## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	I132A Rise	L3R Enbridge EAB/RAJ			Loc	cal Relief:	NW VL	or LRR): I Classification:	MLRA 56		Date:06/24/14County:MarshallState:MNSample Point:u-158n48w6-c1
Slope (%):	0 - 2%	anditions on the site	Latitude: 48			Longitude:			Datum:		
Are Climatic/r Are Vegetatio		onditions on the site				II? (If no, exp	1	arks) e normal circum		☑ No	Section:
Are Vegetation	•	il □, or Hydrology	•					e normai circuir ☑ Yes		556111 !	Township: Range: Dir:
SUMMARY C			Liatariany	p. 0.8				_ 100	_ 110		
Hydrophytic V	Vegetation F	resent?	No	C					Hydric Soil	s Present?	No
Wetland Hyd			Ye								t Within A Wetland? <b>No</b>
Remarks:	soil excava	l is located on a rise ted for the ditches.		a roa	adside ditch	and a rail	Iroad dite	ch. Smooth bro	me dominat	es the com	munity. The rise was likely created from the
HYDROLOG											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):       Secondary:         Primary:       A1 - Surface Water       B11 - Salt Crust       B6 - Surface Soil Cracks         A2 - High Water Table       B13 - Aquatic Fauna       B8 - Sparsely Vegetated Concave Surface         A3 - Saturation       C1 - Hydrogen Sulfide Odor       B10 - Drainage Patterns         B1 - Water Marks       C2 - Dry Season Water Table       C3 - Oxidized Rhizospheres on Living Roots (not tills         B2 - Sediment Deposits       C3 - Oxidized Rhizospheres on Living Roots (not tills       C8 - Crayfish Burrows         B3 - Drift Deposits       C7 - Thin Muck Surface       D2 - Geomorphic Position         B5 - Iron Deposits       Other (Explain)       D5 - FAC-Neutral Test         B7 - Inundation Visible on Aerial Imagery       D7 - Frost-Heaved Hummocks (LRR F)         B9 - Water-Stained Leaves       B9 - Water-Stained Leaves										<ul> <li>B8 - Sparsely Vegetated Concave Surface</li> <li>B10 - Drainage Patterns</li> <li>C3 - Oxidized Rhizospheres on Living Roots (tilled)</li> <li>C8 - Crayfish Burrows</li> <li>C9 - Saturation Visible on Aerial Imagery</li> <li>D2 - Geomorphic Position</li> <li>D5 - FAC-Neutral Test</li> </ul>	
	er Present? Present? resent? orded Data (	Yes □ Yes ☑ stream gauge, monit	De De itoring well,		0	(in.) (in.) (in.) evious insp	pections),	if available:	Wetland H	lydrology F	Present? Y
Remarks: Recent heavy rains have saturated the soil.											
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)											
		Matrix					Mottl	00			
Depth (In.)		Color (Moist)		%	Color (N	Moist)	%	Туре	Location	Texture	Remarks
0-5	Hue_10YR	· · · · · · · · · · · · · · · · · · ·		100			,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		C	Romano
5-18	Hue_10YR			70	Hue_2.5Y	4/1	30	D	М	С	
					 	ļ					
					1	1					
NRCS Hydr		le la contrara de la									
	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M	pipedon istic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface Dark Surface Aucky Mineral Mucky Peat or Peat (LRF ucky Peat or Peat (LRF	e .RR G, H)		icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da F16 - High Pla	edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surfa epressions	al x ice	.RA 72, 73 of LRR		A9 - 1 cm M A16 - Cost F S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic Soils <sup>1</sup> uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) lains Depressions (LRR H, outisde MLRA 72, 73) ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hydrology must be present, d or problematic.
	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	pipedon istic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface Dark Surface Aucky Mineral Mucky Peat or Peat (LR Ducky Peat or Peat (LRF Deved Matrix	e .RR G, H)		S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	edox Matrix Jucky Minera Ileyed Matrix I Matrix ark Surface Dark Surfa epressions ains Depres	al x ice	.RA 72, 73 of LRR		A9 - 1 cm M A16 - Cost F S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox (LRR F, G, H) Irface (LRR G) lains Depressions (LRR H, outisde MLRA 72, 73) ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hydrology must be present,

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Project/Site	: L3R				Sample Point: u-158n48w6-c1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
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.	T				
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 $x = 0$
	Total Cover =	0			FACW spp. 0 $X 2 = 0$
					FAC spp. $5$ $x 3 = 15$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 15 $x 4 = 60$
1.					UPL spp. 70 X 5 = $350$
2.					
3.					Total <u>90</u> (A) <u>425</u> (B)
4.					
5.					Prevalence Index = B/A = <u>4.722</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is $\leq 3.0$ *
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	70	Y	UPL	
2.	Calystegia sepium	5	N	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Rosa arkansana	5	N	FACU	present, unless disturbed or problematic.
4.	Cirsium arvense	5	N	FACU	Definitions of Vegetation Strata:
5.	Poa pratensis	5	Ν	FACU	
6					<b>Tree -</b> 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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
13.	,				4
14.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	90			
		90			
	tratum (Plot size: 30 ft. radius)				
<u>ا.</u>					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	The community is dominated by smooth bror	ne.			
Additional F	Remarks:				