## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	06/28/14
Applicant:		Enbridge									County:	Kittson
Investigators		EAB/RAJ				Subregion	n (MI RA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I132A	L/ (D/ 1 V to				Cubicgioi		Classification:			Olalo.	- IVIIV
Landform:	Depression				Lo	cal Relief:		Classification.			Sample Point	w-159n49w25-b1
Slope (%):	3 - 7%		Latitude:	10 572		Longitude:		155	Datum:		Sample Folia.	W-1331143W23-D1
										☑ No	0	
		nditions on the site				al ! (If no, exp			□Yes		Section:	
Are Vegetation		☐ or Hydrology			disturbed?		Are	normal circum	•	esent?	Township:	
Are Vegetation		☐ or Hydrology	L∎tural	ly prob	lematic?			☑ Yes	□No		Range:	Dir:
SUMMARY C												
Hydrophytic \	Vegetation P	resent?	<u>_</u>	No		-			Hydric Soil	s Present?	No	
Wetland Hyd	Irology Prese	nt?		No					Is This Sar	npling Poin	nt Within A W	etland? No
Remarks:	The sample	point is located u	pslope of	f a wet	land and a	vaterbody	within a	large roadside	ditch. The	vegetation	is dominated	by smooth brome. Recent
	heavy rains	have affected the	region.									
HYDROLOG'	Υ											
		4 (ObIII	1 41 4	L M.:-					I) -			
		icators (Check all	i that app	oly; Min	ilmum of on	e primary	or two se	econdary requir	ea):			
Primary:		Motor				D11 Calt (	Crust			Secondary:		Coil Crooks
	A1 - Surface \ A2 - High Wa					B11 - Salt ( B13 - Aqua					B6 - Surface S	
l H	A3 - Saturatio					C1 - Hydro		le Odor			B10 - Sparsely	Vegetated Concave Surface
I	B1 - Water Ma					C2 - Dry Se						Rhizospheres on Living Roots (tilled)
I	B2 - Sedimen							spheres on Living	Roots (not till		C8 - Crayfish E	
1 =	B3 - Drift Dep					C4 - Prese						n Visible on Aerial Imagery
l	B4 - Algal Ma					C7 - Thin M					D2 - Geomorp	
	B5 - Iron Dep					Other (Expl					D5 - FAC-Neu	
	B7 - Inundatio	n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Observ	vations:											
Surface Water	er Present?	Yes 🗆		Depth:		(in.)						
Water Table		Yes 🗆							Wetland H	lydrology l	Present?	N
	_	_				(in.)						_
Saturation Pr				Depth:		(in.)						
Describe Reco	orded Data (s											
	oraca Data (c	stream gauge, mon	itoring we	ell, aeria	al photos, pro	evious insp	ections),	if available:				
Remarks:		tream gauge, mon hydrology indicato				evious insp	ections),	if available:				
						evious insp	ections),	if available:				
						evious insp	ections),	if available:				
Remarks: SOILS	No wetland		ors were	observ	red.				dicators.)			
Remarks:  SOILS Profile Descri	No wetland	hydrology indicato	eeded to	observ docum	red.	cator or co	onfirm th	e absence of in				
Remarks:  SOILS Profile Descri	No wetland	hydrology indicators be to the depth ne	eeded to	observ docum	red.	cator or co	onfirm th	e absence of in				
Remarks:  SOILS Profile Descri	No wetland	hydrology indicators be to the depth ne	eeded to	observ docum	red.	cator or co	onfirm th	e absence of in ore Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicators be to the depth neetion, RM=Reduced M	eeded to	docum Covered/	ent the indi	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matri es	x)	Texture		Remarks
Remarks:  SOILS Profile Descri	No wetland	hydrology indicators be to the depth ne	eeded to	observ docum	red.	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicate be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)	eeded to eatrix, CS=C	docum Covered/	red. nent the indi Coated Sand (	cator or cc Grains; Locat Moist)	onfirm thion: PL=Pi Mottle %	e absence of in ore Lining, M=Matri es Type	x)	Texture		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	No wetland  ption (Descrintration, D=Depl	hydrology indicate be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)	eeded to eatrix, CS=C	docum Covered/ %	cators are r	cator or co Grains; Locat Moist)	onfirm thion: PL=Pi Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f	for Problematic	
Remarks:  SOILS Profile Descri (Type: C=Concer	No wetland  ption (Description, D=Deplied)  ption (Description)  ption (	be to the depth ne etion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (ch	eeded to eatrix, CS=C	docum Covered/ %	cators are r	cator or co	onfirm thion: PL=Pi Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	No wetland iption (Descrintration, D=Depli intration, D=Depli ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)  Indicators (ch	eeded to eatrix, CS=C	docum Covered/ %	Color (I	Cator or cc Grains; Locat Moist)  Moist)  not present	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	c Soils <sup>1</sup> RR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	No wetland iption (Descriptration, D=Deplication) iption Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  Indicators (chains a chain stick)	eeded to eatrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Cator or co Grains; Locat Moist)  Moist)  not present	onfirm thion: PL=Pi  Mottle  %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si	luck (LRR I, J) Prairie Redox (L urface (LRR G)	<del>c Soils<sup>1</sup></del> .RR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Depli	hydrology indicate be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  Indicators (ch  ipedon titic n Sulfide	eeded to eatrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy G	cator or co Grains; Locat Moist)  Moist)  not present edox Matrix Mucky Minera	onfirm thion: PL=Pi  Mottle  %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	c Soils <sup>1</sup> RR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	ption (Descrintration, D=Depli ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroget A5 - Stratified	hydrology indicate be to the depth ne etion, RM=Reduced M:  Matrix Color (Moist)  Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eeded to eatrix, CS=C	docum Covered/ %	Color (I  Coated Sand of Color (I  Coated Sand	Cator or cc Grains; Locat Moist)  not present edox Matrix lucky Minera lieyed Matrix Matrix	Mottle  Mottle  %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic	<del>c Soils<sup>1</sup></del> .RR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	No wetland iption (Descriptration, D=Deplication, D=Deplication) ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu	hydrology indicate be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  Indicators (ch  ipedon tis chick (LRR F) ck (LRR FGH)	eeded to eatrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F3 - Depleted F6 - Redox D	Moist)  Moist)  not present edox Matrix lucky Mineral leyed Matrix ark Surface	onfirm the tion: PL=Pi  Mottle  %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Sr F16 - High F F18 - Reduc TF2 - Red P	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material	C Soils <sup>1</sup> RR F, G, H)  DOS (LRR H, outisde MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	No wetland  Iption (Descriptration, D=Depletration, D=Depletra	hydrology indicate be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  Indicators (ch  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to eatrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted	Moist)  Moist)  Mot present  edox Matrix Mucky Minera Eleyed Matrix Matrix Matrix Ark Surface Dark Surface	onfirm the tion: PL=Pi  Mottle  %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ped Vertic Parent Material Shallow Dark S	c Soils <sup>1</sup> RR F, G, H)  DNS (LRR H, outisde MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Depli A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	hydrology indicate be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)  Indicators (ch  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to eatrix, CS=C	docum Covered/	Color (I  Coated Sand of Coated Sand of Color (I  Coated Sand of Coated Sand of Color (I  Coated Sand of C	Moist)  Moist)  Mot present  edox Matrix Mucky Minera Bleyed Matrix Matrix ark Surface park Surface peressions	montion: PL=Pi  Mottle  %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material	c Soils <sup>1</sup> RR F, G, H)  DNS (LRR H, outisde MLRA 72, 73)  Surface
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-159n49w25-b1
<b>VEGETATION</b>	N (Species identified in all uppercase are	e non-native	species.)		
	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: 0 (A)
3.					(1)
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.					
10.					
	Total Cover =	0	_		FACW spp. 10 x 2 = 20
					FAC spp. 0 x 3 = 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 25 x 4 = 100
1.					UPL spp. 80 x 5 = 400
2.					
3.					Total 115 (A) 520 (B)
					(A) 320 (D)
4.					-
5.					Prevalence Index = B/A = 4.522
6.					
7.					
8.	<u> </u>				Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					
10.		•			Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inemis	80	Υ	UPL	<u> </u>
2.	Cirsium arvense	15	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Symphyotrichum ericoides	10	N	FACU	present, unless disturbed or problematic.
			N	_	
4.	Symphyotrichum lanceolatum	10	IN	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.					1
9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					-
				_	-
11.				_	All bedresses (see such a state of size
12.				_	Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.				•	Woody Vines - All woody vines, regardless of height.
	Total Cover =	115			1
	Total Cover =	110	_		
h.,	. (D) ( ) (D) ( ) (D) ( ) (D) (D) (D) (D)				
	ratum (Plot size: 30 ft. radius)				_
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.				_	
4.	Tatal Oavea			_	-
	Total Cover =	0			
Remarks:	The upland is dominated by smooth brome.				
Additional R	Pemarks:				
Auditional R	AGIIIQI N.J.				