WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/26/14	•
Applicant:		Enbridge			0.1	- /A #1	\	MI DA 50		County:	Pennington	
Investigators		BJC/RAJ			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	169A			_	I D - I' - (-		I Classification	:			450-, 4404	
Landform:	Talf 0 - 2%		1 04:440. 10 10		cal Relief:		04.40	Detum		Sample Point 	u-153n44w3-e1	
Slope (%):		nditions on the site	Latitude: 48.10		Longitude:			Datum:	□ No	Section:		
	·		7 1		air (ir no, exp	1	· · · · · · · · · · · · · · · · · · ·			1		
Are Vegetation Are Vegetation			□significantly □aturally pro			Aic	e normal circur ☑ Yes		esent	Township:	Dir:	
SUMMARY C			Haturally pro	blematic:			<u> </u>	□ I 10 0		Range:	DII.	
Hydrophytic \			No					Hydric Soi	Is Present?	Yes		
Wetland Hyd	•		No		•					nt Within A W	/etland? No	
Remarks:				hean field tha	at has vet	to be ha	rvested. The so				vegetation is distu	rhed due to
- Komanto	•	oplication and tillag	•		at had you	to be na	rvootodi ino ot	one are diete		s unago. Trio	vogotation to alota	
HYDROLOG		phoduon and imag	,01									
		inatara (Chank all	that are by NA	, i.e.,				(no al) -				
Primary:	•	icators (Check all	tnat apply; IVII	nimum of on	e primary	or two s	econdary requi	rea):	Secondary:			
	<u>.</u> A1 - Surface	Water		П	B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua		1				Vegetated Concave S	Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainag		
	B1 - Water M				C2 - Dry S			Doots (not till			Rhizospheres on Livir	ng Roots (tilled)
	B2 - Sedimer B3 - Drift Dep	•					spheres on Living educed Iron	Roots (not till		C8 - Crayfish	Burrows on Visible on Aerial Ima	agen/
	B4 - Algal Ma				C7 - Thin N					D2 - Geomory		agery
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neu		
		on Visible on Aerial Ima	agery							D7 - Frost-He	aved Hummocks (LRF	R F)
	B9 - Water-S	ained Leaves										
Field Observe												
Field Observ			5		/! \							
Surface Wate		Yes		:	. (in.)			Wetland F	lydrology l	Present?	N	
Water Table		Yes	•	:	(in.)				, ,,			
Saturation Pr	resent?	Yes □	Depth	:	(in.)							
					<u> </u>							
Describe Rec	orded Data (stream gauge, monit	toring well, aer	ial photos, pro	<u> </u>	ections),	l , if available:					
Describe Reco	`	stream gauge, monit			<u> </u>	ections),	, if available:					
Remarks:	`				<u> </u>	ections),	, if available:					
Remarks:	No indicato	rs of wetland hydro	ology were obs	served.	evious insp							
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were obs	served.	evious insp	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were obs	served.	evious insp	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No indicato	be to the depth neetion, RM=Reduced Ma	ology were obs	served.	evious insp	onfirm th	e absence of in ore Lining, M=Mat					
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth neterion, RM=Reduced Ma	eded to docur	nent the indi	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in Fore Lining, M=Mat	rix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist)	eded to docuratrix, CS=Covered	served.	evious insp cator or co Grains; Loca	onfirm th	e absence of in ore Lining, M=Mat		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No indicato iption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to docure trix, CS=Covered %	ment the indicated Sand Coolor (cator or co	onfirm th tion: PL=P Mottl	e absence of in Fore Lining, M=Mat es Type	Location	Texture C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to docuratrix, CS=Covered	nent the indi	cator or co	onfirm th tion: PL=P Mottl	e absence of in Fore Lining, M=Mat	rix)	Texture C C		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No indicato iption (Descriptration, D=Depl Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	eded to docur etrix, CS=Covered % 100 95	ment the indicated Sand (Coated Sand (Hue_10YR	cator or co Grains; Loca Moist)	Mottl %	e absence of in Fore Lining, M=Mat es Type C	Location	Texture C C		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No indicato iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	eded to docur etrix, CS=Covered % 100 95	ment the indicated Sand Coated Sand Coated Sand Color (Indicated S	cator or co Grains; Loca Moist) 5/8	Mottl %	e absence of in Fore Lining, M=Mat es Type C	Location	C C	for Problemati	ic Soils¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No indicato Iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth nedetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (che	eded to docur etrix, CS=Covered % 100 95	ment the indicators are r	cator or co Grains; Loca Moist) 5/8 not presen	Mottl %	e absence of in Fore Lining, M=Mat es Type C	Location	C C Indicators f A9 - 1 cm M	luck (LRR I, J)	ic Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No indicato iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth nedetion, RM=Reduced Marix Color (Moist) 2/1 5/2 Indicators (checking)	eded to docur etrix, CS=Covered % 100 95	ment the indicated Sand Coated Sand Coated Sand Color (Indicated S	cator or cograins; Loca Moist) 5/8 not presen edox Matrix	mottl % 5 t):	e absence of in Fore Lining, M=Mat es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J)	i c Soils¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth nedetion, RM=Reduced Marix Color (Moist) 2/1 5/2 Indicators (checking Sulfide	eded to docur etrix, CS=Covered % 100 95	color (Indicators are respectively S5 - Sandy Respectively S6 - Stripped F1 - Loamy No. F2 - Loa	cator or co Grains; Loca Moist) 5/8 not presented with the content of the conte	mottl Mottl % 5 t):	e absence of in Fore Lining, M=Mat es Type C	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 Depressi	i c Soils¹ (LRR F, G, H)	73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (checking Sulfide Layers (LRR F)	eded to docure trix, CS=Covered 95 100 95 eck here if income	Color (I Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or cograins; Loca Moist) 5/8 not presented with the company of the compa	mottl Mottl % 5 t):	e absence of in Fore Lining, M=Mat es Type C	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 Depressi ced Vertic	i c Soils¹ (LRR F, G, H)	73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth need to the de	eded to docure trix, CS=Covered 95 100 95 eck here if inces	color (Indicators are respectively served). Color (Indicators are respectively served). Color (Indicators are respectively served).	cator or co Grains; Loca Moist) 5/8 not presen edox Matrix Mucky Miner Bleyed Matri I Matrix ark Surface	mottl Mottl % 5 t):	e absence of in Fore Lining, M=Mat es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	i <mark>c Soils¹</mark> (LRR F, G, H)) ions (LRR H, outside MLRA 72,	73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 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 A11 - Deplete	be to the depth nedetion, RM=Reduced Marix Color (Moist) 2/1 5/2 Indicators (checking Sulfide Layers (LRR FGH) and Below Dark Surface	eded to docure trix, CS=Covered 95 100 95 eck here if inces	color (Indicators are respectively served). Color (Indicators are respectively served). Solve the served of the	cator or co Grains; Loca Moist) 5/8 not presented with the content of the conte	mottl Mottl % 5 t):	e absence of in Fore Lining, M=Mat es Type C	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 Depressi ced Vertic Parent Material Shallow Dark	ic Soils ¹ (LRR F, G, H)) ions (LRR H, outside MLRA 72,	73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 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 A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (check the color stice in Sulfide Layers (LRR F) ck (LRR FGH) and Below Dark Surface ark Surface ark Surface	eded to docure trix, CS=Covered 95 100 95 eck here if inces	Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Loca Moist) 5/8 oot presen edox Matrix fleyed Matri I Matrix ark Surface I Dark Surface epressions	mottl Mottl % 5 t):	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 Depressi ced Vertic Parent Material	ic Soils ¹ (LRR F, G, H)) ions (LRR H, outside MLRA 72,	73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w3-e1
					<u> </u>
VEGETATIO	N (Species identified in all uppercase a	are non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.		1			
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.	<u></u>	1			(/ ()
8.	<u> </u>				Prevalence Index Worksheet
9.					
10.	<u> </u>				Total % Cover of: OBL and V 1 -
10.	_l Total Cover	= 0			
	Total Cover	=	_		FACV Spp. 0
0 1: (0) 1 (0 (D)				OBL spp. 0
	Stratum (Plot size: 15 ft. radius)	_			FACU spp. 0 X 4 = 0
1.					UPL spp. $90 x 5 = 450$
2.					
3.					Total 90 (A) 450 (B)
4.					
5.					Prevalence Index = B/A = 5.000
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) *
Herh Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	90	Υ	NI	rroblem riyarophytic vegetation (Explain)
2.	Glycine max	30	•		* Indicators of hydric soil and wetland hydrology must be
		1		_	present, unless disturbed or problematic.
3.		1			·
4.					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.
	Total Cover	= 90			-
	Total Cover		_		
Moody Vino St	rotum (Plot pize: 20 ft rodius)				
	ratum (Plot size: 30 ft. radius)				
1.				_	
2.				_	Uhadaaahadia Waaatadiaa Baaaaato Ni
3.		-			Hydrophytic Vegetation Present?N
5.				_	
4.					
	Total Cover				
Remarks:	The upland is dominated by healthy soybea	ans.			
Additional R	Remarks:				
, aditional i					