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WETLANDS DELINEATION REPORT

Vanasse Hangen Brustlin, Inc.

Date:	September 15, 2009	
Project No.:	40505.11	
Prepared For:	Mr. Scott Chasse APT Engineering 3 Saddlebrook Drive Killingworth, CT 06419	
Site Location:	T-Mobile Site No. CTNL813A Amtrak Stonington 3 166 Pawcatuck Avenue Pawcatuck, Connecticut	
Site Map:	Wetland Sketch, 08/28/09, VHB	
Inspection Date:	August 28, 2009	
Field Conditions:	Weather: cloudy, high 70's Snow Depth: 0 inches	General Soil Moisture: moist Frost Depth: 0 inches
Type of Wetlands Id	entified and Delineated:	

Connecticut Inland Wetlands and Watercourses Connecticut Tidal Wetlands

U.S. Army Corps of Engineers

Inland Wetland Regulated Upland Review Areas: Wetlands: 100 feet Watercourses: 100 feet

Field Numbering Sequence of Wetlands Boundary: WF 1-01 to 1-10, WF 1-11 to 1-23 [as depicted on attached wetland sketch map]

The classification systems of the National Cooperative Soil Survey, the U.S. Department of Agriculture, Natural Resources Conservation Service, County Soil Survey Identification Legend, Connecticut Department of Environmental Protection and United States Army Corps of Engineers New England District were used in this investigation.

All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

The wetlands delineation was conducted and reviewed by:

Dean Gustafson Professional Soil Scientist

Enclosures

54 Tuttle Place Middletown, Connecticut 06457-1847 860.632.1500 = FAX 860.632.7879 email: info@vhb.com www.vhb.com

Attachments

- ➢ Wetland Delineation Field Form

- Soil Map
 Soil Report
 Wetland Delineation Sketch Map

Wetland Delineation Field Form

Project Address:	Amtrak Stonington 3 166 Pawcatuck Avenue Pawcatuck, Connecticut	Project Number:	40505.11
Inspection Date:	08/28/09	Inspector:	Dean Gustafson, PSS
Wetland I.D.:	Wetland 1		

Field Conditions:	Weather: cloudy, high 70's		Snow Depth: 0 inches	
	General Soi	il Moisture: moist		Frost Depth: 0 inches
Type of Wetland Delin	neation:	CT Inland		
		CT Tidal		
		ACOE		
Field Numbering Sequence: WF 1-01 to 1-10, WF 1-11 to 1-23				

WETLAND HYDROLOGY:

NONTIDAL

Regularly Flooded	Irregularly Flooded	Permanently Flooded
Semipermanently Flooded	Seasonally Flooded	Temporarily Flooded
Permanently Saturated	Seasonally Saturated – seepage	Seasonally Saturated - perched 🖂
Comments:		

TIDAL

Subtidal	Regularly Flooded	Irregularly Flooded
Seasonally Flooded	Temporarily Flooded	
Comments: N/A		

WETLAND TYPE:

SYSTEM:

Estuarine	Riverine 🗌	Palustrine 🖂
Lacustrine	Marine	
Comments:		

CLASS:

0		
Emergent	Scrub-shrub	Forested 🔀
Open Water	Disturbed 🔀	Wet Meadow 🔀
Comments: wet hayfield		

WATERCOURSE TYPE:

Perennial	Intermittent 🖂	Tidal 🗌	
Comments: a man-made swale conveys seasonal flows from the south side of the driveway, the			
concentrated flows transition to sheet flow on the north side of the driveway		driveway	

SPECIAL AQUATIC HABITAT:

Vernal Pool	Other	
Comments: N/A		

Wetland Delineation Field Form (Cont.)

MAPPED SOILS:

SOIL SERIES (Map Unit Symbol)	WET	UP	NRCS MAPPED	FIELD IDD/ CONFIRMED
Ridgebury, Leicester, and Whitman soils, extremely stony (3)	\square		\boxtimes	\boxtimes
Sutton fine sandy loam, extremely stony (52)		\square	\square	\boxtimes
Canton and Charlton soils, extremely stony (62)		\square	\square	\boxtimes
Paxton and Montauk fine sandy loams, very stony (85)		\square	\square	\boxtimes

DOMINANT PLANTS:

Forested Community	Wet Meadow Community
Red maple (Acer rubrum)	Orchard grass (Dactylis glomerata)
Yellow birch (Betula alleghaniensis)	Soft rush (Juncus effusus)
Swamp white oak (Quercus bicolor)	Umbrella sedge (Cyperus strigosus)
Northern arrowwood (Viburnum recognitum)	Fescue (Festuca spp.)
Sensitive fern (Onoclea sensibilis)	Red clover (Trifolium pratense)
Jewelweed (Impatiens capensis)	

WETLAND NARRATIVE:

One inland wetland system was identified in proximity to the proposed wireless telecommunications facility. A narrow forested wetland system starts along the south property line, south of the existing gravel driveway that serves the residence. Seasonal flows are conveyed in a man-made channel (intermittent watercourse feature) to a 15-inch reinforced concrete pipe under the driveway. The outfall from the culvert sheet flows over an existing hayfield located west of the proposed wireless telecommunications facility. Disturbed wetland soil profiles were observed within the hayfield providing evidence of historic grading and possible drainage within the wetland system that now functions as a mowed hayfield. The proposed gravel access drive to the proposed wireless telecommunications facility from the existing gravel driveway is located approximately 75 feet east of the hayfield/wetland. The proposed facility is located in an upland hayfield approximately 165 feet east of the hayfield/wetland.

Soil Map—State of Connecticut (166 Pawcatuck Avenue, Stonington, CT)



Natural Resources Conservation Service

Web Soil Survey National Cooperative Soil Survey



Map Unit Legend

State of Connecticut (CT600)				
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
3	Ridgebury, Leicester, and Whitman soils, extremely stony	10.0	19.4%	
12	Raypol silt loam	1.3	2.5%	
17	Timakwa and Natchaug soils	0.4	0.8%	
21A	Ninigret and Tisbury soils, 0 to 5 percent slopes	0.0	0.0%	
32B	Haven and Enfield soils, 3 to 8 percent slopes	0.0	0.0%	
43B	Rainbow silt loam, 3 to 8 percent slopes	3.7	7.2%	
47C	Woodbridge fine sandy loam, 2 to 15 percent slopes, extremely stony	4.5	8.8%	
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	3.7	7.2%	
61B	Canton and Charlton soils, 3 to 8 percent slopes, very stony	6.3	12.2%	
62C	Canton and Charlton soils, 3 to 15 percent slopes, extremely stony	8.9	17.2%	
74C	Narragansett-Hollis complex, 3 to 15 percent slopes, very rocky	1.1	2.1%	
82B	Broadbrook silt loam, 3 to 8 percent slopes	0.7	1.3%	
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	10.9	21.3%	
Totals for Area of Interest		51.4	100.0%	

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