WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14		
Applicant:		Enbridge								County:	Marshall		
Investigators	: [BJC/RAJ		Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	I65A			NWI Classification:									
Landform:	Toeslope			Local Relief: CL						Sample Point	u-156n46w33-m1		
Slope (%):	0 - 2%		Latituda: 16	28308			01./11	Datum:		Cample i oliit.	u 1001140W00 1111		
V = statem													
					-	ı			□ No	Section:			
Are Vegetation		☑, or Hydrology	•	•		Are	e normal circum	nstances pre	esent?	Township:			
Are Vegetation	on 🛭 Soil	□, or Hydrology	□aturally p	oroblemati	c?		Yes	□ No		Range:	Dir:		
SUMMARY OF FINDINGS													
Hydrophytic \			No					Hydric Soil	s Present?	No			
	_										otland? No		
Wetland Hydrology Present? No Is This Sampling Point Within A Wetland? No The second of the seco													
Remarks: The upland sample point is located in a cut wheat field where the vegetation is still identifiable. The vegetation is disturbed due to herbicide application. The													
soils are significantly disturbed due to tilling.													
HYDROLOG													
			41 - 4 1	N 41 1 1	. (1\					
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):													
<u>Primary:</u>	•				_	_			Secondary:		_		
	A1 - Surface V				□ B11 - Salt					B6 - Surface S			
	A2 - High Wat				□ B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturation				□ C1 - Hydro					B10 - Drainage			
	B1 - Water Ma				☐ C2 - Dry S						Rhizospheres on Living Roots (tilled)		
	B2 - Sediment	•					spheres on Living	Roots (not tille	• 🗆	C8 - Crayfish E			
	B3 - Drift Depo				□ C4 - Prese						n Visible on Aerial Imagery		
	B4 - Algal Mat				□ C7 - Thin N		ace			D2 - Geomorp			
	B5 - Iron Depo				□ Other (Exp	lain)				D5 - FAC-Neut			
		n Visible on Aerial Ima	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	B9 - Water-Sta	ained Leaves											
Field Observ	vations:												
Surface Wate	or Present?	Yes □	Dep	oth:	(in.)								
					 :. :			Wetland H	lydrology F	Present?	N		
Water Table		Yes		oth:	(in.)						<u> </u>		
Saturation Pr	esent?	Yes □	Dep	oth:	(in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Reco	orded Data (s	tream gauge, monit	itoring well, a	aerial photo	s previous insp	ections).	if available:						
					os, previous insp	ections),	if available:						
Describe Reco		tream gauge, monits of wetland hydro			os, previous insp	ections),	if available:						
Remarks:					os, previous insp	ections),	if available:						
Remarks:	No indicator	s of wetland hydro	ology were o	observed.		•							
Remarks: SOILS Profile Descri	No indicator	s of wetland hydro	ology were deeded to doo	observed.	e indicator or co	onfirm th	e absence of in						
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Remarks: SOILS Profile Descri	No indicator	s of wetland hydro	ology were deeded to doo	observed.	e indicator or co	onfirm th	e absence of in ore Lining, M=Matri						
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator ption (Descri	s of wetland hydro be to the depth new etion, RM=Reduced Ma	eeded to doc atrix, CS=Cove	cument the	e indicator or co Sand Grains; Loca	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	s of wetland hydro De to the depth necession, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cove	cument the ered/Coated	e indicator or co	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No indicator ption (Descriptration, D=Depleted) Hue_10YR Hue_10YR	s of wetland hydro De to the depth new Etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/2	eeded to docatrix, CS=Cove	cument the ered/Coated 6 Co	e indicator or co Sand Grains; Loca Dior (Moist)	Mottle	e absence of in ore Lining, M=Matri es Type	ix)	LS		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No indicator ption (Descriptration, D=Depleted	s of wetland hydro De to the depth new Etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/2	eeded to docatrix, CS=Cove	cument the ered/Coated 6 Co	e indicator or co Sand Grains; Loca	Mottle	e absence of in ore Lining, M=Matri es	ix)	LS		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	ntration, D=Deplet Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi	s of wetland hydro De to the depth new Stion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/2 Indicators (characters)	eeded to docatrix, CS=Cove	cument the ered/Coated 6 Co 00 00 indicators S5 - Sa S6 - St	e indicator or co Sand Grains; Loca olor (Moist) are not presen ndy Redox ripped Matrix	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	ntration, D=Depleter Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His	s of wetland hydro be to the depth new tion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/2 Indicators (characters)	eeded to docatrix, CS=Cove	indicators S5 - Sa S6 - St F1 - Lo	e indicator or co Sand Grains; Loca Dior (Moist) are not presen andy Redox ipped Matrix amy Mucky Miner	Mottle Mottle Mottle Mottle Mottle Mottle Mottle Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su	uck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ (LRR F, G, H)		
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Project/Site:	L3R				Sample Point: u-156r	n46w33-m1			
					· •				
VEGETATIO	N (Species identified in all uppercase ar	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:	(A)			
3.						、			
4.					Total Number of Dominant Species Across All Strata: 1	(B)			
5.					Total Name of Bollina Repositor Resource 7 to Strates	(
6.					Percent of Deminant Species That Are ORL EACW, or EAC: 0.0%	(
					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0%	(A/B)			
7.					Dravalana a Inday Warlah aat				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.		_			Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 21 x 4 = 84 UPL spp. 80 x 5 = 400				
	Total Cover =	0			FACW spp. $0 x 2 = 0$				
					FAC spp. $0 x 3 = 0$				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $_{21}$ $x 4 = _{84}$				
1.					UPL spp. $\frac{80}{}$ $x = 5 = \frac{400}{}$				
2.									
3.					Total 101 (A) 484 (B)				
4.									
5.	,				Prevalence Index = B/A = 4.792				
6.									
7.									
					Hydrophytic Vogotation Indicators:				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation	on			
10.					Dominance Test is > 50%				
	Total Cover =	0			Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain)	*			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Ex	plain) *			
1.	Triticum aestivum	80	Υ	NI		•			
2.	Chenopodium album	10	N	FACU	* Indicators of hydric soil and wetland hydrology	must be			
3.	Amaranthus retroflexus	10	N	FACU	present, unless disturbed or problemat				
4.	Artemisia biennis	1	N	FACU	Definitions of Vegetation Strata:				
5.	Titolinoid Biolinio	<u> </u>		17100	Dominiono di Vogotation di atai				
6					Tree - Was developed Oir (7.0 and an arranging discuss	-tt			
					Tree - Woody plants 3 in. (7.6cm) or more in diame height (DBH), regardless of height.	eter at breast			
7.					Holghi (BBH), Togaraloss of Holghi.				
8.					O - 1 - 101 - 1 Woody plants less than 2 in DDH regardle	as of baiabt			
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardles	ss of neight.			
10.									
11.									
12.					Herb - All herbaceous (non-woody) plants, regardle	ess of size.			
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	101			-				
	10001 -	101	_						
Woody Vina St	ratum (Plot size: 30 ft. radius)								
1	ratum (r lot SIZE. 30 ft. faulus)								
2.									
					Hydronbytic Venetation December 1				
3.				-	Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =								
Remarks:	The upland sample point is dominated by cu	t wheat.							
Additional Remarks:									
Additional R	ACIIIAI NO.								