WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Ca	ass	Sampl	ing Date: 2016-08-04	
Applicant/Owner: Enbridge		State: Minnesota	Sampli	ng Point: <u>u-139n25w8-aw1</u>	
Investigator(s): DPT, MGH	Section, ´	Township, Range: S8, T139	N, R25W		
Landform (hillslope, terrace, etc.): Rise	<u>, </u>	Local Relief (conca	ive, convex, none): VL	Slope (%): 0-2%	
Subregion (LRR or MLRA):	 Lati	itude: 46.8707059650	Longitude: -93.86344271	Datum: NAD83	
Soil Map Unit Name: 144B			-	assification: N/A	
Are climatic/hydrologic conditions on	the site typical for this time	e of vear? (if no. explain in P		Yes	
Are Vegetation No , Soil No , or H			•		
Are Vegetation No_, Soil No_, or Hy	drology No naturally pro	oblematic? (If needed, expl	ain any answers in Remarks)		
SUMMARY OF FINDINGS - Attach s	ite map showing sampling	point locations, transects,	important features, etc.		
Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Are	ea		
Hydric Soil Present?	<u>No</u>	within a Wetland?	?	No	
Wetland Hydrology Present?	<u>No</u>	If yes, optional We	etland Site ID:		
Remarks: (Explain alternative procedu	ares here or in a separate r	eport.)			
No digging, existing road, possible bu	ried utilities.				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is	required; check all that ar	ylqc)	Surface So	oil Cracks (B6)	
Surface Water (A1)	Water-Stai	Water-Stained Leaves (B9)		Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fa	una (B13)	Moss Trim	Moss Trim Lines (B16)	
Saturation (A3)	Marl Depos	sits (B15)	Dry-Seaso	n Water Table (C2)	
Water Marks (B1)	Hydrogen S	Sulfide Odor (C1)	Crayfish Bu	rrows (C8)	
Sediment Deposits (B2) Oxidize		hizospheres on Living Roots (C3)	Saturation	Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence o	of Reduced Iron (C4)	Stunted/St	ressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron	n Reduction in Tilled Soils (C6)	Geomorph	Geomorphic Position (D2)	
Iron Deposits (B5) Thin Mu		Surface (C7)	Shallow Aq	uitard (D3)	
Inundation Visible on Aerial Imagery (I	B7) Other (Exp	lain in Remarks)	Microtopo	graphic Relief (D4)	
Sparsely Vegetated Concave Surface (I	B8)		FAC-Neutra	al Test (D5)	
Field Observations:					
Surface Water Present?	No Depth	(inches)			
Water Table Present?	Depth	(inches)			
Saturation Present?	No Depth	(inches)	Wetland Hydrology P	resent? <u>No</u>	
(includes capillary fringe)					
Describe Recorded Data (stream gaug	e, monitoring well, aerial p	hotos, previous inspections), if available:		
Remarks:					
No digging, could not verify water tab	le.				

Sapling/Shrub Stratum (Plot Size: 15

Tree Stratum

1. Corylus cornuta

2. Alnus incana

(Plot Size: 30

Absolute

% Cover

10.00

5.00

Dominant

Species?

= Total Cover

Yes

Yes

Indicator

Status

UPL

FACW

J				_ invalophytic vegetation mulcators.
6				1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	15	_ = Total Cover		<u>no</u> 3 - Prevalence Index is $\le 3.0^1$
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations ¹ (Provide
1. Trifolium pratense	25.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Plantago major	20.00	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Poa pratensis	20.00	Yes	FACU	Indicators of hydric soil and wetland hydrology must be present, unless
4. Trifolium repens	10.00	No	FACU	disturbed or problematic.
5. Phleum pratense	10.00	No	FACU	Definitions of Vegetation Strata:
6. Solidago gigantea	5.00	No	FAC	_
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8				height (DBH), regardless of height.
9		_	_	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
10				or equal to 3.28 ft (1 m) tall.
				Herb - All herbaeceous (non-woody) plants, regardless of size, and
11				woody plants less than 3.28 ft tall.
12.	90	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30)		= 10(a) COVEI		
1. (Plot Size: 30				
				— Hydrophytic
2				Vegetation
3			_	Present? No No
4			_	-
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate shee	et.)			
LIS Army Corps of Facinacies				Northcentral and Northeast Region – Version 2.0
US Army Corps of Engineers				version and morniess negion – version 2.0

Sampling Point: u-139n25... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Loc² (inches) Color (moist) Color (moist) % Type¹ Texture Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) 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-Maganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) 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? No Depth (inches): Remarks: No digging, soils assumed non-hydric based on veg and hydro.

Site Photograph 1 Sampling Point: u-139n25w8-aw1



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Latitude: 46.8707029056241	Cowardin Classification:
Longitude: -93.8634565473477	Circular 39:
Direction: north	Eggers & Reed:
Remarks:	
Upland	
1	

Site Photograph 2 Sampling Point: u-139n25w8-aw1



Latitude: 46.8707794743095	Cowardin Classification:
Longitude: -93.863449338911	Circular 39:
ection: south	Eggers & Reed:
marks:	
land	