## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: St. Louis	Sampling [	<b>Date:</b> 09-Sep-17
Applicant/Owner: Enbridge		State:	N Sampling Point:	w-51n21w24-a1
Investigator(s): PJK		Section, Township, Range	: <b>s.</b> 24 <b>T.</b> 51N	<b>R.</b> 21W
Landform (hillslope, terrace, etc.): LOV	wland	Local relief (concave, convex,	none): concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		46 53.2719 <b>Lo</b>		Datum: NAD 83
Soil Map Unit Name: B103A			NWI classification: N/	A
Are climatic/hydrologic conditions on th	he site typical for this time of ve	ear? Yes   No	(If no, explain in Remarks.)	
., _	,, ,		al Circumstances" present?	Yes ● No ○
			•	
Summary of Findings - Attac		•	, explain any answers in Remai ns. transects. importa	•
	res No O	pome rocatio	no, transcoto, importo	
, ,	res O No O	Is the Sampled Area	Yes ● No ○	
.,,	res O No O	within a Wetland?	Yes ♥ NO ♥	
Wetland Hydrology Present?  Remarks: (Explain alternative procede				
Hydrology				
Wetland Hydrology Indicators:	and and all all all all all all and and A		Secondary Indicators (minimum	of 2 required)
Primary Indicators (minimum of one reasons)  Surface Water (A1)		(00 (DO)	Surface Soil Cracks (B6) Drainage Patterns (B10)	
High Water Table (A2)		, ,	Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C	2)
Water Marks (B1)	Hydrogen Sulfide O		Crayfish Burrows (C8)	-,
Sediment Deposits (B2)		eres along Living Roots (C3)	Saturation Visible on Aerial	Imagery (C9)
Drift deposits (B3)	Presence of Reduce		Stunted or Stressed Plants	(D1)
Algal Mat or Crust (B4)	Recent Iron Reduct	tion in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface	(C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B	U Other (Explain in Re	emarks)	Microtopographic Relief (D4	1)
Sparsely Vegetated Concave Surface (B	<sup>58</sup> )		✓ FAC-neutral Test (D5)	
Field Observations:	(2)			
Carrage Water Frederich	No Depth (inches):	0		
	No Depth (inches):		drology Present? Yes •	No O
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	0 Wedalid Hy	urology Present: 163 ©	140 😊
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos	s, previous inspections), if av	ailable:	
Remarks:				

## **VEGETATION - Use scientific names of plants**

VEGETATION - Use scientific fiames of pia	Sampling Point: w-51n21w24-a1					
(0)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species		
1	0			That are OBL, FACW, or FAC:3 (A)		
2	0			Total Number of Danis, and		
3	0			Total Number of Dominant Species Across All Strata: 3 (B)		
4						
5		П		Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 100.0% (A/B)		
				Prevalence Index worksheet:		
7						
Sapling/Shrub Stratum (Plot size: 15 )		= Total Cove	r	Total % Cover of: Multiply by:		
1 <sub>.</sub> Alnus incana	10	<b>✓</b>	FACW	OBL speci es 35 x 1 = 35		
2 Spiraea alba	10	<b>✓</b>	FACW	FACW species 105 x 2 = 210		
				FAC speciles x 3 =0		
3				FACU species $0 \times 4 = 0$		
4			-	UPL species $0 \times 5 = 0$		
5				Column Totals: 140 (A) 245 (B)		
6						
7	0			Prevalence Index = B/A = 1.750		
Herb Stratum (Plot size: 5 )	20=	= Total Cove	r	Hydrophytic Vegetation Indicators:		
Herb Stratum (1100 3120.				Rapid Test for Hydrophytic Vegetation		
1. Phalaris arundinacea	70	✓	FACW	✓ Dominance Test is > 50%		
2. Calamagrostis canadensis	15		OBL	✓ Prevalence Index is ≤3.0 ¹		
3. Onoclea sensibilis	15		FACW			
4. Carex lacustris			OBL	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				Problematic hydrophytic vegetation - (Explain)		
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7				be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9				Definitions of Vegetation Strata.		
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1	0			at breast height (DBH), regardless of height.		
2				Capling/abruh Wasdy plants loss than 2 in DRII and		
	120 =			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
Woody Vine Stratum (Plot size: 30				groater than 6.26 it (iii) tall		
1	0			Herb - All herbaceous (non-woody) plants, regardless of		
2	0			size, and woody plants less than 3.28 ft tall.		
3	0			Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
т.		= Total Cove		l nongra		
	=	= Total Cove	r			
				Hydrophytic Vegetation		
				Present? Yes • No		
Domarker (Include whete mumbers have an an a constant	noot \					
Remarks: (Include photo numbers here or on a separate sh	ieet.)					

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-51n21w24-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (in chas)	Matrix		Redox Features							
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc2	Texture	Rema	rks	
				-						
				-						
<sup>1</sup> Type: C=Cond	entration. D=Depletion	ı. RM=Redu	uced Matrix, CS=Covere	d or Coate	ed Sand Gra	ains <sup>2</sup> Locat	tion: PL=Pore Lining. M=Ma	atrix		
Hydric Soil I	ndicators:						Indicators for Proble	matic Hydric	Soils: 3	
Histosol (A			Polyvalue Belov	/ Surface	(S8) (LRR R					
Histic Epip	•		MLRA 149B)				2 cm Muck (A10) (			
Black Histi			☐ Thin Dark Surfa	ce (S9) (I	LRR R, MLR	A 149B)	Coast Prairie Redo			
	Sulfide (A4)		Loamy Mucky M	lineral (F1	) LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
_	ayers (A5)		Loamy Gleyed N	Matrix (F2)	)		Dark Surface (S7)			
	Below Dark Surface (A1	1)	Depleted Matrix	(F3)			Polyvalue Below Su			
	Surface (A12)	.,	Redox Dark Sur	face (F6)			Thin Dark Surface			
	ck Mineral (S1)		Depleted Dark S	Surface (F	7)		Iron-Manganese M			
_	yed Matrix (S4)		Redox Depressi				Piedmont Floodplain Soils (F19) (MLRA 149B)			
_			·				Mesic Spodic (TA6)		45, 149B)	
Sandy Red							Red Parent Materia			
Stripped N							☐ Very Shallow Dark Surface (TF12)			
☐ Dark Surfa	ice (S7) (LRR R, MLRA	149B)					✓ Other (Explain in R	temarks)		
<sup>3</sup> Indicators of	hydrophytic vegetation	and wetla	nd hydrology must be p	resent, un	less disturb	ed or proble	matic.			
Restrictive La	yer (if observed):									
Type:	,									
Depth (inch	196).						Hydric Soil Present?	Yes ⊙ I	No O	
•										
Remarks:										
No digging, p	otential buried utiliti	es. Soils a	ssumed hydric based	l on vege	etation and	d hydrology	y.			