

## Summer Hill

Civil Engineers & Land Surveyors, P.C.

BY: MJO      DATE: 7-1-23      SUBJECT: 33 Kenyon Road Waterford, Connecticut      SHEET No.: 1 OF 2  
CHECKED: LJM      DATE: 7-1-23      Water Quality and Groundwater Recharge Volume Computations      PROJECT No.: 23-20

### 1. Narrative

The project site was formerly developed and a single family residence was located in the southern portion of the site. The residence has been removed and the only impervious surface remaining on the site is a small area of the former driveway apron.

The impervious surface land coverage associated with the planned project is 27,490 square feet or 24.5% of the sites land area. The total area of disturbance associated with the projects construction activities is approximately 1.5 acres.

The site land parcel is located in the Thames River subregional drainage basin (HUC 3000) and locally drains to the east to an immediately adjacent inland wetland approximately 20 acres in area. The wetlands outlet watercourse crosses Vauxhall Street Extension to the east and joins Great Swamp Brook which flows southeasterly and enters the northern end of Brandege Lake approximately 2,000 feet east of the project site.

A planned stormwater infiltration area and the site grading in combination provide the required measures to address the stormwater quality and groundwater recharge guidance contained in the Connecticut Stormwater Quality Manual.

The grading of the site has been developed to direct surface water runoff from the turnaround, parking area and the major portion of the sidewalks to the stormwater infiltration area. The stormwater infiltration area has been sized to temporarily store a 1.3 inch depth over the total of these areas and allow it to infiltrate into the soil mixture in the infiltration area bottom and the underlying natural soils.

Stormwater runoff generated from less frequent, greater rainfall depth events in excess of this temporary storage volume will flow over a two-foot width vegetated berm and four horizontal to one vertical slope on the downgradient side of the area and to the inland wetland to the east.

Stormwater runoff from the driveway to the waste and recycling receptacles area, the receptacles pad, the terrace and walk to the north of the planned building, and the building roof areas will be directed to the relatively flat sloped lawn areas adjacent to the buildings.

The paved site access driveway grading has been developed to direct stormwater runoff from the driveway to the adjacent stone aggregate reserved parking area surfaces.

### 2. Water quality volume computed using the CT Stormwater Quality Manual equation

$WQV = 1.0 \text{ in}(R)(A)/12$ , where:

WQV, Water Quality Volume (Ac-ft)

R, Volumetric Runoff Coefficient =  $0.05 + 0.009(I)$

I, Percent impervious cover

A, Site area (Ac.)

$I = 24.5\%$

$R = 0.05 + 0.009(24.5) = 0.27$

$A = 112,209 \text{ ft}^2 = 2.58 \text{ Ac.}$

$WQV = 1 \text{ in}(R)(A)/12 = (1 \text{ in})(0.27)(2.58)/12 = 0.0580 \text{ Ac-ft} = 2,527 \text{ ft}^3$

### 3. Groundwater recharge volume computed using the CT Stormwater Quality Manual equation

$GRV = D(A)(I)/12$ , where:

GRV, Groundwater Recharge Volume (Ac-ft)

D, Depth of runoff to be recharged (in)

A Site area (Ac.)

I, Net increase in percent of impervious cover

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For Hydrologic Soil Group C soil types,  $D = 0.10$  in

$$A = 112,209 \text{ ft}^2 = 2.58 \text{ Ac.}$$

$$I (\text{Existing}) = 0.00$$

$$I (\text{Proposed}) = 27,490 \text{ ft}^2 / 112,209 \text{ ft}^2 = 0.245$$

$$\text{Net increase in impervious surface coverage} = 0.245 - 0.00 = 0.245$$

$$\text{GRV} = (0.10)(2.58)(0.245)/12 = 0.0053 = 231 \text{ ft}^3$$

#### 4. Stormwater infiltration area volume

| Stage-Storage   |                         |                                 |                                       |                                      |                            |
|-----------------|-------------------------|---------------------------------|---------------------------------------|--------------------------------------|----------------------------|
| Elevation<br>ft | Area<br>ft <sup>2</sup> | Average Area<br>ft <sup>2</sup> | Incremental Volume<br>ft <sup>3</sup> | Cumulative Volume<br>ft <sup>3</sup> | Cumulative Volume<br>Ac-ft |
| 139.00          | 3,354                   | 3,354                           | 0                                     | 0                                    | 0                          |
| 139.50          | 4,253                   | 3,804                           | 1,902                                 | 1,902                                | 0.0437                     |

#### 5. Soil probe logs

P1

0" – 13" Topsoil

13" – 29" Tan silt loam subsoil

P2

0" – 12" Topsoil

12" – 34" Tan silt loam subsoil

P3

0" – 10" Topsoil

10" – 32" Tan silt loam subsoil

# Custom Soil Resource Report Soil Map



# Custom Soil Resource Report

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

### Water Features

 Streams and Canals

### Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

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

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

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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 22, Sep 12, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

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## State of Connecticut

### 18—Catden and Freetown soils, 0 to 2 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2t2r2  
*Elevation:* 0 to 1,390 feet  
*Mean annual precipitation:* 36 to 71 inches  
*Mean annual air temperature:* 39 to 55 degrees F  
*Frost-free period:* 140 to 240 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Catden and similar soils:* 45 percent  
*Freetown and similar soils:* 35 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Catden

##### Setting

*Landform:* Depressions, bogs, fens, depressions, depressions, kettles, marshes, swamps  
*Landform position (three-dimensional):* Base slope, tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Highly decomposed herbaceous organic material and/or highly decomposed woody organic material

##### Typical profile

*Oa1 - 0 to 2 inches:* muck  
*Oa2 - 2 to 79 inches:* muck

##### Properties and qualities

*Slope:* 0 to 2 percent  
*Surface area covered with cobbles, stones or boulders:* 0.0 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high (0.14 to 14.17 in/hr)  
*Depth to water table:* About 0 to 6 inches  
*Frequency of flooding:* NoneRare  
*Frequency of ponding:* Frequent  
*Maximum salinity:* Nonsaline (0.0 to 1.9 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Very high (about 26.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 5w  
*Hydrologic Soil Group:* B/D  
*Ecological site:* F144AY042NY - Semi-Rich Organic Wetlands  
*Hydric soil rating:* Yes



## Description of Freetown

### Setting

*Landform:* Depressions, marshes, depressions, bogs, swamps, kettles  
*Landform position (three-dimensional):* Tread, dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Highly decomposed organic material

### Typical profile

*Oe - 0 to 2 inches:* mucky peat  
*Oa - 2 to 79 inches:* muck

### Properties and qualities

*Slope:* 0 to 2 percent  
*Surface area covered with cobbles, stones or boulders:* 0.0 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high  
(0.14 to 14.17 in/hr)  
*Depth to water table:* About 0 to 6 inches  
*Frequency of flooding:* NoneRare  
*Frequency of ponding:* Frequent  
*Available water supply, 0 to 60 inches:* Very high (about 26.9 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 5w  
*Hydrologic Soil Group:* B/D  
*Ecological site:* F144AY043MA - Acidic Organic Wetlands  
*Hydric soil rating:* Yes

## Minor Components

### Natchaug

*Percent of map unit:* 7 percent  
*Landform:* Depressions, depressions, depressions  
*Landform position (three-dimensional):* Base slope, tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Hydric soil rating:* Yes

### Whitman

*Percent of map unit:* 6 percent  
*Landform:* Drainageways, depressions  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Hydric soil rating:* Yes

### Timakwa

*Percent of map unit:* 5 percent  
*Landform:* Depressions  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave

*Hydric soil rating:* Yes

**Scarboro**

*Percent of map unit:* 2 percent

*Landform:* Depressions, drainageways, outwash deltas, outwash terraces

*Landform position (three-dimensional):* Base slope, tread, dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave, linear

*Hydric soil rating:* Yes

**60C—Canton and Charlton fine sandy loams, 8 to 15 percent slopes**

**Map Unit Setting**

*National map unit symbol:* 2w81z

*Elevation:* 0 to 1,620 feet

*Mean annual precipitation:* 36 to 71 inches

*Mean annual air temperature:* 39 to 55 degrees F

*Frost-free period:* 140 to 240 days

*Farmland classification:* Farmland of statewide importance

**Map Unit Composition**

*Canton and similar soils:* 50 percent

*Charlton and similar soils:* 35 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Canton**

**Setting**

*Landform:* Hills, moraines, ridges

*Landform position (two-dimensional):* Summit, shoulder, backslope

*Landform position (three-dimensional):* Nose slope, side slope, crest

*Down-slope shape:* Convex, linear

*Across-slope shape:* Convex

*Parent material:* Coarse-loamy over sandy melt-out till derived from gneiss, granite, and/or schist

**Typical profile**

*Ap - 0 to 7 inches:* fine sandy loam

*Bw1 - 7 to 15 inches:* fine sandy loam

*Bw2 - 15 to 26 inches:* gravelly fine sandy loam

*2C - 26 to 65 inches:* gravelly loamy sand

**Properties and qualities**

*Slope:* 8 to 15 percent

*Depth to restrictive feature:* 19 to 39 inches to strongly contrasting textural stratification

*Drainage class:* Well drained

*Runoff class:* Low

## Custom Soil Resource Report

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high  
(0.14 to 14.17 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Very low (about 2.7 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3e

*Hydrologic Soil Group:* B

*Ecological site:* F144AY034CT - Well Drained Till Uplands

*Hydric soil rating:* No

### Description of Charlton

#### Setting

*Landform:* Ridges, ground moraines, hills

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex, linear

*Across-slope shape:* Convex

*Parent material:* Coarse-loamy melt-out till derived from granite, gneiss, and/or schist

#### Typical profile

*Ap - 0 to 7 inches:* fine sandy loam

*Bw - 7 to 22 inches:* gravelly fine sandy loam

*C - 22 to 65 inches:* gravelly fine sandy loam

#### Properties and qualities

*Slope:* 8 to 15 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high  
(0.14 to 14.17 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Maximum salinity:* Nonsaline (0.0 to 1.9 mmhos/cm)

*Available water supply, 0 to 60 inches:* Moderate (about 6.9 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3e

*Hydrologic Soil Group:* B

*Ecological site:* F144AY034CT - Well Drained Till Uplands

*Hydric soil rating:* No

### Minor Components

#### Leicester

*Percent of map unit:* 5 percent

*Landform:* Ground moraines, drainageways, depressions, hills

*Landform position (two-dimensional):* Footslope, toeslope

*Landform position (three-dimensional):* Base slope



## Custom Soil Resource Report

*Down-slope shape:* Concave, linear  
*Across-slope shape:* Concave  
*Hydric soil rating:* Yes

### **Chatfield**

*Percent of map unit:* 5 percent  
*Landform:* Ridges, hills  
*Landform position (two-dimensional):* Summit, shoulder, backslope  
*Landform position (three-dimensional):* Nose slope, side slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear, convex  
*Hydric soil rating:* No

### **Sutton**

*Percent of map unit:* 5 percent  
*Landform:* Ridges, hills, ground moraines  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Hydric soil rating:* No

## **73C—Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky**

### **Map Unit Setting**

*National map unit symbol:* 2w698  
*Elevation:* 0 to 1,550 feet  
*Mean annual precipitation:* 36 to 71 inches  
*Mean annual air temperature:* 39 to 55 degrees F  
*Frost-free period:* 140 to 240 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Charlton, very stony, and similar soils:* 50 percent  
*Chatfield, very stony, and similar soils:* 30 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Charlton, Very Stony**

#### **Setting**

*Landform:* Ridges, hills  
*Landform position (two-dimensional):* Summit, shoulder, backslope  
*Landform position (three-dimensional):* Side slope, crest, nose slope  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Convex  
*Parent material:* Coarse-loamy melt-out till derived from granite, gneiss, and/or schist

## Custom Soil Resource Report

### Typical profile

*Oe - 0 to 2 inches:* moderately decomposed plant material  
*A - 2 to 4 inches:* fine sandy loam  
*Bw - 4 to 27 inches:* gravelly fine sandy loam  
*C - 27 to 65 inches:* gravelly fine sandy loam

### Properties and qualities

*Slope:* 3 to 15 percent  
*Surface area covered with cobbles, stones or boulders:* 1.6 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high (0.14 to 14.17 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Maximum salinity:* Nonsaline (0.0 to 1.9 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Moderate (about 8.7 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* B  
*Ecological site:* F144AY034CT - Well Drained Till Uplands  
*Hydric soil rating:* No

## Description of Chatfield, Very Stony

### Setting

*Landform:* Hills, ridges  
*Landform position (two-dimensional):* Summit, shoulder, backslope  
*Landform position (three-dimensional):* Nose slope, side slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear, convex  
*Parent material:* Coarse-loamy melt-out till derived from granite, gneiss, and/or schist

### Typical profile

*Oi - 0 to 1 inches:* slightly decomposed plant material  
*A - 1 to 2 inches:* fine sandy loam  
*Bw - 2 to 30 inches:* gravelly fine sandy loam  
*2R - 30 to 40 inches:* bedrock

### Properties and qualities

*Slope:* 3 to 15 percent  
*Surface area covered with cobbles, stones or boulders:* 1.6 percent  
*Depth to restrictive feature:* 20 to 41 inches to lithic bedrock  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low (0.00 to 0.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Maximum salinity:* Nonsaline (0.0 to 1.9 mmhos/cm)

## Custom Soil Resource Report

*Available water supply, 0 to 60 inches:* Low (about 4.3 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* B

*Ecological site:* F144AY034CT - Well Drained Till Uplands

*Hydric soil rating:* No

### **Minor Components**

#### **Rock outcrop**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Hollis, very stony**

*Percent of map unit:* 5 percent

*Landform:* Hills, ridges

*Landform position (two-dimensional):* Summit, shoulder, backslope

*Landform position (three-dimensional):* Nose slope, side slope, crest

*Down-slope shape:* Convex

*Across-slope shape:* Linear, convex

*Hydric soil rating:* No

#### **Leicester, very stony**

*Percent of map unit:* 5 percent

*Landform:* Drainageways, depressions

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Hydric soil rating:* Yes

#### **Sutton, very stony**

*Percent of map unit:* 5 percent

*Landform:* Ground moraines, hills

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Hydric soil rating:* No

## **701A—Ninigret fine sandy loam, 0 to 3 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 2y07d

*Elevation:* 0 to 1,260 feet

*Mean annual precipitation:* 43 to 54 inches

*Mean annual air temperature:* 45 to 55 degrees F

*Frost-free period:* 140 to 185 days

*Farmland classification:* All areas are prime farmland

### Map Unit Composition

*Ninigret and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Ninigret

#### Setting

*Landform:* Kame terraces, outwash plains, moraines, kames, outwash terraces

*Landform position (two-dimensional):* Footslope, toeslope

*Landform position (three-dimensional):* Base slope, tread

*Down-slope shape:* Convex, linear

*Across-slope shape:* Convex, concave

*Parent material:* Coarse-loamy eolian deposits over sandy and gravelly glaciofluvial deposits derived from gneiss, granite, schist, and/or phyllite

#### Typical profile

*Ap - 0 to 8 inches:* fine sandy loam

*Bw1 - 8 to 16 inches:* fine sandy loam

*Bw2 - 16 to 26 inches:* fine sandy loam

*2C - 26 to 65 inches:* stratified loamy sand to loamy fine sand

#### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 18 to 38 inches to strongly contrasting textural stratification

*Drainage class:* Moderately well drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high (0.14 to 14.17 in/hr)

*Depth to water table:* About 17 to 39 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Maximum salinity:* Nonsaline (0.0 to 1.9 mmhos/cm)

*Available water supply, 0 to 60 inches:* Low (about 3.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 2w

*Hydrologic Soil Group:* C

*Ecological site:* F144AY026CT - Moist Silty Outwash

*Hydric soil rating:* No

### Minor Components

#### Merrimac

*Percent of map unit:* 5 percent

*Landform:* Outwash plains, outwash terraces, eskers, kames, moraines

*Landform position (two-dimensional):* Summit, shoulder

*Landform position (three-dimensional):* Side slope, crest, tread

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Hydric soil rating:* No

#### Agawam

*Percent of map unit:* 5 percent

## Custom Soil Resource Report

*Landform:* Kame terraces, outwash plains, outwash terraces, moraines, kames

*Landform position (two-dimensional):* Summit, shoulder

*Landform position (three-dimensional):* Side slope, crest, tread

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Hydric soil rating:* No

### **Tisbury**

*Percent of map unit:* 3 percent

*Landform:* Outwash terraces, valley trains, deltas, outwash plains

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Hydric soil rating:* No

### **Raypol**

*Percent of map unit:* 2 percent

*Landform:* Drainageways, depressions

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Hydric soil rating:* Yes

# Hydrologic Soil Group—State of Connecticut





**MAP LEGEND****Area of Interest (AOI)**
 Area of Interest (AOI)
**Soils****Soil Rating Polygons**

 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

**Soil Rating Lines**

 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

**Soil Rating Points**

 A  
 A/D  
 B  
 B/D

 C  
 C/D  
 D  
 Not rated or not available

**Water Features**
 Streams and Canals
**Transportation**

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

**Background**
 Aerial Photography
**MAP INFORMATION**

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