## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators		L3R Enbridge EAB/RAJ				Subregion		or LRR):	MLRA 56		Date: County: State:	06/28/14 Kittson MN
Soil Unit: Landform:	I133A           Depression           3 - 7%         Latitude: 48.572252					NWI Classification:  Local Relief: CL  Longitude: -96.924480 Datum:					Sample Point:	w-159n49w25-b1
Slope (%): Are climatic/l Are Vegetation Are Vegetation	hydrologic co	onditions on the site  □ or Hydrology □ □ or Hydrology	e typical f □gnific	for this cantly c	time of yea listurbed?		olain in rema			☑ No esent?	Section: Township:	Die:
SUMMARY C	OF FINDING	S			iematic?			• les			Range:	Dir:
Hydrophytic ' Wetland Hyd			_	Yes Yes					Hydric Soil: Is This San		Yes nt Within A W	etland? Yes
Remarks:	The wetland	d is located in a roa	adside di	tch, on	the fringe	of a mappe	ed water	body. Prairie c	ordgrass and	d lance-lea	ved aster are	e prevalent.
HYDROLOG	Υ											
Primary	A1 - Surface A2 - High Wa A3 - Saturatic B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatic B9 - Water-S	ter Table on arks it Deposits osits t or Crust osits on Visible on Aerial Im		ily; Mini		B11 - Salt (B13 - Aqua C1 - Hydro C2 - Dry Se	Crust Itic Fauna gen Sulfideason Wared Rhizos nce of Recoluck Surfa	e Odor ter Table spheres on Living duced Iron	,		B6 - Surface S B8 - Sparsely B10 - Drainage C3 - Oxidized C8 - Crayfish B C9 - Saturation D2 - Geomorp D5 - FAC-Neu	Vegetated Concave Surface e Patterns Rhizospheres on Living Roots (tilled) Burrows n Visible on Aerial Imagery shic Position
Water Table Present? Yes □				Depth: (in.) Depth: (in.) Depth: 0 (in.)				Wetland Hydrology Present? Y				
		stream gauge, moni							wn since soil	le could no	t he sampled	within the roadside ditch
Remarks:									wn since soil	ls could no	t be sampled	within the roadside ditch.
Remarks:  SOILS Profile Descri	Recent rain	s have influenced	the curre	ent satu	uration level	. The water	er table o	depth is unknown the second se	ndicators.)	ls could no	t be sampled	within the roadside ditch.
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Remarks:  SOILS Profile Descri	Recent rain	s have influenced ibe to the depth ne etion, RM=Reduced Ma Matrix	the curre	docum Covered/G	uration level	. The water	er table o	e absence of irore Lining, M=Matr	ndicators.)	ls could no	t be sampled	within the roadside ditch.
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Remarks:  SOILS Profile Descri (Type: C=Concer	Recent rain	s have influenced libe to the depth ne letion, RM=Reduced Ma  Matrix  Color (Moist)	the curre	docum Covered/0	ent the indicoated Sand C	. The water cator or co Grains; Locat Moist)	onfirm the confirm the confirm the confirm the confirm the confirm the confirm the confirmation. PL=Pe	e absence of ir ore Lining, M=Matr es Type	ndicators.)		t be sampled	
Remarks:  SOILS Profile Descri (Type: C=Concer	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	s have influenced  ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  Indicators (ch  ipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral Mucky Peat or Peat (LR) Cky Peat or Peat (LR)	eeded to o atrix, CS=C	documcovered/0 % e if indice	cators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy G  F2 - Loamy G  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	Moist)  Outpresent  edox Matrix Matri	monfirm the confirm the confirmation of the confirmation that confirmation the conf	e absence of ir ore Lining, M=Matr	Location	Indicators of A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Explain Indicators of h	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Parent Material Shallow Dark Spain in Remarks)	Remarks  c Soils¹  LRR F, G, H)  Ons (LRR H, outisde 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 S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	s have influenced  ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  Indicators (ch  ipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) de Below Dark Surface lucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to o atrix, CS=C	documcovered/0 % e if indice	cators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy G  F2 - Loamy G  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	Moist)  Outpresent  edox Matrix Matri	monfirm the confirm the confirmation of the confirmation that confirmation the conf	e absence of ir ore Lining, M=Matrices Type	Location	Indicators of A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Explain Indicators of h	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks  c Soils¹  LRR F, G, H)  Ons (LRR H, outisde MLRA 72, 73)  Surface

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Project/Site:	: L3R				Sample Point: w-159n49w25-b1
VEGETATIO	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: 1 (A)
					Number of Bonninant openies that are OBE, 1 AOV, of 1 AC.
3.					
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.					1
10.	_				OBL spp. <u>5</u> x 1 = <u>5</u>
	Total Cover =	0	_		FACW spp. 75
					FAC spp. 0 x 3 = 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.		-			UPL spp. 5 x 5 = 25
2.					
					T-1-1 05 (A) (D)
3.					Total 85 (A) 180 (B)
4.					
5.					Prevalence Index = B/A = 2.118
6.					
7.	-				
8.	-				Hydrophytic Vegetation Indicators:
9.	_				Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herh Stratum (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Spartina pectinata	60	Υ	FACW	- Tobicii Tiyaropiiyaa Vagatataii (Explain)
2.					* Indicators of hydric soil and wetland hydrology must be
	Symphyotrichum lanceolatum	15	N	FACW	present, unless disturbed or problematic.
3.	Typha angustifolia	5	N	OBL	
4.	Bromus inemis	5	N	UPL	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.				_	
				_	Continue (Charaba - Woody plants loss than 2 in DRH - regardless of height
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.				<del></del>	Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
				_	Manda Mines All woody vinos recordings of bright
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	85	_		
	•		<u> </u>		
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.	( lot oillot of its radiato)				
	+				
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:			ance-leave	ad actor v	with some cattails and smooth brome creeping in from the adjacent waterbody and
remarks.	· · · · · · · · · · · · · · · · · · ·	iass and it	ance-leave	ou asici, v	with some callains and smooth brome creeping in from the adjacent waterbody and
	upland, respectively.				
Additional F	Remarks:				
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