## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/23/14
Applicant: Enbridge			Subregion (MLRA or LRR): MLRA 56							Pennington	
Investigators: RAJ/BJC				Subregio	•	State:	MN				
Soil Unit: 148A				_		NW					
Landform:	Depression		10.10		cal Relief:					Sample Point	w-154n44w33-v2
Slope (%):	0 - 2%		titude: 48.12		Longitude:			Datum:			
		nditions on the site ty	•		ar? (If no, exp	1			□ No	Section:	
Are Vegetation			significantly			Are	e normal circun	•	esent?	Township:	
Are Vegetation		i ji	aturally prol	blematic?			✓ Yes	□ No		Range:	Dir:
SUMMARY C									L D		
Hydrophytic \	_		Yes		_				Is Present?		11 12 <b>V</b> 2 -
Wetland Hyd			Yes			201	A II			nt Within A W	etland? Yes
Remarks:	A Willow-Ca	arr community domin	ated by mea	adow willow	and pussy	Willow.	All parameters	of wetland	conditions	are present.	
HYDROLOG'	Y										
Wetland Hy	drology Ind	icators (Check all the	at apply; Mii	nimum of on	e primary	or two s	econdary requi	red):			
<u>Primary:</u>						_			Secondary:		
	A1 - Surface				B11 - Salt					B6 - Surface S	
	A2 - High Wa A3 - Saturatio				B13 - Aqua C1 - Hydro					B8 - Sparsely B10 - Drainage	Vegetated Concave Surface
	B1 - Water M				C2 - Dry S						e Fatterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not till	le 🗆	C8 - Crayfish I	
	B3 - Drift Dep	•					duced Iron	`		C9 - Saturation	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu	
	B9 - Water-St	n Visible on Aerial Image	ery							D7 - Frost-Hea	aved Hummocks (LRR F)
	D3 - Water-O	allieu Leaves									
Field Observ	vations:										
Surface Water		Yes □	Donth:		(in )						
Water Table		Yes	Depth: Depth:		. (in.) (in.)			Wetland F	Hydrology	Present?	Υ
			•		• :						<del></del>
Saturation Present? Yes   Depth: (in.)											
			<u> </u>		•						
		tream gauge, monitor	ing well, aeri	al photos, pro	•	ections),	if available:				
Describe Reco			ing well, aeri	al photos, pro	•	ections),	if available:				
Remarks:		tream gauge, monitor	ing well, aeri	al photos, pro	•	ections),	if available:				
Remarks:	Indicators o	stream gauge, monitor f wetland hydrology a	ing well, aeri are present.	al photos, pro	evious insp	,		edicators )			
Remarks:  SOILS Profile Descri	Indicators o	stream gauge, monitor  f wetland hydrology a  be to the depth need	ing well, aeri are present.	al photos, pro	evious insp	onfirm th	e absence of in				
Remarks:  SOILS Profile Descri	Indicators o	stream gauge, monitor f wetland hydrology a	ing well, aeri are present.	al photos, pro	evious insp	onfirm th	e absence of in				
Remarks:  SOILS Profile Descri	Indicators o	stream gauge, monitor  f wetland hydrology a  be to the depth need etion, RM=Reduced Matrix	ing well, aeri are present.	al photos, pro	evious insp	onfirm th	e absence of in ore Lining, M=Matr				
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators o	tream gauge, monitor  f wetland hydrology a  be to the depth need etion, RM=Reduced Matrix  Matrix	ing well, aeri are present. led to docun	nent the indi	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators o	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)	ing well, aeri are present. led to docun x, CS=Covered	nent the indi	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr es Type	Location	Texture	Mineral compone	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators o	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1	ing well, aeriare present.  led to docume, CS=Covered  % 90	nent the indi Coated Sand C	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle %	e absence of in ore Lining, M=Matr es Type C	Location M	MMI	Mineral compone	Remarks ent is sandy clay loam. Redox is not mucky.
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators o	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)	ing well, aeri are present. led to docun x, CS=Covered	nent the indi	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr es Type	Location		Mineral compone	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18	Indicators of In	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  6/2	ing well, aeriare present.  led to docume, CS=Covered  % 90 80	color ( Hue_10YR Hue_5YR	cator or co Grains; Loca Moist) 3/3 3/4	Mottle 20	e absence of interest Lining, M=Matr	Location M	MMI	Mineral compone	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18	Indicators o	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  6/2	ing well, aeriare present.  led to docume, CS=Covered  % 90 80	nent the indi Coated Sand C	cator or co Grains; Loca Moist) 3/3 3/4	Mottle 20	e absence of in ore Lining, M=Matr es Type C	Location M	MMI COS		ent is sandy clay loam. Redox is not mucky.
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18  NRCS Hydr	Indicators of In	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  6/2	ing well, aeriare present.  led to docume, CS=Covered  % 90 80	Color (I Hue_10YR Hue_5YR	cator or co Grains; Loca Moist) 3/3 3/4	Mottle 20	e absence of interest Lining, M=Matr	Location M M	MMI COS	for Problemati	ent is sandy clay loam. Redox is not mucky.
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18  NRCS Hydr	Indicators of Indicators of Indicators of Intration, D=Deplementation, D=Deplementat	be to the depth need etion, RM=Reduced Matrix  Matrix Color (Moist)  2/1 6/2  Indicators (chec	ing well, aeriare present.  led to docume, CS=Covered  % 90 80	Color (I Hue_5YR Hue_5YR S5 - Sandy R	cator or co Grains; Loca Moist) 3/3 3/4 not presen	Mottle 20	e absence of interest Lining, M=Matr	Location M M	MMI COS Indicators 1 A9 - 1 cm M	for Problemation	ent is sandy clay loam. Redox is not mucky.  C Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18  NRCS Hydr	Indicators of Indicators of Indicators of Intration (Descriptor (Descriptor)   Hue_10YR   Hue_2.5Y    Fic Soil Field   A1- Histosol   A2 - Histic Ep	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  6/2  Indicators (checoipedon)	ing well, aeriare present.  led to docume, CS=Covered  % 90 80	Color (Industrial Hue_10YR Hue_5YR S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist) 3/3 3/4 not presen	Mottle % 10 20 t):	e absence of interest Lining, M=Matr	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast	for Problemation  Muck (LRR I, J)  Prairie Redox	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18  NRCS Hydr	Hue_10YR Hue_2.5Y  Tic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 6/2  Indicators (checoipedon etic)	ing well, aeriare present.  led to docume, CS=Covered  % 90 80	Color (Indicators are responsed to the second color)  Color (Indicators are responsed to the second color)  Color (Indicators are responsed to the second color)  Solve Sandy Responsed to the second color (Indicators are responsed to the second color)  Solve Sandy Responsed to the second color (Indicators are responsed to the second color (Ind	cator or co Grains; Loca Moist) 3/3 3/4 not presen edox Matrix fucky Miner	Mottle % 10 20 t):	e absence of interest Lining, M=Matr	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation  Muck (LRR I, J)  Prairie Redox  urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18  NRCS Hydr	Hue_10YR Hue_2.5Y  Tic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 6/2  Indicators (checoipedon etic)	ing well, aeriare present.  led to docume, CS=Covered  % 90 80	Color (Industrial Hue_10YR Hue_5YR S5 - Sandy R S6 - Stripped	Cator or co Grains; Loca Moist)  3/3  3/4  not presen edox Matrix flucky Miner	Mottle % 10 20 t):	e absence of interest Lining, M=Matr	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox  urface (LRR G)  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  NRCS Hydr	Hue_10YR Hue_2.5Y  Tic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  6/2  Indicators (checon Sulfide Layers (LRR FGH) ck (LRR FGH) d Below Dark Surface	ing well, aeriare present.  led to docume, CS=Covered    %   90     80     k here if ind	Color (Coated Sand Coated	Cator or constants; Locar  Moist)  3/3  3/4  not presented with the constants and matrix and matrix ark Surface in Dark Surfac	mottle was all as a second and a second a second and a second a second and a second a second and	e absence of interest Lining, M=Matr	Location M M	MMI COS  Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox  urface (LRR G)  Plains Depression  ced Vertic  Parent Material  Shallow Dark S	c Soils <sup>1</sup> (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: w-154n44w33-v2
/EGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	<b>Dominant</b>	Ind.Status	Dominance Test Worksheet
1.					
2.					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.					Total Number of Bornmant openies / to coo / til citata.
					Paragraph of Development Conscious That Are CDI FACIAL on FAC: 100.0% (A/D)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	J				
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 78
	Total Cover =	0			FACW spp. $81   X   2 =   162$
			FAC spp. $5   X   3 = 15$		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $5$ $\times 4 = 20$
1.	Salix petiolaris	50	Υ	OBL	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.	Salix discolor	30	Υ	FACW	
3.	Salix discolor		<u>·</u>	17.011	Total 169 (A) 275 (B)
					Total 169 (A) 275 (B)
4.					
5.					Prevalence Index = B/A =
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	80			X Prevalence Index is ≤ 3.0 *
Llank Otnations (	District 5 ft modius)				Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			ODI	Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	20	<u>'</u>	OBL	
2.	Juncus arcticus	20	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Agrostis gigantea	15	Υ	FACW	present, unless disturbed or problematic.
4.	Poa palustris	15	Y	FACW	Definitions of Vegetation Strata:
5.	Poa pratensis	5	N	FACU	
6	Carex granularis	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Solidago gigantea	5	N	FAC	height (DBH), regardless of height.
8.	Symphyotrichum puniceum	3	N	OBL	1
9.		1	N	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
	Juncus longistylis	I	IN	FACVV	Sapinig/Siliub - Woody plante loos than 5 mil 5511, Togardioco of Holgini
10.				_	
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	89			
	10101 00001 -				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	watura (Diet sies, 20 ft wadius)				
vvoouy vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					-
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:		dow willov	v and puss	sv willow v	with an herbaceous layer of mixed graminoids. Hydrophytic vegetation is present.
r cornarro.	7. Third Car Community dominated by med	dow willow	r and paoc		That are not become a few and a grammorator in parophysic vegetation to proceed
Additional F	Remarks:				