WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Sandpipe	r	City/County: N	Vadena	Sampling Date: (09/15/2014	
Applicant/Owner: Enbrid	dge	S	State: MN	Sampling Po	int: WA015a1W	
Investigator(s): DPT	Investigator(s): DPT Section, Township, Range:					
Landform (hillslope, terrad	ce, etc.): Depression	Loca	I relief (con	cave, convex, none): (Concave/Concave	
Slope (%): 0 La	at.: Long.:		Datum:			
Soil Map Unit Name				NWI Classification:		
Are climatic/hydrologic co	onditions of the site typical for this	time of the year?		(If no, explain in remarks	5)	
Are vegetation,	soil, or hydrology	significantly of	disturbed?	Are "normal		
u	soil, or hydrology	naturally prol	blematic?	circumstances" p	present? Yes	
(If needed, explain any answers in remarks)						

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	Y Y	Is the sampled area within a wetland?	<u> </u>			
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:W	A015a1W			
Remarks: (Explain alternative procedures here or in a separate report.)						
PSS - Type 6, shrub-carr						

HYDROLOGY				
		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is requi	required)			
X Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
X High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)		
X Saturation (A3)	Marl Deposits (B15)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes X	No Depth (inches): 1	Indicators of		
Water table present? Yes X	No Depth (inches):	wetland		
Saturation present? Yes X	No Depth (inches):	hydrology		
(includes capillary fringe)		present? Y		
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspe-	ctions), if available:		
Remarks:				
Remarks.				

VEGETATION - Use scientific names of plants

Plot Size (

Plot Size (

30 ft

15 ft

)

)

Tree Stratum

Sapling/Shrub

Stratum

1

2

3

4 5

6

7

8

9

10

Sampling Point: WA015a1W 50/20 Thresholds 20% 50% Tree Stratum 0 0 Sapling/Shrub Stratum 40 16 Herb Stratum 53 21 Woody Vine Stratum 0 0 Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across all Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B) Prevalence Index Worksheet

1 Alnus incana	50	Y	FACW	Prevalence Index Worksheet
2 Salix bebbiana	20	Y	FACW	Total % Cover of:
3 Populus tremuloides	5	N	FAC	OBL species 95 x 1 = 95
4 Rubus idaeus	5	N	FAC	FACW species 80 x 2 = 160
5				FAC species $10 \times 3 = 30$
6				FACU species $0 \times 4 = 0$
7				UPL species 0 x 5 = 0
8				Column totals 185 (A) 285 (B)
9				Prevalence Index = $B/A = 1.54$
10				
	80	= Total Cover		
				Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5 ft)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
	% Cover	Species	Status	X Dominance test is >50%
1 Carex lacustris	60	Y	OBL	X Prevalence index is $\leq 3.0^*$
2 Calamagrostis canadensis	30	Y	OBL	Morphogical adaptations* (provide
3 Thelypteris palustris	10	<u>N</u>	FACW	supporting data in Remarks or on a
4 Symphyotrichum puniceum	5	<u>N</u>	OBL	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
12		. <u> </u>		breast height (DBH), regardless of height.
13		·		
14				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
15	105	= Total Cover	·	greater than 3.28 ft (1 m) tail.
	105			Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size ()	% Cover	Species	Status	
1	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height.
2		·		neight.
3		·		
4		·		
·		·		Hydrophytic
5		Tatal O	·	vegetation
	0	= Total Cover		present? Y
Remarks: (Include photo numbers here or on a separa	ale sneet)			

Dominant

Species

= Total Cover

Dominant

Species

Absolute

% Cover

0

Absolute

% Cover

Indicator

Status

Indicator

Status

SOIL Sampling Point: WA015a1W								
Profile Des	cription: (Descril	be to th	e depth needed	to docu	ment the	indicato	or or confirm the absence	e of indicators.)
Depth	oth Matrix			lox Feat			Texture	Remarks
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**		Komanto
0-30	10YR 2/1	100					Muck	
*Type: C=C	Concentration, D=	Depleti	on, RM=Reduce	d Matrix	x. CS=C	overed o	r Coated Sand Grains	
	PL=Pore Lining,				.,			
Hydric Soi	I Indicators:						Indicators for Prob	lematic Hydric Soils:
Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1 Sandy Redox (S5) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)					at or Peat (S3) (LRR K, L, R) 57) (LRR K, L 77) (LRR K, L 78) Surface (S8) (LRR K, L) 59 (LRR K, L) 50 Masses (F12) (LRR K, L, R) 50 plain Soils (F19) (MLRA 149B) 56) (MLRA 144A, 145, 149B) 56) (MLRA 144A, 145, 149B) 57) erial (F21) 58 59 50 50 50 50 50 50 50 50 50 50			
Restrictive Layer (if observed): Type: Depth (inches):				-	Hydric soil present? Y			
Remarks:								