WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R									Date:	08/14/14
Applicant:		Enbridge MRK/BEH				Cularania	/N/II D A	or I DD\;	MIDAGO		County:	Marshall
Investigators Soil Unit:	143A	Subregion (MLRA or LRR): NWI Classification					MLRA 56		State:	MN		
Landform:	Depression				Lo	cal Relief:		Classification	•		Sample Point	w-156n46w20-a1
Slope (%):	0 - 2%		Latitude: 48	32425				4365000	Datum:		Sample Follit.	W-1301140W20-a1
		nditions on the sit								□ No	Section:	
Are Vegetation		☑, or Hydrology				(3, 3, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	ī	normal circur			Township:	
Are Vegetation	•	□, or Hydrology	•	•					□ No		Range:	Dir:
SUMMĂRY C			<i>y</i> 1								Ü	
Hydrophytic '	Vegetation P	resent?	Yes	S					Hydric Soil	Is Present?	Yes	
Wetland Hyd	drology Prese	nt?	Yes	S					Is This Sar	mpling Poin	t Within A We	etland? Yes
Remarks:	The wetland	d is a seasonally-f	looded basii	n locat	ted adjac	ent to a cu	ıltivated s	soybean field.				
HYDROLOG	Υ											
Wetland Hy	drology Ind	icators (Check all	I that apply:	Minim	um of on	e primary	or two se	econdary requi	red):			
Primary		(0110011 011	,,			о р у				Secondary:		
	A1 - Surface					B11 - Salt (V	B6 - Surface S	
	<u> </u>					B13 - Aqua		- Od-"				Vegetated Concave Surface
	A3 - Saturation B1 - Water M					C1 - Hydro C2 - Dry Se					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled
	B2 - Sedimen							spheres on Living	Roots (not till	• -	C8 - Crayfish E	
	B3 - Drift Dep	•				C4 - Prese	nce of Red	duced Iron	`		C9 - Saturation	n Visible on Aerial Imagery
✓ —	B4 - Algal Ma					C7 - Thin N		ace			D2 - Geomorpl	
	B5 - Iron Dep	osits on Visible on Aerial Im	madery			Other (Exp	laın)				D5 - FAC-Neut	tral Test aved Hummocks (LRR F)
		tained Leaves	nagery								D1 - 1 1051-116a	ived Hullimocks (LIXIX I)
Field Obser	vations:											
Surface Wat	ter Present?	Yes 🗆	Dei	pth:		(in.)						
Water Table		Yes □		pth:		. (in.)			Wetland H	lydrology l	Present?	Y
Saturation P	resent?	Yes □	Dej	pth:		(in.)						
Describe Rec	orded Data (s	stream dalide mon	itoring well a	aerial n	hotoe pr	vious insp	\					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:	Algal mat o		mornig wen, e	acriai p	niotos, pre	evious irisp	ections),	if available:				
Remarks:	Algal mat o		morning won, a	acriai p	notos, pre	evious irisp	ections),	if available:				
	Algal mat o		moning wen, e	acriai p	лоюя, рге	evious irisp	pections),	if available:				
SOILS			-	·	·	·	·		ndicators.)			
SOILS Profile Descri	ription (Descr	bserved.	eeded to doo	cumen	at the indi	cator or co	onfirm the	e absence of ir				
SOILS Profile Descri	ription (Descr	bserved. be to the depth neetion, RM=Reduced M	eeded to doo	cumen	at the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mat		1		
SOILS Profile Descri (Type: C=Concer	ription (Descr	bserved. be to the depth neetion, RM=Reduced M Matrix	eeded to doo Matrix, CS=Cove	cumen ered/Coa	at the indicated Sand (cator or co	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mat	rix)			
SOILS Profile Descri (Type: C=Concer	iption (Descr entration, D=Depl	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist)	eeded to doo Matrix, CS=Cove	cumen ered/Coa	at the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mat		Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	ription (Descr entration, D=Depl	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist)	eeded to doo fatrix, CS=Cove	cumen ered/Coa	at the indicated Sand (cator or co	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mat	rix)	L		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15	Hue_10YR Hue_2.5Y	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3	eeded to doo	cumen ered/Coa	it the indicated Sand (cator or co Grains; Locat Moist)	onfirm the	e absence of ir ore Lining, M=Mat es Type	Location	L FS		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	ription (Descr entration, D=Depl	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3	eeded to doo	cumen ered/Coa	at the indicated Sand (cator or co Grains; Locat Moist)	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mat	rix)	L		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15	Hue_10YR Hue_2.5Y	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3	eeded to doo	cumen ered/Coa	it the indicated Sand (cator or co Grains; Locat Moist)	onfirm the	e absence of ir ore Lining, M=Mat es Type	Location	L FS		Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22	Hue_10YR Hue_10YR Hue_10YR	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3 7/2	eeded to doo fatrix, CS=Cove	cumen ered/Coa % 00 00 75 Hu	t the indicated Sand Color (I	Cator or co Grains; Locat Moist)	Mottle	e absence of ir ore Lining, M=Mat es Type C	Location	L FS		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22	Hue_10YR Hue_2.5Y	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3 7/2	eeded to doo	cumen ered/Coa % 00 00 75 Hu	t the indicated Sand Color (I	Cator or co Grains; Locat Moist)	Mottle	e absence of ir ore Lining, M=Mat es Type	Location	L FS FS		
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol	Matrix Color (Moist) 2/1 4/3 7/2 Indicators (ch	eeded to doo fatrix, CS=Cove	cumentered/Coates	Color (I	cator or co Grains; Local Moist) 6/8 not presented	Mottle	e absence of ir ore Lining, M=Mat es Type C	Location	FS FS Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils ¹
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3 7/2 Indicators (chain)	eeded to doo fatrix, CS=Cove	cumentered/Coatest Coatest Coa	Color (I	cator or co Grains; Local Moist) 6/8 not present	Mottle %	e absence of ir ore Lining, M=Mat es Type C	Location	FS FS Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (Soils ¹
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist) 2/1 4/3 7/2 Indicators (characters)	eeded to doo fatrix, CS=Cove	cumentered/Coatest Coatest Coa	Color (I Le_10YR tors are r - Sandy R - Stripped - Loamy M	cator or co Grains; Local Moist) 6/8 not present	Mottle Mottle 25 t):	e absence of ir ore Lining, M=Mat es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ (LRR F, G, H)
Depth (In.) 0-6 6-15 15-22	Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	Matrix Color (Moist) 2/1 4/3 7/2 Indicators (characters)	eeded to doo fatrix, CS=Cove	cumentered/Coatest Coatest Coa	Color (I Le_10YR tors are r - Sandy R - Stripped - Loamy M	Cator or co Grains; Local Moist) 6/8 not present edox Matrix flucky Minera	Mottle Mottle 25 t):	e absence of ir ore Lining, M=Mat es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic	Soils ¹
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	bserved. be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3 7/2 Indicators (chain chain cha	eeded to doo fatrix, CS=Cove 9 10 10 7 heck here if	cumentered/Coatered/C	Color (I Le_10YR tors are r - Sandy R - Stripped - Loamy N - Loamy C - Depleted - Redox D	Cator or co Grains; Local Moist) 6/8 not present edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface	Mottle % 25 t):	e absence of ir ore Lining, M=Mat es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	Matrix Color (Moist) 2/1 4/3 7/2 Indicators (chaine) Indicators (chaine) Layers (LRR F) ck (LRR FGH) de Below Dark Surface	eeded to doo fatrix, CS=Cove 9 10 10 7 heck here if	cumentered/Coates	Color (I Le_10YR tors are r - Sandy R - Stripped - Loamy N - Loamy C - Depleted - Redox D - Depleted	Cator or co Grains; Local Moist) 6/8 6/8 not present edox Matrix fleyed Matrix I Matrix ark Surface	Mottle % 25 t):	e absence of ir ore Lining, M=Mat es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressiced Vertic arent Material Shallow Dark S	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Depth (In.) 0-6 6-15 15-22	Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	Matrix Color (Moist) 2/1 4/3 7/2 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface eark Surface	eeded to doo fatrix, CS=Cove 9 10 10 7 heck here if	cumentered/Coates	Color (I Color (I Le_10YR tors are r Sandy R Stripped Loamy N Loamy O Depleted Redox D Depleted Redox D	Cator or co Grains; Local Moist) 6/8 not present edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	Mottle % 25 t):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	Matrix Color (Moist) 2/1 4/3 7/2 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	eeded to doo fatrix, CS=Cove 9 10 10 7 heck here if	cumentered/Coates	Color (I Color (I Le_10YR tors are r Sandy R Stripped Loamy N Loamy O Depleted Redox D Depleted Redox D	Cator or co Grains; Local Moist) 6/8 not present edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	Mottle % 25 t):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic rarent Material Shallow Dark S rain in Remarks)	ESoils ¹ ELRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type: The soil is o	Matrix Color (Moist) 2/1 4/3 7/2 Indicators (chair) Indicators	eeded to doo datrix, CS=Cove 10 10 10 10 10 10 10 10 10 10 10 10 10	cumentered/Coatered/C	Color (I Color (I Le_10YR tors are r - Sandy R - Stripped - Loamy N - Loamy N - Depleted - Redox D - Depleted - Redox D 6 - High Pla	Cator or congrains; Local Moist) 6/8 not present edox Matrix Mucky Minera Bleyed Matrix ark Surface I Dark Surface pressions ains Depres	Mottle % 25 t): al x ace ssions (MLI	e absence of irore Lining, M=Mates Type C RA 72, 73 of LRE Hydric So m layer appea	Location M Pil Present? Ts to be a ca	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Ain in Remarks) Sydrophytic vegetated or problematic.	Soils ¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface ion and wetland hydrology must be present
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-15 15-22 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type: The soil is concentration	Matrix Color (Moist) 2/1 4/3 7/2 Indicators (chair) Indicators	eeded to doo datrix, CS=Cove 9 10 10 10 10 10 RR G, H) RR F) in by two laysturbed from	cumentered/Coate %	Color (I Le_10YR tors are r - Sandy R - Stripped - Loamy M - Loamy G - Depleted - Redox D - Ighter fire ous tilling	Cator or constraints; Local Moist) 6/8 not present edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface Dark Surface pressions ains Depresent ne sand. To and plant	Mottle Mottle 25 t): al x ace ssions (MLI The bottor ting that of	e absence of irore Lining, M=Materials Type C RA 72, 73 of LRI Hydric Some layer appears Doccurs in drier	Location M Pil Present? rs to be a cayears. Althorogeness.	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Ain in Remarks) Sydrophytic vegetated or problematic.	Soils ¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Curface ion and wetland hydrology must be present

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w20-a1
					•
VEGETATION	N (Species identified in all uppercase are	non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(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: Multiply by:
10.					OBL spp. 125 × 1 - 125
10.	Total Cover =	0			FACW spp. $\frac{123}{123}$ \times $\frac{1}{123}$ \times
		<u> </u>	_		FAC enp. 0 × 3 = 0
Conling/Chrub (Strotum (Plot pize: 15 ft radius)				OBL spp. 125
	Stratum (Plot size: 15 ft. radius)				LIDL app
1.					OPL spp.
2.					Total 105 (A) 145 (D)
3.					Total 135 (A) 145 (B)
4.					Drawali wa Lata - D/A - A 074
5.					Prevalence Index = B/A = 1.074
6.	_				
7.					
8.					Hydrophytic Vegetation Indicators:
9.					X Rapid Test for Hydrophytic Vegetation
10.					X 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.	Beckmannia syzigachne	50	Υ	OBL	
2.	Gratiola neglecta	45	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Typha angustifolia	30	· Y	OBL	present, unless disturbed or problematic.
4.	Echinochloa muricata	10	<u>.</u> N	FACW	Definitions of Vegetation Strata:
5.	Zonincernea maneata	10		171011	Dominione of Vogotation Otrata.
6					Troe - Weeds plants 2 in (7 Care) as reason in diameter at breast
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
					noight (2217), regardiose of noight
8.					Continue (Charte Woody plants loss than 3 in DRH regardless of height
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 = _	135			
			_ _		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.					
' '-	Total Cover =	0			
Remarks:	The wetland sample point is dominated by slo		e clammy	hedge-hy	seon and cattail spedlings
iveillaiks.	The welland sample point is dominated by Sic	Jugii grasi	s, ciaitiitiy	neuge-ny	soop and callali seculings.
Additional R	Remarks:				