WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Hubbard ity/County:		Sampling Date	2015-07-07 Sampling Date:	
Applicant/Owner:			Minnesota State:	HUC5071b1U Sampling Point:		
KAT/ Investigator(s):	ВЕН	Sec	tion, Township, Range:			
Landform (hillslope, terrace, etc.):	Foot Slone		Local Relief (concave,	convex, none):		
Subregion (LRR or MLRA):		Latitude:	7.05997400 Lo	-95.142699833 ongitude: Da	Minnesota State tum:	
Soil Map Unit Name:				NWI Classificat	on:	
Are climatic/hydrologic conditions	on the site typic	al for this time of year	? (if no, explain in Rema	arks):	Yes	
Are Vegetation No No No No	N , or Hydrology	o significantly distur	bed? Are "Normal Circ	Yes cumstances" present?		
Are Vegetation No Soil No , c	No					
SUMMARY OF FINDINGS - Atta	ich site map sho	wing sampling point lo	ocations, transects, imp	oortant features, etc.		
Hydrophytic Vegetation Present?	lydrophytic Vegetation Present?		Is the Sampled Area			
No Hydric Soil Present?		No	within a Wetland?			
		No	If yes, optional Wetland Site ID:			
Wetland Hydrology Present? Remarks: (Explain alternative pro			ii yes, optional wedan	——————————————————————————————————————		
				_		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (m	inimum of two required)	
Primary Indicators (minimum of o	ne is required; cl	neck all that apply)		Surface Soil Cracks	(B6)	
Surface Water (A1) Water-St		Water-Stained Leav	es (B9)	Drainage Patterns (B10)		
High Water Table (A2) Aquatic I		Aquatic Fauna (B13))	Moss Trim Lines (B16)		
Saturation (A3) Marl De		Marl Deposits (B15)		Dry-Season Water Table (C2)		
—— Water Marks (B1)	Water Marks (B1) Hydroge		dor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	=	Oxidized Rhizospher	res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	-	Presence of Reduce	d Iron (C4)	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)	-	Recent Iron Reducti	on in Tilled Soils (C6)	Geomorphic Position	Geomorphic Position (D2)	
Iron Deposits (B5)	_	Thin Muck Surface (C7)	Shallow Aquitard (C	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imag	gery (B7)	Other (Explain in Re	marks)	Microtopographic F	elief (D4)	
Sparsely Vegetated Concave Surf	face (B8)			FAC-Neutral Test (D	5)	
Field Observations:						
Surface Water Present?	No	Depth (inches)				
Water Table Present?	<u>No</u>	Depth (inches)				
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydrology Present?	<u>No</u>	
(includes capillary fringe)						
Describe Recorded Data (stream g	gauge, monitorin	g well, aerial photos, p	revious inspections), if a	available:		
Remarks:				· · · · · · · · · · · · · · · · · · ·		
	l budrologu indica	store word observed				
No primary or secondary wetland	nyarology indica	ators were observed.				
î .						

VEGETATION - Use scientific names of plants.

Sampling Point: <u>HUC5071b...</u>

	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species				
1	_			That Are OBL, FACW, or FAC: 0(A)				
2				Total Number of Dominant				
				2				
3				Species Across All Strata: (B)				
4				Percent of Dominant Species				
5	_			0 That Are OBL, FACW, or FAC:(A/B)				
6				Prevalence Index worksheet:				
7				Total % Cover of: Multiply by:				
		= Total Cover	_	OBL species 0.00 x 1 0				
Sapling/Shrub Stratum (Plot Size:)		_		FACW species 5.00 x 2 10				
1.				FACU species 0.00 x 3 300				
2	-			UPL species 5.00 x 4 25				
3.	-			Column Totals 85 (A) 335 (B)				
4				Prevalence Index = B/A = 3.9411764				
5	-	_	_					
		_	_	Hydrophytic Vegetation Indicators:				
6				1 - Rapid Test for Hydrophytic Vegetation				
7		Total Carra	_	no 2 - Dominance Test is > 50% no 3 - Prevalence Index is $\leq 3.0^{1}$				
Herb Stratum (Plot Size: 5'	<u>0</u>	_ = Total Cover						
Phleum pratense	30.00	Vos	FACIL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
Lotus corniculatus	30.00	Yes	FACU FACU	- Durble works the described to Manager 1/2				
Laliancia balianthaidea	25.00	Yes No.	FACU FACU	Problematic Hydrophytic Vegetation ¹ (Explain)				
3. Solidago canadensis	10.00	No No	FACU FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless				
5 Solidago gigantea	_ 10.00	No No	FACU	disturbed or problematic.				
Bromus inermis	5.00	No No	FACW	Definitions of Vegetation Strata:				
	_ 5.00	_ No	UPL	-				
7	-		_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.				
8	-	<u> </u>	<u> </u>	-				
9	-		_	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
10				_				
11	·			Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
12	·			—				
	85	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.				
Woody Vine Stratum (Plot Size:)								
1				_[
2				Hydrophytic				
3				Vegetation Present?				
4	_							
	0	=Total Cover						
Remarks: (include photo numbers here or on a separate she	et.)							
The sample site is dominated by timothy and bird's-foot trefoil.								

SOIL Sampling Point: HUC5071... Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Redox Features** Type^{1} Loc² (inches) Color (moist) % Color (moist) Texture Remarks 0-6 10YR 2 1 100 CL 6-15 10YR 3 2 100 С 15-21 2.5Y 6 4 75 10YR 5 6 10 С M SICL 15-21 2.5Y 7 1 15 SICL Mixed matrix. 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 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16)(LRR K, L, R) Histic Epipedon (A2) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) Dark Surface (S7) (LRR K, M) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Iron-Maganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Sandy Redox (S5) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Other (explain in remarks) Dark Surface (S7) (LRR R, MLRA 149B)

Soil is dark clay loam underlain by dark brown clay. Bottom layer is light brown silty clay loam with redox concentrations; the profile does not meet a hydric soil indicator.

Hydric Soil Present? No

Restrictive Layer (if observed):

Depth (inches):

Type:

Remarks: