WETLAND DETERMINATION DATA FORM Great Plains Region

Designat/Cita		Lan									Data	07/00/44
Project/Site:		L3R									Date:	07/29/14
Applicant:		Enbridge									County:	Marshall
Investigators		NTT/KRG				Subregion		or LRR):	MLRA 56		State:	MN
Soil Unit:	I130A	I130A NWI Classificat										
Landform:	Depression				Lo	cal Relief:	CL				Sample Point	: w-157n48w1-a1
Slope (%):	8 - 15%		Latitude:	48.448	3714	Longitude:	-96.780	237	Datum:			
		nditions on the site							⊡Yes	□No	Section:	
Are Vegetation		□ or Hydrology			disturbed?	ar : (ii iio, oxp		normal circum			1	
							Αι σ	☑ Yes	Istarices pre □No	esciit:	Township:	D:
Are Vegetation	•	☐ or Hydrology	∟∎turai	lly prot	olematic?			⊡ res	□NO		Range:	Dir:
SUMMARY (
Hydrophytic '	Vegetation P	resent?	,	Yes					Hydric Soil	ls Present?	Yes	
Wetland Hyd			_	Yes		-					nt Within A W	etland? Yes
Remarks:		d is a fresh wet me			within a road	leide ditch	and don	ninated by Pha			ic vvicini / C vv	Charle: 100
Remarks.	THE WELIATIO	i is a nesii wet me	auow ioc	caleu v	within a roat	iside ditti	and doi	ililiateu by Fila	ians arunun	nacea.		
HYDROLOG	Υ											
Wetlered H.	ام مدا د مدد ا مما	inatawa (Chank all	1 46 04 000	lu Min					- d\-			
		icators (Check all	i that app	oly; iviir	nimum of on	e primary	or two se	econdary requir	ea):			
<u>Primary</u>					_	544 6 11				Secondary:		
□	A1 - Surface					B11 - Salt (B6 - Surface S	
	A2 - High Water Table			☐ B13 - Aquatic Fauna								Vegetated Concave Surface
	A3 - Saturatio					C1 - Hydro					B10 - Drainage	
	B1 - Water M					C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen							spheres on Living	Roots (not till		C8 - Crayfish I	
	B3 - Drift Dep					C4 - Prese						n Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin N		ace			D2 - Geomorp	
	B5 - Iron Dep					Other (Exp	lain)				D5 - FAC-Neu	
		n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Obser	vations:											
	er Present?	Yes 🗹		Donth:	2	(in)						
		=		Depth:		(in.)			Wetland H	lydrology I	Present?	Υ
Water Table		Yes		Depth:		,				, ,,		_
Saturation Pr	resent?	Yes \square		Depth:		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Dec	ordod Data (c	stroam gaugo moni	itorina wa	II aori	al photos pr	ovious inco	octions)	if available:				
								if available:				
Remarks:		stream gauge, moni						if available:				
								if available:				
								if available:				
Remarks:	The wetland	d has roughly three	e inches	of stan	nding water	throughou	t.		dicators.)			
Remarks: SOILS Profile Descri	The wetland	has roughly three	e inches	of stan	nding water	throughou	t. onfirm th	e absence of in				
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Remarks: SOILS Profile Descri	The wetland	thas roughly three be to the depth ne etion, RM=Reduced Ma	e inches	of stan	nding water	throughou	t. onfirm the	e absence of in ore Lining, M=Matri		 	I	
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	thas roughly three be to the depth ne etion, RM=Reduced Ma Matrix	e inches	of stan	nent the indi	throughou cator or co Grains; Local	t. onfirm the tion: PL=P	e absence of in ore Lining, M=Matri es	(x)			
Remarks: SOILS Profile Descri	The wetland	thas roughly three be to the depth ne etion, RM=Reduced Ma	e inches	of stan	nding water	throughou cator or co Grains; Local	t. onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	thas roughly three be to the depth ne etion, RM=Reduced Ma Matrix	e inches	of stan	nent the indi	throughou cator or co Grains; Local	t. onfirm the tion: PL=P	e absence of in ore Lining, M=Matri es	(x)	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist)	e inches deded to deatrix, CS=C	docum Covered/ %	nent the indi //Coated Sand o	cator or cc Grains; Local Moist)	t. confirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matri es Type	(x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist)	e inches deded to deatrix, CS=C	docum Covered/ %	nent the indi	cator or cc Grains; Local Moist)	t. confirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matri es	(x)			
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist)	e inches deded to deatrix, CS=C	docum Covered/ %	nent the indi Coated Sand (Color (I	cator or co Grains; Local Moist)	t. confirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matri es Type	(x)		for Problemati	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetland iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist)	e inches deded to deatrix, CS=C	docum Covered/ %	nent the indi Coated Sand (Color (I	cator or co Grains; Local Moist)	t. confirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f		
Remarks: SOILS Profile Descri (Type: C=Concer	iption (Descrintration, D=Depl	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) Indicators (ch	e inches deded to deatrix, CS=C	docum Covered/ %	nent the indi Coated Sand (Color (I	cator or co Grains; Local Moist)	t. confirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descrintration, D=Depl	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) Indicators (chippedon	e inches deded to deatrix, CS=C	docum Covered/ %	nent the indi //Coated Sand of Color (I	cator or cc Grains; Local Moist) Moist) not presen edox Matrix	t. confirm the tion: PL=Pi Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) Indicators (ch	e inches deded to deatrix, CS=C	docum Covered/ %	nent the indi //Coated Sand of Color (I	cator or cc Grains; Local Moist) Moist) not presen edox Matrix fucky Minera	t. confirm th. tion: PL=Pi Mottle % t):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	ric Soil Field A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge	be to the depth neetion, RM=Reduced Matrix Color (Moist) Indicators (chaipedon stic in Sulfide	e inches deded to deatrix, CS=C	docum Covered/ %	color (I	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera Gleyed Matrix	t. confirm th. tion: PL=Pi Mottle % t):	e absence of in ore Lining, M=Matri es Type	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 Depression	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydrogei A5 - Stratified	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) Indicators (chaipedon stic on Sulfide Layers (LRR F)	e inches deded to deatrix, CS=C	docum Covered/ %	color (I	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mutrix Mutrix Eleyed Matrix I Matrix	t. confirm the tion: PL=Pi Mottle % t):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	c Soils¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) Indicators (chipedon in Sulfide Layers (LRR F) ck (LRR FGH)	e inches deded to deatrix, CS=C	docum Covered/ %	color (I	cator or co Grains; Local Moist) Moist) not presen edox Matrix lucky Minera Sleyed Matrix ark Surface	t. confirm the tion: PL=Pa Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SF F18 - Reduc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth ne etion, RM=Reduced Minimum Matrix Color (Moist) Indicators (chairpedon stic an Sulface Layers (LRR F) ck (LRR FGH) d Below Dark Surface	e inches deded to deatrix, CS=C	docum Covered/ %	color (I Color (I Color (I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted	cator or cc Grains; Local Moist) Moist) Mot presen edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface I Dark Surface	t. confirm the tion: PL=Pa Mottle % tt):	e absence of in ore Lining, M=Matri es 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 Ded Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	ric Soil Field 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 ne etion, RM=Reduced Matrix Color (Moist) Indicators (chipedon stic a Sulfide Layers (LRR FGH) ck (LRR FGH) d Below Dark Surface ark Surface	e inches deded to deatrix, CS=C	docum Covered/ %	color (I Color	cator or co Grains; Locat Moist) Moist) not presen edox Matrix flucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfa epressions	mottle % Mottle % tt):	e absence of in ore Lining, M=Matri es 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 Ced Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (L	e inches deded to deatrix, CS=C	docum Covered/ %	color (I Color	cator or co Grains; Locat Moist) Moist) not presen edox Matrix flucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfa epressions	mottle % Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced Mineral Lucky Peat or Peat (Lcky	e inches deded to deatrix, CS=C	docum Covered/ %	color (I Color	cator or co Grains; Locat Moist) Moist) not presen edox Matrix flucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfa epressions	mottle % Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sr F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr Restrictive Layer	r Type:	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) Indicators (chair)	e inches deeded to deatrix, CS=C	docum Covered/ %	color (I Color	cator or cc Grains; Local Moist) Moist) Mot presen edox Matrix Mucky Minera Eleyed Matrix ark Surface I Dark Surfa epressions ains Depres	month the control of	e absence of in ore Lining, M=Matrices Type Type RA 72, 73 of LRR	Location Location Location Location Location Location	Indicators of Management of Ma	luck (LRR I, J) Prairie Redox i Prairie Redox i Plains Depressic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	r Type:	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) Indicators (chair)	e inches deeded to deatrix, CS=C	docum Covered/ %	color (I Color	cator or cc Grains; Local Moist) Moist) Mot presen edox Matrix Mucky Minera Eleyed Matrix ark Surface I Dark Surfa epressions ains Depres	month the control of	e absence of in ore Lining, M=Matrices Type Type RA 72, 73 of LRR	Location Location Location Location Location Location	Indicators of Management of Ma	luck (LRR I, J) Prairie Redox i Prairie Redox i Plains Depressic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-157n48w1-a1			
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius)							
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)			
3.					· · · · · · · · · · · · · · · · · · ·			
4.					Total Number of Dominant Species Across All Strata: 1 (B)			
					Total Number of Dominant Species Across All Strata.			
5.					(4.5)			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 25 x 1 = 25			
	 Total Cover =	0			FACW spp. 75 x 2 = 150			
			_		FAC spp. 0 x 3 = 0			
Conling/Chrub	Stratum (Diet aire) 15 ft radius)				···			
	Stratum (Plot size: 15 ft. radius)				· · · · · · · · · · · · · · · · · · ·			
1.					UPL spp. 0 x 5 = 0			
2.								
3.					Total 100 (A) 175 (B)			
4.								
5.					Prevalence Index = B/A = 1.750			
6.								
7.								
8.					Hydronhytia Vagatation Indicators:			
					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Phalaris arundinacea	75	Υ	FACW				
2.	Eleocharis palustris	15	N	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Typha angustifolia	10	N	OBL	present, unless disturbed or problematic.			
4.				OBL	Definitions of Vegetation Strata:			
5.					Definitions of Vegetation offata.			
				-	T			
6				-	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
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.								
				_	Woody Vines All woody vines regardless of height			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	100	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.	,							
2.								
3.					Hydrophytic Vegetation Present? Y			
5. 5.					Tryurophytio rogotution riesenti			
4.	T	^		_				
	Total Cover =	0						
Remarks:	The wetland vegetation is dominated by Pha	iaris arund	ınacea wit	n some E	leocharis palustris and Typha angustifolia mixed in.			
Additional F	Remarks:							
Additional Remarks:								
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