WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/26/14
Applicant:		Enbridge								County:	Marshall
Investigators	:	NTT/KRG		Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	I133A					NWI	Classification:			1	
Landform:	Depression			Lo	cal Relief:	CL				Sample Point	w-158n48w8-b1
Slope (%):	0 - 2%		tude: 48.52		Longitude:			Datum:			
Are climatic/	hydrologic co	onditions on the site typ	pical for this	s time of yea	ar? (If no, exp	lain in rema	ırks)	□ Yes	⊠ No	Section:	
Are Vegetation		I □, or Hydrology □si	•			Are	e normal circum	istances pre	sent?	Township:	
Are Vegetation		I □, or Hydrology □a	aturally prob	blematic?			⊠ Yes	□ No		Range:	Dir:
SUMMARY C	of Finding	S									
Hydrophytic '	•		Yes		_			Hydric Soils			
Wetland Hyd			Yes							t Within A W	
Remarks:	The wetland heavy rains		ated within	a roadside	ditch and c	lominate	d by Rumex ste	enophyllus.	The area h	as above-ave	erage water levels due to recent
HYDROLOG	Y										
		icators (Check all that	t apply: Mir	nimum of on	e nrimarv	or two se	econdary requir	ed).			
Primary	•••		t apply, Mil		c prinary	01 100 30		Cu).	Secondary:		
	A1 - Surface	Water			B11 - Salt (Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water M B2 - Sedimer				C2 - Dry Se		ter Table pheres on Living I	Poots (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese					•	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M					D2 - Geomorp	U
	B5 - Iron Dep	osits			Other (Exp	lain)			\checkmark	D5 - FAC-Neu	
		on Visible on Aerial Imager	ry							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Field Observ				0							
Surface Wat			Depth:		_ (in.)			Wetland H	ydrology l	Present?	Υ
Water Table		Yes 🗆	Depth:		_ (in.)				,		
Saturation P	resent?	Yes 🛛	Depth:	0	_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: The wetland is in a flooded roadside ditch with above-normal water levels throughout; some areas contain up to 8 inches of water.											
	SOILS										
Profile Descri		ibe to the depth neede									
Profile Descri		ibe to the depth neede letion, RM=Reduced Matrix,									
Profile Descri		etion, RM=Reduced Matrix,				ion: PL=Po	ore Lining, M=Matri				
Profile Descri (Type: C=Concer		etion, RM=Reduced Matrix, Matrix	CS=Covered	/Coated Sand	Grains; Locat	ion: PL=Po Mottle	ore Lining, M=Matri	x)	Toyturo		Romarks
Profile Descri		etion, RM=Reduced Matrix,			Grains; Locat	ion: PL=Po	ore Lining, M=Matri		Texture		Remarks
Profile Descri (Type: C=Concer		etion, RM=Reduced Matrix, Matrix	CS=Covered	/Coated Sand	Grains; Locat	ion: PL=Po Mottle	ore Lining, M=Matri	x)	Texture		Remarks
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Profile Descri (Type: C=Concer Depth (In.)		Matrix Matrix Color (Moist)	CS=Covered	Color (Grains; Locat Moist)	ion: PL=Po Mottle	ore Lining, M=Matri es Type	x)	Texture		Remarks
Profile Descri (Type: C=Concer		Matrix Matrix Color (Moist)	CS=Covered	/Coated Sand	Grains; Locat Moist)	ion: PL=Po Mottle	ore Lining, M=Matri	x) Location			
Profile Descri (Type: C=Concer Depth (In.)	ic Soil Field	Matrix Matrix Color (Moist)	CS=Covered %	Color (Grains; Locat Moist)	ion: PL=Po Mottle	ore Lining, M=Matri es Type	x)	Indicators f	or Problematic	
Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field	Matrix Color (Moist)	CS=Covered	Color (Color (icators are r	Grains; Locat Moist) not present edox	ion: PL=Po Mottle	ore Lining, M=Matri es Type	x) Location	Indicators f	luck (LRR I, J)	<u>c Soils¹</u>
Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep	Matrix Matrix Color (Moist)	CS=Covered	l/Coated Sand Color (Color (L L L L L L L L L L L Color (L L L L L L L L L L L L L L L L L L L	Grains; Locat Moist) Not present edox Matrix	ion: PL=Po Mottle %	ore Lining, M=Matri es Type	x) Location	Indicators f A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	<u>c Soils¹</u> _RR F, G, H)
Profile Descri (Type: C=Concer Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi	Matrix Matrix Color (Moist)	CS=Covered	Color (Color (L L L L Color (Solor (Solor Sandy R Solor Sandy R Solor Stripped F1 - Loamy N	Grains; Locat Moist) Moist) not present edox Matrix Jucky Minera	ion: PL=Po Mottle % t):	ore Lining, M=Matri es Type	x)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si	luck (LRR I, J) Prairie Redox (L urface (LRR G)	<u>c Soils¹</u> ₋RR F, G, H)
Profile Descri (Type: C=Concer Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Matrix Matrix Color (Moist) Indicators (check Dipedon stic n Sulfide	CS=Covered	Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Bleyed Matrix	ion: PL=Po Mottle % t):	ore Lining, M=Matri es Type	x) Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	<u>c Soils¹</u> _RR F, G, H)
Profile Descri (Type: C=Concer Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Matrix Matrix Color (Moist)	CS=Covered	Color (Color (L L L L Color (Solor (Solor) Color (Color) Color (Solor) Color) Color (Solor) Color (Solor) Color) Color (Color) Color) Color) Color (Color) Color	Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Gleyed Matrix	ion: PL=Po Mottle %	ore Lining, M=Matri es Type	x)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	<u>c Soils¹</u> ₋RR F, G, H)
Profile Descri (Type: C=Concer Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	Matrix Matrix Color (Moist) Color (Moist) Indicators (check bipedon stic n Sulfide Layers (LRR F) ick (LRR FGH) ed Below Dark Surface	CS=Covered	Icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted	Grains; Locat Moist) Moist) not present edox Matrix Aucky Minera Bleyed Matrix Jark Surface Dark Surface	Mottle %	ore Lining, M=Matri es Type	x)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S	<u>c Soils¹</u> LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73)
Profile Descri (Type: C=Concer Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	Matrix Matrix Color (Moist) Color (Moist) Indicators (check Dipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface Dark Surface	CS=Covered	ICoated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Gleyed Matrix Mucky Minera Gleyed Matrix Matrix Dark Surface Dark Surfa Depressions	ion: PL=Po Mottle % t):	ore Lining, M=Matri es Type □	x)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ed Vertic Parent Material	<u>c Soils¹</u> LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73)
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Profile Descri (Type: C=Concer Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi 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	Ietion, RM=Reduced Matrix, Matrix Color (Moist) Color (Moist) Indicators Indicators (check Dipedon stic n Sulfide I Layers (LRR F) Ick (LRR FGH) Ed Below Dark Surface Dark Surface Jucky Mineral Jucky Peat or Peat (LRR F) Icky Peat or Peat (LRR F)	CS=Covered %	ICoated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Gleyed Matrix Mucky Minera Gleyed Matrix Matrix Dark Surface Dark Surfa Depressions	ion: PL=Po Mottle % t):	ore Lining, M=Matri es Type □	x)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Sr F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73)
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Profile Descri (Type: C=Concer Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi 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 S4 - Sandy G r Type: Soils were	Indicators (check Dipedon (check) Dipedon<	CS=Covered	Color (Color (Color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl Depth:	Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Bleyed Matrix Park Surface Dark Surface Dark Surface Dark Surface	ion: PL=Po Mottle %	Pre Lining, M=Matri PS Type	x) Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	c Soils ¹ LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-158n48w8-b1			
VEGETATIO		e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet			
1.		<u>// Cover</u>	Dominant	<u>inu.Status</u>				
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)			
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. $0 x 1 = 0$			
	Total Cover =	0	FACW spp. 45 x 2 = 90					
					OBL spp. 0 x 1 = 0 FACW spp. 45 x 2 = 90 FAC spp. 10 x 3 = 30 FACU spp. 5 x 4 = 20			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20			
1.					UPL spp. 0 $x 5 = 0$			
2.								
3.					Total <u>60</u> (A) <u>140</u> (B)			
4.								
5.					Prevalence Index = $B/A = 2.333$			
6.								
7.					Hydrophytic Vegetation Indicators,			
<u>8.</u> 9.					Hydrophytic Vegetation Indicators:			
<u> </u>					Rapid Test for Hydrophytic Vegetation X Dominance Test is > 50%			
10.	 Total Cover =	0			$\frac{X}{X} = \frac{1}{2} \text{Dominance rest is } 50\%$			
		0	_					
Harb Stratum ((Plot size: 5 ft radius)				Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius) Rumex stenophyllus	30	V	FACW	Problem Hydrophytic Vegetation (Explain) *			
2.	Hordeum jubatum	10		FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Echinochloa crus-galli	10	N	FAC	present, unless disturbed or problematic.			
4.	Phalaris arundinacea	5	N	FACW	Definitions of Vegetation Strata:			
5.	Phleum pratense	5	N	FACU				
6		0			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 =	60	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3. <i>F</i>					Hydrophytic Vegetation Present? Y			
5.								
4.	Total Cover =	0						
Remarks:		_	ndina wate	r hut Pu	nex stenophyllus and Hordeum jubatum are dominant.			
Nomaina.	The wettand vegetation is sparse due to pour	SUS OF SIG	ionig wate	a, but itul	nex stehophynus and hordeum jubatum are dominant.			
Additional F	Romarks							