WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	I23A Talf	L3R Enbridge BEH/RAJ			Loc	cal Relief:	NW VL	A or LRR): I Classificatio			Date:08/19/14County:MarshallState:MNu-157n47w16-d1		
Slope (%):	3 - 7%	nditions on the sit	Latitude: 48			Longitude:			Datum		Castion		
Are Vegetation		onditions on the sit				II ? (If no, exp	1		<u> </u>	□ No resent?	Section: Township:		
Are Vegetation		\Box , or Hydrology	•	•				e normai eire ⊠ Ye			Range: Dir:		
SUMMARY C			, ,										
Hydrophytic	Vegetation P	resent?	N	0					Hydric So	ils Present?	? No		
									mpling Poir	nt Within A Wetland? No			
Remarks: The upland sample point is dominated by smooth brome, upslope from a nearby wet meadow.													
HYDROLOGY Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary: Secondary:													
A1 - Surface WaterB11 - Salt CrustB6 - Surface Soil CracksA2 - High Water TableB13 - Aquatic FaunaB8 - Sparsely Vegetated Concave SurfaceA3 - SaturationC1 - Hydrogen Sulfide OdorB10 - Drainage PatternsB1 - Water MarksC2 - Dry Season Water TableC3 - Oxidized Rhizospheres on Living Roots (not tilleB2 - Sediment DepositsC3 - Oxidized Rhizospheres on Living Roots (not tilleC8 - Crayfish BurrowsB3 - Drift DepositsC4 - Presence of Reduced IronC9 - Saturation Visible on Aerial ImageryB5 - Iron DepositsOther (Explain)D5 - FAC-Neutral TestB7 - Inundation Visible on Aerial ImageryD7 - Frost-Heaved Hummocks (LRR F)B9 - Water-Stained LeavesFaune										 B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-Neutral Test 			
Field Observations: Surface Water Present? Yes Depth: (in.) Water Table Present? Yes Depth: (in.) Saturation Present? Yes Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? N													
Remarks: No primary or secondary hydrological indicators were observed.													
			U										
SOILS													
		ibe to the depth ne letion, RM=Reduced M											
	, ,							<u> </u>					
		Matrix					Mottl	es					
Depth (In.)		Color (Moist)		%	Color (N	Moist)	%	Туре	Location		Remarks		
0-15	Hue_10YR			100						FSL			
15-23	Hue_10YR	4/2		97	Hue_7.5YR	4/4	3	С	M	LFS			
NRCS Hydric Soil Field Indicators (check here if indicators are not present): Image: Control of the second se													
	 A3 - Black Histic F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G) A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) A5 - Stratified Layers (LRR F) F3 - Depleted Matrix F18 - Reduced Vertic A9 - 1 cm Muck (LRR FGH) F6 - Redox Dark Surface F7 - Depleted Dark Surface F7 - Depleted Dark Surface F7 - Depleted Dark Surface F8 - Redox Depressions S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) 										t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface lain in Remarks) hydrophytic vegetation and wetland hydrology must be present,		
Restrictive Layer	r Type:			Depth:				Hydric S	Hydric Soil Present? N				
Remarks:	Soil is brow	n fine sendy loom	underlain	hy d	enleted loam	y fine cor	nd which				tors		
Remarks: Soil is brown fine sandy loam underlain by depleted loamy fine sand, which does not meet any hydric soil indicators.													

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Project/Site:	L3R				Sample Point: u-157n47w16-d1				
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.	<u>_</u>								
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.	l								
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	Tatal Osuar	0			$OBL spp. 0 \qquad X 1 = 0 \qquad \qquad$				
Total Cover =0					FACW spp. 0 $X Z = 0$				
					OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 2 x 3 = 6 FACU spp. 15 x 4 = 60				
	Stratum (Plot size: 15 ft. radius)	0	NI		$FACU \text{ spp.} \qquad 15 \qquad X \ 4 = \qquad 60$				
1.	Acer negundo	2	N	FAC	UPL spp. 85 $x 5 = 425$				
2.									
3.					Total <u>102</u> (A) <u>491</u> (B)				
4.									
5.					Prevalence Index = B/A = <u>4.814</u>				
6.									
7.					Undrenbutie Verstation Indicators				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.	Tatal Cavar	Dominance Test is > 50%							
	Total Cover =	2	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	85	Y	UPL					
2.	Dactylis glomerata	10	<u>N</u>	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Elymus repens	5	N	FACU	present, unless disturbed or problematic.				
4.					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.									
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.					4				
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	100	_						
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.	1								
2.	1								
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =								
Remarks: The sample point is dominated by smooth brome.									
Additional F	Remarks:								
I									