WETLAND DETERMINATION DATA FORM Great Plains Region

D		LOD	1							Data	00/04/44	
Project/Site:		L3R Enbridge								Date:	08/21/14 Maraball	
Applicant: Investigators		Enbridge BEH/RAJ			Subragion	. /N/I D /	\ or DD\:	MLRA 56		County: State:	Marshall MN	
Soil Unit:	I24A	DETI/NAJ			_Subregior	•	A or LRR): I Classification:			State.	IVIIN	
Landform:	Dip			- I o	cal Relief:		i Ciassilication.	•		Sample Point:	w-156n46w21-b1	
Slope (%):	0 - 2%	Latitu	de: 48.31		Longitude:		1490256	Datum:			W 10011+0W21 D1	
. , ,		nditions on the site typic						✓ Yes	□ No	Section:		
Are Vegetation				disturbed?	(,,		e normal circun			Township:		
Are Vegetation			•	olematic?			✓ Yes	□ No		Range:	Dir:	
SUMMARY C			y p					, 10		· · · · · · · · · · · · · · · · · · ·		
Hydrophytic \			Yes					Hydric Soi	Is Present?	Yes		
Wetland Hyd	_		Yes		-					t Within A We	etland? Yes	
Remarks:		d is a sedge meadow in	a slight d	lip dominate	d by woolly	/ sedge,	, Kentucky blue					nt to a
		d cropland and a quakin	•	•			•		•		•	
HYDROLOG	•		0 1									
		icators (Check all that a	annly: Mir	nimum of on	e nrimary (or two s	econdary requi	red):				
Primary:		icators (Crieck all triat o	appiy, iviii	illiaili oi oi	e primary (JI WU S	econdary requi	ieu).	Secondary:			
<u>- 1 1111a. y</u>	<u>·</u> A1 - Surface ՝	Water			B11 - Salt C	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa	ter Table			B13 - Aqua	tic Fauna	l			B8 - Sparsely \	Vegetated Concave Surface	ce
	A3 - Saturation				C1 - Hydrog					B10 - Drainage		
	B1 - Water M B2 - Sedimen				C2 - Dry Se		ater Table spheres on Living	Poots (not till		C3 - Oxidized I C8 - Crayfish E	Rhizospheres on Living Ro	ots (tilled)
	B3 - Drift Dep	•			C4 - Preser			Roots (not till		•	n Visible on Aerial Imagery	I
	B4 - Algal Ma				C7 - Thin M				✓	D2 - Geomorpl		
	B5 - Iron Dep				Other (Expl	ain)			✓	D5 - FAC-Neut	tral Test	
		on Visible on Aerial Imagery								D7 - Frost-Hea	eved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves										
Field Observ	vations.											
Field Observ		V	D (I		(i.e.)							
Surface Wate		Yes	Depth:		_ (in.)			Wetland F	lydrology I	Present?	Υ	
Water Table		Yes	Depth:		(in.)						—	
Saturation Pr	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	ı well, aeri	al photos, pr	evious insp	ections),	if available:					
Describe Reco	<u>`</u>	stream gauge, monitoring a slight dip in an otherwi						AC-Neutral	test.			
Remarks:	<u>`</u>							AC-Neutral	test.			
Remarks:	The site is a	a slight dip in an otherwi	ise planaı	r landscape,	and the ve	egetation	n passes the F		test.			
Remarks: SOILS Profile Descri	The site is a	a slight dip in an otherwi	ise planar	r landscape,	and the ve	egetation	n passes the Fa	ndicators.)	test.			
Remarks: SOILS Profile Descri	The site is a	a slight dip in an otherwi	ise planar	r landscape,	and the ve	egetation	n passes the Fa	ndicators.)	test.			
Remarks: SOILS Profile Descri	The site is a	be to the depth needed etion, RM=Reduced Matrix, C	ise planar	r landscape,	and the ve	nfirm th	n passes the Face absence of in the core Lining, M=Matr	ndicators.)	test.			
Remarks: SOILS Profile Descri (Type: C=Concer	The site is a	be to the depth needed etion, RM=Reduced Matrix	to docum	r landscape, nent the indi /Coated Sand	and the ve	nfirm th	n passes the Face absence of interest of the core Lining, M=Matrees	ndicators.)			Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	The site is a siption (Description, Depoil	be to the depth needed etion, RM=Reduced Matrix Color (Moist)	to documes=Covered	r landscape,	and the ve	nfirm th	n passes the Face absence of in the core Lining, M=Matr	ndicators.)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	The site is a siption (Description, Dependent of the property	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1	to documes=Covered	nent the indi /Coated Sand	cator or co Grains; Locati	nfirm th	e absence of interest in passes the Face absence of interest in passes in pa	dicators.)	Texture CL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	The site is a siption (Description, Depoil	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1	to documes=Covered	r landscape, nent the indi /Coated Sand	cator or co Grains; Locati	nfirm th	n passes the Face absence of interest of the core Lining, M=Matrees	ndicators.)			Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21	The site is a siption (Description, D=Deplementation, D=Deplementa	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 5/1	to documes=Covered	r landscape, nent the indi /Coated Sand Color (Hue_7.5YR	cator or co Grains; Locati	nfirm the ion: PL=P	e absence of interest Lining, M=Matro	dicators.)	Texture CL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21	The site is a siption (Description, Dependent of the property	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 5/1	to documes=Covered	nent the indi /Coated Sand	cator or co Grains; Locati	nfirm thion: PL=P	e absence of interest in passes the Face absence of interest in passes in pa	dicators.)	Texture CL FSL			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	The site is a siption (Description, Depointment of the site is a siption (Description, Depointment of the site is a siption (Description, Depointment of the site is a siption of the site is a	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 5/1	to documes=Covered %	r landscape, nent the indi /Coated Sand Color (Hue_7.5YR	cator or co Grains; Locati Moist) 4/4	nfirm thion: PL=P	e absence of interest Lining, M=Matro	Location M	Texture CL FSL	or Problematic		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	The site is a siption (Description (Description, D=Deplementation,	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 5/1 Indicators (check has been stice in Sulfide Layers (LRR F)	to documes=Covered % 100 99 here if ind	r landscape, nent the indi /Coated Sand Color (Hue_7.5YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	and the vector or configurations; Location of Configurations (Configurations) 4/4 Audition of present of present of present of Configurations (Configurations) Edox Matrix Mucky Mineral of Matrix of Matrix of Matrix of Matrix	nfirm the ion: PL=P	e absence of interest Lining, M=Matro	Location M	Texture CL FSL 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 Depressic ed Vertic	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	The site is a siption (Description (Description, D=Deplementation,	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 5/1 Indicators (check hastic in Sulfide Layers (LRR F) ck (LRR FGH)	to documes=Covered % 100 99 nere if ind	r landscape, nent the indi /Coated Sand Color (Hue_7.5YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D	and the vector or concept and the vector or concept and the vector or concept and the vector of the	nfirm the ion: PL=P	e absence of interest Lining, M=Matro	Location M	Texture CL FSL 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 Depressic ed Vertic arent Material	E Soils ¹ 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 12-21 NRCS Hydr	The site is a siption (Description, D=Deplete 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, C Matrix Color (Moist) 2/1 5/1 Indicators (check has been been been been been been been bee	% 100 99 nere if ind	r landscape, nent the indi /Coated Sand Color (Hue_7.5YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	and the vector or configurations; Location or configurations; Locations and the vector of the configuration of the	nfirm the ion: PL=P Mottle % 1	e absence of interesting the control of the control	Location M	Texture CL FSL 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 Depressic ed Vertic arent Material	E Soils ¹ 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 12-21 NRCS Hydr	The site is a siption (Description, D=Deplementation, D=Deplementa	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 5/1 Indicators (check has been been been been been been been bee	% 100 99 nere if ind	r landscape, nent the indi /Coated Sand Color (Hue_7.5YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	and the vector or conditions and the vector or conditions. In a second conditions are second conditions are surface and surface are pressions.	nfirm the ion: PL=P Mottle % 1	e absence of interesting the control of the control	Location M	Texture CL FSL 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 in in Remarks)	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	t be present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w21-b1
					•
VEGETATIO	N (Species identified in all uppercase are	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: 4 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 5 (B)
5.					·
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
7.					(742)
8.					Prevalence Index Worksheet
9.					
					Total % Cover of: Multiply by:
10.	Total Cayor				OBL spp. $\frac{65}{30}$ $x = \frac{65}{60}$ FACW spp. $\frac{30}{30}$ $x = \frac{65}{60}$
Total Cover =0					FACW spp. 30 $\times 2 = 60$
					FAC spp. $5 X 3 = $
	Stratum (Plot size: 15 ft. radius)			0.51	FACU spp. 35 $x 4 = 140$
1.	Salix petiolaris	10	Y	OBL	UPL spp. $0 x 5 = 0$
2.	Populus tremuloides	5	Y	FAC	
3.					Total 135 (A) 280 (B)
4.					
5.					Prevalence Index = B/A = 2.074
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	15			X Prevalence Index is ≤ 3.0 *
	Total Cover =_	10	_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	55	Υ	OBL	
2.	Poa pratensis	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Argentina anserina	20	Υ	FACW	present, unless disturbed or problematic.
4.	Cirsium arvense	10	N	FACU	Definitions of Vegetation Strata:
5.	Symphyotrichum lanceolatum	5	N	FACW	
6	Elymus repens	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Lysimachia ciliata	5	N	FACW	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.
					TIEID - All Herbaccous (Horr woody) plants, regardless of size.
13.					
14.					All considerations and the second sec
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	120			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
т.	Total Cover =	0			
Remarks:			rass, and	silver-leaf	. A minor shrub component is dominated by meadow willow and quaking aspen
Tromano.	saplings and seedlings.	iony bidog	ilass, alla s	onvoi ioai	. 77 millor stricts compensite to definitated by meddew willow and quaking depen
	capinigo ana occaningo.				
	_				
Additional F	Remarks:				