WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site:	oject/Site: City/County:				Sampling Date:			
Applicant/Owner:			Minnesota State:	S	CRC5110b1	1W		
KRG/ACM Investigator(s):			Section, Township, Range:					
de Landform (hillslope, terrace, etc.):	pression			/e, convex, none):				
Subregion (LRR or MLRA):		46 Latitude:	6.5845186217	-92.62883 Longitude:	3255 Minnes Datum:	sota State		
Soil Map Unit Name:				N	WI Classification: PFO/SSB	3		
Are climatic/hydrologic conditions on	the site typical	I for this time of year	r? (if no. explain in Re	emarks):	Yes			
No No		·		•	Yes			
Are Vegetation, Soil, or		significantly distu	rbed? Are "Normal C	Circumstances" present	i?			
Are Vegetation No	No lydrology	naturally problemat	tic? (If needed, expla	ain any answers in Rem	narks)			
SUMMARY OF FINDINGS - Attach	site map show	ing sampling point lo	ocations, transects, i	mportant features, etc	с.			
		'es						
Hydrophytic Vegetation Present?	······································	Is the Sampled Area						
Yes Hydric Soil Present?		<u>—</u>	within a Wetland?		Yes			
Wetland Hydrology Present?	Y	es	If yes, optional We	tland Site ID:				
Remarks: (Explain alternative proced	- Iures here or in	a separate report.)						
The wetland is a hardwood swamp s	surrounded by f	ire-dependent fores	t. Vegetation is domi	inated by balsam popla	ar and Canada blueioint.			
HYDROLOGY								
				<u> </u>		1		
Wetland Hydrology Indicators:				Secondary	Indicators (minimum of tw	<u>vo requirea)</u>		
Primary Indicators (minimum of one	is required; che	ck all that apply)		Su	rface Soil Cracks (B6)			
Surface Water (A1) Water-Stain			res (B9)	Dra	Drainage Patterns (B10)			
High Water Table (A2) Aquatic Faul)	Mo	Moss Trim Lines (B16)			
yes Saturation (A3) Marl Deposi)	Dry	_ Dry-Season Water Table (C2)			
Water Marks (B1) Hydrogen Su			• •	Cra	Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rh			res on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Presence of			ed Iron (C4)	wos.	Stunted/Stressed Plants (D1)			
			ion in Tilled Soils (C6)		Geomorphic rosition (B2)			
Iron Deposits (B5) Thin Muck S					Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Expl.			emarks)	voc	yes FAC-Neutral Test (D5)			
Sparsely Vegetated Concave Surface	(B8)			FAC	C-Neutral Test (D5)			
Field Observations:	No	Donth linches	١					
Surface Water Present? Water Table Present?	No	Depth (inches Depth (inches						
Saturation Present?	Yes	Depth (inches	•	Wetland Hydro	logy Present?	Yes		
(includes capillary fringe)		Depth (menes) 	Wetiana nyaro	logy i resent:			
Describe Recorded Data (stream gauge	ge, monitoring	well, aerial photos, p	previous inspections)	, if available:				
		, , , , , , , ,						
Remarks:								
The wetland is within a depressional	area and soil is	saturated at 10 inch	100					
The wettand is within a depressional	arca aria son is	saturated at 10 mer	103.					

US Army Corps of Engineers

Sampling Point: CRC5110b...

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot Size: <u>30</u>	% Cover	Species?	Status	Number of Dominant Species		
1. Populus balsamifera	25.00	Yes	FACW	That Are OBL, FACW, or FAC: ³ (A)		
2. Ulmus americana	10.00	Yes	FACW	Total Number of Dominant		
Potula papyrifora				3		
3. Betula papyrifera	5.00	No	FACU	Species Across All Strata: (B)		
4	·			Percent of Dominant Species		
5	·			That Are OBL, FACW, or FAC:(A/B)		
6	·			Prevalence Index worksheet:		
7				Total % Cover of: Multiply by:		
	40	= Total Cover		OBL species <u>72.00</u> x 1 <u>72</u>		
Sapling/Shrub Stratum (Plot Size: 15)				FACW species <u>122.00</u> x 2 <u>244</u>		
1. Populus balsamifera	20.00	Yes	FACW	FACU species <u>4.00</u> x 3 <u>60</u>		
2. Spiraea alba	5.00	No	FACW	UPL species <u>2.00</u> x 4 <u>10</u>		
3. Fraxinus nigra	5.00	No	FACW	Column Totals(A)		
4. Corylus cornuta	5.00	No	FACU	Prevalence Index = B/A = <u>1.8511627</u>		
5. Viburnum lentago	2.00	No	FAC			
6				1 - Rapid Test for Hydrophytic Vegetation		
7				yes 2 - Dominance Test is > 50%		
	37	_ = Total Cover		<u>yes</u> 3 - Prevalence Index is ≤ 3.0 ¹		
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations ¹ (Provide		
1. Calamagrostis canadensis	60.00	Yes	OBL	supporting data in Remarks or on a separate sheet)		
2. Rubus pubescens	25.00	No	FACW	_ Problematic Hydrophytic Vegetation ¹ (Explain)		
3. Carex stricta	10.00	No	OBL			
4. Impatiens capensis	10.00	No	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
5. Solidago gigantea	10.00	No	FACW	Definitions of Vegetation Strata:		
6. Thalictrum dioicum	5.00	No	FACU			
7. Populus balsamifera	5.00	No	FACW	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast		
8. Equisetum pratense	5.00	No	FACW	height (DBH), regardless of height.		
9. Ribes hirtellum	2.00	No	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than		
10. Cicuta maculata	2.00	No	OBL	or equal to 3.28 ft (1 m) tall.		
11. Ranunculus abortivus	2.00	No	FAC	Herb - All herbaeceous (non-woody) plants, regardless of size, and		
12. Asarum canadense	2.00	No	UPL	woody plants less than 3.28 ft tall.		
12.	138	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.		
Woody Vine Stratum (Plot Size: 30		= 10tal covel		woody vines greater than 3.20 te in neight.		
1.						
	_			Hydrophytic		
2	_			Vegetation		
3				Present?		
4	0	Tatal Cause	-	-		
Describes (include abote or other by		=Total Cover				
Remarks: (include photo numbers here or on a separate she						
Vegetation is dominated by balsam poplar in the tree and sag	oling strata with Car	nada biuejoint belov	N.			

Sampling Point: CRC5110b... SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Redox Features** Type¹ Loc² (inches) Color (moist) % Color (moist) Texture Remarks 0-4 10YR 2 1 100 sic 4-13 10YR 2 2 95 7.5YR 5 8 5 С Μ rocky С 13-24 10YR 2 1 65 5YR 58 5 С M 13-24 2.5Y 4 3 30 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) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) 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 consists of silty clay over clay with redox features common. The second layer contains many large rocks. Soil meets hydric indicator F6.

Hydric Soil Present? Yes

Restrictive Layer (if observed):

Depth (inches):

Type:

Remarks: