WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:L3RApplicant:EnbridgeInvestigators:BJC/RAJSoil Unit:165Landform:TalfSlape (%):0, 2%			tudo: 48 119	Subregion (MLRA or LRR): MLRA 56 NWI Classification: Local Relief: LL 48.118369 Longitude: -96.312190 Datum:							Date:09/23/14County:PenningtonState:MNSample Point:u-154n44w33-z1	
Are Vegetation	on 🗆 Soil	nditions on the site typ □, or Hydrology □si	gnificantly	s time of yea disturbed?		plain in rem			□ No	Section: Township:		
Are Vegetation		□, or Hydrology □a	turally prob	plematic?			⊠ Yes	□ No		Range:	Dir:	
SUMMARY C												
				No No				Hydric Soils Present? No Is This Sampling Point Within A Wetland? No			etland? No	
Remarks:				hayed field dominated by pasture grasses. The vegetation has								
HYDROLOG	Y											
Wetland Hy Primary:	A1 - Surface A2 - High Wa A3 - Saturatic B1 - Water M B2 - Sedimen B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatic	ter Table n arks t Deposits osits t or Crust			B11 - Salt B13 - Aqua C1 - Hydro C2 - Dry S C3 - Oxidiz	Crust atic Fauna gen Sulfic eason Wa zed Rhizos ence of Re Juck Surfa	a de Odor ater Table spheres on Living educed Iron		e	B6 - Surface S B8 - Sparsely B10 - Drainage C3 - Oxidized I C8 - Crayfish E C9 - Saturation D2 - Geomorp D5 - FAC-Neut	Vegetated Concave Surface e Patterns Rhizospheres on Living Roots (tilled) Burrows n Visible on Aerial Imagery hic Position	
	er Present? Present? resent? orded Data (s	Yes □ Yes □ Yes □ stream gauge, monitorin	-	al photos, pre	(in.) (in.) (in.) evious insp	pections),	, if available:	Wetland H	lydrology l	Present?	<u>N</u>	
Remarks: No indicators of wetland hydrology were observed. SOILS												
Profile Descri		be to the depth neede etion, RM=Reduced Matrix,										
		Matrix				Mottl						
Depth (In.)		Color (Moist)	%	Color (I	Moist)	%	Туре	Location	Texture		Remarks	
0-10	Hue_10YR		100	(/				FSL			
10-18	Hue_10YR		95	Hue_10YR	5/6	5	С	М	FS			
	_											
NRCS Hydric Soil Field Indicators(check hereA1- HistosolA2 - Histic EpipedonA3 - Black HisticA4 - Hydrogen SulfideA5 - Stratified Layers (LRR F)A9 - 1 cm Muck (LRR FGH)A11 - Depleted Below Dark SurfaceA12 - Thick Dark SurfaceS1 - Sandy Mucky MineralS2 - 2.5 cm Mucky Peat or Peat (LRR G, H)S3 - 5 cm Mucky Peat or Peat (LRR F)S4 - Sandy Gleyed Matrix				S5 - Sandy Redox A9 - 1 cm M S6 - Stripped Matrix A16 - Coast F1 - Loamy Mucky Mineral S7 - Dark S F2 - Loamy Gleyed Matrix F16 - High F F3 - Depleted Matrix F16 - High F F6 - Redox Dark Surface TF2 - Red F F7 - Depleted Dark Surface TF12 - Very F8 - Redox Depressions Other (Explain F16 - High Plains Depressions (MLRA 72, 73 of LRR H) ¹ Indicators of I						ced Vertic	LRR F, G, H)	
	A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	ark Surface ucky Mineral lucky Peat or Peat (LRR (cky Peat or Peat (LRR F)	П Э, Н)			ssions (Ml	LRA 72, 73 of LRF			nydrophytic vegetat ed or problematic.	ion and wetland hydrology must be present,	
	A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	ark Surface ucky Mineral lucky Peat or Peat (LRR (cky Peat or Peat (LRR F)	П Э, Н)			ssions (Ml		₹ H)	unless disturbe		ion and wetland hydrology must be present,	
	A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	ark Surface ucky Mineral lucky Peat or Peat (LRR (cky Peat or Peat (LRR F)	G, H)	F16 - High Pla		sions (Ml			unless disturbe		ion and wetland hydrology must be present,	

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Project/Site	: L3R				Sample Point: u-154n44w33-z1				
		e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.		<u>/8 COVEL</u>	Dominant	<u>mu.status</u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.									
4.					Total Number of Dominant Species Across All Strate: 2 (B)				
					Total Number of Dominant Species Across All Strata: 2 (B)				
5.					Demonstrat Demoiser That Are ODL EAON(α EAO, A/D)				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.					Drevelence Index Werkeheet				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 5 x 3 = 15 FACU spp. 60 x 4 = 240				
	Total Cover =	0			FACW spp. 0 $x 2 = 0$				
					FAC spp. <u>5</u> $X 3 = 15$				
	Stratum (Plot size: 15 ft. radius)				FACU spp60 X 4 =240				
1.					UPL spp. <u>45</u> X 5 = <u>225</u>				
2.									
3.					Total <u>110</u> (A) <u>480</u> (B)				
4.									
5.					Prevalence Index = $B/A = $ 4.364				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
		0			Prevalence Index is ≤ 3.0 *				
	-				Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	45	Y	UPL					
2.	Lotus corniculatus	30		FACU	* Indicators of hydric soil and wetland hydrology must be				
			N	FACU	present, unless disturbed or problematic.				
3.	Poa pratensis	20							
4.	Taraxacum officinale	5	<u>N</u>	FACU FACU	Definitions of Vegetation Strata:				
5.	Cirsium arvense	5	N		Tree				
6	Solidago gigantea	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.					neight (DDH), regardless of height.				
8.					O U (O) I Weathurlants loss than 2 in DDU reported on a finite				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	110							
	-								
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.	, , , , , , , , , , , , , , , , , , ,								
2.									
3.	-				Hydrophytic Vegetation Present? N				
5.									
4.	, 								
	Total Cover =	0							
Remarks:		-	e and hird	l's foot tre	foil. The vegetation has been hayed in the area, but is still identifiable.				
Nemarks.	The upland sample point is dominated by sin				ion. The vegetation has been haved in the area, but is still identifiable.				
Additional	Remarks:								