WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/23/14
Applicant: Enbridge							County:	Marshall			
Investigators: BEH/NTT				Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit:	I53A			_			I Classification	:			
Landform:	Talf				cal Relief:					Sample Point	u-155n45w33-b1
Slope (%):	0 - 2%		tude: 48.20			-96.434		Datum:			
		nditions on the site typ			ar? (If no, ex		•		□ No	Section:	
Are Vegetation			•	disturbed?		Are	e normal circun	nstances pr	esent?	Township:	
Are Vegetation			iturally pro	blematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \	_		No		_				Is Present?		
Wetland Hyd			No						mpling Poir	nt Within A W	etland? No
Remarks:	The upland	sample point is locate	ed in a soyl	bean field, a	djacent to	a roadsi	de ditch wetlan	d.			
HYDROLOG	Υ										
Wetland Hv	drology Ind	icators (Check all that	t apply: Mi	nimum of or	e primary	or two s	econdarv requi	red):			
Primary:	•				, o py				Secondary:		
	A1 - Surface \	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water Marker Marker B2 - Sedimen				C2 - Dry S		ater Table spheres on Living	Roots (not till	L □	C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•					educed Iron	110013 (1101 1111		•	n Visible on Aerial Imagery
_	B4 - Algal Ma			_	C7 - Thin N				_	D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)			\checkmark	D5 - FAC-Neu	
		n Visible on Aerial Imager	ry							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
First 1 Ot and	- 4*										
Field Observ					<i>(</i> ,)						
Surface Water		Yes	Depth:		_ (in.)			Wetland F	- Hydrology	Present?	N
Water Table		Yes	Depth:		_ (in.)				.,		· · · ·
Saturation Pr	resent?	Yes	Depth:		_ (in.)						
Dagarila a Daga	l l D - l /-										
Describe Reco	orded Data (s	stream gauge, monitorin	ng well, aeri	ial photos, pr	evious insp	pections),	if available:				
Remarks:	<u> </u>				evious insp	pections),	if available:				
	<u> </u>	stream gauge, monitorin hydrological indicators			evious insp	oections),	if available:				
	<u> </u>				evious insp	oections),	if available:				
Remarks: SOILS Profile Descri	No primary	hydrological indicators be to the depth neede	s were obs	erved.	cator or co	onfirm th	e absence of ir				
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Remarks: SOILS Profile Descri	No primary	hydrological indicators be to the depth neede	s were obs	erved.	cator or co	onfirm th	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrological indicators be to the depth needer etion, RM=Reduced Matrix, Matrix	ed to docun	erved. nent the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Matr	rix)			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	hydrological indicators be to the depth needer etion, RM=Reduced Matrix, Matrix Color (Moist)	ed to docum CS=Covered	erved.	cator or co	onfirm th	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary iption (Descri	be to the depth needer etion, RM=Reduced Matrix Matrix Color (Moist) 2/1	ed to docum CS=Covered	erved. nent the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Matr	rix)	Texture CL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12	No primary iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth needer etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/3	were observed to document of the control of the con	erved. nent the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Matr	rix)	CL S		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-16	No primary iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth neederetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/3 7/3	% 100 100	nent the indi	cator or co	onfirm thation: PL=P	e absence of ir ore Lining, M=Matr	rix)	CL S	abundant gravel	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-16 NRCS Hydr	No primary iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neederetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/3 7/3 Indicators (check	% 100 100	nent the indi	cator or cograins; Loca Moist) not presentedox Matrix	onfirm the ation: PL=P	e absence of interest Lining, M=Matro	Location	CL S FS Indicators 1 A9 - 1 cm M A16 - Coast	for Problemation for Problemation fuck (LRR I, J) Frairie Redox	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-16 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neederetion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 6/3 7/3 Indicators (check	% 100 100	ment the indid/Coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy N	cator or congrains; Local Moist) not presentedox Matrix Mucky Miner	monfirm the stion: PL=P	e absence of interest Lining, M=Matro	Location	CL S FS Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-16 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	hydrological indicators be to the depth needer etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 6/3 7/3 Indicators (check ipedon etic in Sulfide	% 100 100 100 here if ind	nent the indidicators are in S5 - Sandy F S6 - Stripped F1 - Loamy F2 - Loamy F2 - Loamy F3 - Loamy F3 - Loamy F3 - Loamy F4 - Loamy	cator or configurations; Local Moist) Moist) not present the configuration of present decay and the configurations of the configuration of the configurati	monfirm the stion: PL=P	e absence of interest Lining, M=Matro	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemation for Problemation fuck (LRR I, J) Frairie Redox urface (LRR G) Plains Depression	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-16 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth neederetion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 6/3 7/3 Indicators (check ipedonetic in Sulfide Layers (LRR F)	% 100 100	ment the indid/Coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C F3 - Depleted	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix	monfirm the stion: PL=P Mottle % ation: PL=P	e absence of interest Lining, M=Matro	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation Muck (LRR I, J) The Prairie Redox Frairie (LRR G) Plains Depression Ced Vertic	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-16 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	hydrological indicators be to the depth needer etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 6/3 7/3 Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH)	% 100 100 100 here if ind	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox E	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix d Matrix bark Surface	monfirm the stion: PL=P Mottle % ation: The stion in th	e absence of interest Lining, M=Matro	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemation Muck (LRR I, J) The Prairie Redox Frairie Redox Urface (LRR G) Plains Depression Plains Depression Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-16 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	hydrological indicators be to the depth needer etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 6/3 7/3 Indicators (check ipedon stic	% 100 100 100 here if ind	ment the indid/Coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C F3 - Depleted	cator or configurations; Local Moist) Moist) not present dedox Matrix Mucky Miner Gleyed Matrix Mucky Miner di Matrix Dark Surface di Dark Surface	monfirm the Mottle % Intion: PL=P Mottle % Intion: PL=P	e absence of interest Lining, M=Matro	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) The Prairie Redox Frairie (LRR G) Plains Depression Ced Vertic	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-155n45w33-b1
VEGETATIO	N (Species identified in all uppercase a	are non-native species.)		
Tree Stratum ((Plot size: 30 ft. radius)			
	<u>Species Name</u>	% Cover 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 0
	Total Cover =	=		FACW spp. $\underline{}$ $\phantom{$
				OBL spp. 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)			FACU spp. $0 x 4 = 0$
1.				UPL spp. $\frac{45}{}$ $x = \frac{225}{}$
2.				
3.]		Total(A)(B)
4.				
5.				Prevalence Index = B/A = 3.929
6.]		
7.				
8.				Hydrophytic Vegetation Indicators:
9.		1		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	45 Y	NI	
2.	Leptochloa fusca	25 Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.				present, unless disturbed or problematic.
4.				Definitions of Vegetation Strata:
5.				1
6				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.				height (DBH), regardless of height.
8.				1
9.				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.				1
11.				1
12.				Herb - All herbaceous (non-woody) plants, regardless of size.
13.				1
14.				1
15.				Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	= 70		1
	Total Cover -	- 10		
Woody Vino St	ratum (Plot size: 30 ft. radius)			
1	Tatum (Flot Size. 30 ft. fadius)			
2.		1		
3.				Hydrophytic Vogotation Present?
5.	<u> </u>			Hydrophytic Vegetation Present? N
4.	<u> </u>			
4.	Total Cover =	= 0		
Pomorko:			propaloto	I appears to have been treated with herbicide
Remarks:	Sample site dominated by cultivated soybea	an and sprangletop. S	prangleto	p appears to have been treated with herbicide.
Additional R	Remarks:			