WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14	
Applicant:		Enbridge								County:	Pennington	
Investigators	s:	MRK/OTG			Subregion	$_{ m I}$ (MLRA or $_{ m I}$	_RR):	MLRA 56		State:	MN	
Soil Unit:	19A					NWI Cla	ssification:					
Landform:	Talf			Lo	cal Relief: I					Sample Point:	u-154n44w33-k1	
Slope (%):	0 - 2%		Latitude: 48.1			-96.314775 <u></u>	5000	Datum:				
Are climatic/h		onditions on the site			ar? (If no, expla				□ No	Section:		
Are Vegetation				y disturbed?		Are nor	rmal circum	nstances pr	esent?	Township:		
Are Vegetation		I □, or Hydrology	□aturally pr	oblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C	OF FINDING	S										
Hydrophytic \	Vegetation P	Present?	No		_			Hydric Soi	ls Present?	No No		
Wetland Hyd	drology Prese	ent?	No					Is This Sai	mpling Poir	nt Within A W	etland? No	
Remarks:	The upland	sample point is loc	cated in a ha	yfield located	upslope fro	om a wet me	eadow.					
HYDROLOG	Υ											
Wetland Hy	drology Ind	licators (Check all	that annly: N	Minimum of or	e nrimary o	or two secon	dary requi	.eq).				
Primary		ilcators (Check air	triat apply, it		e primary o	or two secon	idary requir	eu).	Secondary			
<u>- 1 111101 y 1</u>	A1 - Surface	Water			B11 - Salt C	Crust				<u>.</u> B6 - Surface S	oil Cracks	
	A2 - High Wa	ater Table			B13 - Aquati						Vegetated Concave Surface	
	A3 - Saturation					gen Sulfide Od				B10 - Drainage		
	B1 - Water M					ason Water T		5			Rhizospheres on Living Roots (til	led)
	B2 - Sedimer	•				ed Rhizospher		Roots (not till	• -	C8 - Crayfish E		
	B3 - Drift Dep B4 - Algal Ma				C4 - Present	nce of Reduce	a iron			D2 - Geomorp	No Visible on Aerial Imagery	
	B5 - Iron Dep				Other (Expla				.	D5 - FAC-Neut		
		on Visible on Aerial Im	nagery	_	Ott. 101 (2/1pie	<i>,</i>					aved Hummocks (LRR F)	
		tained Leaves									,	
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Dept	h:	(in.)							
Water Table		Yes □		h:	(in.)			Wetland F	lydrology	Present?	N	
Saturation Pr		Yes □	Dept		- (in.)						_	
					\							
Deceribe Dec	and ad Data /		<u> </u>			antings) if an	ر ما ما ما داده د					
		stream gauge, moni	toring well, a	erial photos, pr	evious inspe	ections), if av	railable:					
Describe Reco			toring well, a	erial photos, pr	evious inspe	ections), if av	railable:					
Remarks:		stream gauge, moni	toring well, a	erial photos, pr	evious inspe	ections), if av	/ailable:					
Remarks:	No primary	stream gauge, monitor or secondary hydro	itoring well, ac	erial photos, pr ators were ob	evious inspenserved.	,		dicators				
Remarks: SOILS Profile Descri	No primary	stream gauge, monitor or secondary hydro	toring well, actoring	erial photos, preators were ob	evious inspenserved.	nfirm the ab	sence of in					
Remarks: SOILS Profile Descri	No primary	stream gauge, monitor or secondary hydro	toring well, actoring	erial photos, preators were ob	evious inspenserved.	nfirm the ab	sence of in					
Remarks: SOILS Profile Descri	No primary	stream gauge, monitor or secondary hydronic ribe to the depth neletion, RM=Reduced Market	toring well, actoring	erial photos, preators were ob	evious inspenserved.	nfirm the abon: PL=Pore Li	sence of in					
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR	stream gauge, monitor secondary hydronic or secondary hydronic ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 5/1 6/6	eeded to docuatrix, CS=Cover	crial photos, prestors were observed when the indicated Sand Color (evious insperse oserved. cator or cor Grains; Location Moist)	nfirm the abon: PL=Pore Li	sence of in ining, M=Matr	(x)	CL SIC OT	gravel		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi	stream gauge, monitor secondary hydronic or secondary hydronic ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 5/1 6/6 I Indicators (chappedon stic	eeded to docuatrix, CS=Cover	crial photos, prestors were obtained. Color (CO) Color	evious insperserved. cator or corgrains; Location Moist) not present) dedox Matrix Mucky Mineral	nfirm the abon: PL=Pore Li Mottles %	sence of in ining, M=Matr	Location	CL SIC OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	stream gauge, monitor secondary hydronic ibe to the depth neletion, RM=Reduced Marx Color (Moist) 2/1 5/1 6/6 Indicators (characters)	eeded to docuatrix, CS=Covers % 100 100 100	crial photos, prestors were obtained. Color (CO) Color	evious insperserved. cator or cor Grains; Location Moist) not present) ledox Matrix Mucky Mineral Gleyed Matrix	nfirm the abon: PL=Pore Li Mottles %	sence of in ining, M=Matr	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High F	for Problemation for Problemation fuck (LRR I, J) Frairie Redox (urface (LRR G) Plains Depression	c Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	stream gauge, monitor secondary hydrostices (LRR F) ack (LRR FGH) and secondary hydrostices (LRR F) ack (LRR FGH) and secondary hydrostices (LRR FGH) and secondary hydrostice	eeded to docuatrix, CS=Covers % 100 100 100 100	cators were obtained/Coated Sand Color (CO)	evious insperserved. cator or cor Grains; Location Moist) not present) dedox Matrix Mucky Mineral Gleyed Matrix di Matrix Dark Surface di Dark Surface	nfirm the about the second on: PL=Pore Li	sence of in ining, M=Matr	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (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.) 0-12 12-16 16-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	stream gauge, monitor secondary hydrostices Sulfide d Layers (LRR F) ack (LRR FGH) and Below Dark Surface Dark Surface	eeded to docuatrix, CS=Covers % 100 100 100 100	cators were observed by the cators were observed by the cators and cators are undicators are und	evious insperserved. cator or corgrains; Location Moist) not present) dedox Matrix Mucky Mineral Gleyed Matrix di Matrix Dark Surface di Dark Surface depressions	nfirm the about the second sec	sence of in ining, M=Matr	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression 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.) 0-12 12-16 16-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	stream gauge, monitor secondary hydrouse to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 5/1 6/6 Indicators (character of the color	eeded to docuatrix, CS=Covers % 100 100 100 Reck here if ir	cators were observed by the cators were observed by the cators and cators are undicators are und	evious insperserved. cator or corgrains; Location Moist) not present) dedox Matrix Mucky Mineral Gleyed Matrix di Matrix Dark Surface di Dark Surface depressions	nfirm the about the second sec	sence of in ining, M=Matr	Location	Indicators of Polymer (Explant)	for Problemation for Problemation fuck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material The Shallow Dark Serial in Remarks)	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	sent,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M	stream gauge, monitor secondary hydrouse to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 5/1 6/6 Indicators (character of the color	eeded to docuatrix, CS=Covers % 100 100 100 Reck here if ir	cators were observed by the cators were observed by the cators and cators are undicators are und	evious insperserved. cator or corgrains; Location Moist) not present) dedox Matrix Mucky Mineral Gleyed Matrix di Matrix Dark Surface di Dark Surface depressions	nfirm the abon: PL=Pore Li Mottles %	sence of in ining, M=Matr	Location	Indicators of Polymer (Explant)	for Problemation Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S ain in Remarks)	ESoils ¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	ent,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	stream gauge, monitor secondary hydrouse to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 5/1 6/6 Indicators (character of the color	eeded to docuatrix, CS=Covers % 100 100 100 Reck here if ir	cators were observed by the cators were observed by the cators and cators are undicators are und	evious insperserved. cator or corgrains; Location Moist) not present) dedox Matrix Mucky Mineral Gleyed Matrix di Matrix Dark Surface di Dark Surface depressions	nfirm the abon: PL=Pore Li Mottles %	sence of in ining, M=Matr	Location	Indicators of Polymer (Explant)	for Problemation for Problemation fuck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material The Shallow Dark Serial in Remarks)	ESoils ¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	sent,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm M S4 - Sandy G	stream gauge, monitor secondary hydrosticen Sulfided Layers (LRR F) ack (LRR FGH) and Below Dark Surface flucky Mineral Mucky Peat or Peat (LR Gleyed Matrix	eeded to docuatrix, CS=Covers % 100 100 100 Reck here if ir	cators were observed by the cators were observed by the cators and cators are undicators are und	evious insperserved. cator or corgrains; Location Moist) Moist) not present) dedox Matrix Mucky Mineral Gleyed Matrix dark Surface d Dark Surface depressions ains Depress	nfirm the abon: PL=Pore Li Mottles %	sence of in ining, M=Matr	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 Problemation for Problemation fuck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material The Shallow Dark Serial in Remarks)	ESoils ¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	sent,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-20 NRCS Hydr	iption (Description, D=Depoint Intration, D=Depoint	stream gauge, monitor secondary hydrosterion in the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 5/1 6/6 Indicators (characteristic con Sulfide di Layers (LRR F) luck (LRR FGH) led Below Dark Surface flucky Mineral Mucky Peat or Peat (LREGIE) acky Peat or Peat (LREGIE) depend Matrix	eeded to docuatrix, CS=Covers % 100 100 100 100 RR G, H) R F)	crial photos, prestors were obtained the indicators are indicators are in indicators are indicators. In indicators are indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators. In indicators are indicators are indicators are indicators are indicators are indicators. In i	evious insperserved. cator or corgrains; Location Moist) not present) dedox Matrix Mucky Mineral Gleyed Matrix de Matrix Dark Surface de Dark Surface depressions ains Depress	nfirm the about the second on the second of	sence of in ining, M=Matr	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed N	for Problemation for Problemation fluck (LRR I, J) for Prairie Redox (for urface (LRR G) for Plains Depression for Parent Material for Shallow Dark Shallow Dark Shallow Dark Shallow Dark Shain in Remarks) for problematic.	ESoils ¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	sent,

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w33-k1
		,			
VEGETATION	N (Species identified in all uppercase a	are non-native	species.)		
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:1 (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			OBL spp. 0
					FAC spp. $0 X 3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp $X = 120$
1.]			UPL spp. $_{-75}$ \times 5 = $_{-375}$
2.					
3.					Total 115 (A) 515 (B)
4.					
5.					Prevalence Index = B/A =
6.					
7.]			
8.		1			Hydrophytic Vegetation Indicators:
9.		1			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	Y	UPL	
2.	Lotus comiculatus	20	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Solidago canadensis	10	N	FACU	present, unless disturbed or problematic.
4.	Agrostis gigantea	10	N	FACW	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 :	= 115			
	rotal Gover				
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.	Tatam (1 lot 5/25: 55 ft. radias)				
2.					
3.					Hydrophytic Vegetation Present? N
5.	<u> </u>				Trydrophytio Vegetation Fresent:
4.	,				
7.	Total Cover :	= 0			
Remarks:	The upland sample point is dominated by s		Δ		
ixemarks.	The upland sample point is dominated by s	mooth brom	Ю.		
	Name and an				
Additional R	emarks:				