

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 2015-07-14
Applicant/Owner: Enbridge State: Minnesota Sampling Point: CRC5054a2U_R
Investigator(s): JWT/DGL Section, Township, Range: sec2 T47N R20W
Landform (hillslope, terrace, etc.): talf Local Relief (concave, convex, none): LL Slope (%): 0-2%
Subregion (LRR or MLRA): LRR K Latitude: 46.5918188402... Longitude: -92.83468035... Datum: Minnesota State ...
Soil Map Unit Name: 43b NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks):

Yes
_____Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? YesAre Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	
Remarks: (Explain alternative procedures here or in a separate report.) The upland point is located within a weedy, early successional community slightly upslope from the wetland along a roadside.		

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		_____ Surface Soil Cracks (B6)
_____ Surface Water (A1)	_____ Water-Stained Leaves (B9)	_____ Drainage Patterns (B10)
_____ High Water Table (A2)	_____ Aquatic Fauna (B13)	_____ Moss Trim Lines (B16)
_____ Saturation (A3)	_____ Marl Deposits (B15)	_____ Dry-Season Water Table (C2)
_____ Water Marks (B1)	_____ Hydrogen Sulfide Odor (C1)	_____ Crayfish Burrows (C8)
_____ Sediment Deposits (B2)	_____ Oxidized Rhizospheres on Living Roots (C3)	_____ Saturation Visible on Aerial Imagery (C9)
_____ Drift Deposits (B3)	_____ Presence of Reduced Iron (C4)	_____ Stunted/Stressed Plants (D1)
_____ Algal Mat or Crust (B4)	_____ Recent Iron Reduction in Tilled Soils (C6)	_____ Geomorphic Position (D2)
_____ Iron Deposits (B5)	_____ Thin Muck Surface (C7)	_____ Shallow Aquitard (D3)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Other (Explain in Remarks)	_____ Microtopographic Relief (D4)
_____ Sparsely Vegetated Concave Surface (B8)		_____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? <u>No</u> Depth (inches) _____ Water Table Present? <u>No</u> Depth (inches) _____ Saturation Present? <u>No</u> Depth (inches) _____ (includes capillary fringe)		Wetland Hydrology Present? <u>No</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: The upland point is located slightly upslope from the wetland. No wetland hydrology indicators were observed.		

VEGETATION - Use scientific names of plants.

 Sampling Point: CRC5054a...

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30 ft</u>)				Dominance Test worksheet:
1. <u>Populus tremuloides</u>	<u>15.00</u>	<u>Yes</u>	<u>FACU</u>	Number of Dominant Species
2. <u>Acer rubrum</u>	<u>5.00</u>	<u>Yes</u>	<u>FAC</u>	That Are OBL, FACW, or FAC: <u>2</u> (A)
3. _____	_____	_____	_____	Total Number of Dominant
4. _____	_____	_____	_____	<u>4</u>
5. _____	_____	_____	_____	Species Across All Strata: _____ (B)
6. _____	_____	_____	_____	Percent of Dominant Species
7. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>50</u> (A/B)
	<u>20</u>	= Total Cover		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot Size: <u>15 ft</u>)				Total % Cover of:
1. <u>Picea glauca</u>	<u>25.00</u>	<u>Yes</u>	<u>FACU</u>	Multiply by:
2. <u>Populus tremuloides</u>	<u>15.00</u>	<u>Yes</u>	<u>FACU</u>	OBL species <u>0.00</u> x 1 <u>0</u>
3. <u>Corylus cornuta</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	FACW species <u>10.00</u> x 2 <u>20</u>
4. <u>Acer rubrum</u>	<u>5.00</u>	<u>No</u>	<u>FAC</u>	FACU species <u>45.00</u> x 3 <u>180</u>
5. _____	_____	_____	_____	UPL species <u>70.00</u> x 4 <u>350</u>
6. _____	_____	_____	_____	Column Totals <u>170</u> (A) <u>685</u> (B)
7. _____	_____	_____	_____	Prevalence Index = B/A = <u>4.0294117...</u>
	<u>50</u>	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: <u>5 ft</u>)				_____ 1 - Rapid Test for Hydrophytic Vegetation
1. <u>Hieracium aurantiacum</u>	<u>65.00</u>	<u>Yes</u>		<u>no</u> 2 - Dominance Test is > 50%
2. <u>Fragaria virginiana</u>	<u>15.00</u>	<u>No</u>	<u>FACU</u>	<u>no</u> 3 - Prevalence Index is ≤ 3.0 ¹
3. <u>Leucanthemum vulgare</u>	<u>5.00</u>	<u>No</u>	<u>UPL</u>	_____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Solidago gigantea</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Phalaris arundinacea</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. <u>Prunella vulgaris</u>	<u>5.00</u>	<u>No</u>	<u>FAC</u>	Definitions of Vegetation Strata:
7. _____	_____	_____	_____	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
8. _____	_____	_____	_____	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9. _____	_____	_____	_____	Herb - All herbaeaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10. _____	_____	_____	_____	Woody vines - All woody vines greater than 3.28 ft in height.
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>100</u>	= Total Cover		
Woody Vine Stratum (Plot Size: <u>30 ft</u>)				Hydrophytic Vegetation Present? _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet.)				
Weedy early successional community with planted white spruce as well as quaking aspen and red maple saplings.				

SOIL

Sampling Point: CRC5054a...

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soil ³ :
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)	☐ Coast Prairie Redox (A16)(LRR K, L, R)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR K, L)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)	☐ Dark Surface (S7) (LRR K, M)
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)	☐ Polyvalue Below Surface (S8) (LRR K, L)
☐ Depleted Below Dark Surface (A11)	☐ Redox Dark Surface (F6)	☐ Thin Dark Surface (S9) (LRR K, L)
☐ Thick Dark Surface (A12)	☐ Depleted Dark Surface (F7)	☐ Iron-Manganese Masses (F12) (LRR K, L, R)
☐ Sandy Mucky Mineral (S1)	☐ Redox Depressions (F8)	☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
☐ Sandy Gleyed Matrix (S4)		☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Sandy Redox (S5)		☐ Red Parent Material (F21)
☐ Stripped Matrix (S6)		☐ Very Shallow Dark Surface (TF12)
☐ Dark Surface (S7) (LRR R, MLRA 149B)		☐ Other (explain in remarks)
Restrictive Layer (if observed): ☐	Hydric Soil Present? <u>No</u>	
Type: _____ Depth (inches): _____		
Remarks:		
Soils were not examined as the sample point is located along a roadside. Soils are assumed to be non-hydric based on the landscape position and dominant vegetation.		