WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14
Applicant: Enbridge							County:	Pennington			
Investigators: NTT/BEH					Subregio	`	State:	MN			
Soil Unit:	I48A			_			I Classification	·			
Landform:	Rise				cal Relief:					Sample Point	u-154n44w28-c1
Slope (%):	8 - 15%		ude: 48.12		Longitude:			Datum:			
Are climatic/h	hydrologic co	nditions on the site typi	ical for this	s time of yea	ar? (If no, ex	olain in rema	arks)	Yes	□ No	Section:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □sig	nificantly	disturbed?		Are	e normal circun	nstances pro	esent?	Township:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □at	urally prob	olematic?			Yes	□ No		Range:	Dir:
SUMMARY C	OF FINDINGS	3									
Hydrophytic \	Vegetation P	resent?	No					Hydric Soi	Is Present?	No No	
Wetland Hyd			No		-					nt Within A W	etland? No
Remarks:				low area ius	t outside t	he edge	of an existing r				ts are smooth brome and
Tromanio.	Canada this	•	pon mode	.o. a. oa jao		no oago	or arr oznomig p			ormian pian	
HYDROLOG		dio.									
Wetland Hy Primary:	•	cators (Check all that	apply; Mir	nimum of on	e primary	or two so	econdary requi	red):	Secondary:		
<u>- 1 111101 y 1</u>	<u>·</u>	Vater			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa	ter Table			B13 - Aqua		1				Vegetated Concave Surface
	A3 - Saturatio	n			C1 - Hydro	gen Sulfid	B10 - Drainage Patterns				
	B1 - Water Ma				C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not till	le 🗆	C8 - Crayfish	
	B3 - Drift Dep						educed Iron				n Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin N		ace			D2 - Geomorp D5 - FAC-Neu	
	•	วรแร n Visible on Aerial Imagery	ı	П	Other (Exp	nairi)					aved Hummocks (LRR F)
	B9 - Water-St	•							_	<i>D1</i> 1103(110	avea Hammooks (ERRT)
Field Observations:											
Surface Wate	er Present?	Yes	Depth:		(in.)					_	
Water Table		Yes	Depth:		(in.)			Wetland F	lydrology	Present?	N
		Yes	Depth:		(in.)						
Saturation Present? Yes Depth: (in.)											
					• • •						
Describe Rec	orded Data (s	tream gauge, monitoring	g well, aeri	al photos, pre	• • •	ections),	if available:				
Describe Reco		tream gauge, monitoring	·		• • •	ections),	if available:				
Remarks:			·		• • •	ections),	if available:				
Remarks:	No wetland	hydrology indicators ar	e present		evious insp	,					
Remarks: SOILS Profile Descri	No wetland	hydrology indicators ar	e present	nent the indi	evious insp	onfirm th	e absence of ir				
Remarks: SOILS Profile Descri	No wetland	hydrology indicators ar	e present	nent the indi	evious insp	onfirm th	e absence of ir				
Remarks: SOILS Profile Descri	No wetland	hydrology indicators ar be to the depth needed etion, RM=Reduced Matrix, C	e present	nent the indi	evious insp	onfirm the	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, C	e present	nent the indic	evious insp cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	rix)			
Remarks: SOILS Profile Descri	No wetland iption (Descri	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist)	d to docum CS=Covered	nent the indi	evious insp cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22	No wetland iption (Descri	be to the depth needed etion, RM=Reduced Matrix Matrix Color (Moist) 2/1	to docum CS=Covered % 100	nent the indicontrol (I	cator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL	Mixed matrix.	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22	No wetland iption (Descri	be to the depth needed etion, RM=Reduced Matrix Matrix Color (Moist) 2/1	to docum CS=Covered % 100	nent the indicontrol (I	cator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL	Mixed matrix.	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22	No wetland iption (Descri	be to the depth needed etion, RM=Reduced Matrix Matrix Color (Moist) 2/1	to docum CS=Covered % 100	nent the indicontrol (I	cator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL	Mixed matrix.	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22 22-28 NRCS Hydr	No wetland Iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR A1- Histosol	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/2 Indicators (check in the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/2	to docum CS=Covered % 100 80	Color (I Hue_10YR icators are r	cator or co Grains; Loca Moist) 2/1 not presented	Mottle 20	e absence of interest Lining, M=Matro	Location	SCL SCL Indicators 1 A9 - 1 cm M	for Problemati	ic Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22 22-28 NRCS Hydr	No wetland iption (Descrintration, D=Depleted Price Soil Field A1- Histosol A2 - Histic Ep	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/2 Indicators (check lipedon	to docum CS=Covered % 100 80 here if ind	Color (I Hue_10YR icators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist) 2/1 not presented	Mottle % 20 t):	e absence of interest Lining, M=Matro	Location	SCL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast	for Problemati fuck (LRR I, J) Prairie Redox	ic Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22 22-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 3/2 Indicators (check in the color) ipedon etic	% 100 80	Color (I Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or co Grains; Loca Moist) 2/1 2/1 not presented ox Matrix fucky Miner	Mottle Mottle 20 t):	e absence of interest Lining, M=Matro	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G	i <mark>c Soils¹</mark> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22 22-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/2 Indicators (check in Sulfide	% 100 80	Color (I Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or constant process of the constant present pres	Mottle Mottle 20 t):	e absence of interest Lining, M=Matro	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	ic Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22 22-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 3/2 Indicators (check in Sulfide Layers (LRR F)	% 100 80	Color (I Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	cator or co Grains; Loca Moist) 2/1 anot presented ox Matrix flucky Miner Bleyed Matrix Matrix	Mottle Mottle 20 t):	e absence of interest Lining, M=Matro	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemati fluck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	i <mark>c Soils¹</mark> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22 22-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/2 Indicators (check in Sulfide Layers (LRR F) ck (LRR FGH)	to docume % 100 80 here if ind	Color (I Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or co Grains; Loca Moist) 2/1 and presented with the content of the conte	mottle which was all and a second confirm the tion: PL=Plead to th	e absence of interest Lining, M=Matro	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	(LRR F, G, H)) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-22 22-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 3/2 Indicators (check in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	to docume % 100 80 here if ind	Color (I Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D	cator or constant present present present Matrix Mucky Miner Bleyed Matrix ark Surface Dark Surface	mottle which was all and a second confirm the tion: PL=Plead to th	e absence of interest Lining, M=Matro	Location	Indicators 1 A9 - 1 cm W A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati fluck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	ic Soils ¹ (LRR F, G, H)) Ons (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w28-c1
					•
VEGETATION	(Species identified in all uppercase ar	re non-native s	pecies.)		
Tree Stratum (Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (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. $0 x 2 = 0$		
					Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 25 x 4 = 100
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{25}$ $\times 4 = \underline{100}$
1.					UPL spp. $_{-75}$ $_{-375}$ $_{-375}$
2.					
3.					Total 100 (A) 475 (B)
4.					
5.					Prevalence Index = B/A = <u>4.750</u>
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) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	75	Υ	UPL	
2.	Poa pratensis	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Cirsium arvense	5	N	FACU	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.					1
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
- ,	Total Cover =	: 100			
	rotal cover				
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.	Tatam (Flot 5/25: 55 ft: radias)				
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
···	Total Cover =	. 0			
Remarks:	Dominant plants within the upland area are		e and Ke	entucky bl	lue grass
Tromanto.	Dominant plants within the apiana area are t		io and ixo	intuonly bi	ido grass.
A clai!!! c! ¬	la manula a				
Additional R	kemarks:				