WETLAND DETERMINATION DATA FORM Great Plains Region

D : : : : : : (O:t)		Lop							I D. C.	00/00/44				
Project/Site:		L3R Enhance							Date:	09/29/14 Dennington				
Applicant:		Enbridge MRK/OTG			Subragion (MI)	A or I DD\	MLRA 56		County: State:	Pennington MN				
Investigators Soil Unit:	I59A	IVIKNOTO			Subregion (MLF ₋	VI Classification			J State.	IVIIN				
Landform:	Talf			Sample Point	u-152n43w10-a1									
Slope (%):	0 - 2%	l ati	itude: 47.99		cal Relief: LL Longitude: -96.1	12688333	Datum:	•		<u>u 1021140W10 u1</u>				
. , ,		nditions on the site typ					✓ Yes	No	Section:					
Are Vegetation			ignificantly		Ī	re normal circur			Township:					
Are Vegetation			aturally prob			✓ Yes	□ No		Range:	Dir:				
SUMMARY C		, ,							,g					
Hydrophytic \			No				Hydric Soi	Is Present?	? No					
Wetland Hyd	_		No		-				nt Within A W	etland? No				
Remarks:		ple point located in a	cultivated s	soybean field	d.			1 5						
	•			•										
HYDROLOG	Υ													
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):														
Primary: Secondary:														
<u> </u>	<u>·</u>	Water			B11 - Salt Crust				<u>-</u> B6 - Surface S	Soil Cracks				
	A2 - High Wa	ter Table			B13 - Aquatic Fau	na			B8 - Sparsely	Vegetated Concave Surface				
	A3 - Saturation				C1 - Hydrogen Su				B10 - Drainag					
	B1 - Water M B2 - Sedimen				C2 - Dry Season V	/ater Table ospheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled				
	B3 - Drift Dep	•			C4 - Presence of I		Roots (not till	"	-	n Visible on Aerial Imagery				
	B4 - Algal Ma				C7 - Thin Muck Su				D2 - Geomorp					
	B5 - Iron Dep	osits			Other (Explain)				D5 - FAC-Neu					
		on Visible on Aerial Image	ry						D7 - Frost-Hea	aved Hummocks (LRR F)				
	B9 - Water-St	tained Leaves												
First 1 Ot and	- 4 *													
Field Observ					(1)									
Surface Wate		Yes	Depth:		(in.)		Wetland F	Hydrology	Present?	N				
Water Table		Yes	Depth:		(in.)			,						
Saturation Pr	resent?	Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:														
Describe Reco	orded Data (s	stream gauge, monitorir	ng well, aeri	al photos, pr	<u> </u>), if available:								
Describe Reco	<u>`</u>	stream gauge, monitorir or secondary hydrolog			evious inspections), if available:								
	<u>`</u>				evious inspections), if available:								
Remarks:	No primary	or secondary hydrolog	gical indicat	tors observe	evious inspections	,								
Remarks: SOILS Profile Descri	No primary	or secondary hydrolog	gical indicated to document	tors observe	evious inspections d. cator or confirm	he absence of ir								
Remarks: SOILS Profile Descri	No primary	or secondary hydrolog	gical indicated to document	tors observe	evious inspections d. cator or confirm	he absence of ir								
Remarks: SOILS Profile Descri	No primary	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix,	gical indicated to document	tors observe	evious inspections ed. cator or confirm Grains; Location: PL:	he absence of ir Pore Lining, M=Mati								
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix	ed to docum	tors observe	evious inspections ed. cator or confirm Grains; Location: PL	he absence of in Pore Lining, M=Mati	rix)	Toyturo		Pomarke				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descriptration, D=Depl	or secondary hydrologo be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist)	ed to docum CS=Covered	tors observe	evious inspections ed. cator or confirm Grains; Location: PL	he absence of ir Pore Lining, M=Mati		Texture		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary Iption (Descriptration, D=Depl	or secondary hydrologous be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1	ed to docum CS=Covered % 100	tors observe	evious inspections ed. cator or confirm Grains; Location: PL	he absence of in Pore Lining, M=Mati	rix)	SCL	gravel mixed in	Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descriptration, D=Depl	or secondary hydrologo be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist)	ed to docum CS=Covered	tors observe	evious inspections ed. cator or confirm Grains; Location: PL	he absence of in Pore Lining, M=Mati	rix)		gravel mixed in gravel mixed in	Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary Iption (Descriptration, D=Depl	or secondary hydrologous be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1	ed to docum CS=Covered % 100	tors observe	evious inspections ed. cator or confirm Grains; Location: PL	he absence of in Pore Lining, M=Mati	rix)	SCL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary Iption (Descriptration, D=Depl	or secondary hydrologous be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1	ed to docum CS=Covered % 100	tors observe	evious inspections ed. cator or confirm Grains; Location: PL	he absence of in Pore Lining, M=Mati	rix)	SCL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary Iption (Descriptration, D=Depl	or secondary hydrologous be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1	ed to docum CS=Covered % 100	tors observe	evious inspections ed. cator or confirm Grains; Location: PL	he absence of in Pore Lining, M=Mati	rix)	SCL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20	No primary ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2	ed to docum CS=Covered	nent the indi /Coated Sand (cator or confirm Grains; Location: PL: Mo Moist) %	he absence of in Pore Lining, M=Mate tles Type	rix)	SCL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20	No primary Iption (Descriptration, D=Depl	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2	ed to docum CS=Covered	nent the indi /Coated Sand (evious inspections ed. cator or confirm Grains; Location: PL	he absence of in Pore Lining, M=Mati	rix)	SCL	gravel mixed in					
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20	No primary Iption (Descriptration, D=Depl Hue_10YR Hue_2.5Y	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2	ed to docum CS=Covered 100 100	nent the indi /Coated Sand (evious inspections ed. cator or confirm Grains; Location: PL: Mo Moist) not present):	he absence of in Pore Lining, M=Mate tles Type	Location	SCL SC	gravel mixed in					
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	No primary Iption (Descriptration, D=Depl Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check	ed to docum CS=Covered 100 100	nent the indi /Coated Sand (Color (Color (icators are r	cator or confirm Grains; Location: PL: Mo Moist) not present):	he absence of in Pore Lining, M=Mate tles Type	Location	SCL SC Indicators A9 - 1 cm N	gravel mixed in for Problemation	c Soils ¹				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	No primary ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check	ed to docum CS=Covered 100 100	content the individual coated Sand Coated Sand Color (Coated Sand Co	evious inspections ed. cator or confirm Grains; Location: PL: Mo Moist) not present): edox Matrix	he absence of in Pore Lining, M=Mate tles Type	Location	Indicators A9 - 1 cm N A16 - Coas	gravel mixed in for Problemation Muck (LRR I, J) t Prairie Redox	c Soils ¹				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check	chere if ind	cons observed ment the indicated Sand of Color (Color (icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or confirm Grains; Location: PL: Mo Moist) not present): edox Matrix Mucky Mineral	he absence of in Pore Lining, M=Mate tles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G)	c Soils ¹ (LRR F, G, H)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check	c here if ind	content the individual coated Sand Coated Sand Color (Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy Coated Sand Color (Coated Sand Color (Coated Sand Color (Coated Sand Coated Sand Coate	cator or confirm Grains; Location: PL: Mo Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix	he absence of in Pore Lining, M=Mate tles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High	gravel mixed in for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depression	c Soils ¹				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check ipedon etic in Sulfide Layers (LRR F)	chere if ind	cons observed ment the indicated Sand of Color (Color (icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or confirm Grains; Location: PL= Mo Moist) Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix Matrix	he absence of in Pore Lining, M=Mate tles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High	gravel mixed in for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depression	c Soils ¹ (LRR F, G, H)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Compared to the state of	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface	chere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	cator or confirm Grains; Location: PL: Mo Moist) Most) Mot present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface I Dark Surface	he absence of in Pore Lining, M=Mate tles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very	gravel mixed in for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface eark Surface	chere if ind	cons observed ment the indi /Coated Sand of Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: PL: Mo Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix Park Surface Poressions	he absence of in Pore Lining, M=Mate tles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very	gravel mixed in for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depression ced Vertic Parent Material	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist 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	or secondary hydrologous be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check sipedon stic in Sulfide in Layers (LRR F) ck (LRR FGH) in Below Dark Surface etark Surface ucky Mineral flucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	gical indicated to docume CS=Covered %	cons observed ment the indi /Coated Sand of Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: PL: Mo Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix Park Surface Poressions	he absence of in Pore Lining, M=Mate tles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	gravel mixed in for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	or secondary hydrologous be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/2 Indicators (check sipedon stic in Sulfide in Layers (LRR F) ck (LRR FGH) in Below Dark Surface etark Surface ucky Mineral flucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	gical indicated to docume CS=Covered %	cons observed ment the indi /Coated Sand of Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: PL: Mo Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix Park Surface Poressions	he absence of in Pore Lining, M=Mate tles Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	gravel mixed in for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface				
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w	10-a1				
_					•					
VEGETATIO		re non-native	species.)							
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.	<u>Species ivaline</u>	<u> 70 00001</u>	<u> Dominaria</u>	<u>ma.otatao</u>						
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)	.)				
3.						,				
4.					Total Number of Dominant Species Across All Strata:(B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A	4/B)				
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp. 0					
	Total Cover =	· <u> </u>			FACW spp. 0					
0 - 1 - (0 - 1)	0(1) (D) (D) (1) (1) (1) (1) (1) (1) (1)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
1. 2.					$\frac{1}{2}$ OPL spp. $\frac{60}{2}$ X $3 = \frac{300}{2}$					
3.					Total 60 (A) 300 (B)					
4.					(B)					
5.					Prevalence Index = B/A = 5.000					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
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 (Explain) *	*				
1.	Glycine max	60	Υ	NI						
2.					* Indicators of hydric soil and wetland hydrology must	be				
3.					present, unless disturbed or problematic.					
4.					Definitions of Vegetation Strata:					
5.										
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at b	reast				
7.					height (DBH), regardless of height.					
8.						2.14				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of he	ignt.				
10.					4					
11.					Herb - All herbaceous (non-woody) plants, regardless of size	70				
12.					Herb - All Herbaceous (Horr-woody) plants, regardless of Siz	26.				
13. 14.					\dashv					
15.					Woody Vines - All woody vines, regardless of height.					
15.	Total Cover =	60			- vvoody vines - / iii voody vines, regardless of height.					
	Total Cover =	00	_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.	Tatum (Flot Size. 30 ft. faulus)									
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.										
	Total Cover =	0								
Remarks:	Upland sample point is dominated by cultiva		ıns.							
	•	-								
Additional R	Remarks:									
I										