  Ced Vertic  Parent Material  of Shallow Dark S	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.) 0-12 12-18  NRCS Hydr	Hydrology in the price of the p	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  4/2  Indicators (check in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface eark Surface	ded to doci ix, CS=Cover	Color (CO)  S5 - Sandy FC S6 - Stripped F1 - Loamy FC F3 - Depleted F6 - Redox F7 - Depleted F8 - Redox F8 - R	icator or confirmation of present):  Redox d Matrix Mucky Mineral Gleyed Matrix d Matrix Dark Surface d Dark Surface Depressions	ottles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation  Muck (LRR I, J)  t Prairie Redox (LRR G)  Surface (LRR G)  Plains Depression  ced Vertic  Parent 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.) 0-12 12-18  NRCS Hydr	Hydrology in tration, Dependent on (Description (Description), Dependent on the Lagrangian of the Lagr	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  4/2  Indicators (check in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface eark Surface ucky Mineral flucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	ded to dockix, CS=Cover  % 10 10 10 10 10 10 10 10 10 10 10 10 10	Color (CO)  S5 - Sandy FC S6 - Stripped F1 - Loamy FC F3 - Depleted F6 - Redox F7 - Depleted F8 - Redox F8 - R	icator or confirmation of present):  Redox d Matrix Mucky Mineral Gleyed Matrix d Matrix Dark Surface d Dark Surface Depressions	ottles Type	Location	Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	for Problemation  Muck (LRR I, J)  t Prairie Redox (CRR G)  Plains Depression  ced Vertic  Parent Material  A Shallow Dark Stain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)	resent,
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hydrology in tration, Dependent on (Description (Description), Dependent on the Lagrangian of the Lagr	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  4/2  Indicators (check in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface eark Surface ucky Mineral flucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	ded to dockix, CS=Cover  % 10 10 10 10 10 10 10 10 10 10 10 10 10	Color (CO)  S5 - Sandy FC S6 - Stripped F1 - Loamy FC F3 - Depleted F6 - Redox F7 - Depleted F8 - Redox F8 - R	icator or confirmation of present):  Redox d Matrix Mucky Mineral Gleyed Matrix d Matrix Dark Surface d Dark Surface Depressions	ottles Type	Location	Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	for Problemation  Muck (LRR I, J)  t Prairie Redox (CRR G)  Plains Depression  ced Vertic  Parent Material  A Shallow Dark Stain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	resent,
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site	: L3R				Sample Point: w-155n45w20-g2				
<b>VEGETATIO</b>	N (Species identified in all uppercase a	re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)				<b>T</b>				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	60	Υ	FAC					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)				
3.					· ` , '				
4.	·				Total Number of Dominant Species Across All Strata: 5 (B)				
5.		-			(				
6.		<u> </u>			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.					(A/B)				
		1			Dravalance Index Warkshoot				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. <u>35</u> x 1 = <u>35</u>				
	Total Cover =	= 60			FACW spp. $\frac{72}{}$ $x 2 = \frac{144}{}$				
					FACW spp. $\frac{72}{70}$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\qquad \qquad $				
1.	Cornus alba	20	Υ	FACW	UPL spp.				
2.	Salix discolor	10	Υ	FACW					
3.	Populus tremuloides	5	N	FAC	Total 182 (A) 409 (B)				
4.					``				
5.		-			Prevalence Index = B/A = <b>2.247</b>				
6.					Trovalonce mack = B//( = ZiZ+/				
7.									
					Uvdranhytia Vagatatian Indiastara				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	= 35	_		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	40	Υ	FACW					
2.	Carex stricta	30	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Veronicastrum virginicum	5	N	FAC	present, unless disturbed or problematic.				
4.	Rubus idaeus	5	N	FACU	Definitions of Vegetation Strata:				
5.	Cicuta maculata	5	N	OBL					
6		1	N	FACW	Troo - Weedenberts Cir. (7 Com) on more in discrete at broad				
	Carex sartwellii	<u> </u>			<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Stachys tenuifolia	1	N	FACW	Hoight (BBH), rogaraices of height.				
8.					BRU www.lines.com				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.		<u>.</u>							
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	= 87			· · · · · · · · · · · · · · · · · · ·				
	Total Cover -	- 07	_						
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	treture (Diet einer 00 ft and live)								
vvoody vine S	tratum (Plot size: 30 ft. radius)								
1.	1								
2.									
3.					Hydrophytic Vegetation Present?Y				
5.									
4.									
	Total Cover =	= 0							
Remarks:			baceous layer of reed canary grass and tussock sedge. Hydrophytic vegetation is						
	present.		5 p 227 W		, g = 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1.				
	F. 555								
A .1 1144	<b>3</b>								
Additional Remarks:									