NEW ENGLAND DISTRICT WETLAND DELINEATION DATASHEET AND SUPPLEMENTAL INFORMATION

(Revised 1JUL00)

DATASHEET NOTES

<u>VEGETATION</u> – for each stratum below, identify every species that has at least 1% cover of the observation plot (see DEFINITIONS below).

STRATA

OBSERVATION PLOT (radius from center)

SEEDLINGS & HERBS - woody, less than 3' tall, or nonwoody, any height 5'
MOSSES & LIVERWORTS - only when an important component of the community 5'
SAPLINGS - woody, nonclimbing, between 0.4 and 5" dbh and at least 20' tall 15'
SHRUBS - woody, nonclimbing, between 3 and 20' tall 15'
TREES - woody, nonclimbing, at least 5" dbh and at least 20' tall 30'
VINES - woody vines, climbing on trees, shrubs, or saplings 30'

DOMINANCE MEASURE - estimated for each species in each stratum as follows:

Trees – basal area (cross-sectional area at breast height (4.5')).

Vines - number of stems (at ground level) or basal area, as appropriate.

Other Strata - percent areal coverage (i.e., estimated peak growing season foliage).

TOTAL DOMINANCE MEASURE - the sum of the dominance measures of all species in a stratum.

DOMINANCE RATIO = DOMINANCE MEASURE FOR A SPECIES / TOTAL DOMINANCE MEASURE FOR STRATUM (represented as a fraction)

PERCENT DOMINANCE = DOMINANCE RATIO X 100%

DOMINANT VEGETATION - For each stratum of the plot, list the species that, when ranked in descending order of PERCENT DOMINANCE and cumulatively totaled, immediately exceed 50% of the TOTAL DOMINANCE MEASURE for the stratum. List any additional species that individually comprise 20% or more of the TOTAL DOMINANCE MEASURE for that stratum. If the total does not equal at least 50%, include species in descending order of percent dominance until the total reaches at least 50%. If several species have the same percent dominance, include all at that percentage.

HYDROPHYTIC VEGETATION - Dominant when more than 50% of the DOMINANT VEGETATION are within the range OBL through FAC on the current <u>National List of Plant Species That Occur in Wetlands: Northeast (Region 1)</u>. Species with NA or NI status are reported but are not included in the tally on the datasheet. With the exception of FAC, the + and - signs are ignored when processing the wetland indicator status data, i.e., FACW+, FACW-, FAC+, FACU+, and FACU - are considered FACW, FAC, and FACU, respectively.

Individual plants may be considered hydrophytes when those individuals display morphological or physiological adaptations to wetland hydrology and are within the observation plot. Such plants should be noted with an asterisk (*) on the datasheet. Observable plant adaptations to wetland hydrology include:

Pneumatophores Polymorphic Leaves Buttressed Trees Hypertrophied Lenticels
Stooling Inflated Leaves, Stems, or Roots Adventitious Roots Rhizospheric Oxidation

Shallow Root Systems Floating Leaves Floating Stems

HYDROLOGY

WETLAND HYDROLOGY - permanent or periodic inundation, or soil saturation for a significant period (in New England, usually two weeks or more), during the growing season. Hydrology is often the most difficult feature to observe. Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alteration, etc. Interpretation of hydrology may require repeated observation over more than one season. Evidence must occur during the growing season or reflect conditions during the growing season. Observable evidence of hydrology includes:

Inundation Soil Saturation in Upper Portions Water Marks

Drift Lines Sediment Deposits Drainage Patterns within Wetland

SOILS

HYDRIC SOIL - a soil that is saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part.

SOIL SURFACE- The reference point (0") for depth measurements varies depending on the soil conditions. 1) For organic soils (Histosols) and soils with an organic surface horizon greater than 8" (histic epipedon), the point of measurement is the top of the part of the O-horizon that is at least slightly decomposed. Fresh leaf or needle fall that has not undergone observable decomposition is excluded from soil and may be described separately. 2) For mineral soils lacking an organic surface horizon greater than 8", the surface is the top of the mineral soil horizons.

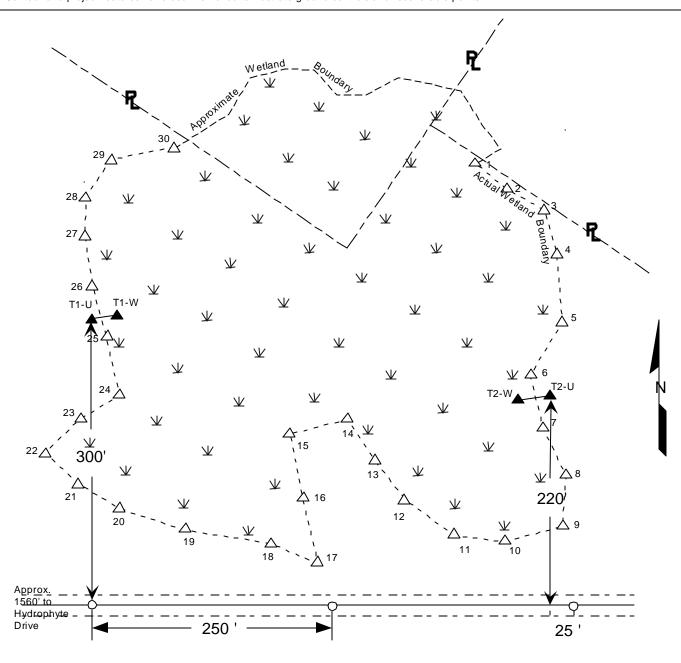
DEFINITIONS

OBSERVATION PLOT - Sites along a transect where the details about vegetation, soils, and hydrology are observed and recorded. Minimally, one observation plot upgradient and one downgradient from the wetland boundary will be recorded. Together, these two points are the delineator's reasoning behind his/her wetland boundary. It is important that these plots are fair representations of the site conditions along the boundary. It is also important that the two documented plots can be recovered and confirmed by the authenticating agency. Typically, the centers of these two plots should be 15 to 30' from each other; however, broad transitions may necessitate a wider separation. Plot locations must be recoverable from a known station.

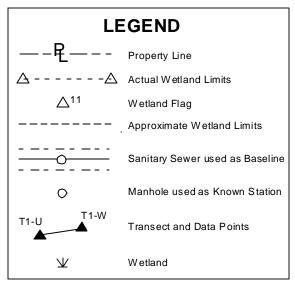
KNOWN STATION - An easily recognizable, accessible, and reasonably permanent cultural or natural feature used as a reference point for horizontal survey control and included in the plan of the project site. A known station must be available within 1000' of all recorded observation plots. Where such reference points are not available, known stations should be established by land survey, visibly marked and illustrated on the plan view. The land survey must be verifiable with an accuracy of 1/500 ratio of error. [Note: If a Differential Global Positioning System is used to establish the known stations, we request that the stations be established at well-defined nodes along the wetland boundary. We also request that geographic coordinates (latitude and longitude) be reported to the nearest 1/10th second.]

BASELINE – A wetland survey control feature used to establish and recover locations of transects and observation points. It is usually parallel to the watercourse or perpendicular to the hydrologic gradient. The length of the baseline may be used to guide the minimum number of transects.

TRANSECT - A line on the ground along which observations are made. Transects are used to represent conditions along the boundary of Federal jurisdiction. The number of transects must be sufficient to insure that all plant community types in the impact area along the wetland/non-wetland interface are revealed in the sampling. Generally, transects will be sampled at a rate of 3 per linear mile of baseline and increase at a rate of 1 transect per additional 0.5 mile of baseline length. Ideally, the intervals between transects should be equal; however, this consideration is subordinate to the stated need to sample all plant community types and the need to represent conditions in close proximity to the areas of the impacts.



FEDERAL WETLAND BOUNDARY PROPERTY OF Reginald and Regina O'Day Joru, RI Datum: NGVD = 0.0 0 50 100 Scale in feet



PROJECT TITLE:	TRANSECT:	PLOT:				
DELINEATOR(S):	DATE:					
VEGETATION Stratum and Species	Dominance	Percent Dominance D O M NWI Status				
HYDROPHYTES	NON-HYDROPHYTES	,				
OBL FACW FAC *OTHER FAC- FACU UPL Hydrophytes Subtotal (A): Non-hydrophytes Subtotal (B): PERCENT HYDROPHYTES (100A/A+B):						
HYDROLOGY RECORDED DATA Stream, lake, or tidal gage Identification: Aerial photography Identification: Other Identification: NO RECORDED DATA OBSERVATIONS: Depth to Free Water: Depth to Saturation (including capillary fringe): Altered Hydrology (explain): Inundated Saturated in Water Marks Drift Lines Sediment Deposits Patterns within Wetland CENAE-CO-R-PT Version 7/1/00 Page 1						

SOILSketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.							
Submission of photo of plot is encouraged.							
DEPTH	HORIZON	MATRIX C		FE <i>F</i>	OXIMORPHIC ATURES (color, ance, size, contrast)	concretions, mas	S (USDA texture, nodules, ses, pore linings, restrictive tribution, soil water, etc.)
HYDRIC SOIL	 _ INDICATOR(;	6).			REFERENCE(S)	١٠	
THEME CO.	- INDIONI ON	<i>3</i>).			NEI ENERO = (0)		
OPTIONAL S	OIL DATA						
Taxonomic su Soil drainage Depth to activ NTCHS hydric	class: e water table:				REFERENCE(S)):	
CONCLUSI	ONS		YES	NO	REMARKS:		
Hydrophytic ve	egetation criter	ion met?			IVEIWATATO.		
Hydric soils criterion met?							
Wetland hydro	ology criterion r	net?					
IS THIS DATA	APOINT IN A W	√ETLAND?					
CENAE-CO-R-PT Versi							
PROJECT TIT	ſLE:				TRANSE	CT:	PLOT:

PROJECT TITLE:	Reginald and Regina O'Day	TRANS	SECT: T1	PLOT:	V	V	
DELINEATOR(S):	J.R. Ladet	DATE:	August 1, 1	1999			
VEGETATION	Stratum and Species		Dominance Ratio	Percent Dominance	D O	NWI Status	
SEEDLI NGS	& HERBS				М		
Osmunda cin			10.5/56.5	19	х	FACW	
Clethra alnif	⁻ olia		10.5/56.5	19	х	FAC+	
Maianthemu	m canadense		20.5/56.5	37	х	FAC-	
Onoclea sens			3/56.5	5			
Acer rubrum			3/56.5	5			
Toxicodendr			3/56.5	5			
Lycopodium (3/56.5	5			
Aralia nudica	aulis		3/56.5	5			
<u>SHRUBS</u>							
Clethra alnif			10.5/21	50	Х	FAC+	
Vaccinium co	rymbosum		10.5/21	50	Х	FACW	
<u>SAPLI NGS</u>							
Acer rubrum	l		63/73.5	86	Х	FAC	
Pinus strobus	S		10.5/73.5	14			
<u>TREES</u>							
Acer rubrum	r		320/440	73	х	FAC	
Pinus strobus	s *shallow roots		120/440	27	Х	*FACU	
<u>VI NES</u>							
Smilax glauc	a		6/10	60	Х	FACU	
Vitis novae-a	anglae		4/10	40		NI	
HYDROPHYTES		NON-HYDF	L ROPHYTES		<u> </u>		
0 2	<u>4</u> <u>1</u>	1	1 0				
OBL FACW	FAC *OTHER	FAC-	FACU UPL	•			
Hydrophytes Subtota	al (A): <u>7</u>	Non-hydrop	ohytes Subtotal (E	3): <u>2</u>			
PERCENT HYDROPHYTES (100A/A+B): <u>7/9 = 78%</u>							
HYDROLOGY							
X RECORDED D							
Stream, lake,							
Aerial photography Identification: Other Identification: County Soil Survey, 1990 - water table at or near							
□ NO RECORDED DATA surface October - May							
OBSERVATIONS:							
Depth to Free Water: > 30" - Driest portion of growing season Depth to Saturation (including capillary fringe): _>30"							
Altered Hydrology (explain): No apparent alterations							
Inundated Saturated in Water Marks Drift Lines Sediment _X Drainage upper 12"							
OTHER (explain): Oxidized root channels in A-horizon. Property owner within Wetland							
acknowledges that site is very wet in early spring.							
CENAE-CO-R-PT Version 7/1/00	Page 1						

SOILSketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.						
View looking			00/ -1-		2-W T2-U EAST	
north WEST Submission of photo of plot is encouraged.		2% slope		◄ 30' → >5% slope		
Submission of DEPTH	photo of plot is HORIZON	MATRIX COLOR	FEAT abur	OXIMORPHIC TURES (color, ndance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)	
3 - 2"	Oi				fibric (maple leaves and pine needles)	
2 - 0"	Oa	5YR 2.5/1			sapric	
0 - 3"	А	10YR 2/1	2.5	Y 4/6, f1p	fsl, oxidized root channels, many medium & coarse roots	
3 - 9"	Bw	10YR 5/3	2.5Y 5	/2, c(>10%)2d		
9 - 20"	Bg	2.5Y 5/2	10Y	'R 5/4, f2p	in upper part, f roots in lower part fsl, massive, no roots	
20 - 30"	Cd	2.5Y 5/4	10Y	R 5/2, f2d	fsl, compact basal till - compact restrictive layer	
>30"					Not observed below 30"	
		nicrotopography typical pit at th			than 50% of the surface area. be.	
HYDRIC SOIL	L INDICATOR(S):	_	REFERENCE(S)):	
111 H.	NEI WPCC. July 1998. Field Indicators for I dentifying Hydric Soils in New England					
OPTIONAL SO	OPTIONAL SOIL DATA					
REFERENCE(S): Taxonomic subgroup: Aeric Epiaquept Soil drainage class: Poorly drained B3b(1) Depth to active water table: <3 inches NTCHS hydric soil criterion: 2b(2) REFERENCE(S): Soil Survey Staff. 1992. Keys to Soil Taxonomy. SMSS Tech Monog 19, 5ed. US Corps of Engineers, New England. 1991. Soil Drainage Classes - Draft Guidelines						
CONCLUSI	ONS	YES	NO	REMARKS:		
Hydrophytic ve	egetation met?	? 🗓				
Hydric soils cr	iterion met?	X				
Wetland hydro	ology met?	\square				
IS THIS DATAPOINT IN A WETLAND?						
CENAE-CO-R-PT Version 7/1/00 Page 2						
PROJECT TIT	ГLE: Regina	ıld and Regina O)'Day	TRANSE	CT: T1 PLOT: W	