WETLAND DETERMINATION DATA FORM Great Plains Region

- 1/21		l									
Project/Site:		L3R								Date: 10/08/14	
Applicant: Enbridge					Subregio	o (MID)	County: Pennington State: MN				
Investigators Soil Unit:	ors: NTT/BEH Subregion (MLRA or LRR): MLRA 56 NWI Classification:									State. WIN	
Landform:	Depression				ocal Relief:		i Olassilloation.	·		Sample Point: w-152n43w24-b4	
Slope (%):	3 - 7%		Latitude: 47.		Longitude:		2429	Datum:			
	hydrologic cc	nditions on the site	typical for	this time of ye					□ No	Section:	
Are Vegetation	on 🛭 Soil	□, or Hydrology	⊏significan	tly disturbed?		Are	e normal circun	nstances pre	esent?	Township:	
Are Vegetation	on □ Soil	□, or Hydrology	□aturally p	roblematic?			✓ Yes	□ No		Range: Dir:	
SUMMARY OF FINDINGS											
Hydrophytic \	•		Yes		_			Hydric Soil			
Wetland Hyd			Yes		400 1 1					t Within A Wetland? Yes	
Remarks:				•			ind along the ec	lge of a fore	sted area.	Reed canary grass is dominant throughout	
		layer with willows b	eing domin	ant throughou	it the shrub	layer.					
HYDROLOG											
_		icators (Check all	that apply;	Minimum of o	ne primary	or two s	econdary requi	red):			
Primary:		Matar			D44 Colt	Cm. 104			Secondary:		
	A1 - Surface A2 - High Wa				B11 - Salt (B13 - Aqua		1			B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage Patterns	
	B1 - Water M				C2 - Dry S			_		C3 - Oxidized Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen	•					spheres on Living	Roots (not tille		C8 - Crayfish Burrows	
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese		educed Iron		✓	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	
	B5 - Iron Dep				Other (Exp		400		✓	D5 - FAC-Neutral Test	
		on Visible on Aerial Ima	agery		()	,				D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves									
Field Observ			_		<i>(</i>)						
Surface Water		Yes		oth:	_ (in.)			Wetland H	ydrology I	Present? Y	
Water Table		Yes	Dep		_ (in.)				,	<u> </u>	
Saturation Pr	resent?	Yes	Dep	oth:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:	No primary	wetland hydrology	indicators p	oresent. Wetla	ınd hydrolo	gy is ass	sumed based o	n hydrophyti	c vegetatio	n present and landscape position.	
SOILS	intion (Decor	ibo to the depth per	adad ta dag	nument the inc	licator or oc	nfirm th	o observe of in	dicators \			
		ibe to the depth ned etion, RM=Reduced Ma									
	,	,	,		, ,		3,	,			
		Matrix				Mottl	es				
Depth (In.)		Color (Moist)	9	6 Color	(Moist)	%	Туре	Location	Texture	Remarks	
0-10	Hue_10YR	2/1	9	5 Hue_7.5Y	R 6/8	5	С	M	SCL		
10-22	Hue_10YR	4/1	8	0 Hue_5YR	5/8	20	С	M	С		
NRCS Hydr	ic Soil Field	Indicators (che	eck here if	indicators are	not presen	t):					
		•			·	,			Indicators f	or Problematic Soils ¹	
	A1- Histosol			□ S5 - Sandy	Redox				A9 - 1 cm M	luck (LRR I, J)	
	□ A2 - Histic Epipedon □ S6 - Stripped Matrix □ A16 - Coast Prairie Redox (LRR F, G, H)								Proirie Pedey (LPP E.C. LI)		
									0		
	A3 - Black His	stic		☐ F1 - Loamy	Mucky Miner					urface (LRR G)	
	A3 - Black His A4 - Hydroge	stic n Sulfide		□ F1 - Loamy □ F2 - Loamy	Mucky Miner Gleyed Matri				F16 - High F	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)	
	A3 - Black His A4 - Hydroge A5 - Stratified	stic n Sulfide l Layers (LRR F)		☐ F1 - Loamy ☐ F2 - Loamy ☐ F3 - Deplete	Mucky Miner Gleyed Matri ed Matrix	×		_ _ _	F16 - High F F18 - Reduc	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic	
0	A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	stic n Sulfide		□ F1 - Loamy □ F2 - Loamy	Mucky Miner Gleyed Matri ed Matrix Dark Surface	x		_ _ _	F16 - High F F18 - Reduc TF2 - Red P	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)	
0	A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	stic n Sulfide l Layers (LRR F) ck (LRR FGH) ed Below Dark Surface	•	☐ F1 - Loamy ☐ F2 - Loamy ☐ F3 - Deplete ☐ F6 - Redox ☐ F7 - Deplete ☐ F8 - Redox	Mucky Minera Gleyed Matri ed Matrix Dark Surface ed Dark Surfa Depressions	ce			F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material	
	A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	stic n Sulfide l Layers (LRR F) ck (LRR FGH) ed Below Dark Surface eark Surface ucky Mineral	,	☐ F1 - Loamy ☐ F2 - Loamy ☐ F3 - Deplete ☐ F6 - Redox ☐ F7 - Deplete ☐ F8 - Redox	Mucky Minera Gleyed Matri ed Matrix Dark Surface ed Dark Surfa Depressions	ce	_RA 72, 73 of LRF		F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface	
	A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	stic n Sulfide l Layers (LRR F) ck (LRR FGH) ed Below Dark Surface eark Surface lucky Mineral Mucky Peat or Peat (LF	RR G, H)	☐ F1 - Loamy ☐ F2 - Loamy ☐ F3 - Deplete ☐ F6 - Redox ☐ F7 - Deplete ☐ F8 - Redox	Mucky Minera Gleyed Matri ed Matrix Dark Surface ed Dark Surfa Depressions	ce	₋RA 72, 73 of LRF		F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface ain in Remarks)	
	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	stic n Sulfide l Layers (LRR F) ck (LRR FGH) ed Below Dark Surface lark Surface ucky Mineral Mucky Peat or Peat (LR cky Peat or Peat (LRF	RR G, H)	☐ F1 - Loamy ☐ F2 - Loamy ☐ F3 - Deplete ☐ F6 - Redox ☐ F7 - Deplete ☐ F8 - Redox	Mucky Minera Gleyed Matri ed Matrix Dark Surface ed Dark Surfa Depressions	ce	_RA 72, 73 of LRF		F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explant)	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface ain in Remarks) nydrophytic vegetation and wetland hydrology must be present,	
	A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	stic n Sulfide l Layers (LRR F) ck (LRR FGH) ed Below Dark Surface lark Surface ucky Mineral Mucky Peat or Peat (LR cky Peat or Peat (LRF	RR G, H)	☐ F1 - Loamy ☐ F2 - Loamy ☐ F3 - Deplete ☐ F6 - Redox ☐ F7 - Deplete ☐ F8 - Redox	Mucky Minera Gleyed Matri ed Matrix Dark Surface ed Dark Surfa Depressions	ce	_RA 72, 73 of LRF		F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explant)	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface ain in Remarks)	
	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 S4 - Sandy G	stic n Sulfide l Layers (LRR F) ck (LRR FGH) ed Below Dark Surface eark Surface ucky Mineral Mucky Peat or Peat (LR cky Peat or Peat (LRF leyed Matrix	RR G, H)	☐ F1 - Loamy ☐ F2 - Loamy ☐ F3 - Deplete ☐ F6 - Redox ☐ F7 - Deplete ☐ F8 - Redox	Mucky Minera Gleyed Matrix Dark Surface d Dark Surfa Depressions Plains Depres	ce			F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explant)	urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface ain in Remarks) nydrophytic vegetation and wetland hydrology must be present,	
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Project/Site:	L3R				Sample Point: w-152n43w24-b4				
VEGETATION	```	e non-native	species.)						
Tree Stratum (Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u>Species Ivaime</u>	<u>70 00001</u>	Dominant	<u>ma.otatas</u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)				
3.					`				
4.					Total Number of Dominant Species Across All Strata: 4 (B)				
5.					``,				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp15				
	Total Cover =	0			FACW spp. $\frac{115}{}$ $x 2 = \frac{230}{}$				
					FAC spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
	Stratum (Plot size: 15 ft. radius)			E A O\A/	FACU spp. 0 x 4 = 0				
1.	Salix bebbiana	25	Y	FACW	UPL spp. $0 x 5 = 0$				
2.	Salix petiolaris	15	Y	OBL	T				
3.	Populus balsamifera	15	Υ	FACW	Total 145 (A) 290 (B)				
4.					Drawalawaa kadaa D/A				
5. 6.					Prevalence Index = B/A = 2.000				
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	Total Cover =	55			X Prevalence Index is ≤ 3.0 *				
	. 3.4 33.73.		_		Morphological Adaptations (Explain) *				
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	75	Υ	FACW					
2.	Solidago gigantea	15	N	FAC	* Indicators of hydric soil and wetland hydrology must be				
3.					present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5.									
6					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.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	90	_						
M 1 - M 01									
vvoody vine Str	ratum (Plot size: 30 ft. radius)								
2.									
3.					Hydrophytic Vegetation Present?				
5.					Trydrophytic vegetation resent:				
4.									
	Total Cover =	0							
Remarks: The wetland vegetation is dominated by reed canary grass throughout the ground layer and willows throughout the shrub layer.									
The meaning regulation of the call and a great and great and great and amount and agricult and import									
Additional Remarks:									