WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R Enbridge							Date: County:	09/17/14			
Applicant:			Out to the (MIDA IDD)							Pennington		
Investigators:						Subregion (MLRA or LRR): MLRA 56 NWI Classification:					MN	
Soil Unit: Landform:	Dip		_[cal Relief:	i Classification.			Sample Point:	w-154n44w33-j2			
	0 - 2%	L	_atitude: 48.1		Longitude:		0217	Datum:			W TO-III-FWOO JE	
		nditions on the site							□ No	Section:		
Are Vegetation	·			ly disturbed?	, , ,		e normal circum			Township:		
Are Vegetation			•	roblematic?			Yes	□ No ˙		Range:	Dir:	
SUMMARY O	F FINDINGS	3										
Hydrophytic \	•		Yes		_				Is Present?			
Wetland Hydi			Yes							nt Within A W	etland? Yes	
Remarks:	The wetland	l is a small dip surro	ounded by t	tilled field. The	e dip is don	ninated k	by willow trees,	balsam pop	plar and wil	low shrubs.		
HYDROLOGY	Y											
_	•	cators (Check all the	hat apply; N	Minimum of or	ne primary	or two se	econdary requir	ed):				
Primary:		A / - 1		_	D44 Octo	0			Secondary		10	
□ ☑	A1 - Surface \A2 - High Wa				B11 - Salt (B13 - Aqua					B6 - Surface S	Vegetated Concave Surface	
✓	A3 - Saturatio				C1 - Hydro					B10 - Drainage		
	B1 - Water Ma				C2 - Dry Se	eason Wa	iter Table				Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen	•					spheres on Living	Roots (not till	le 🗆	C8 - Crayfish E		
	B3 - Drift Dep				C4 - Prese						n Visible on Aerial Imagery	
	B4 - Algal Mat B5 - Iron Dep				C7 - Thin M Other (Exp		ace			D2 - Geomorp D5 - FAC-Neur		
		n Visible on Aerial Ima	gery	٥	Other (Exp	iairi)					aved Hummocks (LRR F)	
V	B9 - Water-St										, ,	
Field Observ	ations:											
Surface Wate		Yes □	Dep		_ (in.)			Wetland F	Hydrology	Present?	Υ	
Water Table		Yes ☑	Dep	_	_ (in.)			Wolland I	iyai ology	1 1000111.	<u>.</u>	
Saturation Pr	esent?	Yes ☑	Dep	th: <u>8</u>	_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:	The water ta											
		able was observed	IO IIICII C S D	elow the soil :	surtace.							
		able was observed	TO ITICITES D	elow the soil s	surface.							
SOILS		able was observed	TO ITICITES D	elow the soil s	surface.							
Profile Descrip		be to the depth nee	eded to doc	ument the ind	icator or co							
Profile Descrip			eded to doc	ument the ind	icator or co							
Profile Descrip		be to the depth nee etion, RM=Reduced Mati	eded to doc	ument the ind	icator or co	tion: PL=Po	ore Lining, M=Matri					
Profile Descrip (Type: C=Concen		be to the depth nee etion, RM=Reduced Mati Matrix	eded to doc rix, CS=Cover	ument the ind red/Coated Sand	icator or co Grains; Locat	Mottle	ore Lining, M=Matri	(x)	Taytura		Domorko	
Profile Descrip (Type: C=Concen Depth (In.)	tration, D=Depl	be to the depth nee etion, RM=Reduced Mate Matrix Color (Moist)	eded to doc rix, CS=Cover	ument the ind red/Coated Sand Color (icator or co Grains; Locat	tion: PL=Po	ore Lining, M=Matri		Texture		Remarks	
Profile Descrip (Type: C=Concen Depth (In.)	tration, D=Deple Hue_10YR	be to the depth nee etion, RM=Reduced Mate Matrix Color (Moist) 2/1	eded to doc rix, CS=Cover	ument the ind red/Coated Sand Color (icator or co Grains; Locat	Mottle	ore Lining, M=Matri	(x)	MMI		Remarks	
Profile Descrip (Type: C=Concen Depth (In.) 0-5 5-9	Hue_10YR Hue_10YR	be to the depth nee etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1	eded to doc rix, CS=Cover	ument the ind red/Coated Sand Color (icator or co Grains; Locat	Mottle	ore Lining, M=Matri	(x)	MMI SCL	fine sand	Remarks	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17	Hue_10YR Hue_10YR Hue_10YR	be to the depth nee etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 4/1	eded to docurix, CS=Cover	ument the ind red/Coated Sand Color (icator or co Grains; Locat (Moist)	Mottle %	ore Lining, M=Matri es Type	Location	MMI SCL LFS	fine sand	Remarks	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 9-17	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y	be to the depth nee etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 4/1 6/2	% 10 70 25	color (icator or co Grains; Locat	Mottle	ore Lining, M=Matri	(x)	MMI SCL LFS FS	fine sand	Remarks	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17	Hue_10YR Hue_10YR Hue_10YR	be to the depth nee etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 4/1	eded to docurix, CS=Cover	color (icator or co Grains; Locat (Moist)	Mottle %	ore Lining, M=Matri es Type	Location	MMI SCL LFS	fine sand	Remarks	
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Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 9-17	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth nee etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2	% 10 10 25 10	color (icator or co Grains; Locat (Moist)	Mottle %	ore Lining, M=Matri es Type	Location	MMI SCL LFS FS FS		,	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field	be to the depth nee etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2	% 10 10 25 10	color (Color (Co	icator or co Grains; Locat (Moist) 5/10Y not present	Mottle %	es Type D	Location	MMI SCL LFS FS FS	for Problematic	,	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field	Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2 Indicators (che	% 10 10 25 10	color (Color (Golden Gley1 Color are S5 - Sandy F	icator or co Grains; Locat (Moist) 5/10Y not present	Mottle %	es Type D	Location	MMI SCL LFS FS FS A9 - 1 cm N	for Problemation	c Soils ¹	
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Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2 Indicators (che	% 10 10 25 10	Color (Color	icator or co Grains; Locat (Moist) 5/10Y not present	Mottle % 5 tion: PL=Pe	es Type D	Location	MMI SCL LFS FS FS Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G)	Soils ¹ (LRR F, G, H)	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2 Indicators (che	eded to doc rix, CS=Cover % 10 10 25 10 eck here if i	ument the ind red/Coated Sand Color (0 Good Gley1 Odd Color (icator or co Grains; Locat (Moist) 5/10Y not present Redox d Matrix Mucky Minera Gleyed Matrix	Mottle % 5 tion: PL=Pe	es Type D	Location	MMI SCL LFS FS FS Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) It Prairie Redox (Burface (LRR G) Plains Depression	c Soils ¹	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2 Indicators (che	eded to docurix, CS=Cover % 10 10 25 10 eck here if in	Color (Color	icator or co Grains; Locat (Moist) 5/10Y not present Redox d Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface	Mottle % 5 tion: PL=Pe	es Type D	Location	MMI SCL LFS FS FS Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression ced Vertic Parent Material	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete	Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2 Indicators (che	eded to docurix, CS=Cover % 10 10 25 10 eck here if in	Color (CO)	icator or co Grains; Locat (Moist) 5/10Y not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	Mottle % 5 tion: PL=Pe	es Type D	Location	MMI SCL LFS FS FS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) It Prairie Redox (Surface (LRR G) Plains Depression Ced Vertic Parent Material If Shallow Dark S	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M	Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2 Indicators (che ipedon ctic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eded to docurix, CS=Cover % 10 10 25 10 eck here if in	Color (CO)	icator or co Grains; Locat (Moist) 5/10Y not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottle % 5 t):	es Type D	Location	MMI SCL LFS FS FS Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) It Prairie Redox (Surface (LRR G) Plains Depression Ced Vertic Parent Material If Shallow Dark S	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2 Indicators (che ipedon stic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR cky Peat or Peat (LR	eded to docurix, CS=Cover % 10 10 25 10 eck here if in	Color (CO)	icator or co Grains; Locat (Moist) 5/10Y not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottle % 5 t):	es Type D	Location	MMI SCL LFS FS FS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) It Prairie Redox (Burface (LRR G) Plains Depression Ced Vertic Parent Material V Shallow Dark Sain in Remarks)	E Soils ¹ [LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-9 9-17 17-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Muc	Matrix Color (Moist) 2/1 2/1 4/1 6/2 6/2 Indicators (che ipedon stic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR cky Peat or Peat (LR	eded to docurix, CS=Cover % 10 10 25 10 eck here if in	Color (CO)	icator or co Grains; Locat (Moist) 5/10Y not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottle % 5 t):	es Type D	Location	MMI SCL LFS FS FS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problematic fluck (LRR I, J) t Prairie Redox (furface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	E 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: w-154n44w33-j2
VEGETATIO	、 .	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Salix amygdaloides	30	Y	FACW	
2.	Populus balsamifera	15	Υ	FACW	Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 6 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(A/B)
					Dravalance Index Werkehoot
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp x 1 =
	Total Cover =	45			FACW spp. 131 $x 2 = 262$
					FAC spp. 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp
1.	Salix eriocephala	35	Υ	FACW	UPL spp.
2.	Salix amygdaloides	15	Υ	FACW	
3.	Salix discolor	10	N	FACW	Total 181 (A) 312 (B)
4.	Populus balsamifera	5	N	FACW	
5.	Cornus alba	3	N	FACW	Prevalence Index = B/A = 1.724
6.	Corrus aiba			171011	1 Tovalorice mack = B// =
7.					
					Undrankytia Vagatatian Indiaatara.
8.					Hydrophytic Vegetation Indicators:
9.					X Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	68	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	35	Υ	OBL	
2.	Carex sartwellii	15	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Carex atherodes	10	 N	OBL	present, unless disturbed or problematic.
4.	Scirpus pallidus	5	N	OBL	Definitions of Vegetation Strata:
5.		3	N	FACW	Definitions of Vegetation otrata.
	Symphyotrichum lateriflorum	3	IN	FACVV	Topo
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.
13.	Tatal Carra				VVOOdy Villes - / III Noody Villoo, Togal aloos of Holgin.
	Total Cover =	68			
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.					
	Total Cover =	0			
Remarks:			sam nonla	r Tho chri	ub layer is dominated by willow species, and ground cover is predominantly sedge
Remarks.		w and bais	sam popiai	i. The Shir	ab layer is dominated by willow species, and ground cover is predominantly sedge
	species.				
Additional	Remarks:				