WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/20/14	,
Applicant:		Enbridge								County:	Marshall	
Investigators		BEH/RAJ			Subregion	•	•	MLRA 56		State:	MN	
Soil Unit:	I23A			_			Classification:					
Landform:	Talf		10.44		cal Relief: \		70070			Sample Point:	u-157n47w16-g1	
Slope (%):	3 - 7%	1972 - 41 - 24	Latitude: 48.41		Longitude: -			<u>Datum:</u>				
		nditions on the site			ar? (If no, expla				□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are	normal circum	•	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally pro	biematic?			Yes	□ No		Range:	Dir:	
SUMMARY C			M					Lludria Cail	- Dragger 12	Na		
Hydrophytic \			No		-				s Present?		otland? No	
Wetland Hyd			No No	d d a			wels The year			t Within A W		
Remarks:	rne upiano	sample point is lo	ocated in a fier	a upsiope iro	om a wet me	eadow s	swaie. The veg	etation is do	ominated by	smooth bror	ne.	
HVDDOLGO	V											
HYDROLOG												
_	•	icators (Check all	l that apply; Mi	nimum of on	e primary o	r two se	econdary requi	red):				
Primary:	-			_	D.1.1 O.11 O.				Secondary:	· · · · ·	" 0	
	A1 - Surface \A2 - High Wa				B11 - Salt Cr B13 - Aquation					B6 - Surface S		
	A2 - Flight Wa				C1 - Hydroge		e Odor			B10 - Sparsely	Vegetated Concave Surface	
	B1 - Water Ma				C2 - Dry Sea						Rhizospheres on Living Roots	s (tilled)
	B2 - Sedimen	t Deposits					pheres on Living	Roots (not till	• -	C8 - Crayfish E		()
	B3 - Drift Dep				C4 - Presence						n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin Mu		ice			D2 - Geomorp		
	B5 - Iron Depo	osits In Visible on Aerial Im	agory.		Other (Expla	ın)				D5 - FAC-Neut	tral Test aved Hummocks (LRR F)	
	B9 - Water-St		lagery							D7 - F1051-F162	aved Fidilinocks (LKK F)	
_												
Field Observ	vations:											
Surface Wate	er Present?	Yes	Depth	•	(in.)							
Water Table		Yes	Depth		(in.)			Wetland H	lydrology l	Present?	N	
Saturation Pr		Yes	Depth		• : :							
		169 -	Debin	•	(In.)							
			<u> </u>		(in.)	ation a)	if available.					
Describe Rec	orded Data (s	stream gauge, moni	itoring well, aer	ial photos, pr	evious inspe	ctions),	if available:					
	orded Data (s		itoring well, aer	ial photos, pr	evious inspe	ctions),	if available:					
Describe Reco	orded Data (s	stream gauge, moni	itoring well, aer	ial photos, pr	evious inspe	ctions),	if available:					
Describe Reco	orded Data (s No primary	stream gauge, moni or secondary hydr	itoring well, aer	ial photos, protors were ob	evious inspenserved.			dicators)				
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	stream gauge, monior secondary hydrone be to the depth ne	itoring well, aer	ial photos, protors were obtained in the indi	evious insperserved.	ifirm the	e absence of in					
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	stream gauge, moni or secondary hydr	itoring well, aer	ial photos, protors were obtained in the indi	evious insperserved.	ifirm the	e absence of in					
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Describe Reco Remarks: SOILS Profile Descri (Type: C=Concer	orded Data (s No primary iption (Descri	or secondary hydrone be to the depth neetion, RM=Reduced Market	itoring well, aer	ial photos, protors were obtained in the indi	evious insperserved. cator or con Grains; Locatio	on: PL=Po	e absence of in ore Lining, M=Matr		Texture		Remarks	
Describe Reconstruction Remarks: SOILS Profile Descripe: C=Concert	orded Data (s No primary iption (Descri	or secondary hydrote to the depth neetion, RM=Reduced Matrix	itoring well, aer rological indica eeded to docur atrix, CS=Covered	ial photos, protors were obtained the indicated Sand	evious insperserved. cator or con Grains; Locatio	on: PL=Po	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks	
Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd Depth (In.) 0-22	orded Data (s No primary iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, aer rological indica eeded to docur atrix, CS=Covered	ial photos, protors were obtained the indicated Sand	evious insperserved. cator or con Grains; Locatio	on: PL=Po	e absence of in ore Lining, M=Matr	ix)	L		Remarks	
Describe Reconstruction Remarks: SOILS Profile Descripe: C=Concert	orded Data (s No primary iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, aer rological indica	ial photos, protors were obtained the indicated Sand	evious insperserved. cator or con Grains; Locatio	on: PL=Po	e absence of in ore Lining, M=Matr	ix)	Texture L FSL		Remarks	
Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd Depth (In.) 0-22	orded Data (s No primary iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, aer rological indica eeded to docur atrix, CS=Covered	ial photos, protors were obtained the indicated Sand	evious insperserved. cator or con Grains; Locatio	on: PL=Po	e absence of in ore Lining, M=Matr	ix)	L		Remarks	
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Describe Recordance Remarks: SOILS Profile Descripation (Type: C=Concerdance) Depth (In.) 0-22 22-30	orded Data (s No primary iption (Descriptration, D=Depleted Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2	itoring well, aer rological indica	ial photos, protors were obtained the indicated Sand Color (evious insperserved. cator or con Grains; Locatio	Mottle	e absence of in ore Lining, M=Matr es Type	ix)	L		Remarks	
Describe Recordance Remarks: SOILS Profile Descripation (Type: C=Concerdance) Depth (In.) 0-22 22-30	orded Data (s No primary iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2	itoring well, aer rological indica eeded to docur atrix, CS=Covered	ial photos, protors were obtained the indicated Sand Color (evious insperserved. cator or con Grains; Locatio	Mottle	e absence of in ore Lining, M=Matr	ix)	FSL	or Problematic		
Describe Reco	orded Data (s No primary ption (Descriptration, D=Depleted Data) Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2	itoring well, aer rological indica	nent the indi	evious insperserved. cator or congrains; Location Moist) not present):	Mottle	e absence of in ore Lining, M=Matr es Type	Location	FSL Indicators f	or Problematic		
Describe Reco	orded Data (s No primary iption (Descriptration, D=Depletration, D=Depletration) Hue_10YR Hue_10YR A1- Histosol	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (ch	itoring well, aer rological indica	ment the indicated Sand Color (S5 - Sandy R	evious insperserved. cator or congrains; Location Moist) not present):	Mottle	e absence of in ore Lining, M=Matr es Type	Location	FSL Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹	
Describe Reco	orded Data (s No primary ption (Descriptration, D=Depleted Data) Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain)	itoring well, aer rological indica	ial photos, protors were obtained the indicators and color (S5 - Sandy R S6 - Stripped	evious insperserved. cator or congrains; Location Moist) not present): edox Matrix	Mottle	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹	
Describe Reco	orded Data (s No primary iption (Descriptration, D=Depletration, D=Depletration) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain)	itoring well, aer rological indica	ment the indicated Sand Color (S5 - Sandy R	evious insperserved. cator or congrains; Location Moist) not present): edox Matrix Mucky Mineral	Mottle	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹	
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain in Sulfide Layers (LRR F)	itoring well, aer rological indica	ial photos, protors were obtained the india/Coated Sand Color (Color (S5 - Sandy RS6 - Stripped F1 - Loamy NF2 - Loamy NF3 - Depleted	evious insperserved. cator or congrains; Location Moist) Moist) edox Matrix Mucky Mineral Gleyed Matrix I Matrix	Mottle	e absence of in ore Lining, M=Matr es Type	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 Depression eed Vertic	Soils ¹ (LRR F, G, H)	
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH)	itoring well, aer rological indicate eeded to docur atrix, CS=Covered %	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	evious insperserved. cator or congrains; Location Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface	Mottle	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Describe Reco	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain Sulfide Layers (LRR FGH) ck (LRR FGH) d Below Dark Surface	itoring well, aer rological indicate eeded to docur atrix, CS=Covered %	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	evious insperserved. cator or congrains; Location Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface I Dark Surface	Mottle	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Describe Reco	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, aer rological indica eeded to docur atrix, CS=Covered %	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insperserved. cator or congrains; Location Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix Park Surface Pork Surface Poressions	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Describe Reco	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, aer rological indicate eeded to docur atrix, CS=Covered %	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insperserved. cator or congrains; Location Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix Park Surface Pork Surface Poressions	Mottle %	e absence of in ore Lining, M=Matr es 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 ain in Remarks)	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	present,
Describe Reco	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, aer rological indicate eeded to docur atrix, CS=Covered %	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insperserved. cator or congrains; Location Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix Park Surface Pork Surface Poressions	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	ESoils ¹ ELRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	present,
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, aer rological indicate eeded to docur atrix, CS=Covered %	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insperserved. cator or congrains; Location Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix Park Surface Pork Surface Poressions	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Ain in Remarks)	ESoils ¹ ELRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	present,
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Describe Reco	r Type:	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, aer rological indicate eeded to docur atrix, CS=Covered %	color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	evious insperserved. Cator or congrains; Location Moist) Hot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix Park Surface I Dark Surface Pepressions I Dark Surface Pepressions I Dark Surface Pepressions	Mottle % e	e absence of incre Lining, M=Matros Type RA 72, 73 of LRR Hydric So	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Prairie Redox (Prairie Redox	Soils ¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface ion and wetland hydrology must be	present,

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-157n47w16-g1		
VEGETATIO		e non-native	species.)				
Tree Stratum	(Plot size: 30 ft. radius)						
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet		
1.							
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)		
3.							
4.					Total Number of Dominant Species Across All Strata: 1 (B)		
5.							
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)		
7.							
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.					ORL spp. 0 × 1 - 0		
10.	Total Cover =	0			EACW spp. 0 × 2 = 0		
	Total Gover =		_		FAC cpp		
0 1: /0: 1-	Otractions (Distraction AF ft. no distraction)				OBL spp. 0		
	Stratum (Plot size: 15 ft. radius)				FACU spp. 20		
1.					OPL spp. 90		
2.							
3.					Total 110 (A) 530 (B)		
4.							
5.					Prevalence Index = B/A = 4.818		
6.							
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.	Bromus inermis	90	V	UPL	Problem riyurophytic vegetation (Explain)		
2.			<u>'</u> N	FACU	* Indicators of hydric soil and wetland hydrology must be		
	Phleum pratense	10			present, unless disturbed or problematic.		
3.	Cirsium arvense	5	N	FACU			
4.	Dactylis glomerata	5	N	FACU	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.		
10.	Total Cover =	110					
	Total Cover =	110	_				
\\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	trations (Dist sine) 20 ft radius)						
	tratum (Plot size: 30 ft. radius)						
1.							
2.							
3.					Hydrophytic Vegetation Present?N		
5.							
4.							
	Total Cover =						
Remarks:	The sample site is dominated by smooth bro	me.					
Additional I	Remarks:						
Additional Remarks:							