WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Applicant/Owner: Enbridge Investigator(s): LEB/CPF Landform (hillslope, terrace, etc.) Side slope Slope (%): 3 - 7% Lat.: 46.596389 Lor Soil Map Unit Name: 21C	Local relief (co ng.: <u>-92.572222</u> Datum	ownship, Range: ncave, convex, non(<u>CL</u>
Are climatic/hydrologic conditions of the site typical for th Are vegetation, soil, or hydrology Are vegetation, soil, or hydrology (If needed, explain any answers in remarks)	is time of the year? significantly disturbed? naturally problematic?	
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? N Hydric soil present? N Indicators of wetland hydrology present? N	Is the sampled area with If yes, optional wetland site	
Remarks: (Explain alternative procedures here or in a se The NWI wetland is actually a short distance We		
HYDROLOGY		
High Water Table (A2) Aquatic Saturation (A3) Marl De Water Marks (B1) Hydroge Sediment Deposits (B2) Oxidize Drift Deposits (B3) Living R Algal Mat or Crust (B4) Presend Iron Deposits (B5) Recent Inundation Visible on Aerial Soils (C Imagery (B7) Thin Mu	Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Roots (C3) ce of Reduced Iron (C4) Iron Reduction in Tilled	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	Depth (inches): Depth (inches): Depth (inches):	Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well,	aerial photos, previous inspect	ions), if available:
Remarks: No indicators of wetland hydrology were obser	ved.	

	GETATION - Use scientific names of plan					Sampling Point				
Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum	20% 9	50% 23	
Abies balsamea				45	Y	FAC	Sapling/Shrub Stratum	Ő	0	
1							Herb Stratum	5	13	
			<u> </u>				Woody Vine Stratum	0	0	
							Dominance Test Worksh	neet		
							Number of Dominant			
							Species that are OBL,			
							FACW, or FAC:	1	(A)	
			,				Total Number of Dominar			
				45	Total Cover		Species Across all Strata Percent of Dominant	: 3	(B)	
							Species that are OBL,			
apling/Shrub	Plot Size (15 ft	`	Absolute	Dominant	Indicator	FACW, or FAC:	33.33	<u>%</u> (A/B	
Stratum		15 11)	% Cover	Species	Status				
l							Prevalence Index Works	heet		
							Total % Cover of:	1= (h	
)	
							FAC species 45 x	3 = 13	35	
l								4 = <u>1(</u> 5 = (00	
									, 35 (B)	
							Column totals 70 (A			
							Column totals 70 (A Prevalence Index = B/A =		i	
					- Total Cover				<u>; </u>	
				0 =	Total Cover			3.36		
lerb Stratum	Plot Size (5 ft)	Absolute	Dominant	Indicator	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph	3.36 Indicator	s:	
	·	5 ft)	Absolute % Cover	Dominant Species	Status	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydrophytic Solution Dominance test is >50	3.36 Indicator nytic veget	s:	
lerb Stratum Maianthemum can Carex pedunculate	hadense	5 ft)	Absolute	Dominant		Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph	3.36 Indicator nytic veget 0% 3.0*	s: tation	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <2 Morphological adapta supporting data in Rei	3.36 Indicator hytic veget 0% 3.0* tions* (pro	s: tation	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <5 Morphological adapta supporting data in Rei separate sheet)	3.36 Indicator hytic veget 0% 3.0* tions* (pro marks or o	s: tation ovide on a	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <2 Morphological adapta supporting data in Rei	3.36 Indicator hytic veget 0% 3.0* tions* (pro marks or o	s: tation ovide on a	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <52 Morphological adapta supporting data in Ref separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we	3.36 Indicator nytic vegel 0% 3.0* tions* (pro marks or o tic vegeta	s: tation ovide on a tion*	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <5 Morphological adapta supporting data in Rei separate sheet) Problematic hydrophy (explain)	3.36 Indicator nytic vegel 0% 3.0* tions* (pro marks or o tic vegeta	s: tation ovide on a tion*	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <52 Morphological adapta supporting data in Ref separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we	3.36 Indicator hytic veget 3.0* tions* (pro marks or o tic vegeta tic vegeta	s: tation ovide on a tion*	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <5 Morphological adapta supporting data in Rei separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c	3.36 Indicator hytic veget 3.0* tions* (pro marks or o tic vegeta etland hydro oblematic n Strata: cm) or more	s: tation on a tion*	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <50 Morphological adapta supporting data in Rei separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro-	3.36 Indicator hytic veget 3.0* tions* (pro marks or o tic vegeta etland hydro oblematic n Strata: cm) or more	s: tation on a tion*	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <50 Prevalence index is <50 Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants	3.36 Indicator hytic veget 0.0% 3.0* tions* (pro marks or o tic vegeta etland hydro bblematic m Strata: cm) or more s of height.	s: byide on a tion* logy must l	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15 10	Dominant Species Y Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <50 Morphological adapta supporting data in Ref separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or proc Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless	3.36 Indicator hytic veget 0.0% 3.0* tions* (pro marks or o tic vegeta etland hydro bblematic m Strata: cm) or more s of height.	s: hation by ide on a tion* logy must t in diamete	
Maianthemum can	hadense	5 ft)	Absolute % Cover 15 10	Dominant Species Y	Status FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <50 Prevalence index is <50 Morphological adapta supporting data in Rei separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants i greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-wood	3.36 Indicator hytic veget 0% 3.0* tions* (pro marks or o tic vegeta etland hydro oblematic n Strata: cm) or more s of height. less than 3 i ody) plants,	s: police on a tion* logy must t in diamete n. DBH an regardless	
Maianthemum can Carex pedunculat	hadense	5 ft)	Absolute % Cover 15 10 	Dominant Species Y Y 	Status FACU FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <5 Morphological adapta supporting data in Rei separate sheet) Problematic hydrophy (explain) Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants 1 greater than 3.28 ft (1 m) tall.	3.36 Indicator hytic veget 0% 3.0* tions* (pro marks or o tic vegeta etland hydro oblematic n Strata: cm) or more s of height. less than 3 i ody) plants,	s: portide on a tion* logy must l in diamete n. DBH an regardless	
Maianthemum can Carex pedunculate	a)	Absolute % Cover 15 10 	Dominant Species Y Y	Status FACU FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <5 Morphological adapta supporting data in Ren- separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro- Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants 1 greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woo size, and woody plants less tha Woody vines - All woody vines	3.36 Indicator hytic veget 0% 3.0* tions* (pro- marks or of tic vegeta etland hydrol bblematic m Strata: cm) or more s of height. less than 3 i body) plants, n 3.28 ft tall	s: tation ovide on a tion* logy must l in diamete n. DBH an regardless	
Maianthemum can Carex pedunculate	a)	Absolute % Cover 15 10 	Dominant Species Y Y 	Status FACU FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <50 Prevalence index is <50 Prevalence index is <50 Prevalence index is <50 Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants 1 greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-wood size, and woody plants less than	3.36 Indicator hytic veget 0% 3.0* tions* (pro- marks or of tic vegeta etland hydrol bblematic m Strata: cm) or more s of height. less than 3 i body) plants, n 3.28 ft tall	s: tation ovide on a tion* logy must l in diamete n. DBH an regardless	
Maianthemum can Carex pedunculate	a)	Absolute % Cover 15 10 	Dominant Species Y Y 	Status FACU FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <5 Morphological adapta supporting data in Ren- separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro- Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants 1 greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woo size, and woody plants less tha Woody vines - All woody vines	3.36 Indicator hytic veget 0% 3.0* tions* (pro- marks or of tic vegeta etland hydrol bblematic m Strata: cm) or more s of height. less than 3 i body) plants, n 3.28 ft tall	s: tation ovide on a tion* logy must t in diamete n. DBH an regardless	
Maianthemum can Carex pedunculate	a)	Absolute % Cover 15 10 	Dominant Species Y Y 	Status FACU FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <5 Morphological adapta supporting data in Rei separate sheet) Problematic hydrophy (explain) *Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-wood size, and woody plants less tha Woody vines - All woody viness height. Hydrophytic	3.36 Indicator hytic veget 0% 3.0* tions* (pro- marks or of tic vegeta etland hydrol bblematic m Strata: cm) or more s of height. less than 3 i body) plants, n 3.28 ft tall	s: tation ovide on a tion* logy must t in diamete n. DBH an regardless	
Carex pedunculate	a)	Absolute % Cover 15 10 	Dominant Species Y Y 	Status FACU FACU	Prevalence Index = B/A = Hydrophytic Vegetation Rapid test for hydroph Dominance test is >50 Prevalence index is <5 Morphological adapta supporting data in Rei separate sheet) Problematic hydrophy (explain) Indicators of hydric soil and we present, unless disturbed or pro Definitions of Vegetation Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless Sapling/shrub - Woody plants I greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-wood size, and woody plants less tha Woody vines - All woody vines height.	3.36 Indicator hytic veget 0% 3.0* tions* (pro- marks or of tic vegeta etland hydrol bblematic m Strata: cm) or more s of height. less than 3 i body) plants, n 3.28 ft tall	s: tation ovide on a tion* logy must b in diamete n. DBH and regardless	

SOIL								Sampl	ing Point:	CRC5128a2U
Profile I	Description:	(Describe	to the d	lepth needed t				r confirm	the absence of	indicators.)
Depth	pth Matrix R					Feature		1		Remarks
(ln.)	Color	(moist)	%	% Color (m	oist)	%	Type*	Loc**	Texture	Remarks
				, RM=Reduce	d Matrix, (CS=Co	vered or C	oated Sa	nd Grains	
		e Lining, M	=Matrix							
Hydric	Soil Indica	tors:						Indicate	ors for Probler	matic Hydric Soils:
	Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Suface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Mucky Mineral (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Redox (S5) Redox Dark Surface (F6) Stripped Matrix (S6) Depleted Dark Surface (F7) Dark Surface (S7) (LRR R, MLRA						bx (A16) (LRR K, L, R) br Peat (S3) (LRR K, L, R) (LRR K, L Gurface (S8) (LRR K, L) (S9) (LRR K, L) Masses (F12) (LRR K, L, R) ain Soils (F19) (MLRA 149B) 6) (MLRA 144A, 145, 149B) al (F21) Surface (TF12) Remarks)			
Type:	tive Layer (if	fobserved):						Hydric	soil present?	<u> N </u>
	ld not dig l		•	nt is located c vegetation		l ditch	. Soils ar	e assun	ned non-hydr	ic due to landscape