WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14	
Applicant:		Enbridge								County:	Pennington	<u> </u>
Investigators		RAJ/BJC			_Subregio	`	or LRR):	MLRA 56		State:	MN	
Soil Unit:	163A				1 D 1' (I Classification	:			450 . 44 . 0 .	
Landform:	Dip		1 0 1 10 1		cal Relief:		0.57	Datama	-	Sample Poin	t: w-153n44w2-a	11
Slope (%):	0 - 2%	nditions on the site	Latitude: 48.1		Longitude:			Datum: ☑ Yes	: □ No	Coation		
		✓, or Hydrology			ai : (ii no, exp					Section:		
Are Vegetation Are Vegetation		□, or Hydrology	•	•		Ale	e normal circun □ Yes	nstances pr ☑ No	esent	Township:	Dir:	
SUMMARY C			□aturally pro	oblemanc:			□ 1es	₪ 140		Range:	DII.	
Hydrophytic \			Yes					Hydric Soi	ls Present?) Ves		
Wetland Hyd	_		Yes		-					nt Within A W	/etland? Yes	
Remarks:		y-flooded basin in		ield that was	planted to	wheat th	nis vear but was					isturbed from
		nerbicide use. The			•	mioar ii	year bar mar			oampinig	io vogotanom io a	
HYDROLOG		iorbiolae acer irre			age.							
		inatora (Chaak all	l that apply M	linimum of on	o primary	or two or	ooondoru roqui	rad\.				
Primary:	•	icators (Check all	i that apply; iv	linimum of or	e primary	or two se	econdary requi	rea):	Secondary:			
	A1 - Surface	Water			B11 - Salt	Crust				<u>.</u> B6 - Surface	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave	Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainag		
	B1 - Water M				C2 - Dry So			Doots (not till	L 0		Rhizospheres on Li	ving Roots (tilled)
	B2 - Sedimer B3 - Drift Dep	•			C3 - Oxidiz		spheres on Living	Roots (not till	"	C8 - Crayfish	on Visible on Aerial I	magery
	B4 - Algal Ma				C7 - Thin N				✓	D2 - Geomor		ago.y
	B5 - Iron Dep				Other (Exp	lain)			☑	D5 - FAC-Ne		
		on Visible on Aerial Im	nagery							D7 - Frost-He	eaved Hummocks (L	RR F)
	B9 - Water-S	tained Leaves										
Field Observ	vations:											
Surface Water		Yes □	Dont	·	(in)							
Water Table		Yes	Deptl Deptl		- (in.) - (in.)			Wetland H	Hydrology	Present?	Υ	
Saturation Pr		Yes	Depti		(in.)							
Cataration 1	oodiit.	-	Dopu	1.								
December December	and ad Data (itaninaall aa		` ′	t!\	if a vailable					
		stream gauge, moni		rial photos, pr	` ′	ections),	if available:					
Describe Reco		stream gauge, moni f wetland hydrolog		rial photos, pr	` ′	ections),	if available:					
Remarks:				rial photos, pr	` ′	ections),	if available:					
Remarks:	Indicators of	f wetland hydrolog	gy are present	rial photos, pr	evious insp			ndicators.)				
Remarks: SOILS Profile Descri	Indicators of ption (Descr		gy are present	rial photos, pr	evious insp	onfirm the	e absence of ir					
Remarks: SOILS Profile Descri	Indicators of ption (Descr	f wetland hydrolog	gy are present	rial photos, pr	evious insp	onfirm the	e absence of ir					
Remarks: SOILS Profile Descri	Indicators of ption (Descr	f wetland hydrolog	gy are present eeded to docu latrix, CS=Covere	rial photos, pr	evious insp	onfirm the	e absence of ir ore Lining, M=Mati					
Remarks: SOILS Profile Descri	Indicators of ption (Descr	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma	gy are present	rial photos, pr	evious insp cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of ption (Descr	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	gy are present eeded to docu latrix, CS=Covere	rial photos, pr	evious insp cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	rix)	Texture SCL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	ption (Descr	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	gy are present eeded to docu latrix, CS=Covere	rial photos, pr	evious inspector or configurations; Local	onfirm the	e absence of ir ore Lining, M=Matr	rix)		pebbles and gra		
Remarks: SOILS Profile Descri (Type: C=Concer	ption (Description, D=Depl	f wetland hydrolog be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to docu	ment the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mati es Type	Location	SCL	pebbles and gra		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11	ption (Description, D=Deplementation, D=Deplemen	Matrix Color (Moist) 2/1 6/2	eeded to doculatrix, CS=Covere	ment the indied/Coated Sand Color (cator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location M	SCL	pebbles and gra		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18	ption (Description, D=Deplementation, D=Deplemen	Matrix Color (Moist) 2/1 6/2 5/1	eeded to doculatrix, CS=Covered % 100 95 90	rial photos, process. ment the indicad/Coated Sand Color (Hue_10YR Hue_10YR	cator or cograins; Locate Moist) 6/8 5/6	Mottle %	e absence of ir ore Lining, M=Matr es Type C C	Location M	SCL LCOS C	pebbles and gra	vel present	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18	ption (Description, D=Deplementation, D=Deplemen	Matrix Color (Moist) 2/1 6/2 5/1 Indicators (ch	eeded to doculatrix, CS=Covered % 100 95 90	ment the indicators are in the state of the	cator or cograins; Local Moist) 6/8 5/6 not presen	Mottle %	e absence of ir ore Lining, M=Matr es Type C C	Location	SCL LCOS C Indicators 1	for Problemat Muck (LRR I, J)	vel present ic Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	ption (Description, D=Deplementation, D=Deplemen	Matrix Color (Moist) 2/1 6/2 5/1 Indicators (ch	eeded to doculatrix, CS=Covered % 100 95 90	rial photos, process. ment the indicators and Color (Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped	cator or cograins; Locar Moist) 6/8 5/6 not presen edox Matrix	Mottle % 5 10	e absence of ir ore Lining, M=Matr es Type C C	Location	Indicators 1 A9 - 1 cm M A16 - Coast	for Problemat Muck (LRR I, J) t Prairie Redox	vel present ic Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	htration, D=Deplementation, D=	Matrix Color (Moist) 2/1 6/2 5/1 Indicators (chain)	gy are present eeded to document to docume	ment the indicators are in the second	cator or cograins; Local Moist) 6/8 5/6 not presented ox Matrix Mucky Minera Gleyed Matrix	Mottle Mottle Mottle 10 t):	e absence of ir ore Lining, M=Matr es Type C C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemat Muck (LRR I, J) t Prairie Redox Jurface (LRR G Plains Depress	vel present ic Soils ¹ (LRR F, G, H)	72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	htration, D=Deplementation, D=	Matrix Color (Moist) 2/1 6/2 5/1 Indicators (chain)	eeded to doculatrix, CS=Covered % 100 95 90	rial photos, process ment the indicators and Color (Hue_10YR Hue_10YR Hue_10YR Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	cator or co Grains; Local Moist) 6/8 5/6 not presented with the content of the	Mottle Mottle Mottle 10 t):	e absence of ir ore Lining, M=Matr es Type C C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemat Muck (LRR I, J) t Prairie Redox Jurface (LRR G Plains Depress	vel present ic Soils¹ (LRR F, G, H)	72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	ption (Descriptration, D=Deplementation, D=Deple	Matrix Color (Moist) 2/1 6/2 5/1 Indicators (chain)	gy are present eeded to docut atrix, CS=Covered 90 90 eeck here if in	rial photos, process ment the indicators are in the sed/Coated Sand Color (in the sed/Coated Sand Sand Sand Sand Sand Sand Sand San	cator or co Grains; Local Moist) 6/8 5/6 not presen edox Matrix Mucky Minera Gleyed Matrix Matrix Park Surface	Mottle Mottle Mottle t):	e absence of ir ore Lining, M=Matr es Type C C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemat Muck (LRR I, J) It Prairie Redox Jurface (LRR G Plains Depress Ced Vertic	vel present ic Soils (LRR F, G, H)) ions (LRR H, outside MLRA	72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	htration, D=Deplementation, D=	Matrix Color (Moist) 2/1 6/2 5/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface park Surface	gy are present eeded to document atrix, CS=Covered 90 90 eeded to document atrix, CS=Covered 90	ment the indicators are in the sed/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Col	cator or co Grains; Local Moist) 6/8 5/6 not presented with the content of the	Mottle Mottle Mottle 10 t):	e absence of ir ore Lining, M=Matrones Type C C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemat Muck (LRR I, J) t Prairie Redox Jurface (LRR G Plains Depress ced Vertic Parent Material	vel present ic Soils¹ (LRR F, G, H)) ions (LRR H, outside MLRA	72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	ption (Descriptration, D=Deplementation, D=Deple	Matrix Color (Moist) Indicators (chapted in Sulfide I Layers (LRR FGH) and Below Dark Surface ucky Mineral	gy are present eeded to docu atrix, CS=Covere 90 100 95 90 neck here if in	ment the indicators are in the sed/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Col	cator or co Grains; Local Moist) 6/8 5/6 not presented with the content of the	Mottle Mottle Mottle 10 t):	e absence of ir ore Lining, M=Matr es Type C C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemat Muck (LRR I, J) It Prairie Redox Surface (LRR G Plains Depress Ced Vertic Parent Material V Shallow Dark	vel present ic Soils¹ (LRR F, G, H)) ions (LRR H, outside MLRA	72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	ption (Descriptration, D=Deplementation, D=Deple	Matrix Color (Moist) 2/1 6/2 5/1 Indicators (chaine) Indicators (chaine) Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface aucky Mineral flucky Peat or Peat (L	gy are present eeded to document to docume	ment the indicators are in the sed/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Col	cator or co Grains; Local Moist) 6/8 5/6 not presented with the content of the	Mottle Mottle Mottle 10 t):	e absence of ir ore Lining, M=Matrones Type C C	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problemat Muck (LRR I, J) t Prairie Redox surface (LRR G Plains Depress ced Vertic Parent Material of Shallow Dark ain in Remarks	ic Soils ¹ (LRR F, G, H)) ions (LRR H, outside MLRA Surface)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	ption (Descriptration, D=Deplementation, D=Deple	matrix Color (Moist) 2/1 6/2 5/1 Indicators (chaine) Layers (LRR F) ck (LRR FGH) cd Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	gy are present eeded to document to docume	ment the indicators are in the sed/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Col	cator or co Grains; Local Moist) 6/8 5/6 not presented with the content of the	Mottle Mottle Mottle 10 t):	e absence of ir ore Lining, M=Matrones Type C C	Location	Indicators of Polymer (Explain	for Problemat Muck (LRR I, J) t Prairie Redox surface (LRR G Plains Depress ced Vertic Parent Material of Shallow Dark ain in Remarks	ic Soils ¹ (LRR F, G, H)) ions (LRR H, outside MLRA Surface)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	ption (Descriptration, D=Deplementation, D=Deple	matrix Color (Moist) 2/1 6/2 5/1 Indicators (chaine) Layers (LRR F) ck (LRR FGH) cd Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	gy are present eeded to document to docume	rial photos, proceed and content the indicators are undicators are	cator or cograins; Local Moist) 6/8 5/6 not presented Matrix Mucky Mineral Matrix M	Mottle Mottle Mottle 10 t):	e absence of irrore Lining, M=Matroses Type C C C	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed)	for Problemat Muck (LRR I, J) t Prairie Redox Furface (LRR G Plains Depress ced Vertic Parent Material of Shallow Dark ain in Remarks	ic Soils ¹ (LRR F, G, H)) ions (LRR H, outside MLRA Surface)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-11 11-18 NRCS Hydr	ption (Descriptration, D=Deplementation, D=Deple	matrix Color (Moist) 2/1 6/2 5/1 Indicators (chaine) Layers (LRR F) ck (LRR FGH) cd Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	gy are present eeded to document to docume	ment the indicators are in S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High P	cator or cograins; Local Moist) 6/8 5/6 not presen edox Matrix Mucky Minera Gleyed Matrix dark Surface d Dark Surface d Dark Surface depressions ains Depres	Mottle Mottle Mottle S 10 t):	e absence of irrore Lining, M=Matrices Type C C C Hydric So	Location M M R H)	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed) Y	for Problemat Muck (LRR I, J) t Prairie Redox Furface (LRR G Plains Depress ced Vertic Parent Material of Shallow Dark ain in Remarks hydrophytic vegeta ed or problematic	ic Soils ¹ (LRR F, G, H)) ions (LRR H, outside MLRA Surface)	ogy must be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Control Cont	Project/Site:	L3R				Sample Point: w-153n44w2-a1		
Total Cover 1								
		` '	re non-native	species.)				
1	Tree Stratum (· · · · · · · · · · · · · · · · · · ·	% Cover	Dominant	Ind Status	Dominance Test Worksheet		
Numer of Deminstrating Repose that are ORI, FACKY, or FAC. 2 (A) Total Number of Deminstrating Species Across All Brains 2 (B) Total Cover = 0	1	Opecies ivairie	76 COVEL	Dominant	<u>IIIu.Status</u>	Dominance rest Worksheet		
Total Number of Dominant Species Across All Strate 2 (B)						Number of Dominant Species that are OBL_FACW_or FAC: 2 (A)		
Total Number of Dominant Spaces Across All Strate: 2 (B)						(1)		
Percent of Duniform's Species That Are CRL. FACW, or FAC: 100.0% (A/B)						Total Number of Dominant Species Across All Strata: 2 (B)		
Record of Derinant Secores That Are OBL. FACW, or FAC. 100.0% (A/B)						rotal Number of Borninant Openies Noross All Strata.		
Providence Index Worksheet						Percent of Dominant Species That Are OBL_EACW_or EAC: 100.0% (A/B)		
B						(142)		
10						Prevalence Index Worksheet		
Total Cover								
2. 3. Total 18 (A) 20 (B) Prevalence Index = B(A = 1.111 Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation						OBL spp. 16 $\times 1 = 16$		
2. 3. Total 18 (A) 20 (B) Prevalence Index = B(A = 1.111 Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation	10.	Total Cover =	. 0			FACW spp. $\frac{2}{2}$ \times $2 = \frac{4}{4}$		
2. 3. Total 18 (A) 20 (B) Prevalence Index = B(A = 1.111 Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation		rotal Gover =		-		$FAC spp. \qquad 0 \qquad x 3 = \qquad 0$		
2. 3. Total 18 (A) 20 (B) Prevalence Index = B(A = 1.111 Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation	Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$		
2. 3. Total 18 (A) 20 (B) Prevalence Index = B(A = 1.111 Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation		Chatam (Fiet Size: To it. Fadias)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
Total Cover = 0 Herb Stratum (Plot size: 5 ft. radius) 1. Spein & gwaca								
4.						Total 18 (A) 20 (B)		
Prevalence Index = B/A =								
Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Rapid Test for Hydrophytic Vegetation Naphrophytic Vegetation Nap						Prevalence Index = B/A = 1.111		
### Hydrophytic Vegetation Indicators: Section Sect								
8. Hydrophytic Vegetation Indicators: 9. Total Cover = 0 X Dominance Test to Flytophytic Vegetation 1. Total Cover = 0 X Dominance Test to Stock X Dominance Test to Stock X Deviations (Explain) * Problem Hydrophytic Vegetation (Explain) * Problem Hydrophytic Vegetation (E								
9. Total Cover = 0						Hydrophytic Vegetation Indicators:		
Total Cover = 0								
Total Cover = 0								
Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *	101	 Total Cover =	: 0					
Problem Hydrophytic Vegetation (Explain) * Problem Hydrophytic Vegetation (Explain) *			-	_				
1. Typhe X glauce 2. Eleocharia acicularis 3. N OBL 3. Beckmarria sycligatene 3. N OBL 4. Alternativate 3. N OBL 5. Persicaria maculosa 5. Persicaria maculosa 6. Persicaria maculosa 7. Fersicaria maculosa 7. Fersicaria maculosa 8. Fersicaria maculosa 9. FACW 10. Facy 11. Fersicaria maculosa 11. Fersicaria maculosa 12. N FACW 13. Facy 14. Fersicaria maculosa 14. Fersicaria maculosa 15. Fersicaria maculosa 16. Fersicaria maculosa 17. Fersicaria maculosa 18. Fersicaria maculosa 19. Fersicaria maculosa 10. Fersicaria maculosa 11. Fersicaria maculosa 11. Fersicaria maculosa 12. Fersicaria maculosa 13. Fersicaria maculosa 14. Fersicaria maculosa 15. Fersicaria maculosa 16. Fersicaria maculosa 17. Fersicaria maculosa 18. Fersicaria maculosa 19. Fersicaria maculosa 10. Fersicaria maculosa 10. Fersicaria maculosa 11. Fersicaria maculosa 12. Fersicaria maculosa 13. Fersicaria maculosa 14. Fersicaria maculosa 15. Fersicaria maculosa 16. Fersicaria maculosa 17. Fersicaria maculosa 18. Fersicaria maculosa 19. Fersicaria maculosa 19. Fersicaria maculosa 10. Fersicaria maculosa 11. Fersicaria maculosa 12. Fersicaria maculosa 13. Fersicaria maculosa 14. Fersicaria maculosa 15. Fersicaria maculosa 16. Fersicaria maculosa 17. Fersicaria maculosa 18. Fersicaria maculosa 19. Fersicaria maculosa 19. Fersicaria maculosa 10. Fersicaria maculosa 10.	Herb Stratum (Plot size: 5 ft_radius)						
2. Eleocharis acicularis 5 Y OBL 3. Beckmannie syztgachne 3 N OBL 4. Altema trivicale 3 N OBL 5. Persicania macutosa 2 N FACW 6. Tree - Woody plants 3 in, (7,8cm) 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. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of height. Woody Vines - All woody vines, regardless of height. Hydrophytic Vegetation Present? Y The wetland area has been recently lesked, the vegetation that was sampled was present on the faces of clumps of disked soil and in lines between disk furrows. A seasonally-flooded basin dominated by annual wetland plants and perennials in their first year of growth. Almost all species present at the sample point are obligate wetland plants. Hydrophytic vegetation is present.	,		5	Υ	OBL	TToblem Hydrophytic Vegetation (Explain)		
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