## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/24/14
Applicant:		Enbridge									County:	Marshall
Investigators	S:	BEH/NTT				Subregio	n (MLRA	A or LRR):	MLRA 56		State:	MN
Soil Unit:	I24A						NW	I Classification	:			
Landform:	Shoulder				Lo	cal Relief:	VL				Sample Point:	u-155n45w34-h1
Slope (%):	3 - 7%		Latitude: 48			Longitude:			Datum:			
Are climatic/	hydrologic co	nditions on the sit	te typical fo	or this	time of yea	ar? (If no, exp	plain in rema	arks)		□ No	Section:	
Are Vegetati	on 🗵 Soil	□, or Hydrology	⊏significa	antly c	disturbed?		Are	e normal circur	nstances pre	esent?	Township:	
Are Vegetati	on 🛭 Soil	□, or Hydrology	□aturally	prob	lematic?				□ No		Range:	Dir:
SUMMARY (	OF FINDINGS	S										
Hydrophytic	Vegetation P	resent?	No	0					Hydric Soil	ls Present?	No No	
Wetland Hyd	drology Prese	ent?	No	0					Is This Sar	mpling Poir	nt Within A W	etland? <b>No</b>
Remarks:		nple point in a whe	eat field, up	slope	e from a sea	asonally-flo	ooded ba	asin.				
	•			•								
HYDROLOG	Υ											
		! 1 (Ob b l	II the est seemed a	N /!								
_		icators (Check all	II that apply	; Min	imum of on	e primary	or two so	econdary requi	red):			
<u>Primary</u>	_	11/1-4				D44 C-14	O			Secondary:		tail Canada
☐ A1 - Surface Water						B11 - Salt ( B13 - Aqua					B6 - Surface S	Vegetated Concave Surface
	<ul><li>□ A2 - High Water Table</li><li>□ A3 - Saturation</li></ul>					C1 - Hydro					B10 - Drainage	
	B1 - Water M					C2 - Dry S						Rhizospheres on Living Roots (tilled
	B2 - Sedimen							spheres on Living	Roots (not tille	• -	C8 - Crayfish E	
	B3 - Drift Dep	osits				C4 - Prese		C9 - Saturation	n Visible on Aerial Imagery			
	B4 - Algal Ma					C7 - Thin N		ace			D2 - Geomorp	
	B5 - Iron Dep					Other (Exp	olain)				D5 - FAC-Neu	
		on Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - water-S	tained Leaves										
Field Obser												
Field Obser			_			<i>(</i> )						
Surface Wat		Yes □				(in.)			Wetland H	lvdrology	Present?	N
Water Table		Yes		epth: _		(in.)				.,		<u></u>
Saturation P	resent?	Yes	De	epth: _		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	stream gauge, mon	nitoring well,	aeria	al photos, pre	evious insp	ections),	I if available:				
	<u> </u>				•	<u>.</u>	ections),	if available:				
Describe Rec Remarks:	<u> </u>	stream gauge, mon or secondary hydr			•	<u>.</u>	ections),	if available:				
Remarks:	<u> </u>				•	<u>.</u>	ections),	if available:				
Remarks:	No primary	or secondary hydr	rological in	dicato	ors were ob	served.	,		ndicators.)			
Remarks:  SOILS Profile Descr	No primary		rological inc	dicato	ors were ob	served.	onfirm th	e absence of ir				
Remarks:  SOILS Profile Descr	No primary	or secondary hydr	rological inc	dicato	ors were ob	served.	onfirm th	e absence of ir				
Remarks:  SOILS Profile Descr	No primary	or secondary hydr	rological inc	dicato	ors were ob	served.	onfirm th	e absence of ir ore Lining, M=Mat				
Remarks:  SOILS Profile Descr (Type: C=Conce	No primary	or secondary hydronic ibe to the depth neterion, RM=Reduced M	rological inception of the control o	dicato	ent the indic	served.  cator or co	onfirm the	e absence of ir ore Lining, M=Mat		Texture		Remarks
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	No primary iption (Description, D=Depl	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	rological ince	ocum vered/0	ors were ob	served.  cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)		fine sand	Remarks
Remarks:  SOILS Profile Descr (Type: C=Conce	No primary	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	rological ince	ocum vered/	ent the indic	served.  cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)	Texture SC	fine sand	Remarks
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	No primary iption (Description, D=Depl	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	rological ince	ocum vered/0	ent the indic	served.  cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)		fine sand	Remarks
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	No primary iption (Description, D=Depl	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	rological ince	ocum vered/0	ent the indic	served.  cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)		fine sand	Remarks
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	No primary iption (Description, D=Depl	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	rological ince	ocum vered/0	ent the indic	served.  cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)		fine sand	Remarks
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	No primary iption (Description, D=Depl	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	rological ince	ocum vered/0	ent the indic	served.  cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)		fine sand	Remarks
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Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28	No primary iption (Description, D=Depl	or secondary hydrological ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1	rological independent of the control	ocum vered/0	ent the indic	cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)		fine sand	Remarks
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28	No primary iption (Descriptration, D=Depl	or secondary hydrological ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1	rological independent of the control	ocum vered/0	ent the indicoated Sand C	cator or co	onfirm the	e absence of interest in the core Lining, M=Materials  es  Type	rix)	SC	fine sand	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28  NRCS Hydr	No primary iption (Descriptration, D=Depl	or secondary hydrological ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1	rological independent of the control	ocumvered/0	ent the indicated Sand Coated Sand Color (I	served.  cator or cograins; Local  Moist)  not presen	onfirm the	e absence of interest in the core Lining, M=Materials  es  Type	Location	SC Indicators	for Problematic	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR	or secondary hydrone ibe to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1  Indicators (ch	rological independent of the control	ocum- vered/0	ent the indicoated Sand C	cator or co Grains; Local	onfirm the	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators 1 A9 - 1 cm M		c Soils <sup>1</sup>
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28  NRCS Hydr	iption (Description, D=Deplementation, D=Deplementation, D=Deplementation)  Hue_10YR  ric Soil Field  A1- Histosol	or secondary hydrone ibe to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1  Indicators (chappedon	rological independent of the control	% 100	ent the indicated Sand Coated Sandy Robbits Sand	cator or co Grains; Local Moist)  not presented a Matrix lucky Mineral	mottle was al	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast	for Problemation	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descr (Type: C=Concel  Depth (In.) 0-28  NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (chappedonestic in Sulfide	rological independent of the control	ocum- vered/0	ent the indicated Sand Coated Sand Rose Sandy	cator or co Grains; Local Moist)  Moist)  not presented watrix lucky Mineral	mottle was al	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators (A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High F	for Problemation  Muck (LRR I, J)  It Prairie Redox ( Burface (LRR G)  Plains Depression	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28  NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	or secondary hydrone ibe to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1  Indicators (chappedon stic icon Sulfide I Layers (LRR F)	rological independent of the control	% 100	ent the indicated Sand Coated	cator or co Grains; Local Moist)  Moist)  not presented ox Matrix lucky Mineralleyed Matrix Matrix	mottle  Mottle  // // // // // // // // // // // // /	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation  Muck (LRR I, J)  t Prairie Redox (curface (LRR G)  Plains Depression  ced Vertic	Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descr (Type: C=Concel  Depth (In.) 0-28  NRCS Hydr	iption (Descrintration, D=Depl  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (chapted on Stice in Sulfide in Layers (LRR F) ck (LRR FGH)	eeded to do fatrix, CS=Cov	ocum- vered/0	ent the indicated Sand Coated	cator or co Grains; Local Moist)  Moist)  ot presented with the content of the co	mottle which was all and a second conformation with the conformati	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemation  Muck (LRR I, J)  t Prairie Redox ( Burface (LRR G)  Plains Depression  Ced Vertic  Parent Material	E Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28  NRCS Hydr	iption (Descrintration, D=Depl  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (chapted on Stice on Sulfide on Sulfide on Sulfide on Stice on Sulfide on Sulfi	eeded to do fatrix, CS=Cov	% 100	ent the indicated Sand Coated	cator or co Grains; Local Moist)  Moist)  edox Matrix lucky Minera lleyed Matrix Matrix ark Surface	mottle which was all and a second conformation with the conformati	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	for Problemation  Muck (LRR I, J)  It Prairie Redox ( Surface (LRR G)  Plains Depression  Ced Vertic  Parent Material  To Shallow Dark S	E Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (chapted on Stice on Sulfide on Sul	eeded to do fatrix, CS=Cov	% 100	ent the indicated Sand Coated	cator or constraints; Local Moist)  Moist)  edox Matrix lucky Mineral Bleyed Matrix Matrix ark Surface Dark Surface	mottle  Mottle  Mottle  t):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	for Problemation  Muck (LRR I, J)  t Prairie Redox ( Burface (LRR G)  Plains Depression  Ced Vertic  Parent Material	E Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-28  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation)  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	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (characters)  ipedon stic in Sulfide in Sulfid	eeded to do datrix, CS=Cov heck here it	% 100	ent the indicated Sand Coated	cator or constraints; Local Moist)  Moist)  edox Matrix lucky Mineral Bleyed Matrix Matrix ark Surface Dark Surface	mottle  Mottle  Mottle  t):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain	for Problematic Muck (LRR I, J) t Prairie Redox ( curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	CSoils <sup>1</sup> CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks:  SOILS Profile Descr (Type: C=Concel  Depth (In.) 0-28  NRCS Hydr	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	or secondary hydrone ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (characters)  ipedon stic in Sulfide in Sulfid	eeded to do datrix, CS=Cov heck here it	% 100	ent the indicated Sand Coated	cator or constraints; Local Moist)  Moist)  edox Matrix lucky Mineral Bleyed Matrix Matrix ark Surface Dark Surface	mottle  Mottle  Mottle  t):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators of SC  A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemation  Muck (LRR I, J)  t Prairie Redox ( Furface (LRR G)  Plains Depression  Ced Vertic  Parent Material  of Shallow Dark Stain in Remarks)	E Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w34-h1				
VEGETATION (		are non-native	species.)						
Tree Stratum (	Plot size: 30 ft. radius)  Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u>gpeolee Hame</u>	70 0000.	<u> 20mmana</u>	<u>ma.o.a.ao</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: 0.0% (A/B)				
7.									
8.		_		Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:				
10.	_l Total Cover :	= 0			OBL spp. $\frac{15}{2}$ $\times 1 = \frac{15}{2}$				
	Total Cover	=	FACW spp. 0						
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACUSED 5 $\times 4 = 20$				
1.	Stratum (Flot 3126: To It. Tadius)				UPL spp. $\frac{3}{75}$ $\frac{1}{100}$ $\frac{1}{1$				
2.		-							
3.					Total 113 (A) 464 (B)				
4.					`` ` ´				
5.					Prevalence Index = B/A = 4.106				
6.									
7.		]							
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.	Tatal Cavar				Dominance Test is > 50%				
	Total Cover:	= 0	_		Prevalence Index is ≤ 3.0 *				
Hart Otas Care	District of Education				Morphological Adaptations (Explain) *				
Herb Stratum (I	Plot size: 5 ft. radius)  Triticum aestivum	75	Υ	NI	Problem Hydrophytic Vegetation (Explain) *				
2.		15	N	FAC	* Indicators of hydric soil and wetland hydrology must be				
3.	Plantago major  Beckmannia syzigachne	10	N	OBL	present, unless disturbed or problematic.				
4.	Rorippa palustris	5	N	OBL	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	5	N	FACU					
6	Panicum capillare	3	N	FAC	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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.		1			NATURE A NOTICE AND				
15.	Tatal Oassa	110			Woody Vines - All woody vines, regardless of height.				
	Total Cover:	= 113							
Manada Vina Ch	return (Diet einer 20 ft. redive)								
1	ratum (Plot size: 30 ft. radius)	1							
2.									
3.		1			Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cover :	= 0							
Remarks:	Sample site dominated by cultivated wheat	with scatter	ed weedy	plants.					
Additional R	emarks:								