WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R Enhridge							Date:	08/22/14 Maraball		
Applicant:		Enbridge BEH/RAJ			Subragion (MI	DA or I DD).	MLRA 56		County: State:	Marshall MN		
Investigators: Soil Unit:	I57B	DEH/KAJ			Subregion (ML_ م	WI Classification			State.	IVIIN		
Landform:	Shoulder				cal Relief: VL	vvi Ciassilication	-		Sample Point	u-155n45w20-d1		
Slope (%):	3 - 7%	L atitu	ude: 48.234		Longitude: -96.4	63871667	Datum:		Jampie i oint	<u> </u>		
. ,		onditions on the site typi					✓ Yes	□ No	Section:			
Are Vegetation				disturbed?		Are normal circur			Township:			
Are Vegetation			curally prob			✓ Yes	□ No	000	Range:	Dir:		
SUMMARY C		, ,	יין און						i ioni igo i			
Hydrophytic \			No				Hydric Soi	Is Present?	No No			
Wetland Hyd	_		No		•				nt Within A W	etland? No		
Remarks:		sample point is upslop	e from an	excavated o	deep marsh. Th	site is dominate						
	•				•		•		· ·			
HYDROLOG	Υ											
		icators (Check all that	annly: Mir	nimum of on	e primary or two	secondary requi	ired):					
Primary:		icators (Crieck all triat	apply, will	ilitiaiti oi oii	e primary or two	secondary requi	iieu).	Secondary				
<u> </u>	<u>·</u>	Water			B11 - Salt Crust				<u>.</u> B6 - Surface S	Soil Cracks		
	A2 - High Wa	ter Table			B13 - Aquatic Fa	na			B8 - Sparsely	Vegetated Concave Surface		
	A3 - Saturation				C1 - Hydrogen S				B10 - Drainage			
	B1 - Water M				C2 - Dry Season		Dooto (not till			Rhizospheres on Living Roots (tille		
	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidized Rn C4 - Presence of	zospheres on Living Reduced Iron	Roots (not till		C8 - Crayfish I	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 Imagery	/		,				D7 - Frost-Hea	aved Hummocks (LRR F)		
	B9 - Water-S	tained Leaves										
Field Observ					(1)							
Surface Water		Yes	Depth:		_ (in.)		Wetland F	Hydrology	Present?	N		
Water Table		Yes	Depth:		_ (in.)			.,		<u> </u>		
Saturation Pr	resent?	Yes	Depth:		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge, monitoring	g well, aeria	al photos, pr	evious inspection	s), if available:						
Remarks:	<u>`</u>	stream gauge, monitoring or secondary hydrologi			<u>.</u>	s), if available:						
	<u>`</u>				<u>.</u>	s), if available:						
Remarks:	No primary	or secondary hydrologi	ical indicat	tors were ob	served.							
Remarks: SOILS Profile Descri	No primary ption (Descr	or secondary hydrologi	ical indicat	tors were ob	served.	the absence of in						
Remarks: SOILS Profile Descri	No primary ption (Descr	or secondary hydrologi	ical indicat	tors were ob	served.	the absence of in						
Remarks: SOILS Profile Descri	No primary ption (Descr	or secondary hydrologi ibe to the depth needed etion, RM=Reduced Matrix, C	ical indicat	tors were ob	served. cator or confirm Grains; Location: Pl	the absence of in Pore Lining, M=Mat						
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descr	or secondary hydrological hydro	d to docum	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	Toyturo		Domarka		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descriptration, D=Depl	or secondary hydrological hydro	d to docum	tors were ob	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descriptration, D=Depl	or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1	d to docum CS=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	LCOS	Gravel fragments	3		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descriptration, D=Depl	or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1	d to docum	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)		Gravel fragments	3		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descriptration, D=Depl	or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1	d to docum CS=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	LCOS		3		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21	No primary ption (Descriptration, D=Depl Hue_10YR Hue_10YR	or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/1	to docum CS=Covered 100 100	nent the indi /Coated Sand (cator or confirm Grains; Location: PI Moist) %	the absence of inepresent the absence of inepresent the second strains of the second str	rix)	LCOS		3		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 NRCS Hydr	No primary ption (Descriptration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/1 Indicators (check limits)	to docum CS=Covered % 100 100 here if ind	cors were obtained the individual of the individ	cator or confirm Grains; Location: Pl Moist) Moist) not present):	the absence of inepresent the absence of inepresent the second strains of the second str	Location	LCOS COS Indicators	Gravel fragments for Problemation fuck (LRR I, J)	c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 NRCS Hydr	No primary Iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary hydrological between the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/1 Indicators (check looped on the secondary hydrological property)	to docum CS=Covered % 100 100 here if ind	cors were obtained the individual of the individ	cator or confirm Grains; Location: PI Moist) Moist) not present): edox Matrix	the absence of inepresent the absence of inepresent the second strains of the second str	Location	Indicators A9 - 1 cm N A16 - Coas	Gravel fragments for Problemation fuck (LRR I, J) t Prairie Redox	c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	or secondary hydrological between the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/1 Indicators (check loopedon stic)	to docum CS=Covered 100 100 here if ind	cors were obtained the individual of the individ	cator or confirm Grains; Location: Pl Moist) Moist) oot present): edox Matrix Mucky Mineral	the absence of inepresent the absence of inepresent the second strains of the second str	Location	Indicators A9 - 1 cm N A16 - Coasi	Gravel fragments for Problemation fuck (LRR I, J) t Prairie Redox surface (LRR G)	c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydrological secondary hydrologi	to docum CS=Covered % 100 100 here if ind	cors were obtained the individual of the individ	cator or confirm Grains; Location: Pl Moist) Moist) Mot present): edox Matrix Mucky Mineral Bleyed Matrix	the absence of inepresent the absence of inepresent the second strains of the second str	Location	Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)) Plains Depression	c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/1 Indicators (check larged in Sulfide Layers (LRR F)	to docum CS=Covered % 100 100 here if ind	cors were obtained the individual of the individ	cator or confirm Grains; Location: PI Moist) Moist) Mot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix	the absence of inepresent the absence of inepresent the second strains of the second str	Location	Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduce	Gravel fragments for Problemation fuck (LRR I, J) t Prairie Redox furface (LRR G) Plains Depression ced Vertic	c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 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	or secondary hydrological secondary hydrologi	to docum CS=Covered % 100 100 here if ind	cors were obtained in the individual content the individual content the individual content in th	cator or confirm Grains; Location: PI Moist) Moist) Mot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix	the absence of inepresent the absence of inepresent the second strains of the second str	Location	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)) Plains Depression	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21	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	or secondary hydrological between the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/1 Indicators (check library (check library)) Indicators (check library)	to docum CS=Covered % 100 100 here if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: Pl Moist) Moist) Motor present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	the absence of inepartment in the absence of inepartment in the second s	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Redu TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (LRR G) Plains Depression ced Vertic Parent Material	c 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.) 0-6 6-21	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	or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/1 Indicators (check limits in Sulfide layers (LRR F) ck (LRR FGH) ed Below Dark Surface eark Surface ucky Mineral Mucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	to document of the description of the document	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: Pl Moist) Moist) Motor present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	the absence of inepartment in the absence of inepartment in the second s	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	Gravel fragments for Problemation fuck (LRR I, J) t Prairie Redox (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	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:	L3R				Sample Point: u-155n45w20-d1				
VEGETATION (e non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u>Species (valine</u>	<u> 70 00101</u>	<u> 20mmana</u>	<u>ma.o.a.ao</u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0				
Total Cover =					FACW spp. $0 \times 2 = 0$				
					FAC spp. $0 \times 3 = 0$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 20 $\times 4 = 80$				
1.					UPL spp. 105 $x 5 = 525$				
2. 3.					Total 125 (A) 605 (B)				
4.					Total 125 (A) 605 (B)				
5.					Prevalence Index = $B/A = 4.840$				
6.					1 revalence index = b/A =				
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.	Thinopyrum intermedium	65	Υ	NI					
2.	Medicago sativa	30	Υ	UPL	* Indicators of hydric soil and wetland hydrology must be				
3.	Poa compressa	10	N	FACU	present, unless disturbed or problematic.				
4.	Bromus inermis	10	N	UPL	Definitions of Vegetation Strata:				
5.	Dactylis glomerata	5	N	FACU					
6	Ambrosia artemisiifolia	5	N	FACU	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 =	125							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?N				
5.									
4.	Total Cavar	0							
Domorko	Total Cover =			folfo					
Remarks:	The sample site is dominated by intermediate	e wneat gr	ass and ai	тапа.					
Additional Remarks:									