WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/12/14
Applicant:		Enbridge								County:	Pennington
Investigators:		MRK/BEH/RAJ			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	166A			_			I Classification	: <u></u>]	
Landform:	Talf				cal Relief:					Sample Point	u-154n45w25-j1
Slope (%):	0 - 2%		Latitude: 48.12				4376667	Datum:			
	, ,	nditions on the site	e typical for th	is time of yea	ar? (If no, exp	1	•	Yes	□ No	Section:	
Are Vegetation			•			Are	e normal circur	nstances pro	esent?	Township:	
Are Vegetation			□aturally pro	blematic?			Yes	□ No		Range:	Dir:
SUMMARY O											
Hydrophytic \	Vegetation P	resent?	No		_			Hydric Soi	Is Present?	No	
Wetland Hyd	rology Prese	nt?	No					Is This Sar	mpling Poin	nt Within A W	etland? No
Remarks:	The upland	is a hay field domi	inated by smo	oth brome a	nd bird's-fo	oot trefoi	l.				
HYDROLOGY	Y										
		icators (Check all	that apply: Mi	nimum of on	e nrimary	or two se	econdary requi	red):			
Primary:		icators (Crieck air	triat apply, ivi	minum or on	e primary	OI TWO S	econdary requi	ieu).	Secondary:		
		Nater			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua				_		Vegetated Concave Surface
	A3 - Saturation	n			C1 - Hydro	gen Sulfid	le Odor			B10 - Drainage	
	B1 - Water M				C2 - Dry So						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not till	lŧ 🗀	C8 - Crayfish I	
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese C7 - Thin N		duced Iron			D2 - Geomorp	n Visible on Aerial Imagery
	B5 - Iron Dep				Other (Exp		200			D5 - FAC-Neu	
	•	n Visible on Aerial Im	agery	_	0 11 10 1 (ZXP						aved Hummocks (LRR F)
		ained Leaves									,
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Depth	:	(in.)			M		D	NI
Water Table	Present?	Yes □	Depth		(in.)			wetiand F	Hydrology I	Present?	N
Saturation Pr	esent?	Yes □	Depth	:	- (in.)						_
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No primary or secondary hydrological indicators were observed.											
Remarks:	No primary	or secondary hydro	ological indica	itors were ob	served.						
	No primary	or secondary hydro	ological indica	itors were ob	served.						
SOILS		, ,				onfirm th		adicatore \			
SOILS Profile Descri	ption (Descr	be to the depth ne	eded to docu	nent the indi	cator or co		e absence of ir				
SOILS Profile Descri	ption (Descr	, ,	eded to docu	nent the indi	cator or co		e absence of ir				
SOILS Profile Descri	ption (Descr	be to the depth ne etion, RM=Reduced Ma	eded to docu	nent the indi	cator or co	tion: PL=P	e absence of ir ore Lining, M=Mat				
SOILS Profile Descrip (Type: C=Concen	ption (Descr	be to the depth ne etion, RM=Reduced Ma Matrix	eded to docul atrix, CS=Covere	ment the indi	cator or co Grains; Loca	tion: PL=P	e absence of ir ore Lining, M=Mat	rix)	Taytura		Remarks
SOILS Profile Descrip (Type: C=Concent	ption (Descr ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docul atrix, CS=Covered	nent the indi	cator or co Grains; Loca	tion: PL=P	e absence of ir ore Lining, M=Mat		Texture		Remarks
SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-13	ption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to docur atrix, CS=Covered	ment the indi	cator or co Grains; Loca	tion: PL=P	e absence of ir ore Lining, M=Mat	rix)	SCL		Remarks
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-18	ption (Descriptration, D=Deplementation) Hue_10YR Hue_2.5Y	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1	eeded to docur atrix, CS=Covered % 100 50	ment the indi	cator or co Grains; Loca	tion: PL=P	e absence of ir ore Lining, M=Mat	rix)	SCL SC		Remarks
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-18 13-18	ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 2/1	eded to docur atrix, CS=Covered % 100 50 50	ment the indi	cator or co	Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL		Remarks
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-18	ption (Descriptration, D=Deplementation) Hue_10YR Hue_2.5Y	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1	eeded to docur atrix, CS=Covered % 100 50	ment the indi	cator or co	tion: PL=P	e absence of ir ore Lining, M=Mat	rix)	SCL SC		Remarks
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SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-18 13-18	htration (Description), D=Deplementation, D=Depl	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 4/1 2/1 6/3	eded to docur atrix, CS=Covered % 100 50 50	Color (Cator or co Grains; Local Moist)	Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL		Remarks
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-18 13-18 13-18	htration (Description), D=Deplementation, D=Depl	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 4/1 2/1 6/3	eeded to docur atrix, CS=Covered % 100 50 50 95	Color (Cator or co Grains; Local Moist)	Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC	for Problemati	
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-18 13-18 13-18	htration (Description), D=Deplementation, D=Depl	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 4/1 2/1 6/3	eeded to docur atrix, CS=Covered % 100 50 50 95	Color (cator or co Grains; Local Moist) 5/8 not presen	Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC Indicators f	luck (LRR I, J)	c Soils ¹
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-18 13-18 18-21 NRCS Hydri	htration (Descriptration, D=Deplementation, D=De	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 4/1 2/1 6/3 Indicators (ch	eeded to docur atrix, CS=Covered % 100 50 50 95	Color (Hue_10YR S5 - Sandy R S6 - Stripped	cator or co Grains; Local Moist) 5/8 not presen edox Matrix	Mottle % 5 t):	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	<u>c Soils¹</u> (LRR F, G, H)
Depth (In.) 0-13 13-18 13-18 18-21 NRCS Hydri	Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist) 2/1 4/1 2/1 6/3 Indicators (ch	eeded to docur atrix, CS=Covered % 100 50 50 95	Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or cograins; Local Moist) 5/8 not presentedox Matrix Mucky Minera	Mottle % 5 t):	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)
Depth (In.) 0-13 13-18 13-18 18-21	htration, D=Deployment D=Deploy	Matrix Color (Moist) 2/1 4/1 2/1 6/3 Indicators (ch	% 100 50 95 eeck here if inc	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or co Grains; Local Moist) 5/8 5/8 not presentedox Matrix Mucky Minera	Mottle % 5 t):	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC 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	<u>c Soils¹</u> (LRR F, G, H)
Depth (In.) 0-13 13-18 13-18 18-21 NRCS Hydri	Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	Matrix Color (Moist) 2/1 4/1 2/1 6/3 Indicators (ch	eeded to docur atrix, CS=Covered % 100 50 50 95	Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted	Cator or co Grains; Local Moist) 5/8 5/8 not presented ox Matrix Mucky Mineral Bleyed Matrix Matrix	Mottle % 5 t):	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressiced Vertic	c Soils ¹ (LRR F, G, H)
Depth (In.) 0-13 13-18 13-18 18-21 NRCS Hydri	Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	Matrix Color (Moist) 2/1 4/1 2/1 6/3 Indicators (ch	eded to docur eatrix, CS=Covered % 100 50 50 95 eck here if ind	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	Cator or co Grains; Local Moist) 5/8 5/8 not presen edox Matrix Mucky Minera Gleyed Matrix Matrix Matrix Park Surface	Mottle % 5 t):	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC 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 Depression ed Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Depth (In.) 0-13 13-18 13-18 18-21 NRCS Hydri	htration, D=Depletentration, D=D	Matrix Color (Moist) 2/1 4/1 2/1 6/3 Indicators (ch	% 100 50 95 eeck here if ince	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	cator or co Grains; Local Moist) 5/8 5/8 not presented with the content of the	Mottle % 5 t):	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC SCL SC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface
Depth (In.) 0-13 13-18 13-18 18-21 NRCS Hydri	Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Gradient Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	Matrix Color (Moist) 2/1 4/1 2/1 6/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eded to docur eatrix, CS=Covered % 100 50 50 95 eck here if ind	Color (Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 5/8 Tot presented Matrix Mucky Mineral Matrix Mat	Mottle % 5 t):	e absence of ir ore Lining, M=Mat es Type	Location	SCL SC SCL SC SCL SC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct 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) Surface
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Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-18 13-18 18-21 NRCS Hydri	htration, D=Depleteration, D=Depleterati	Matrix Color (Moist) 2/1 4/1 2/1 6/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRE leyed Matrix	eeded to docur atrix, CS=Covered % 100 50 95 eeck here if ind	Color (Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	Moist) 5/8 Solve Matrix Mucky Mineral Matrix Mucky Mineral Matrix Dark Surface Dark Surface Depressions ains Depressions	Mottle % 5 t):	e absence of ir ore Lining, M=Mates es Type C W Annual C Hydric Sc Hydric Sc	Location M Bil Present?	SCL SC SCL SC SCL SC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks) hydrophytic vegetaled or problematic.	c Soils 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: u-154n45w25-j1			
VEGETATION		are non-native	species.)					
Tree Stratum (Plot size: 30 ft. radius)							
	<u>Species Name</u>	<u>% Cover</u>	<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			
	Total Cover	= 0	OBL spp. 0					
					FAC spp. $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ 15			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp 50			
1.					UPL spp 50			
2.								
3.					Total <u>120</u> (A) <u>495</u> (B)			
4.								
5.					Prevalence Index = B/A = 4.125			
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	50	Υ	UPL				
2.	Lotus corniculatus	35	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Symphyotrichum lanceolatum	15	N	FACW	present, unless disturbed or problematic.			
4.	Cirsium arvense	10	N	FACU	Definitions of Vegetation Strata:			
5.	Symphyotrichum ericoides	5	N	FACU				
6	Sonchus arvensis	5	N	FAC	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.	1							
15.					Woody Vines - All woody vines, regardless of height.			
10.	Total Cover	= 120			Troody Tillos			
	Total Cover	= 120	_					
Mandy Vina Ct	rotum (Plot oizo: 20 ft rodius)							
1	ratum (Plot size: 30 ft. radius)							
2.	<u> </u>							
					Undrambutia Variation Present?			
3.	<u> </u>				Hydrophytic Vegetation Present?N			
5.	<u> </u>							
4.	Total Cover			_				
Domorto	Total Cover		م ما اما اما	lla fact trai	fo:I			
Remarks:	The upland sample point is dominated by s	mooth brome	e and bird	rs-root tre	TOII.			
Additional Remarks:								