WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators	s:	L3R Enbridge NTT/BEH				Subregio	n (MLRA	or LRR):	MLRA 56		Date: County: State:	10/01/14 Red Lake MN
Soil Unit: Landform:	I59A Depression				Loc	cal Relief:	NWI CL	Classification:			Sample Point:	w-151n42w9-e1
Are Vegetation	on 🖵 Soi	onditions on the site I 口 or Hydrology	☐gnifica	or this antly d	time of yea isturbed?	Longitude:	olain in rema	nrks) normal circum	stances pre	□ No esent?	Section: Township:	
Are Vegetation		or Hydrology	□turally	y probl	ematic?			✓ Yes	□No		Range:	Dir:
Hydrophytic \			_	es					Hydric Soils			-11-12-10 Vee
Wetland Hyd Remarks:	The wetland	d is a fresh wet me		es ated wi	ithin a road	side ditch	adjacen	t to a farm field			nt Within A Wo s. Dominant v	etland? Yes regetation includes reed canary
HYDROLOG		voolly sedge.										
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary:											Vegetated Concave Surface e Patterns Rhizospheres on Living Roots (tilled) Burrows n Visible on Aerial Imagery hic Position tral Test	
Water Table Present? Yes ☐ Dep Saturation Present? Yes ☐ Dep					epth: (in.) epth: (in.) epth: (in.)				Wetland Hydrology Present? Y			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No primary hydrology indicators are present. Wetland hydrology is assumed based on hydrophytic vegetation present and landscape position.												
0.011.0												
SOILS Profile Descri	iption (Descr	ibe to the depth ne	eded to d	locume	ent the indic	cator or co	onfirm the	e absence of in	dicators.)			
Profile Descri		ibe to the depth ne letion, RM=Reduced Ma										
Profile Descri		etion, RM=Reduced Ma					tion: PL=Po	ore Lining, M=Matr			I	
Profile Descri						Grains; Locat		ore Lining, M=Matr		Texture		Remarks
Profile Descri (Type: C=Concer		etion, RM=Reduced Ma		overed/C	Coated Sand C	Grains; Locat	tion: PL=Po	ore Lining, M=Matr	ix)	Texture		Remarks
Profile Descri (Type: C=Concer		etion, RM=Reduced Ma		overed/C	Coated Sand C	Grains; Locat	tion: PL=Po	ore Lining, M=Matr	ix)	Texture		Remarks
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Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depi	Matrix Color (Moist)	atrix, CS=Cc	%	Coated Sand C	Moist)	Mottle	ore Lining, M=Matr	Location		for Problemes	
Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydragte A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy S2 - 2.5 cm M	Matrix Color (Moist) Indicators (chapipedon stic on Sulfide I Layers (LRR F) lock (LRR FGH) ed Below Dark Surface lark Surface lucky Mineral Mucky Peat or Peat (LRicky Peat or	ee RR G, H)	sif indic	Color (No. 1) Co	Moist) ot presen edox Matrix uucky Mineraleyed Matrix Matrix ark Surface Dark Surfae epressions	Mottle % Mottle ton: PL=Pe Mottle ton: PL=Pe	ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Red uc TF2 - Red F TF12 - Very Other (Expla	ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	Matrix Color (Moist) Indicators (chapiedon stic no Sulfide selow Dark Surface lark	ee RR G, H)	sif indic	Color (No. 1) Co	Moist) ot presen edox Matrix uucky Mineraleyed Matrix Matrix ark Surface Dark Surfae epressions	Mottle % Mottle ton: PL=Pe Mottle ton: PL=Pe	es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Red uc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

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Project/Site:	L3R				Sample Point: w-151n42w9-e1
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					· · · · · · · · · · · · · · · · · · ·
4.					Total Number of Dominant Species Across All Strata: 1 (B)
					Total Number of Dominant Species Across All Strata(D)
5.					40.00((4.70)
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 spp. 15 x 1 = 15
	Total Cover =	0			FACW spp. 80 x 2 = 160
			_		FAC spp. 5 x 3 = 15
Capling/Chrub (Stratum (Diat aiza: 45 ft radius)				···
	Stratum (Plot size: 15 ft. radius)				··· ——
1.					UPL spp. 0 x 5 = 0
2.					
3.					Total 100 (A) 190 (B)
4.					
5.					Prevalence Index = B/A = 1.900
6.					
7.	_				
8.					Hydrophytic Vegetation Indicators:
					1 · · · · ·
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	80	Υ	FACW	
2.	Carex pellita	15	N	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Apocynum cannabinum	5	N	FAC	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					Dominion of Togotation official
					Troo
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Height (DD11), 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.					
					Woody Vines - All woody vines, regardless of height.
15.	T	400			YYOOGY YINGS
	Total Cover =	100	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					,
4.					
⊣.	Total Cover =	0		_	
Domarka:			oog with	oolly sod	go and daghana miyad in
Remarks:	The wetland vegetation is dominated by reed	i canary gr	ass WITN W	ouny sed	уе ани иодране нихеи и.
				·	
Additional R	Remarks:				
					-