WETLAND DETERMINATION DATA FORM Great Plains Region

D : (/O:		LOD	T								In a	00/10/14
Project/Site:		L3R									Date:	09/16/14
Applicant:		Enbridge									County:	Marshall
Investigators	:	RAJ/BJC				Subregion	า (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I15A						NWI	Classification:			1	
Landform:	Dip			_	Ιo	cal Relief:	CC				Sample Point	w-156n46w33-h1
Slope (%):	0 - 2%		Latitude: 4	18 202		Longitude:		880	Datum:			<u></u>
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		nditions on the sit				If ? (If no, exp				□ No	Section:	
Are Vegetation	on 🗵 Soil	☑, or Hydrology	⊏signific	cantly d	listurbed?		Are	e normal circum	stances pre	esent?	Township:	
Are Vegetation	on 🛭 Soil	□, or Hydrology	□aturall	ly probl	lematic?			Yes	□ No		Range:	Dir:
SUMMARY C	F FINDINGS											
Hydrophytic \			\	Yes					Hydric Soil	c Drocont?	Voc	
	_		-			•						atle a do Vas
Wetland Hyd				Yes							nt Within A We	
Remarks:		_									-	anted through this spring, but the soil and vegetation are disturbed by
HYDROLOG												
HYDROLOG	Y											
Wetland Hy	drology Indi	cators (Check all	I that appl	ly: Mini	imum of on	e primary o	or two se	econdary requir	ed):			
Primary:		()		.,,		- p		, , , , , , , , , , , , , , , , , , ,	, -	Secondary:	•	
<u> </u>	A1 - Surface V	Vater				B11 - Salt C	Crust				B6 - Surface S	oil Cracks
☐ A1 - Surface Water ☐ A2 - High Water Table						B13 - Aquatic Fauna						Vegetated Concave Surface
	A3 - Saturation					C1 - Hydrog		a Odor			B10 - Drainage	
	B1 - Water Ma				_							
						C2 - Dry Se			D = = 4 = . (= = 4 + !!!			Rhizospheres on Living Roots (tilled)
	B2 - Sediment	•						pheres on Living I	Roots (not till		C8 - Crayfish E	
	B3 - Drift Depo					C4 - Preser						No Visible on Aerial Imagery
	B4 - Algal Mat					C7 - Thin M		ace		✓	D2 - Geomorpl	
	B5 - Iron Depo					Other (Expl	ain)			✓	D5 - FAC-Neut	
	B7 - Inundation	n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-Sta	ained Leaves										
Field Observ	otional											
Surface Wate	er Present?	Yes □	[Depth:		(in.)			Motland H	lydrology.	Drocont?	V
Water Table	Present?	Yes □	1	Depth:		(in.)			Wetland H	iyarology	Present?	Y
Saturation Pr		Yes		Depth:		(in.)						
Saturation	esent:	162 -	'	Depuii		, (III. <i>)</i>						
Describe Reco	orded Data (s	tream gauge, mon	itoring wel	II, aeria	l photos, pre	evious inspe	ections),	l if available:				
		tream gauge, mon			l photos, pro	evious inspe	ections),	if available:				
Describe Reco		tream gauge, mon wetland hydrolog			l photos, pre	evious inspe	ections),	if available:				
Remarks:					l photos, pre	evious inspe	ections),	if available:				
Remarks:	Indicators of	wetland hydrolog	gy are pre	esent.		·	·					
Remarks: SOILS Profile Descri	Indicators of ption (Descri	wetland hydrolog	gy are pre	esent.	ent the indi	cator or co	onfirm the	e absence of inc				
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Remarks: SOILS Profile Descri	Indicators of ption (Descri	wetland hydrologoe to the depth ne	gy are pre	esent.	ent the indi	cator or co	onfirm the	e absence of incore Lining, M=Matri				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 NRCS Hydr	tration, D=Depleteration, D=Depleteratio	wetland hydrolog be to the depth new tion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (chapedon tich sulfide Layers (LRR F) ck (LRR FGH)	eeded to datrix, CS=C	% 100 100 sif indic	Color (Coated Sand Coated Sand Coated Sand Color (Color (Color (Color Sandy Research Sandy Resea	cator or co Grains; Locati Moist) not present edox Matrix lucky Minera lleyed Matrix Matrix Matrix ark Surface	Mottle %	e absence of incore Lining, M=Matrixes Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemation for Problemation fuck (LRR I, J) Frairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 NRCS Hydr	tration, D=Depleter Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter	wetland hydrolog be to the depth new tion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (chapedon tich a Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface	eeded to datrix, CS=C	% 100 100 if indic	cators are respectively control of the control of t	cator or co Grains; Locati Moist) ot present edox Matrix lucky Minera eleyed Matrix Matrix Matrix ark Surface Dark Surface	Mottle %	e absence of incore Lining, M=Matrixes Type	Location	Indicators 1 A9 - 1 cm W A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 NRCS Hydr	tration, D=Depleter A1 - Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da	wetland hydrolog be to the depth new tion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (chapedon tich a Sulfide Layers (LRR F) ck (LRR FGH) cd Below Dark Surface ark Surface	eeded to datrix, CS=C	covered/Covere	cators are respectively control of the indicated Sand of the Color (Inc.) Color (Inc.	cator or co Grains; Location Moist) Moist) oot present edox Matrix lucky Mineral eleyed Matrix Matrix ark Surface Dark Surface epressions	Mottle %	e absence of incore Lining, M=Matrixes Type	Location	Indicators 1 A9 - 1 cm W A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation for Problemation fuck (LRR I, J) Frairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 NRCS Hydr	tration, D=Depleteration, D=Depleteratio	wetland hydrolog be to the depth new tion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (characters) Expected to the depth new tion of the color (Moist) Pedon tich to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the color (eeded to datrix, CS=C	covered/Covere	cators are respectively control of the indicated Sand of the Color (Inc.) Color (Inc.	cator or co Grains; Location Moist) Moist) oot present edox Matrix lucky Mineral eleyed Matrix Matrix ark Surface Dark Surface epressions	Mottle %	e absence of incore Lining, M=Matrixes Type	Location	Indicators of PSL VFSL Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of PSL)	for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	ESoils ¹ [LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 NRCS Hydr	htration, D=Depleter Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy Gl	wetland hydrolog be to the depth new tion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (characters) Expected to the depth new tion of the color (Moist) Pedon tich to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the color (eeded to datrix, CS=C	covered/Covere	cators are respectively control of the control of t	cator or co Grains; Location Moist) Moist) oot present edox Matrix lucky Mineral eleyed Matrix Matrix ark Surface Dark Surface epressions	Mottle %	e absence of incore Lining, M=Matrixes Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed)	for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	ESoils ¹ [LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 NRCS Hydr	ration, Describitration, Depleted Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Mu S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy Gl	wetland hydrolog be to the depth new tion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (characters) Expected to the depth new tion of the color (Moist) Pedon tich to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the depth new to the color (LRR F) Expected to the color (eeded to datrix, CS=C	covered/Covere	cators are respectively control of the indicated Sand of the Color (Inc.) Color (Inc.	cator or co Grains; Location Moist) Moist) oot present edox Matrix lucky Mineral eleyed Matrix Matrix ark Surface Dark Surface epressions	Mottle %	e absence of incore Lining, M=Matrixes Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed)	for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	ESoils ¹ [LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 NRCS Hydr	ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydrogen A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm M S3 - 5 cm Muc S4 - Sandy Gla Type:	wetland hydrolog be to the depth new etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (characters) Expected to the depth new etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (characters) Expected to the depth new etion, RM=Reduced M Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth new etion, RM=Reduced M Indicators (characters) Expected to the depth ne	eeded to datrix, CS=C	% 100 100 if indices if indices in Figure 1 in Figure	cators are respectively control of the control of t	cator or co Grains; Locati Moist) not present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depress	Mottle % Al c ce sions (ML	e absence of incore Lining, M=Matrixes Type RA 72, 73 of LRR	Location H)	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed Y	for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks) hydrophytic vegetated or problematic.	ESoils 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-156n46w33-h1
,					·
VEGETATIO	N (Species identified in all uppercase	are non-native	e species.)		
	(Plot size: 30 ft. radius)		opcoloci./		
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u> </u>	7,000.0	<u> </u>		
2.	1				Number of Deminant Species that are OBL EACW or EAC:
					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:3(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.					
8.		_			Prevalence Index Worksheet
9.					
10.	Total Cause				OBL spp. <u>56</u> x 1 = <u>56</u>
	Total Cover	= 0			FACW spp. 26
					OBL spp. 56
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				$FACU spp. \qquad 20 \qquad X 4 = \qquad 80$
1.		7			UPL spp. $0 x 5 = 0$
2.					
3.					Total 108 (A) 206 (B)
4.		-			
5.					Prevalence Index = $B/A = 1.907$
					- Prevalence index = B/A = 1.907
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.		1			X Dominance Test is > 50%
	Total Cover	= 0			X Prevalence Index is ≤ 3.0 *
	. 3.3 33				
11-1-0(((District of the self-self-self-self-self-self-self-self-				Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)			OBL	Problem Hydrophytic Vegetation (Explain) *
1.	Beckmannia syzigachne	50	Y	OBL	4
2.	Elymus repens	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Persicaria maculosa	20	Υ	FACW	present, unless disturbed or problematic.
4.	Rorippa palustris	5	N	OBL	Definitions of Vegetation Strata:
5.	Rumex crispus	5	N	FAC	1
6	Poa palustris	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.		1 1	N	OBL	height (DBH), regardless of height.
	Persicaria lapathifolia	1 4			
8.	Hordeum jubatum	1	N	FACW	
9.	Echinochloa crus-galli	1	N	FAC	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.		1			1
14.					1
15.	,	1			Woody Vines - All woody vines, regardless of height.
13.	T + 10	400			- vvoody villes - / iii woody villoo, rogardiooc of fiolgrid.
	Total Cover	= 108			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.		1			
4.	<u>'</u>	1			
4.	Total Cavan				
	Total Cover				
Remarks:	A wet meadow dominated by slough grass	, quack gras	ss, and lad	y's thumb	smartweed. Hydrophytic vegetation is present.
Additional F	Remarks:				
Additional	voiliai Noi				-