



imagination innovation energy Creating results for our clients and benefits for our communities

WETLANDS DELINEATION REPORT

Vanasse Hangen Brustlin, Inc.

Date:	May 15, 2009	
Project No.:	40505.07	
Prepared For:	Mr. Scott Chasse All-Points Technology Corp., P.C 3 Saddlebrook Drive Killingworth, Connecticut 06419	
Site Location:	T-Mobile Site No. CTNH01B - An 123 Pine Orchard Road Branford, Connecticut	ntrak Branford
Site Map:	VHB Wetland Sketch on APT Site	Plan, 04/22/09
Inspection Date:	April 22, 2009	
Field Conditions:	Weather: rain, low 50's Snow Depth: none	General Soil Moisture: moist Frost Depth: none
Type of Wetlands Ide	entified and Delineated:	
Connecticut Inland W Connecticut Tidal We U.S. Army Corps of E		
Inland Wetland Regu	ulated Upland Review Areas: We	tlands: 100 feet Watercourses: 100
Field Numbering Sec [as depicted on attached	quence of Wetlands Boundary: W ! wetland sketch map]	F 1 - 14

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

feet

Attachments

- > Wetland Delineation Field Form
- ➤ Soil Map
- Soil Report
 Wetland Delineation Sketch Map

Wetland Delineation Field Form

Project Address:	123 Pine Branford		rd Road	Project N	Numb	er:	40505.07
Inspection Date:	4/22/09	i, C1		Inspecto	r:		Dean Gustafson, PSS
Wetland I.D.:	Wetland	1					
	<u> </u>						
Field Conditions:	Wea	ther: ra	in, low 50's			Sno	w Depth: none
	Gene	eral Soi	1 Moisture: moist			Fros	st Depth: none
Type of Wetland	Delineation	n:	CT Inland	\boxtimes			
			CT Tidal				
			ACOE				
Field Numbering	Sequence:	WF 1 t	to 14				
WETLAND HYI	DROLOG	Y:					
Regularly Flooded	d 🔲	Irr	egularly Flooded			F	Permanently Flooded 🛛
Semipermanently	Flooded [Se	asonally Flooded			7	Temporarily Flooded
Permanently Satu	rated 🗌	Se	asonally Saturated	l – seepag	ge 🗌] [Seasonally Saturated - perched
Comments: man-ı	made pond					•	
TIDAL						ı	
Subtidal			gularly Flooded	<u> </u>		Ir	regularly Flooded
Seasonally Floods	ed 🔲	Te	mporarily Floode	d 📙			
Comments: N/A							
WETLAND TYP SYSTEM:	E:						
Estuarine			Riverine			Pal	ustrine 🔀
Lacustrine			Marine				
Comments:		•				•	
CLASS:							
Emergent 🖂			Scrub-shrub 🗵				ested 🔀
Open Water 🔀			Disturbed			We	t Meadow
Comments:							
WATERCOURS	E TYPE:	<u> </u>					
Perennial			Intermittent			Tid	al 🗌
Comments: N/A							
SPECIAL AQUA	ATIC HAI	BITA <u>T</u>					
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
Branford silt loam (30)		\boxtimes	\boxtimes	\boxtimes
Ludlow silt loam (41)		\boxtimes	\boxtimes	\boxtimes
Cheshire-Holyoke complex(77)		\boxtimes		\boxtimes
Udorthents (308)		\boxtimes	\boxtimes	\boxtimes
Water (W)				\boxtimes
Raypol silt loam (12)				\boxtimes

DOMINANT PLANTS:

red maple (Acer rubrum)	common reed (Phragmites australis)
pin oak (Quercus palustris)	buttonbush (Cephalanthus occidentalis)
tussock sedge (Carex stricta)	green bulrush (Scirpus atrovirens)

WETLAND NARRATIVE:

Wetland 1 follows the boundary of the existing man-made pond located just north of the railroad tracks and along the east property boundary apparently on the adjoining parcel. The subject property is developed as a trailer storage company (ACE Trailer Leasing, Inc.) and includes numerous trailer storage units, a maintenance building, mobile office trailer and associated paved and gravel parking area. The proposed T-Mobile Facility is located nearby to the west within an existing gravel parking lot that is occupied by mobile trailer storage units. The pond is characterized by a relatively steep cut bank bordered by mature forest canopy. The fringe of the pond and some interior areas are occupied by shrubs while the majority of the pond is dominated by aquatic bed/emergent marsh habitat. The dominant species found along the pond edge and within the marshy areas include common reed (*Phragmites australis*), buttonbush (*Cephalanthus occidentalis*), green bulrush (Scirpus atrovirens) and tussock sedge (*Carex stricta*). The pond edge is occupied by pin oak (*Quercus palustris*), and red maple (*Acer rubrum*).



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Units

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

.. Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Mine or Quarry

Miscellaneous Water

Rock Outcrop

Perennial Water

+ Saline Spot

"." Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Spoil Area

Stony Spot

Other

Special Line Features

?ു Gully

Short Steep Slope

Very Stony Spot

Other

Political Features

Cities

Water Features



Oceans



Streams and Canals

Transportation



+ Rails



Interstate Highways



US Routes



Major Roads



Local Roads

MAP INFORMATION

Map Scale: 1:3,500 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov

Coordinate System: UTM Zone 18N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut Survey Area Data: Version 6, Mar 22, 2007

Date(s) aerial images were photographed: 8/13/2006

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

100.0%	25.0	st	Totals for Area of Interest
4.6%	1.2	Water	W
57.0%	14.3	Udorthents, smoothed	308
0.8%	0.2	Cheshire-Holyoke complex, 15 to 35 percent slopes, very rocky	77D
8.6%	2.2	Cheshire-Holyoke complex, 3 to 15 percent slopes, very rocky	77C
6.3%	1.6	Ludlow silt loam, 2 to 8 percent slopes, very stony	41B
22.7%	5.7	Branford silt loam, 3 to 8 percent slopes	30B
Percent of AOI	Acres in AOI	Map Unit Name	Map Unit Symbol
	00)	State of Connecticut (CT600)	

Map Unit Description (Brief)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the selected area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit. A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The "Map Unit Description (Brief)" report gives a brief, general description of the major soils that occur in a map unit. Descriptions of nonsoil (miscellaneous areas) and minor map unit components may or may not be included. This description is written by the local soil scientists responsible for the respective soil survey area data. A more detailed description can be generated by the "Map Unit Description" report.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief)

State of Connecticut

Description Category: SOI

Map Unit: 30B—Branford silt loam, 3 to 8 percent slopes

Branford Silt Loam, 3 To 8 Percent Slopes This map unit is in the Connecticut Valley Major Land Resource Area. The mean annual precipitation is 38 to 50 inches (965) to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 80 percent Branford soils. 20 percent minor components. Branford soils This component occurs on valley and outwash plain terrace landforms. The parent material consists of eolian deposits over glaciofluvial deposits derived from basalt, sandstone, and shale. The slope ranges from 3 to 8 percent and the runoff class is low. The depth to a restrictive feature is greater than 60 inches. The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 6.3 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 2e Typical Profile: 0 to 8 inches; silt loam 8 to 18 inches; loam 18 to 24 inches; gravelly loam 24 to 65 inches; stratified very gravelly coarse sand to loamy fine sand

Map Unit: 41B—Ludlow silt loam, 2 to 8 percent slopes, very stony

Ludlow Silt Loam, 2 To 8 Percent Slopes, Very Stony This map unit is in the Connecticut Valley Major Land Resource Area. The mean annual precipitation is 40 to 50 inches (1016 to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 80 percent Ludlow soils. 20 percent minor components. Ludlow soils This component occurs on upland drumlin and hill landforms. The parent material consists of lodgement till derived from sandstone, shale, and basalt. The slope ranges from 2 to 8 percent and the runoff class is low. The depth to a restrictive feature is 20 to 40 inches to densic material. The drainage class is moderately well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 4.8 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 24 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 6s Typical Profile: 0 to 8 inches; silt loam 8 to 20 inches; silt loam 20 to 26 inches; silt loam 26 to 65 inches; gravelly loam

Map Unit: 77C—Cheshire-Holyoke complex, 3 to 15 percent slopes, very rocky

Cheshire-Holyoke Complex, 3 To 15 Percent Slopes, Very Rocky This map unit is in the Connecticut Valley Major Land Resource Area. The mean annual precipitation is 40 to 50 inches (1016 to 1270 millimeters) and the average annual air temperature is 45 to 54 degrees F. (7 to 12 degrees C.) This map unit is 45 percent Cheshire soils, 35 percent Holyoke soils. 20 percent minor components. Cheshire soils This component occurs on till plain and upland landforms. The parent material consists of melt-out till derived from sandstone, shale, and basalt. The slope ranges from 3 to 15 percent and the runoff class is low. The depth to a restrictive feature is greater than 60 inches. The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 8.4 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 6s Typical Profile: 0 to 8 inches; fine sandy loam 8 to 16 inches; fine sandy loam 16 to 26 inches; fine sandy loam 26 to 65 inches; gravelly sandy loam Holyoke soils This component occurs on ridge and upland landforms. The parent material consists of eolian deposits over melt-out till derived from sandstone, shale, and basalt. The slope ranges from 3 to 15 percent and the runoff class is medium. The depth to a restrictive feature is 10 to 20 inches to bedrock (lithic). The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 2.7 inches (low) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 6s Typical Profile: 0 to 1 inches; moderately decomposed plant material 1 to 3 inches; silt loam 3 to 8 inches; silt loam 8 to 18 inches; gravelly silt loam 18 to 28 inches; unweathered bedrock

Map Unit: 77D—Cheshire-Holyoke complex, 15 to 35 percent slopes, very rocky

Cheshire-Holyoke Complex, 15 To 35 Percent Slopes, Very Rocky This map unit is in the Connecticut Valley Major Land Resource Area. The mean annual precipitation is 40 to 50 inches (1016 to 1270 millimeters) and the average annual air temperature is 45 to 54 degrees F. (7 to 12 degrees C.) This map unit is 45 percent Cheshire soils, 35 percent Holyoke soils. 20 percent minor components. Cheshire soils This component occurs on till plain and upland landforms. The parent material consists of melt-out till derived from sandstone, shale, and basalt. The slope ranges from 15 to 35 percent and the runoff class is medium. The depth to a restrictive feature is greater than 60 inches. The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 8.4 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s Typical Profile: 0 to 8 inches; fine sandy loam 8 to 16 inches; fine sandy loam 16 to 26 inches; fine sandy loam 26 to 65 inches; gravelly sandy loam Holyoke soils This component occurs on ridge and upland landforms. The parent material consists of eolian deposits over melt-out till derived from sandstone, shale, and basalt. The slope ranges from 15 to 35 percent and the runoff class is high. The depth to a restrictive feature is 10 to 20 inches to bedrock (lithic). The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 2.7 inches (low) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s Typical Profile: 0 to 1 inches; moderately decomposed plant material 1 to 3 inches; silt loam 3 to 8 inches; silt loam 8 to 18 inches; gravelly silt loam 18 to 28 inches; unweathered bedrock

Map Unit: 308—Udorthents, smoothed

Udorthents, Smoothed This map unit is in the New England and Eastern New York Upland, Southern Part Connecticut Valley Major Land Resource Area. The mean annual precipitation is 32 to 50 inches (813 to 1270 millimeters) and the average annual air temperature is 45 to 55 degrees F. (7 to 13 degrees C.) This map unit is 80 percent Udorthents soils. 20 percent minor components. Udorthents soils This component occurs on leveled land and fill landforms. The slope ranges from 0 to 35 percent and the runoff class is medium. The depth to a restrictive feature varies, but is commonly greater than 60 inches. The drainage class is typically well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 9.0 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.4 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table is greater than 60 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 3e Typical Profile: 0 to 5 inches; loam 5 to 21 inches; gravelly loam 21 to 80 inches; very gravelly sandy loam

Data Source Information

Soil Survey Area: State of Connecticut Survey Area Data: Version 6, Mar 22, 2007



ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT. 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935

www.allpointstech.com

APT FILING NUMBER: CT-255T-360

LE-1

SCALE: AS NOTED DRAWN BY: AAJ DATE: 11/16/08 CHECKED BY: SMC T - Mobile -

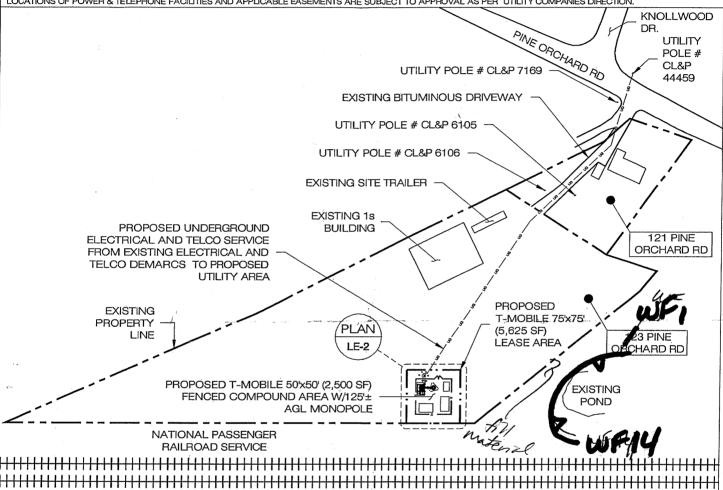
35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100

T-MOBILE SITE NUMBER CTNH801B

AMTRAK BRANFORD 123 PINE ORCHARD ROAD BRANFORD, CT 06405-3939

PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. OMNIPOINT COMMUNICATIONS INC. IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. OMNIPOINT COMMUNICATIONS INC. RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY OMNIPOINT COMMUNICATIONS INC. STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES AND APPLICABLE EASEMENTS ARE SUBJECT TO APPROVAL AS PER UTILITY COMPANIES DIRECTION.





VANASSE HANGEN BRUSTLIN, INC.
WETLAND SKETCH

WF 1 to 14