WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	09/15/14
Applicant: Enbridge										County:	Pennington
Investigators	S:	RAJ/BEH/MRK			_Subregior	ח (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	175A					NWI	Classification:				
Landform:	Depression			Lo	cal Relief:	CC				Sample Point:	w-154n44w31-j1
Slope (%):	0 - 2%		itude: 48.122		Longitude:		758	Datum:		1 .	
,		onditions on the site typ							□ No	Section:	
										-	
Are Vegetati		I □, or Hydrology □si	•			Ale	normal circum	•	esent?	Township:	-
		I □, or Hydrology □a	aturally prob	plematic?			☑ Yes	□ No		Range:	Dir:
SUMMARY (of finding	S									
Hydrophytic	Vegetation P	resent?	Yes					Hydric Soil	s Present?	Yes	
Wetland Hyd	-		Yes		-			Is This Sar	nolina Poin	nt Within A W	etland? Yes
Remarks:		arr community domina		dow willow					9		
rtomanto.											
HYDROLOG	βY										
Wetland Hy	vdroloav Ind	icators (Check all that	t apply: Mir	nimum of or	e primary	or two se	econdary requir	ed):			
Primary						0	Joonaary roqui	00)	Secondary:		
	A1 - Surface	Water		п	B11 - Salt (Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydrog		e Odor			B10 - Drainage	•
	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimer						pheres on Living	Roots (not till	£ D	C8 - Crayfish I	
	B3 - Drift Dep	•			C4 - Prese			, in the second s		•	n Visible on Aerial Imagery
\checkmark	B4 - Algal Ma				C7 - Thin M	luck Surfa	се			D2 - Geomorp	
	B5 - Iron Dep				Other (Expl	ain)				D5 - FAC-Neu	
		on Visible on Aerial Imagei	ry		、 ·	,				D7 - Frost-Hea	aved Hummocks (LRR F)
\checkmark		tained Leaves	-								
Field Obser	vations:										
		× –			(:)						
	ter Present?		Depth:		_ (in.)			Wetland H	lvdroloav l	Present?	Υ
Water Table	Present?	Yes 🔽	Depth:	3	(in.)				.,		
Saturation P	resent?	Yes 🛛	Depth:	0	_ (in.)						
Describe Rec	orded Data (troom gougo monitorin		al photos pr	- ovious isos	actiona)	if available:				
Describe Rec	,	stream gauge, monitorir	U	•							
Remarks: The water table is at 3 inches and the soil is saturated to the surface. The ground surface has water-stained leaves and a patchy mat of algae in											
Remarks:							•				icny mat of algae in
Remarks:		able is at 3 inches and ssions. There are abu					•				tony mat of algae in
Remarks: SOILS							•				tony mat of algae in
SOILS	microdepre		undant aqua	atic snail sh	ells at the s	soil surfa	ice. Indicators	of wetland			tony mat of algae in
SOILS Profile Descr	microdepre	ssions. There are abu	undant aqua	a <mark>tic snail sh</mark> nent the indi	ells at the s cator or co	soil surfa	ace. Indicators	of wetland dicators.)			tony mat of algae in
SOILS Profile Descr	microdepre	ssions. There are abu	undant aqua	a <mark>tic snail sh</mark> nent the indi	ells at the s cator or co	soil surfa	ace. Indicators	of wetland dicators.)			tony mat of algae in
SOILS Profile Descr	microdepre	ssions. There are abuite to the depth neede etion, RM=Reduced Matrix,	undant aqua	a <mark>tic snail sh</mark> nent the indi	ells at the s cator or co	soil surfa onfirm the ion: PL=Pc	e absence of in pre Lining, M=Matri	of wetland dicators.)			tony mat of algae in
SOILS Profile Descr (Type: C=Conce	microdepre	ssions. There are abu ibe to the depth neede etion, RM=Reduced Matrix, Matrix	undant aqua ed to docum CS=Covered	atic snail sh nent the indi ⁄Coated Sand	ells at the s cator or co Grains; Locat	soil surfa nfirm the ion: PL=Pc Mottle	e absence of in pre Lining, M=Matri	of wetland dicators.)	hydrology a		
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SOILS Profile Descr (Type: C=Conce Depth (In.) 0-9 9-18 9-18	microdepre	ssions. There are abu ibe to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist) 2/1 4/1 2/1	undant aqua ed to docum CS=Covered 100 80 20	atic snail sh nent the indi /Coated Sand Color (ells at the s cator or co Grains; Locat Moist)	soil surfa onfirm the ion: PL=Pc Mottle	e absence of in pre Lining, M=Matri es Type	of wetland dicators.)	Texture M S SC	are present.	Remarks
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WETLAND DETERMINATION DATA FORM Great Plains Region

Conclusion devided in all upprocesses were not solve processes Statum Devine to Statum Dominance Test Worksheet 1 3	roject/Site:	L3R				Sample Point: w-154n44w31-j1
Situation (Pot size: 30.1/L maths): Social basis Jul Size Deminance Test Worksheet 1.						
Species: Name Species: Name Demosity Demosity Demosity Command Species: Name 2			e non-native	species.)		
1		· · · · · · · · · · · · · · · · · · ·	% Cover	Dominant	Ind Status	Dominance Test Worksheet
2.	1.		<u>/0 00101</u>	Dominant	maiotatao	
3.						Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
4.	r.					
S.		·				Total Number of Dominant Species Across All Strata: 2 (B)
6. Prevailable index Worksheet 9. Total Cover = 0 10. Total Cover = 0 11. Sampe index Worksheet 12. Conversition 13. Sampe index Worksheet 14. Sampe index Worksheet 15. Total Cover = 0 16. Sampe index Worksheet 17. Sampe index Worksheet 18. Sampe index Worksheet 19. Sampe index Worksheet 20. Conversition 21. Conversition 22. Conversition 33. Sampe index Worksheet 34. Sampe index Worksheet 35. N FACW 36. Sampe index Worksheet 37. Sampe index Worksheet 38. Sampe index Worksheet 39. Sampe index Worksheet 30. Sampe index Worksheet 30. Sampe index Worksheet 30. Sampe index Worksheet 30. Sampe index Worksheet 31. Proverside index Worksheet 32. Sampe index Worksheet		J				
7.		<u></u> _				Percent of Dominant Species That Are OBL_EACW_or EAC: 100.0% (A/B)
8. Prevalence Index Worksheet 10. Total Cover =0		J				
9.	I	·				Prevalence Index Worksheet
10. Total Cover =		J				
1 Solic yeachowing 95 Y OBL 2 Cover allow S N FACW 3.		/				OBL spp. 95 $x 1 = 95$
1 Solic yeachowing 95 Y OBL 2 Cover allow S N FACW 3.		 Total Cover =	0			FACW spp. 10 \times 2 = 20
1 Solic yeachowing 95 Y OBL 2 Cover allow S N FACW 3.				_		$FAC spp. \qquad 0 \qquad x 3 = \qquad 0$
1 Solic yeachowing 95 Y OBL 2 Cover allow S N FACW 3.	plina/Shrub S	Stratum (Plot size: 15 ft, radius)				FACU spp. 0 $x 4 = 0$
2. Conversible 5 N FACW 3. Total 105 (A) 115 (B) 7.			95	Y	OBL	$UPL \text{ spp.} \qquad 0 \qquad X \text{ 5} = \qquad 0$
3.				N		
4. Prevalence Index = B/A =1.005 7.			_			Total 105 (A) 115 (B)
5.						
6.						Prevalence Index = $B/A = 1.095$
7.						
8.						
9.						Hydrophytic Vegetation Indicators:
10.						
Total Cover =						
b. Stratum (Plot size: 5 ft. radius) 1. Problem Hydrophytic Vegetation (Explain) * 2. 3. 4. 5. 6 7. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 10. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 10. 11. 12. 13. 14. 15. 16. 17. 17. 18. 19. 10. 11. 12. 13. 14. 15. 16. 17. 17. 18. 19. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19.		Total Cover =	100			
the Stratum (Plot size: 5 ft. radius) 1. Problem Hydrophytic Vegetation (Explain) * 1. 2. 3. 4. 5. 6. 6. 7. 6. 7. 7. 7. 7. 8. 9. 11. 12. 13. 14. 15. 16. 17. 18. 19. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. <		_		_		
1. Phalaris arundinacea 5 Y FACW 2. * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4.	rb Stratum (F	Plot size: 5 ft_radius)				
2. * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 3. * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4. • • • Woody plants 3 in. (7.6cm) or more in diameter at breast height. (DBH), regardless of height. 6. • • • • Woody plants 3 in. (7.6cm) or more in diameter at breast height. (DBH), regardless of height. 7. • • • Woody plants 3 in. (7.6cm) or more in diameter at breast height. (DBH), regardless of height. 9. • • • Woody plants a in. (7.6cm) or more in diameter at breast height. (DBH), regardless of height. 10. • • • • Woody plants a in. (7.6cm) or more in diameter at breast height. 11. • • • • Woody plants are in the state of the state of the state. 12. • • • • • • • • • • • • • • • • • • •	<u>1.</u>	· · · · · · · · · · · · · · · · · · ·	5	Y	FACW	
3.	2		•	•		* Indicators of hydric soil and wetland hydrology must be
4.						
5	P					Definitions of Vegetation Strata:
6 7. 8. 9. 10. 11. 12. 13. 14. 15. Total Cover =						
7	P					Tree - Woody plants 3 in (7 6cm) or more in diameter at breast
8						
9	р.					
10. 11. 12. 13. 14. 15. Total Cover = 3. 1. 2. 3. 4. Total Cover = 0 Hydrophytic Vegetation Present? Y Hydrophytic vegetation is present.						Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
11. 12. 13. 14. 15. Total Cover = 16. 17. 18. 19. 10. 11. 11. 11. 12. 13. 14. 15. 16. 17. 17. 18. 19. 19. 10. 11. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 10. 10. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 11. 19. 10. 11. 11. 12. 13. 14. 15. 17. 18. 19. 19. 10. 11. 12. 13. 14. 15. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 1						
12.						
13. 14. 15. Total Cover = 0 1. 2. 3. 5. 4. Total Cover = Multiple Content of the street of the						Herb - All herbaceous (non-woody) plants, regardless of size.
14.	P.					
15. Woody Vines - All woody vines, regardless of height. Total Cover = 5. 1.	1.					
Total Cover = body Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 5. 4. Total Cover = 0 Hydrophytic Vegetation Present? Y Marks: A Willow-Carr community dominated by dense meadow willow. There is moss growing at the bases of willow clumps. Hydrophytic vegetation is present.						Woody Vines - All woody vines, regardless of height.
nody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 5. 4. Total Cover = 0 Hydrophytic Vegetation Present? Y		Total Cover –	5			
1.			0	_		
1.	Jody Vine Str	atum (Plot size: 30 ft radius)				
3.	<u>1</u> .					
3.	2.					
5.						Hydrophytic Vegetation Present? Y
4. Total Cover = 0 emarks: A Willow-Carr community dominated by dense meadow willow. There is moss growing at the bases of willow clumps. Hydrophytic vegetation is present.						
Total Cover = 0 marks: A Willow-Carr community dominated by dense meadow willow. There is moss growing at the bases of willow clumps. Hydrophytic vegetation is present.						
marks: A Willow-Carr community dominated by dense meadow willow. There is moss growing at the bases of willow clumps. Hydrophytic vegetation is present.		Total Cover =	0			
	marks.				here is m	oss growing at the bases of willow clumps. Hydrophytic vegetation is present
Iditional Remarks:		A whow bar community dominated by delis		· ••••••••••••••••••••••••••••••••••••		see growing at the bases of whow clamps. Hydrophytic vegetation is present.
Iditional Remarks:						
iaitionai kemarks:						
	iditional R	emarks:				