## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	07/30/14
Applicant:		Enbridge									County:	Kittson
Investigators	:	BCS/BEH/MRK				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I132A							Classification:				
Landform:	Depression					cal Relief:					Sample Point	w-159n49w10-b1
Slope (%):	0 - 2%		Latitude:			Longitude:			Datum:			
Are climatic/h		nditions on the sit				ar? (If no, exp			⊡Yes	□ No	Section:	
Are Vegetation		☐ or Hydrology			disturbed?		Are	normal circum		esent?	Township:	
Are Vegetation		☐ or Hydrology	□atural	ly prob	lematic?			☑ Yes	□No		Range:	Dir:
SUMMARY C												
Hydrophytic \			_	Yes					Hydric Soil			
Wetland Hyd				Yes							nt Within A W	
Remarks:			eadow loc	cated v	vithin a road	Iside ditch	adjacen	it to a gravel co	unty road. 1	The vegetat	tion is domina	ated by narrow-leaf cattail and
	common sp	ikerush.										
<b>HYDROLOG</b>	Υ											
Wetland Hy	drology Ind	icators (Check all	I that app	ly; Mir	nimum of on	e primary	or two se	econdary requir	ed):			
Primary:		(		,		- 1 - 7		, , , , , , , , , , , , , , , , , , , ,	,	Secondary:	-	
7	A1 - Surface					B11 - Salt (					B6 - Surface S	
☑	A2 - High Wa					B13 - Aqua		0.1				Vegetated Concave Surface
<b></b>	A3 - Saturation B1 - Water M					C1 - Hydro					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen											Burrows
	B3 - Drift Dep					C4 - Prese	nce of Red	duced Iron	(			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-Si	n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	Do Water O	anica Ecaveo										
Field Observ	vations:											
Surface Water		Yes 🗹		Depth:	0.5	(in.)						
Water Table		Yes 🖸		Depth:	0.5	(in.)			Wetland H	lydrology l	Present?	Υ
		_			0							<del>_</del>
		Saturation Present? Yes   Depth: 0 (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
							ections),	if available:				
Describe Reco		stream gauge, moni of standing water					ections),	if available:				
Remarks:							ections),	if available:				
Remarks: SOILS	Half an inch	of standing water	r is prese	nt at th	ne sample p	oint.			dicatore )			
Remarks:  SOILS Profile Descri	Half an inch	of standing water	r is prese	ent at th	ne sample p	oint.	onfirm the	e absence of in				
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Remarks:  SOILS Profile Descri	Half an inch	of standing water	r is prese	ent at th	ne sample p	oint.	onfirm the	e absence of in ore Lining, M=Matri				
Remarks:  SOILS Profile Descri	Half an inch	of standing water be to the depth ne	r is prese	ent at th	ne sample p	oint. cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Half an inch	be to the depth neetion, RM=Reduced M	r is prese	ent at the	ne sample p	oint. cator or co Grains; Locat	onfirm the tion: PL=Pc	e absence of in ore Lining, M=Matri es	x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Half an inch	be to the depth neetion, RM=Reduced M	r is prese	ent at the	ne sample p	oint. cator or co Grains; Locat	onfirm the tion: PL=Pc	e absence of in ore Lining, M=Matri es	x)	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	Half an inch	be to the depth neetion, RM=Reduced M	r is prese	ent at the	ne sample p	oint. cator or co Grains; Locat	onfirm the tion: PL=Pc	e absence of in ore Lining, M=Matri es	x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Half an inch	be to the depth neetion, RM=Reduced M	r is prese	ent at the	ne sample p	oint. cator or co Grains; Locat	onfirm the tion: PL=Pc	e absence of in ore Lining, M=Matri es	x)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Half an inch	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to atrix, CS=C	docum Covered/ %	ne sample p nent the indi l'Coated Sand ( Color (I	oint.  cator or cc Grains; Local  Moist)	onfirm the	e absence of in ore Lining, M=Matri es Type	x)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Half an inch	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to atrix, CS=C	docum Covered/ %	ne sample p	oint.  cator or cc Grains; Local  Moist)	onfirm the	e absence of in ore Lining, M=Matri es	x)		for Problematic	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	Half an inch	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to atrix, CS=C	docum Covered/ %	ne sample p nent the indi Coated Sand (  Color (I	oint.  cator or cograins; Local  Moist)  not presen	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1	for Problemati	
Remarks:  SOILS Profile Descri (Type: C=Concer	Half an inch iption (Description, D=Depl ic Soil Field A1- Histosol	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (ch	eeded to atrix, CS=C	docum Covered/ %	ne sample p nent the indi Coated Sand (  Color (I	cator or co Grains; Local Moist)	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	Half an inch	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chippedon	eeded to atrix, CS=C	docum Covered/ %	ne sample p nent the indi Coated Sand (  Color (I	cator or cc Grains; Local Moist)  Moist)  not presen edox Matrix	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast		c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	Half an inch iption (Description, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chaipedon stic in Sulfide	eeded to atrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or co Grains; Local Moist)  Moist)  not presented was marked	Mottle %  Mottle:	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chairm of the color is the color i	eeded to atrix, CS=C	documment at the documment at the documment at the documment at the document a	cators are r S5 - Sandy R S6 - Stripped F7 - Loamy M F7 - Loamy G F3 - Depleted	oint.  cator or cograins; Local  Moist)  not presen  edox Matrix Mucky Minera illeyed Matrix Matrix Matrix Matrix	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic	<u>c Soils¹</u> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	Half an inch iption (Description, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chipedon in Sulfide Layers (LRR F) ck (LRR FGH)	eeded to eatrix, CS=C	docummat the docummat docummat docummat docummat docummat document	color (I  Color (I  Color (I  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix lucky Minera eleyed Matrix Matrix ark Surface	Mottle %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S7 F16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Ced Vertic Parent Material	c Soils <sup>1</sup> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	Half an inch iption (Descrintration, D=Depl  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth ne etion, RM=Reduced M.  Matrix  Color (Moist)  Indicators (chairman and chairman and chairma	eeded to eatrix, CS=C	docum Coveredate the finding of the	color (I  Color	cator or co Grains; Local Moist)  Moist)  Mot presen  edox Matrix Jucky Minera Juck	Mottle %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression and Vertic Parent Material Shallow Dark S	c Soils <sup>1</sup> (LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	Half an inch iption (Description, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chipedon stic sufficient Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to eatrix, CS=C	docummon document at the docum	Color (I  Coated Sand (I  Coated Sand (I  Coated Sand (I  Color (I  Color (I  S5 - Sandy R  S6 - Stripped  F1 - Loamy G  F3 - Depleted  F8 - Redox D  F7 - Depleted  F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  not presen edox Matrix lucky Minera lleyed Matrix Matrix ark Surface Dark Surfae epressions	Mottle %  Mottle tion: PL=Pe	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Ced Vertic Parent Material	c Soils <sup>1</sup> (LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	Half an inch  iption (Description, D=Depl  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced M.  Matrix Color (Moist)  Indicators (chairman and the color is the color is sufficient and the color is	eeded to atrix, CS=C	docummon document at the docum	Color (I  Coated Sand (I  Coated Sand (I  Coated Sand (I  Color (I  Color (I  S5 - Sandy R  S6 - Stripped  F1 - Loamy G  F3 - Depleted  F8 - Redox D  F7 - Depleted  F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  not presen edox Matrix lucky Minera lleyed Matrix Matrix ark Surface Dark Surfae epressions	Mottle %  Mottle tion: PL=Pe	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast F16 - High F F18 - Reduc FF2 - Red F FF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S3 - 5 cm Mu	be to the depth ne etion, RM=Reduced M.  Matrix  Color (Moist)  Indicators (chairman and the color is sufficied by the color is sufficient in su	eeded to atrix, CS=C	docummon document at the docum	Color (I  Coated Sand (I  Coated Sand (I  Coated Sand (I  Color (I  Color (I  S5 - Sandy R  S6 - Stripped  F1 - Loamy G  F3 - Depleted  F8 - Redox D  F7 - Depleted  F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  not presen edox Matrix lucky Minera lleyed Matrix Matrix ark Surface Dark Surfae epressions	Mottle %  Mottle tion: PL=Pe	e absence of in ore Lining, M=Matri es Type	Location	Indicators M A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression 2 Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	Half an inch  iption (Description, D=Depl  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced M.  Matrix  Color (Moist)  Indicators (chairman and the color is sufficied by the color is sufficient in su	eeded to atrix, CS=C	docummon document at the docum	Color (I  Coated Sand (I  Coated Sand (I  Coated Sand (I  Color (I  Color (I  S5 - Sandy R  S6 - Stripped  F1 - Loamy G  F3 - Depleted  F8 - Redox D  F7 - Depleted  F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  not presen edox Matrix lucky Minera lleyed Matrix Matrix ark Surface Dark Surfae epressions	Mottle %  Mottle tion: PL=Pe	e absence of in ore Lining, M=Matri es Type	Location	Indicators M A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth neetion, RM=Reduced Mineral Matrix Color (Moist)  Indicators (chairman and the color is the c	eeded to atrix, CS=C	docum %  ent at the document of the content of the	cators are r S5 - Sandy R S6 - Stripped F7 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	oint.  cator or cograins; Local  Moist)  not presen  edox Matrix Mucky Minera sleyed Matrix Matrix Aurka Surface Dark Surface Dark Surfase pressions ains Depres	Mottle  Mottle  w  tt):	e absence of in ore Lining, M=Matri es Type  RA 72, 73 of LRR	Location  Location  H)	Indicators 1 A9 - 1 cm M A16 - Coast F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox i Prairie Redox i Prairie Redox i Plains Depression Parent Material Shallow Dark s ain in Remarks) Indepression Shallow Dark s ain or problematic.	c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-159n49w10-b1
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					(/ t)
					Total Number of Deminstrat Opening Assess All Ottober (D)
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 77 x 1 = 77
10.	_l Total Cavar =	0			
	Total Cover =	0	_		FACW spp. 35 x 2 = 70
					FAC spp. 5 x 3 = 15
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 4 x 4 = 16
1.					UPL spp. $0   x   5 = 0$
2.		-	-		
3.					Total 121 (A) 178 (B)
4.	1				
					Decelerated BA 4.77
5.					Prevalence Index = B/A = 1.471
6.	<u> </u>				
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cayon -	0			<del></del>
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	40	Υ	OBL	
2.	Eleocharis palustris	35	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Rumex stenophyllus	15	N	FACW	present, unless disturbed or problematic.
4.	Spartina pectinata	15	N	FACW	Definitions of Vegetation Strata:
					Definitions of Vegetation Strata.
5.	Symphyotrichum lanceolatum	5	N	FACW	_
6	Sonchus arvensis	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Elymus repens	2	N	FACU	height (DBH), regardless of height.
8.	Alisma triviale	2	N	OBL	
9.	Cirsium arvense	2	N	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					, -
11.					
					Herb - All herbaceous (non-woody) plants, regardless of size.
12.				_	merp - Air nervaceous (nort-woody) plants, regardless or size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	121			
	Total Cover =	121	_		
M	and any (Distriction and Control of Control				
	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
7.	Total Cover =	0		_	
Damada					
Remarks:	The welland sample area is dominated by na	arrow-ieat	callall and	cornmon	spikerush, with a diverse array of forbs and graminoids interspersed throughout.
Additional F	Remarks:				
, additional r	tomanto.				
İ					