WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County: Carlton	Sampling Date: 5/19/2014
Applicant/Owner: Enbridge	State: M	
Investigator(s): CPF/DGL		Township, Range:
Landform (hillslope, terrace, etc.): Side slope		concave, convex, none): CL
Slope (%): 60%+ Lat.: <u>46.604665</u> Soil Map Unit Name: 303E	Long.: -92.35361 Datu	m: NWI Classification:
Are climatic/hydrologic conditions of the site typical	for this time of the year?	(If no, explain in remarks)
Are vegetation, soil, or hydrole		
Are vegetation , soil , soil , or hydrole		
(If needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? N	Is the sampled area wit	hin a wetland? N
Hydric soil present? N		
Indicators of wetland hydrology present? N	If yes, optional wetland s	
Remarks: (Explain alternative procedures here or in	a separate report.)	
The point is located on a steep slope within	n a mixed conifer forest domi	nated by white spruce.
HYDROLOGY		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; che	ck all that apply)	Secondary Indicators (minimum of two required)
	ater-Stained Leaves (B9)	Surface Soil Cracks (B6)
	uatic Fauna (B13)	Drainage Patterns (B10)
	arl Deposits (B15)	Moss Trim Lines (B16)
	drogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
	idized Rhizospheres on ing Roots (C3)	 Crayfish Burrows (C8) Saturation Visible on Aerial Imagery
	esence of Reduced Iron (C4)	
	cent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
	ils (C6)	Geomorphic Position (D2)
	in Muck Surface (C7)	Shallow Aquitard (D3)
	her (Explain in Remarks)	Microtopographic Relief (D4)
Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface water present? Yes	Depth (inches):	Indicators of
Water table present? Yes Saturation present? Yes	Depth (inches): Depth (inches):	wetland hydrology
(includes capillary fringe)	Deptil (inches).	present? N
Describe recorded data (stream gauge, monitoring v	well, aerial photos, previous inspec	ctions), if available:
2		
Remarks:		
No wetland hydrology observed.		

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of pla	ants		Sampling Point: CR144b1U
			50/20 Thresholds
Tree Stratum Plot Size (30)	Absolute Dominant	Indicator	20% 50%
Thee Stratum Plot Size (50)	% Cover Species	Status	Tree Stratum 14 35
1 Picea glauca	50 Y	FACU	Sapling/Shrub Stratum 6 15
2 Abies balsamea	10 N	FAC	Herb Stratum 0 0
3 Populus tremuloides	10 N	FAC	Woody Vine Stratum 0 0
4			···· ,
5			Dominance Test Worksheet
6			Number of Dominant
7			Species that are OBL,
8			FACW, or FAC: 0 (A)
9			Total Number of Dominant
10			Species Across all Strata: 3 (B)
	70 = Total Cover		Percent of Dominant
			Species that are OBL,
Sonling/Shrub	Absolute Dominant	Indicator	•
Sapling/Shrub Plot Size (15)			FACW, or FAC: 0.00% (A/B)
Stratum	% Cover Species	Status	
1 Picea glauca	20 Y	FACU	Prevalence Index Worksheet
2 Corylus cornuta	10 Y	FACU	Total % Cover of:
3			OBL species $0 \times 1 = 0$
4			FACW species $0 \times 2 = 0$
5			FAC species $20 \times 3 = 60$
6			FACU species $80 \times 4 = 320$
7			UPL species $0 \times 5 = 0$
8			Column totals 100 (A) 380 (B)
9			Prevalence Index = $B/A = 3.80$
10			
	30 = Total Cover		
			Hydrophytic Vegetation Indicators:
	Absolute Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5)	% Cover Species	Status	Dominance test is >50%
1			Prevalence index is ≤3.0*
2			Morphogical adaptations* (provide
3			supporting data in Remarks or on a
4			separate sheet)
5			Problematic hydrophytic vegetation*
6			(explain)
7			*Indicators of hydric soil and wetland hydrology must be
8			present, unless disturbed or problematic
9			
10			Definitions of Vegetation Strata:
11			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
10			breast height (DBH), regardless of height.
10			
4.4			Sapling/shrub - Woody plants less than 3 in. DBH and
14 15			greater than 3.28 ft (1 m) tall.
	0 = Total Cover		
			Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine Dist Size (20)	Absolute Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30)	% Cover Species	Status	Meedy vince All woods vince greater than 2.20 ft in
1		Otatus	Woody vines - All woody vines greater than 3.28 ft in height.
2			neight.
		-	
3			
4			Hydrophytic
5			vegetation
	0 = Total Cover		present? N
Remarks: (Include photo numbers here or on a sep			

The site is dominated by white spruce in the canopy with bare soil underneath.

SOIL									San	npling Point: CR144b1U
Profile	Description:	(Describe	to the d	epth needed t	o docume	nt the i	ndicator or	confirm	the absence	of indicators.)
Depth		Matrix			Redox I	Feature	es			
(In.)		(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	Remarks
18	Hue 2.5YR	4/3	100	, , , , , , , , , , , , , , , , , , ,					С	
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**										
			•	, RM=Reduce	a Matrix, C	S=Co	vered or Co	bated Sa	ind Grains	
	tion: PL=Por Soil Indica		=iviatrix					Indica	tors for Prob	lematic Hydric Soils:
☐ Histic Epipedon (A2) ☐ (S8) (LRR R, MLRA ☐ Black Histic (A3) ☐ Thin Dark Surface (S ☐ Hydrogen Sulfide (A4) ☐ (LRR R, MLRA 149E ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral ☐ Depleted Below Dark Suface (A11) ☐ (LRR K, L) ☐ Thick Dark Surface (A12) ☐ Loamy Gleyed Matrix (F3) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Matrix (F3) ☐ Sandy Redox (S5) ☐ Depleted Dark Surface ☐ Stripped Matrix (S6) ☐ Redox Depressions (Dark Surface (S7) (LRR R, MLRA ☐ 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be point			S9) B ral (F1) ix (F2)) e (F6) ace (F7) (F8)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 1491 Mesic Spodic (TA6) (MLRA 144A, 145, 1498 Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) unless disturbed or problematic						
Type:	tive Layer (ii (inches):	f observed):						Hydrid	c soil presen	t? <u>N</u>
	Remarks: No hydric soil indicators were observed.									