WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/05/14				
Applicant: Investigators		Enbridge MRK/BEH			Subregio	n (MI RA	or LRR):	MLRA 56		County: State:	Marshall MN				
Soil Unit:	166A		I		_Cubicgio	•	NWI Classification:								
Landform:	Dip				cal Relief: CL					Sample Poin	t: w-156n47w1-b1				
Slope (%):	0 - 2%		Latitude: 48.		Longitude:			Datum							
	•	nditions on the si			Ar? (If no, exp	1		☑ Yes		Section:					
Are Vegetation		□, or Hydrology □, or Hydrology	•			Are	e normal circun ☑ Yes	nstances pr □ No	esent?	Township:	Dir:				
SUMMARY C			paturally p	Toblematic ?			™ res			Range:	DII.				
Hydrophytic			Yes					Hvdric Soi	Is Present?	Yes					
Wetland Hyd	•		Yes		-					t Within A W	/etland? Yes				
Remarks:	The wetland	d is shallow marsh	n dominated l	by narrow-leaf	cattail, qu	lack gras	s and reed car	ary grass.							
HYDROLOG	Y														
Wetland Hy	drology Ind	icators (Check al	II that apply; I	Minimum of or	e primary	or two se	econdary requi	red):							
Primary:	<u>.</u>	,						,	Secondary:						
য হ	A1 - Surface V A2 - High Wa				B11 - Salt (B13 - Aqua					B6 - Surface	Soil Cracks Vegetated Concave Surface				
	A3 - Saturatio				C1 - Hydro					B10 - Drainag					
	B1 - Water Ma				C2 - Dry Se	eason Wa	ter Table				Rhizospheres on Living Roots (tilled)				
	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not til		C8 - Crayfish	Burrows on Visible on Aerial Imagery				
	B4 - Algal Ma				C7 - Thin N					D2 - Geomor	U ,				
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Ne					
	B7 - Inundatio B9 - Water-St	on Visible on Aerial Ir tained Leaves	nagery							D7 - Frost-He	eaved Hummocks (LRR F)				
Field Observ	vations:														
Surface Wate	er Present?	Yes 🗵	Dep	oth: 2	(in.)			Wotland H		Procont?	Y				
Water Table		Yes 🗹	Dep		(in.)			Welland	lydrology F	lesent:	<u> </u>				
Saturation Pr	resent?	Yes 🛛	Dep	oth: 0	Saturation Present? Yes 🛛 Depth: 0 (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:															
			-												
Remarks:		stream gauge, mor d sample point is s	-					ICE.							
Remarks: SOILS	The wetland	d sample point is a	saturated and	d has standing	water two	inches a	above the surfa								
Remarks: SOILS Profile Descri	The wetland	d sample point is a	saturated and	d has standing	water two	o inches a	above the surfa	dicators.)							
Remarks: SOILS Profile Descri	The wetland	d sample point is a	saturated and	d has standing	water two	o inches a	above the surfa	dicators.)							
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	d sample point is s be to the depth ne etion, RM=Reduced M Matrix	saturated and eeded to doc Matrix, CS=Cove	d has standing cument the indi	water two	o inches a onfirm the tion: PL=Po Mottle	above the surfa e absence of in ore Lining, M=Matr	idicators.)							
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetland	d sample point is a be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	saturated and eeded to doc Matrix, CS=Cove	d has standing cument the indiversed/Coated Sand	water two icator or co Grains; Locat	o inches a onfirm the tion: PL=Po	above the surfa e absence of in ore Lining, M=Matr	dicators.)	Texture		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	The wetland ption (Descrintration, D=Deple Hue_10YR	d sample point is s be to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc Matrix, CS=Cove	d has standing cument the indi red/Coated Sand	water two icator or co Grains; Locat	o inches a onfirm the tion: PL=Po Mottle	above the surfa e absence of in ore Lining, M=Matr	idicators.)	SCL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20	The wetland ption (Descrintration, D=Deple Hue_10YR Hue_2.5Y	be to the depth network of the	saturated and eeded to doc Matrix, CS=Cove % 10 10	d has standing cument the indi red/Coated Sand	water two icator or co Grains; Locat Moist)	o inches a onfirm the tion: PL=Po Mottle	above the surfa e absence of in ore Lining, M=Matr es Type	Location	SCL SCL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	The wetland ption (Descrintration, D=Deple Hue_10YR	d sample point is s be to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc Matrix, CS=Cove	d has standing cument the indi red/Coated Sand 6 Color (00 5 Gley1	Moist)	o inches a onfirm the tion: PL=Po Mottle %	above the surfa e absence of in pre Lining, M=Matr es Type D	Location	SCL SCL SCL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20	The wetland ption (Descrintration, D=Deple Hue_10YR Hue_2.5Y	be to the depth network of the	saturated and eeded to doc Matrix, CS=Cove % 10 10	d has standing cument the indi red/Coated Sand	Moist)	o inches a onfirm the tion: PL=Po Mottle	above the surfa e absence of in ore Lining, M=Matr es Type	Location	SCL SCL		Remarks				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-28	The wetland ption (Descrintration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 6/2	eeded to doc Matrix, CS=Cove	d has standing cument the indiversed/Coated Sand 6 Color (00 5 Gley1 Hue_2.5Y	Moist)	o inches a onfirm the tion: PL=Pa Mottle % 11 4	above the surfa e absence of in ore Lining, M=Matr es Type D C	Location	SCL SCL SCL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-28	The wetland ption (Descrintration, D=Deple Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 6/2	eeded to doc Matrix, CS=Cove	d has standing cument the indi red/Coated Sand 6 Color (00 5 Gley1	Moist)	o inches a onfirm the tion: PL=Pa Mottle % 11 4	above the surfa e absence of in pre Lining, M=Matr es Type D	Location	SCL SCL SCL SCL	or Problemat					
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-28 NRCS Hydr	The wetland ption (Descrintration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 6/2	eeded to doc Matrix, CS=Cove	d has standing cument the indiversed/Coated Sand 6 Color (00 5 Gley1 Hue_2.5Y	Moist)	o inches a onfirm the tion: PL=Pa Mottle % 11 4	above the surfa e absence of in ore Lining, M=Matr es Type D C	Location	SCL SCL SCL SCL	or Problemat	ic Soils ¹				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-28	The wetland ption (Descrint intration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 6/2 Indicators (classical ipedon	eeded to doc Matrix, CS=Cove	d has standing cument the indi- red/Coated Sand Color (0 0 5 Gley1 Hue_2.5Y indicators are indicators	Moist) 5/5G1 6/6 not present	o inches a confirm the tion: PL=Po Mottle % 11 4	above the surfa e absence of in ore Lining, M=Matr es Type D C	Location M M	SCL SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox	<u>ic Soils¹</u> (LRR F, G, H)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-28 NRCS Hydr	The wetland ption (Descrintration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histic	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 6/2 Indicators (classic	eeded to doc Matrix, CS=Cove	d has standing cument the indiversed/Coated Sand 6 Color (00 5 Gley1 Hue_2.5Y 1 Hue_2.5Y 1 S5 - Sandy R 1 S5 - Sandy R 2 S6 - Stripped 1 F1 - Loamy N	Moist) 5/5G1 6/6 not present	o inches a onfirm the tion: PL=Po Mottle % 11 4 it):	above the surfa e absence of in ore Lining, M=Matr es Type D C	Location M M	SCL SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su	uck (LRR I, J) Prairie Redox urface (LRR G	<mark>ic Soils¹</mark> (LRR F, G, H))				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-28 NRCS Hydr	The wetland ption (Descri htration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth metion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 6/2 Indicators (c	eeded to doc Matrix, CS=Cove	d has standing cument the indi- red/Coated Sand Color (Color	Moist) Moist) 5/5G1 6/6 not present Redox Matrix Mucky Minera Gleyed Matrix	o inches a onfirm the tion: PL=Po Mottle % 11 4 it):	above the surfa e absence of in ore Lining, M=Matr es Type D C	Location M M	SCL SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P	uck (LRR I, J) Prairie Redox urface (LRR G Pains Depress	<u>ic Soils¹</u> (LRR F, G, H)				
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n47w1-b1			
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>	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)			
7.								
8.				Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:			
10.					OBL spp. <u>65</u> X 1 = <u>65</u>			
	Total Cover =	0	_		FACW spp. 25 x 2 = 50			
			FAC spp. 0 \times 3 = 0					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. <u>60</u> X 4 = <u>240</u>			
1.					UPL spp. 0 $x 5 = 0$			
2.								
3.					Total <u>150</u> (A) <u>355</u> (B)			
4.								
5.					Prevalence Index = B/A = 2.367			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Typha angustifolia	65	Y	OBL				
2.	Elymus repens	60	Y	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Phalaris arundinacea	20	Ν	FACW	present, unless disturbed or problematic.			
4.	Agrostis gigantea	5	N	FACW	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.			
12.								
13.								
14.	р				Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	150						
	Total Cover =	150	_					
Mandy Mine Of	ratum (Plat aiza: 20 ft radius)							
	ratum (Plot size: 30 ft. radius)							
1. 0								
2.					Hydrophytic Verstetion Present?			
3.					Hydrophytic Vegetation Present? Y			
5.								
4.	Tatal Oans	0						
Domortica	Total Cover =	0	oottoll					
Remarks:	The wetland sample point is dominated by na	arrow-leaf (cattall, qua	аск grass,	and reed canary grass.			
Additional F	Remarks:							
1								