WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	: I75A Depressior	L3R Enbridge RAJ/BEH/MRK			Subregion	NW	A or LRR): I Classification	MLRA 56		Date:09/13/14County:PenningtonState:MNSample Point:w-154n44w31-f1
Slope (%):	3 - 7%	anditiona on the sit	Latitude: 48		Longitude:			Datum:		
Are Vegetation		onditions on the sit					^{arks)} e normal circun		□ No esent?	Section: Township:
Are Vegetation	•	il □, or Hydrology	•				⊠ Yes	□ No		Range: Dir:
SUMMARY C										
Hydrophytic	-		Ye						s Present?	
Wetland Hyd Remarks:			Ye reed capar		a roadside ditch	on the	south side of C			t Within A Wetland? Yes
Remarks: A wet meadow dominated by reed canary grass in a roadside ditch on the south side of County Highway 8. The wetland area extends out of the ditch to the south into a forested wetland. All parameters of wetland conditions are met.										
HYDROLOG										
Primary: Secondary: 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 B2 - Sediment Deposits C3 - Oxidized Rhizospheres on Living Roots (not tilk C8 - Crayfish Burrows B3 - Drift Deposits C4 - Presence of Reduced Iron C9 - Saturation Visible on Aerial Imagery B5 - Iron Deposits Other (Explain) D5 - FAC-Neutral Test B7 - Inundation Visible on Aerial Imagery D7 - Frost-Heaved Hummocks (LRR F)										
Field Observ Surface Water Water Table Saturation Pr Describe Reco	er Present? Present? resent?	Yes Yes Yes (stream gauge, mon	De De	epth: epth: epth: aerial pho	(in.) (in.) (in.) tos, previous insp	pections),	if available:	Wetland H	ydrology I	Present? Y
Remarks: Indicators of wetland hydrology are present.										
SOILS										
		ribe to the depth ne pletion, RM=Reduced M								
(1)por e contest										
		Matrix				Mottl				
Depth (In.)		Color (Moist)			Color (Moist)	%	Туре	Location	Texture	Remarks
0-3	Hue_10YR			100					MMI	the mineral component is likely due to the nearby road
3-20	Hue_10YR	2/1	1	100					IVI	
		+								
		+					1			
		1								
NRCS Hydr □	 A1- Histosol A2 - Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) A11 - Depleted Below Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix 				 S6 - Stripped Matrix F1 - Loamy Mucky Mineral F2 - Loamy Gleyed Matrix F3 - Depleted Matrix F6 - Redox Dark Surface F7 - Depleted Dark Surface F8 - Redox Depressions F16 - High Plains Depressions (MLRA 72, 73 of LRR H) 					or Problematic Soils ¹
	A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick I S1 - Sandy M S2 - 2.5 cm I S3 - 5 cm Mu S4 - Sandy G	istic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surfac Dark Surface Aucky Mineral Mucky Peat or Peat (LR Gleyed Matrix	LRR G, H)	□ S6 - S □ F1 - L □ F2 - L □ F3 - D □ F6 - R □ F7 - D □ F8 - R	tripped Matrix oamy Mucky Minera oamy Gleyed Matrix epleted Matrix edox Dark Surface epleted Dark Surfa edox Depressions High Plains Depres	x	-RA 72, 73 of LRF		A16 - Coast 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) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) eed Vertic arent Material Shallow Dark Surface ain in Remarks) ydrophytic vegetation and wetland hydrology must be present, ed or problematic.
	A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick I S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	istic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surfac Dark Surface Aucky Mineral Mucky Peat or Peat (LR Gleyed Matrix	LRR G, H)	□ S6 - S □ F1 - L □ F2 - L □ F3 - D □ F6 - R □ F7 - D □ F8 - R	tripped Matrix oamy Mucky Minera oamy Gleyed Matrix epleted Matrix edox Dark Surface epleted Dark Surfa edox Depressions	x			A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) red Vertic arent Material Shallow Dark Surface ain in Remarks) sydrophytic vegetation and wetland hydrology must be present,

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Project/Site:	L3R				Sample Point: w-154n44w31-f1				
					•				
VEGETATIO	N (Species identified in all uppercase are	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: <u>3</u> (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 3 (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: <u>Multiply by:</u>				
10.					OBL spp. 43 X 1 = 43				
	 Total Cover =	0			FACW spp. 95 x 2 = 190				
					$FAC spp. \qquad 0 \qquad \qquad X 3 = \qquad 0$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACW spp. 95 x 2 = 190 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0				
1.	Salix discolor	10	Y	FACW	UPL spp. $0 x 5 = 0$				
2.	Populus balsamifera	5	<u>- </u>	FACW					
3.		5		171077	Total 138 (A) 233 (B)				
4.									
<u> </u>					Provelence Index = P/A = -1699				
					Prevalence Index = B/A = <u>1.688</u>				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	15	_		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	75	Y	FACW					
2.	Carex pellita	20	Ν	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Typha latifolia	20	N	OBL	present, unless disturbed or problematic.				
4.	Asclepias incarnata	5	Ν	FACW	Definitions of Vegetation Strata:				
5.	Scirpus pallidus	3	N	OBL					
6					Tree - 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.	l								
					Herb - All herbaceous (non-woody) plants, regardless of size.				
12.					HEID - An Herbassous (Herr woody) plants, regardless of size.				
13.									
14.					Mander Vienne All woody vienne regardlage of bright				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	123							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks:		ass. with w	oolly seda	e and bro	ad-leaf cattail in a roadside ditch. Hydrophytic vegetation is present.				
		,	,						
Additional Remarks:									