WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R Applicant: Enbridge											09/30/14
Applicant: Enbridge			4		Oulana ai a	/NAL D A	County:	Pennington			
Investigators	•				_Subregio	•	or LRR):		State:	MN	
Soil Unit: Landform:	I55A Side slope			cal Relief:		I Classification:			Sample Point	u-153n44w12-a1	
Slope (%):	8 - 15%	Latitude	48.082		Longitude:		3369	Datum:			u-1331144W12-d1
. ,		nditions on the site typica						✓ Yes	□ No	Section:	
Are Vegetation				disturbed?		1	e normal circum			Township:	
Are Vegetation	•	problematic?			□ Yes ☑ No			Range:	Dir:		
SUMMARY C			7 1							J	
Hydrophytic \	Vegetation Pi	esent?	No					Hydric Soil	ls Present?	No	
Wetland Hydrology Present?			No				Is This Sampling Poi				etland? No
Remarks:	•				has been r	ecently	planted for the	winter. The	soils are dis	sturbed due t	o tilling. The vegetation is
	disturbed du	ue to herbicide application	n and til	ling.							
HYDROLOG	Y										
<u>Primary:</u>	<u>:</u>	cators (Check all that ap	ply; Mir	nimum of or			econdary requi	red):	Secondary:		
	A1 - Surface \				B11 - Salt					B6 - Surface S	
	A2 - High Wat A3 - Saturatio				B13 - Aqua C1 - Hydro					B10 - Sparsely	Vegetated Concave Surface
	B1 - Water Ma				C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sediment	t Deposits			C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish I	Burrows
	B3 - Drift Dep						educed Iron				n Visible on Aerial Imagery
	B4 - Algal Mat B5 - Iron Depo				C7 - Thin N Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu	
		n Visible on Aerial Imagery			Other (Exp	nairi)					aved Hummocks (LRR F)
	B9 - Water-St								_	2	(,
Field Observ											
Surface Wate		Yes	Depth:		_ (in.)			Wetland F	lvdrology l	Present?	N
Water Table		Yes	Depth:		_ (in.)		Wetland Hydrology Present? N				
Saturation Pr	resent?	Yes	Depth:		(in.)						
			•		_ (****/						
Describe Rec	orded Data (s	tream gauge, monitoring w				ections),	, if available:				
Describe Reco	· · · · · · · · · · · · · · · · · · ·		/ell, aeri	al photos, pr		ections),	, if available:				
Remarks:	· · · · · · · · · · · · · · · · · · ·	tream gauge, monitoring w	/ell, aeri	al photos, pr		ections),	, if available:				
Remarks:	No indicator	tream gauge, monitoring was of wetland hydrology w	/ell, aeria	al photos, pr erved.	evious insp	•		edicatora)			
Remarks: SOILS Profile Descri	No indicator	tream gauge, monitoring was of wetland hydrology was	vell, aeris	al photos, prerved.	evious insp	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	No indicator	tream gauge, monitoring was of wetland hydrology w	vell, aeris	al photos, prerved.	evious insp	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	No indicator	tream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS=	vell, aeris	al photos, prerved.	evious insp	onfirm th	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	tream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS=	vell, aeri ere obs o docum =Covered	al photos, prerved. nent the individual of the content of the con	evious inspicator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	tream gauge, monitoring was of wetland hydrology we be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist)	vell, aeria	al photos, prerved.	evious inspicator or co	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No indicator iption (Descri	be to the depth needed to the deion, RM=Reduced Matrix Color (Moist) 2/1	yell, aeris ere obs docum =Covered 100	al photos, prerved. nent the individual of the content of the individual of the content of the	cator or co	Mottl	e absence of in Fore Lining, M=Matr es Type	ix)			Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No indicator	be to the depth needed to the deion, RM=Reduced Matrix Color (Moist) 2/1	yell, aeris ere obs docum =Covered 100	al photos, prerved. nent the individual of the content of the con	cator or co	Mottl	e absence of in ore Lining, M=Matr	ix)	SC	or Problemati	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicator iption (Descri	be to the depth needed to the deion, RM=Reduced Matrix Color (Moist) 2/1	/ell, aeris ere obs O docum =Covered 100 re if ind	al photos, prerved. nent the individual of the	icator or co Grains; Local	Mottl	e absence of in Fore Lining, M=Matr es Type	Location	SC Indicators f	or Problemation	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No indicator iption (Descrintration, D=Deple Hue_10YR ric Soil Field A1- Histosol	tream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 Indicators (check he	/ell, aeris ere obs o docum =Covered 100 re if ind	al photos, preved. nent the individual of the i	icator or co Grains; Local	Mottl	e absence of in Fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	iption (Descrintration, D=Depletentration, D=Depletentration) Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger	tream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 Indicators (check he ipedon etic of Sulfide	/ell, aeris ere obs o docum =Covered 100 re if ind	al photos, preved. nent the individual coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C	icator or co Grains; Local Moist) not presen Redox d Matrix Mucky Minera	mottl Mottl w tion: PL=P	e absence of in Fore Lining, M=Matr 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 Depressio	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	tream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 Indicators (check he ipedon stic in Sulfide Layers (LRR F)	/ell, aeris ere obs O docum =Covered 100 re if ind	al photos, preved. nent the individual coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted	icator or co Grains; Local Moist) Moist) Redox d Matrix Mucky Mineral Gleyed Matrix d Matrix	mottl Mottl % tion: PL=P	e absence of in Fore 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 Depressi ed Vertic	c Soils ¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	iption (Descrintration, D=Depleter) Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	tream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 Indicators (check he ipedon etic in Sulfide Layers (LRR F) ek (LRR FGH) id Below Dark Surface	/ell, aeris ere obs o docum =Covered 100 re if ind	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox E F7 - Depleted	mot presented Matrix Mucky Mineral Gleyed Matrix Dark Surfaced Dark Surfaced	mottl Mottl w t):	e absence of in Fore Lining, M=Matr 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 ed Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	tream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ark Surface	/ell, aeris ere obs O docum =Covered 100 re if ind	al photos, preved. nent the individual coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox F F7 - Depleted F8 - Redox F	icator or configurations (Moist) Moist) Redox d Matrix Mucky Mineral Gleyed Matrix Dark Surface d Dark Surface	monfirm the tion: PL=P Mottl % t): al x ace	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 ed Vertic Parent Material	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w12-a1
-					
VEGETATION		re non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species rvairie</u>	<u> 70 00001</u>	Dominant	<u>ma.otatas</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (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: (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	_l Total Cover =	0			OBL spp.
	Total Cover =		_		FACW spp. 0
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.	Stratam (Fiot size: 15 ft. radius)				UPL spp. $\frac{70}{70}$ $\frac{x}{5} = \frac{350}{350}$
2.					
3.					Total 70 (A) 350 (B)
4.					
5.					Prevalence Index = B/A = 5.000
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Total Cayor				Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is ≤ 3.0 *
Llowb Ctroture (Diet size. Eft. redicts				Morphological Adaptations (Explain) *
1.	Plot size: 5 ft. radius) Triticum aestivum	70		NI	Problem Hydrophytic Vegetation (Explain) *
2.	Thicam destivant	70	<u> </u>	111	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
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.
15.	Total Cover =	70			- Woody Villes - 7 in Woody Villes, Togardiose of Height.
	Total Cover =	70	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	Tatam (Fiot Size: Go It: Tadias)				
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	The upland sample point is dominated by w	heat sprout	S.		
Additional R	Remarks:				