## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14	
Applicant:		Enbridge								County:	Marshall	
Investigators	S:	NTT/BEH			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I70A		•		_	NW	I Classification	n:		1		
Landform:	Depression			 Lo	cal Relief	CC				Sample Point	w-154n45w2-b1	
Slope (%):	3 - 7%	L	Latitude: 48.	191623	Longitude	-96.406	6455	Datum	:	1		
Are climatic/l	hydrologic co	nditions on the site	typical for	his time of ye	ar? (If no, ex	plain in rema	arks)		□ No	Section:		
Are Vegetation	on 🛭 Soil	□, or Hydrology □	⊏significant	ly disturbed?		Are	e normal circur	mstances pr	esent?	Township:		
Are Vegetation		□, or Hydrology □	•	•			Yes	□ No		Range:	Dir:	
<b>SUMMARY C</b>			, , , , , , , , , , , , , , , , , , ,							ū		
Hydrophytic '	Vegetation P	resent?	Yes					Hydric Soi	ils Present?	Yes		
	drology Prese		Yes		_					t Within A W	etland? Yes	
Remarks:		d is a depression wit	thin a mesi	c forest domir	nated by g	uaking as	spen with vario					
		•			, ,	· ·	•	· ·		0 0	•	
HYDROLOG	Υ											
		inators (Charle all t	hot opply: I	Ainimum of or	o primary	or two o	ooondory rogui	irod\.				
Primary	•	icators (Check all t	nat apply; i	viinimum oi or	ie primary	or two se	econdary requi	irea):	Secondary			
	<u>′.</u> A1 - Surface \	Nater		П	B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqu		1				Vegetated Concave Surfa	ce
	A3 - Saturatio				C1 - Hydro					B10 - Drainag		
	B1 - Water M				C2 - Dry S						Rhizospheres on Living R	oots (tilled)
	B2 - Sedimen	•					spheres on Living	g Roots (not til	lle 🗆	C8 - Crayfish		
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese		educed Iron			D2 - Geomorp	n Visible on Aerial Imagery	/
	B5 - Iron Dep				Other (Exp		ace			D5 - FAC-Neu		
		n Visible on Aerial Ima	igery	٦	Other (EX	Jidii ij					aved Hummocks (LRR F)	
	B9 - Water-St		3								,	
Field Obser	vations:											
Surface Wat	er Present?	Yes □	Dep	th:	(in.)			\Matland I	Usalnalaas F	Dracent?	V	
Water Table	Present?	Yes □	Dep	th:	– (in.)			wetiand i	Hydrology F	Present?	Υ	
Saturation P	resent?	Yes	Dep	th·	(in.)						<del></del>	
		100 —			_ ('''')							
Describe Rec	orded Data (s		<u> </u>		_ ` ′	nections)	if available:					
	<u> </u>	tream gauge, monito	oring well, a	erial photos, pr	evious insp			ndecane nos	sition and ve	agetation		
Describe Rec Remarks:	<u> </u>		oring well, a	erial photos, pr	evious insp			ndscape pos	sition and ve	egetation.		
Remarks:	<u> </u>	tream gauge, monito	oring well, a	erial photos, pr	evious insp			ndscape pos	sition and ve	egetation.		
Remarks:	No primary	stream gauge, moniton hydrology indicators	oring well, a	erial photos, pr nt. Wetland h	revious insp ydrology is	s assume	ed based on lar		sition and ve	egetation.		
Remarks:  SOILS Profile Descri	No primary	tream gauge, monito	oring well, a	erial photos, pront. Wetland hou	revious insp ydrology is icator or c	s assume	ed based on lar e absence of in	ndicators.)	sition and ve	egetation.		
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Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators be to the depth nee	oring well, a	erial photos, pront. Wetland house	revious insp ydrology is icator or co Grains; Loca	onfirm the	ed based on lar e absence of in ore Lining, M=Mat	ndicators.)		egetation.	Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth nee etion, RM=Reduced Matrix Color (Moist)	oring well, as are prese	erial photos, pront. Wetland house the index ded/Coated Sand	revious insp ydrology is icator or co Grains; Loca	onfirm the	ed based on lar e absence of in ore Lining, M=Mat	ndicators.) trix)	Texture	egetation.	Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8	No primary iption (Descrintration, D=Depl	be to the depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1	eded to doc erix, CS=Cove	erial photos, pront. Wetland houment the indeed/Coated Sand	revious insp ydrology is icator or congrains; Loca (Moist)	onfirm the ation: PL=P	ed based on lar e absence of interpretation of the control of the	ndicators.) trix) Location	Texture SCL	egetation.	Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-12	No primary iption (Descrintration, D=Deplementation) Hue_10YR Hue_10YR	be to the depth nee etion, RM=Reduced Matrix Color (Moist)  2/1 3/1	eded to doc crix, CS=Cove	erial photos, pront. Wetland house the index ded/Coated Sand Color (Color (Colo	revious insp ydrology is icator or congrains; Loca (Moist)	onfirm the	ed based on lar e absence of in ore Lining, M=Mat	ndicators.) trix)	Texture SCL SL	egetation.	Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-12 12-20  NRCS Hydr	No primary  iption (Descrintration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol	be to the depth nee etion, RM=Reduced Matrix Color (Moist)  2/1 3/1 6/8  Indicators (che	eded to doc erix, CS=Cove	erial photos, pront. Wetland hyument the indeed/Coated Sand Color (0) Hue_10YR O ndicators are	revious inspections in a province of the contract of the contr	onfirm the Mottle %	ed based on lar e absence of interesting M=Material es  C	ndicators.) trix)  Location	Texture SCL SL FS  Indicators f A9 - 1 cm M	or Problemati	c Soils <sup>1</sup>	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-12  12-20  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Depl	be to the depth nee etion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  6/8  Indicators (che ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to doc erix, CS=Cove	crial photos, pront. Wetland hyment the indicated Sand  Color (  Hue_10YR  Hue_10YR  S5 - Sandy R  S6 - Stripped F1 - Loamy R  F2 - Loamy R  F3 - Deplete F6 - Redox R  F7 - Deplete	revious inspondents in a content of the content of	onfirm the ation: PL=P	ed based on lar e absence of interesting M=Material es  C	ndicators.) trix)  Location  M	Texture SCL SL FS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P TF12 - Very	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark	C 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** 

Press   Pres	Project/Site:	: L3R				Sample Point: w-154n45w2-b1
True Statution   Port size: 30 ft and indicated   15						
Species Name			are non-native	species.)		
1	Tree Stratum	(Plot size: 30 ft. radius)				
Number of Dominunt Species that are OBL FACIV, or FAC.   4		<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
Total Namber of Dominant Species Across All Strates   4	1.	Populus tremuloides	50	Υ	FAC	
Total Namber of Dominant Species Across All Strates   4	2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
A						
Percent of Dominant Spaces That Are OBL, FACW, or FAC.   100.0%   (A/B)						Total Number of Deminant Species Across All Strata: (B)
Prevalence Index Worksheet						Total Number of Borninant Species Across All Strata.
Prevalence Index Worksheet   Tatal & Cover of   Multiple by						
Section   Frequency   Freque						Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
9						
Total Cover   50	8.					Prevalence Index Worksheet
Total Cover   50	9.					Total % Cover of: Multiply by:
2.	10.		1			OBL spp. $10   X   1 = 10$
2.		 Total Cover :	= 50			FACW spp. ${40}$ $\times$ $2 = {80}$
2.				_		FAC spp. $50$ x 3 = $150$
2.	Sanling/Shrub	Stratum (Plot size: 15 ft_radius)				FACUspp
2.	4	Stratum (1 lot size. 15 it. radius)	1			IDI spp. 0 × 5 = 0
Total 100 (A) 240 (B)  A						- σε ε ερφ. σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ
A						T
Prevalence Index = BtA =						I otal 100 (A) 240 (B)
Hydrophytic Vegetation Indicators:   Rapid Test for Hydrophytic Vegetation						
### ### ##############################	5.					Prevalence Index = B/A = 2.400
Hydrophytic Vegetation Indicators:   Second Provided Pr	6.					
Hydrophytic Vegetation Indicators:   Second Provided Pr	7.		1			
Rapid Test for Hydrophytic Vegetation   X Dominance Test is > 50%   X Dominance Test	8.					Hydrophytic Vegetation Indicators:
Total Cover = 0						
Total Cover = 0						<del></del> ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Morphological Adaptations (Explain) *   Problem Hydrophytic Vegetation (Explain) *   Problem Hydrophytic Vege	10.	Total Cover -				<del></del>
Herb Stratum (Plot size: 5 ft. radius)		Total Covers	= 0	_		
1. Corex tenera  2. Corex sarrowilli  3. Corex points  10 Y FACW  3. Corex points  10 Y OBL  4. Agrostis gigarrica  5 N FACW  6 FOR points in (7,6cm) or more in diameter at breast height (DBH), regardless of height.  8. FACW  11. FACW  12. FACW  13. FACW  14. FACW  15. FACW  16. FACW  17. FACW  18. FACW  19. FACW  19. FACW  10. FACW  10. FACW  10. FACW  11. FACW  10. FACW  11. FACW  10. FACW  11. FACW  11. FACW  10. FACW  11. FACW  11. FACW  12. FACW  13. FACW  14. FACW  15. FACW  16. FACW  17. FACW  18. FACW  19. FACW  19. FACW  10. FACW  10. FACW  10. FACW  10. FACW  10. FACW  11. FACW  11. FACW  11. FACW  11. FACW  12. FACW  13. FACW  14. FACW  15. FACW  16. FACW  16. FACW  17. FACW  18. FACW  19. FACW  10. FACW						
2. Carex sartwelfii 15 Y FACW 3. Carex politic 10 Y OBL 4. Approxis gipartere 5 N FACW 5. Poa pullustris 5 N FACW 6   Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height.  8.   Sapling/Shrub - Woody plants less than 3 in, DBH, regardless of height.  10.   Sapling/Shrub - Woody plants less than 3 in, DBH, regardless of height.  11.   Herb - All herbaceous (non-woody) plants, regardless of height.  Woody Vines - All woody vines, regardless of height.  11.   Woody Vines - All woody vines, regardless of height.  12.   Woody Vines - All woody vines, regardless of height.  13.   Woody Vines - All woody vines, regardless of height.  14.   Woody Vines - All woody vines, regardless of height.  15.   Woody Vines - All woody vines, regardless of height.  16.   Woody Vines - All woody vines, regardless of height.  17.   Woody Vines - All woody vines, regardless of height.  18.   Woody Vines - All woody vines, regardless of height.  19.   Woody Vines - All woody vines, regardless of height.  10.   Woody Vines - All woody vines, regardless of height.  11.   Woody Vines - All woody vines, regardless of height.  12.   Woody Vines - All woody vines, regardless of height.  19.   Woody Vines - All woody vines, regardless of height.	Herb Stratum (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
3. Carex pellita 10 Y OBL 4. Agrosits grapenea 5 N FACW 5. Poa palustris 5 N FACW 6.   Tree - Woody plants 3 in. (7.5cm) or more in diameter at breast height (DBH), regardless of height.  8.   Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  10.   Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  11.   Herb - All herbaceous (non-woody) plants, regardless of size.  13.   Woody Vines - All woody vines, regardless of height.  Woody Vine Stratum (Plot size: 30 ft. radius)  1.   Woody Vine Stratum (Plot size: 30 ft. radius)  1.   Leg	1.	Carex tenera	15	Υ	FACW	
4. Agrostic gigantee 5 N FACW 5. Poa palusiris 5 N FACW 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.  8. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  Herb - All herbaceous (non-woody) plants, regardless of size.  Total Cover = 50  Woody Vine Stratum (Plot size: 30 ft. radius)  1. Sapling/Shrub - Woody vines, regardless of height.  Hydrophytic Vegetation Present? Y  Total Cover = 0  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.	2.	Carex sartwellii	15	Υ	<b>FACW</b>	* Indicators of hydric soil and wetland hydrology must be
4. Agrostis gigantee 5 N FACW 5. Poa palusiris 5 N FACW 6	3.	Carex pellita	10	Υ	OBL	present, unless disturbed or problematic.
5. Poe palustris 6   Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.  8.   Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  10.   Herb - All herbaceous (non-woody) plants, regardless of size.  13.   Herb - All herbaceous (non-woody) plants, regardless of size.  14.   Woody Vines - All woody vines, regardless of height.  Woody Vine Stratum (Plot size: 30 ft. radius)  1.   Woody Vine Stratum (Plot size: 30 ft. radius)  1.   Hydrophytic Vegetation Present? Y  5.   Hydrophytic Vegetation Present? Y  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.		Agrostis gigantea	5	N		Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height. (DBH), regardless of height.  8.						
7. height (DBH), regardless of height.  8. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  10. Herb - All herbaceous (non-woody) plants, regardless of size.  13. Herb - All herbaceous (non-woody) plants, regardless of size.  14. Woody Vines - All woody vines, regardless of height.  Woody Vines - All woody vines, regardless of height.  Hydrophytic Vegetation Present? Y  Formal Cover = 0  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.		r ou paraotrio			171011	Tree - West valents 2 in (7 Com) or many in dispressing at hypert
Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  10. 11. 12. 13. 14. 15.  Total Cover =50						
9.   Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.  10.   Herb - All herbaceous (non-woody) plants, regardless of size.  13.   Woody Vines - All woody vines, regardless of height.  Total Cover =50 Woody Vines Stratum (Plot size: 30 ft. radius)  1.   Woody Vines Stratum (Plot size: 30 ft. radius)  1.   All herbaceous (non-woody) plants, regardless of height.  Woody Vines - All woody vines, regardless of height.  Hydrophytic Vegetation Present?Y  5.   Hydrophytic Vegetation Present?Y  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.			1			Holghi (BBI I), rogalaloss of Holghi.
10. 11. 12. 13. 14. 15.  Woody Vine Stratum (Plot size: 30 ft. radius)  1. 2. 3. 4.  Total Cover =			1			BBU was the state
11.   Herb - All herbaceous (non-woody) plants, regardless of size.  13.   Woody Vines - All woody vines, regardless of height.  Total Cover = 50   Woody Vines Stratum (Plot size: 30 ft. radius)  1.						Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
12.	10.		ı			
13.   14.   15.   Woody Vines - All woody vines, regardless of height.    Total Cover =50   Woody Vine Stratum (Plot size: 30 ft. radius)   1.	11.					
14.	12.					Herb - All herbaceous (non-woody) plants, regardless of size.
14.						1
Total Cover =50  Woody Vines - All woody vines, regardless of height.    Woody Vine Stratum (Plot size: 30 ft. radius)						1
Total Cover =50						Woody Vines - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 ft. radius)  1.	13.	Total Course				Two day vinles - 7 in weed, times, regardless of theight.
1.		l otal Cover :	= 50	_		
1.						
3. Hydrophytic Vegetation Present? Y  5. 4. Total Cover = 0  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.	Woody Vine St	tratum (Plot size: 30 ft. radius)	<del>-</del>			
3. Hydrophytic Vegetation Present? Y  5. 4. Total Cover = 0  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.	1.					
5. 4.  Total Cover = 0  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.	2.					
5. 4.  Total Cover = 0  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.	3.					Hydrophytic Vegetation Present? Y
4. Total Cover = 0  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.						
Total Cover = 0  Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.		<u> </u>	1			
Remarks: The wetland vegetation is dominated by quaking aspen in the tree canopy and various sedges sparsely matting the ground layer.	т.	Total Cover				
	Domorko			in the tree	000000	and various codage engraphy matting the ground layer
Additional Remarks:	Remarks:	The welland vegetation is dominated by qu	aking aspen	in the tree	е сапору а	and various sedges sparsely mailing the ground layer.
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