



# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

## A. General Information

**Important:**  
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Joseph Mooney

Name

josephsmoo@charter.net

E-Mail Address

304 Millbrook Drive

Mailing Address

East Londmeadow

City/Town

MA

State

01028

Zip Code

(413) 627-5377

Phone Number

Fax Number (if applicable)

2. Representative (if any):

EBT Environmental Consultants, Inc.

Firm

Glenn Krevosky

Contact Name

glenn.krevosky@charter.net

E-Mail Address

601 Main Street

Mailing Address

North Oxford

City/Town

MA

State

01537

Zip Code

508-769-3659

Phone Number

Fax Number (if applicable)

## B. Determinations

1. I request the Sturbridge Conservation Commission make the following determination(s). Check any that apply:

- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Sturbridge

Name of Municipality

- e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

## C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

84A Paradise Lane

Street Address

Sturbridge

City/Town

Parcel ID: 505-09E44-84A

Assessors Map/Plat Number

Parcel/Lot Number

- b. Area Description (use additional paper, if necessary):

The area is an existing ±1,895 square foot stone dust driveway located on the northern side of the existing home. At its closest point the driveway is 82' from Big Alum Pond. Presently water runs through a grass swale (underlined with Hydrologic Soil Group B soils) from the driveway area on the east side of the house towards Big Alum Pond. No trees are within the project areas (driveway or swale).

- c. Plan and/or Map Reference(s):

See attached "Additional Information"

Title

Date

Title

Date

Title

Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

The applicant proposes to pave ±1,764 square feet of the existing ±1,895 square foot stone dust driveway and redefine the grass swale constructed over Chatfield-Hollis – Rock outcrop complex – Hydrologic Soil Group B soils. The engineer's calculations show in a 0.5" in 24-hour rain event there is to be no net increase in flow offsite from the proposed project and he states nor is there an increase with all other typical storm events (see attached Exhibit 9A).

## **Additional Information**

**Project Location:** 84A Paradise Lane, Sturbridge

**Applicant:** Joseph Mooney

- 1A. Proposed Paving Plan: prepared for Joseph Mooney by Existing Grade Inc., dated 10/29/2019
- 2A. Warren USGS Quad, dated 1982
- 3A. Sturbridge GIS, dated 11/4/2019
- 4A. Sturbridge Filing Fee Worksheet
- 5A. Town of Sturbridge Abutters' List, dated 10/25/2019
- 6A. Abutters Notification, dated 11/4/2019
- 7A. Affidavit of Service, dated 11/4/2019
- 8A. Paid Taxes Signoff, dated 8/20/2019
- 9A. Stormwater Report, dated 10/29/2019



## WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

### C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

---

---

---

---

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

---

---

---



# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

## D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Joseph S. Mooney

Name

84A Paradise Lane

Mailing Address

Sturbridge

City/Town

Ma

State

01518

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

*Joseph S. Mooney*  
Signature of Applicant

24 OCT 19  
Date

*Glenn E. Kewashey*  
Signature of Representative (if any)

10/24/2019  
Date



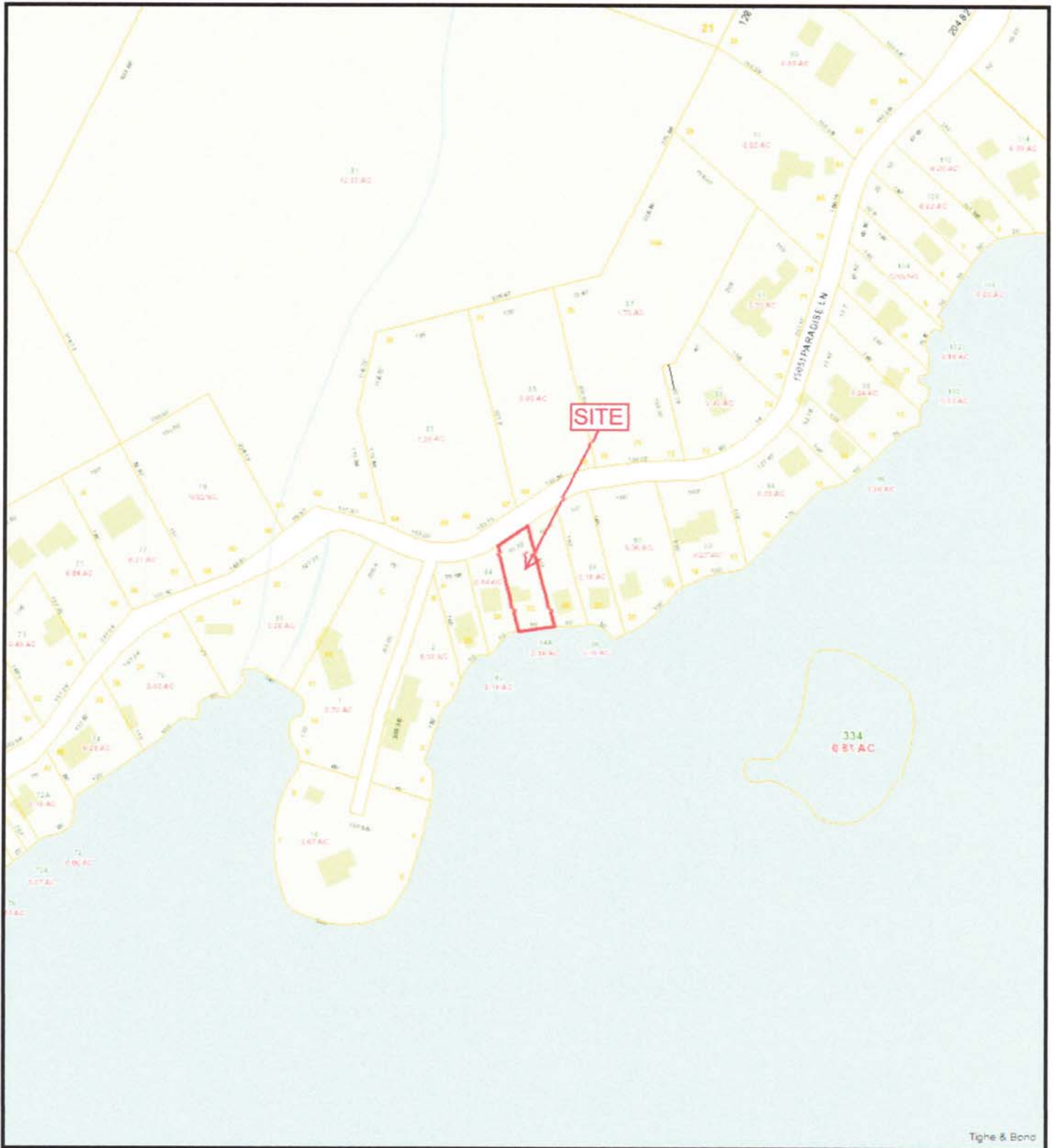
Warren USGS Quad  
1982

SCALE 1:25 000

1 CENTIMETER ON THE MAP REPRESENTS 250 METERS ON THE GROUND  
CONTOUR INTERVAL 3 METERS



2A



Tighe & Bond

## 84A Paradise Lane

11/4/2019 10:11:30 AM

Scale: 1"=200'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.



# 3A



# Town of Sturbridge

## Conservation Commission

### Filing Fee Worksheet

Under M.G.L. c 131, § 40 and the Town of Sturbridge Wetland Bylaw

Applicant Joseph Mooney

Applicant Representative EBT Environmental Consultants, Inc.

Project location 84A Paradise Lane, Sturbridge

#### TOTAL STATE FEE REQUIRED FOR PROJECT

(Only subject to NOI and ANRAD filings—See Wetland Fee Transmittal Form):

State Fee Category(s) \_\_\_\_\_

Total State Fee for project (include Riverfront Area adjustment if applicable) \_\_\_\_\_

State share of State Fee \_\_\_\_\_

Local share of State Fee \_\_\_\_\_

#### TOTAL ADDITIONAL LOCAL FEE REQUIRED FOR PROJECT\*:

(See Sturbridge Wetland Bylaw Regulations Section 4.17)

- Standard NOI Fee = \$50.00 \_\_\_\_\_ (check if applicable)
- Standard RDA Fee = \$25.00 \_\_\_\_\_ (check if applicable)
- Standard ANRAD Fee = \$00.10 per foot for resource area delineation \_\_\_\_\_ (check if applicable).  
# feet \_\_\_\_\_ x \$00.10 = \$ \_\_\_\_\_
- Standard DELINEATION Fee = \$00.10 per foot for resource area delineation \_\_\_\_\_ (for all projects).  
# feet \_\_\_\_\_ x \$00.10 = \$ \_\_\_\_\_  
(for all projects that do not include an approved wetland delineation boundary by the Commission within 3 years prior to application submittal)
- REPLICATION Monitoring Fee = \$200.00 \_\_\_\_\_ (check if applicable)  
(for all projects that include wetland alteration and wetland replication)

#### CUMULATIVE TOTAL FEES:

Total State Fee: \$0.00

Total Town Share of State Fee: \$0.00

Total Local Fee: \$25.00

#### \*Please Note:

For each NOI and ANRAD filing, please submit two (2) checks to the Town of Sturbridge, one for the town's portion of the state fee and one for the local fee(s). RDA filings only have a Local Fee at this time.

The advertising fee is not included in the calculation. The Applicant will pay the Southbridge News directly.



Parcel ID	Owner	Owner Address	Owner City	State	Zip	Property Address
505-09E34-081	BRAUNS ALLEN J	81 PARADISE LANE	FISKDALE	MA	01518	81 PARADISE LANE
505-09E45-092	DALBERTH LISA C	112 TURQUOISE CREEK DRIVE	CAREY	NC	27513	92 PARADISE LANE
505-09E44-082	ELLIS GLENN G	147 CRYSTAL LAKE ROAD	ELLINGTON	CT	06029	82 PARADISE LANE
505-09E45-088	HANSON THOMAS	187 NORTH MAIN STREET	MILLBURY	MA	01527	88 PARADISE LANE
505-09E43-080	HARRINGTON PATRICIA C	634 RIVER ROAD	STOCKBRIDGE	VT	05772	80 PARADISE LANE
593-09E44-002	MOLTA COLLEEN	2 SOUTH PARADISE LANE	FISKDALE	MA	01518	2 SOUTH PARADISE LANE
505-09E34-083	MOLTA DANIEL J	9335 SOUTH EAST 176TH SAFFOLD ST	THE VILLAGES	FL	32162	83 PARADISE LANE
505-09E44-086	SANDERSON BEVERLY A TRUSTEE OF	33 HIGH PINE CIRCLE	WILBRAHAM	MA	01095	86 PARADISE LANE
505-09E34-085	SANDERSON BEVERLY A TRUSTEE OF	33 HIGH PINE CIRCLE	WILBRAHAM	MA	01095	85 PARADISE LANE
593-09E44-001	SCOBLE ROBERT J	1 SOUTH PARADISE LANE	FISKDALE	MA	01518	1 SOUTH PARADISE LANE
505-09E45-090	WELCH ELLEN H & JOHN W TRUSTEES	8 EVERGREEN CIRCLE	WILBRAHAM	MA	01095	90 PARADISE LANE
505-09E35-087	WELCH ELLEN H & JOHN W TRUSTEES	8 EVERGREEN CIRCLE	WILBRAHAM	MA	01095	87 PARADISE LANE
505-09E44-084	WHITE ROGER L	125 SILVER STREET	WILBRAHAM	MA	01095	84 PARADISE LANE
	BOARD OF ASSESSORS					
Above persons listed are record owners as they appear on the most recent applicable tax list.						
Assessors are not responsible for errors or omissions. RE: M.G.L. - Chapter 40A, Section 11						
Abutters List -	Conservation Commission - 200'					
RE: 84A PARADISE LANE						
Certified Copy						
Assessor:	<i>James P. Murphy</i>					
Date:	10-25-19					

**Notification to Abutters Under the  
Massachusetts Wetlands Protection Act  
and the Town of Sturbridge Wetland Bylaw Regulations**

**(This form must be completed and copies sent, by certified mail, certificate of mailing or hand-delivered, to all abutters within 200 feet of the location of the project)**

*In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, as well as the Town of Sturbridge Wetland Bylaws you are hereby notified of the following:*

- A. The name of the Applicant is Joseph Mooney.
- B. The Applicant has filed a Request for Determination of Applicability (RDA) with the Sturbridge Conservation Commission.
- C. The address or location of the lot where the activity is proposed is 84A Paradise Lane, Sturbridge.
- D. The applicant proposes to pave  $\pm 1,764$  square feet of the existing  $\pm 1,895$  square foot stone dust driveway and redefine the grass swale constructed over Chatfield-Hollis – Rock outcrop complex – Hydrologic Soil Group B soils. The engineer’s calculations show in a 0.5” in 24 hour rain event there is to be no net increase in flow offsite from the proposed project and he states nor is there an increase with all other typical storm events.
- E. Copies of the RDA may be obtained or examined by calling Glenn E. Krevosky of EBT Environmental Consultants, Inc., 601 Main Street, North Oxford, MA 01537 at (508)987-0979 between the hours of 9:00 am and 3:30 pm, Monday through Friday.
- F. Information regarding the date, time and place of the Public Hearing may be obtained by contacting the Sturbridge Conservation Commission at (508)347-2506 between the hours of 8am to 4pm Monday, Wednesday and Thursday, 8am to 7pm Tuesday and 8am to 12pm Friday.

**PLEASE NOTE:**

- 1. Notice of the public hearing, including its date, time and place will be published at least five (5) business days in advance in the Southbridge News.
- 2. Notice of the public hearing including date, time and place will be posted in the Town Hall not less than forty-eight (48) hours in advance.
- 3. You also may contact the Department of Environmental Protection (DEP) Regional Office for more information about this application or the Wetlands Protection Act. To contact the DEP:

**CENTRAL REGION: (508) 792-7650**

**NORTHEAST REGION: (617) 654-6500**

**WESTERN REGION: (413) 784-1100**

**SOUTHEAST REGION: (508) 946-2700**

11/4/2019

**AFFIDAVIT OF SERVICE**

**UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT  
AND TOWN OF STURBRIDGE WETLAND PROTECTION BYLAW**

(To be submitted to the Massachusetts Department of Environmental Protection & the Conservation Commission when filing a Notice of Intent)

I, Glenn E. Krevosky, hereby certify under the pains and penalties of perjury that on November 4, 2019, I gave notification to abutters within 200 feet of the proposed project in compliance with the second paragraph of the Massachusetts General Laws, Chapter 131, Section 40 and the DEP Guide to Abutter Notification, dated April 8, 1994, in connection with the following matter:

A Request for Determination of Applicability filed under the Massachusetts Wetlands Protection Act and The Town of Sturbridge Wetland Protection Bylaw by EBT Environmental Consultants, Inc., 601 Main Street, North Oxford, MA 01537, with the Sturbridge Conservation Commission on November 4, 2019 for a property located at, 84A Paradise Lane, Sturbridge.

The form of the notification and the list of the abutters to whom it was given and their addresses are attached to this Affidavit of Service.

Glenn E. Krevosky  
Signature

11-4-19  
Date



# Town of Sturbridge

Barbara A. Barry, Finance Director

Department/Board/Committee: Conservation Commission

Please verify outstanding tax/fee status for the following property owner:

Property Owner: Joseph Mooney

Property Location: 84A Paradise Lane, Sturbridge

- The license/permit may be released.  
 The license/permit may not be released.

*for* Deborah Illorson  
Finance Director

8/20/19  
Date



EX. STONE DUST  
DRIVE



PROPOSED PAVED  
DRIVE



Routing Diagram for 1882\_Paved Drive  
Prepared by {enter your company name here}, Printed 10/29/2019  
HydroCAD® 10.00-22 s/n 04588 © 2018 HydroCAD Software Solutions LLC

**1882\_Paved Drive**

**Area Listing (all nodes)**

Area (acres)	CN	Description (subcatchment-numbers)
0.047	96	Gravel surface, HSG B (1S, 2S)
0.040	98	Paved parking, HSG B (2S)
<b>0.087</b>	<b>97</b>	<b>TOTAL AREA</b>

# 1882\_Paved Drive

Prepared by {enter your company name here}

Printed 10/29/2019

HydroCAD® 10.00-22 s/n 04588 © 2018 HydroCAD Software Solutions LLC

Page 3

## Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.047	0.000	0.000	0.000	0.047	Gravel surface	1S, 2S
0.000	0.040	0.000	0.000	0.000	0.040	Paved parking	2S
<b>0.000</b>	<b>0.087</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.087</b>	<b>TOTAL AREA</b>	

**1882\_Paved Drive**

Type II 24-hr 0.5-Inch Rainfall=0.50"

Prepared by {enter your company name here}

Printed 10/29/2019

HydroCAD® 10.00-22 s/n 04588 © 2018 HydroCAD Software Solutions LLC

Page 4

Time span=5.00-24.00 hrs, dt=0.05 hrs, 381 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment1S: EX. STONEDUST DRIVE** Runoff Area=1,895 sf 0.00% Impervious Runoff Depth>0.21"  
Tc=6.0 min CN=96 Runoff=0.02 cfs 0.001 af

**Subcatchment2S: PROPOSEDPAVEDDRIVE** Runoff Area=1,895 sf 93.09% Impervious Runoff Depth>0.32"  
Tc=6.0 min CN=98 Runoff=0.02 cfs 0.001 af

**Total Runoff Area = 0.087 ac Runoff Volume = 0.002 af Average Runoff Depth = 0.26"**  
**53.46% Pervious = 0.047 ac 46.54% Impervious = 0.040 ac**



# 1882\_Paved Drive

Type II 24-hr 0.5-Inch Rainfall=0.50"

Prepared by {enter your company name here}

Printed 10/29/2019

HydroCAD® 10.00-22 s/n 04588 © 2018 HydroCAD Software Solutions LLC

Page 5

## Summary for Subcatchment 1S: EX. STONE DUST DRIVE

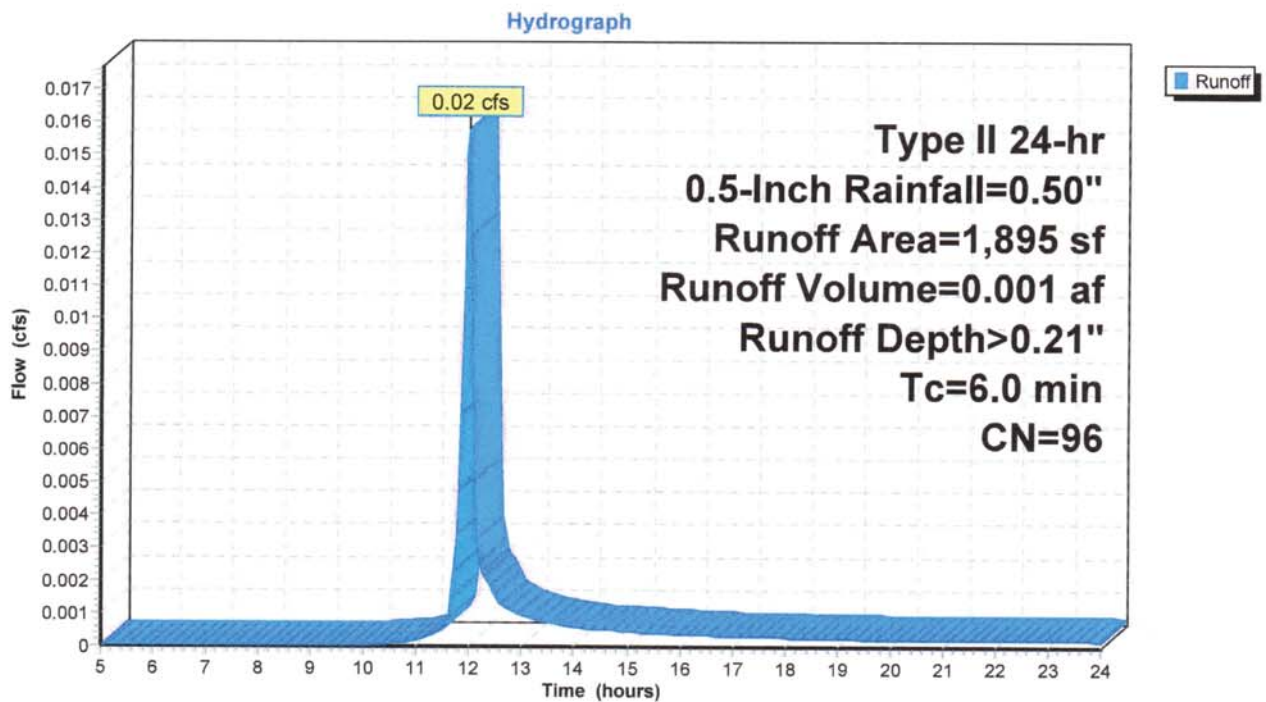
Runoff = 0.02 cfs @ 11.98 hrs, Volume= 0.001 af, Depth> 0.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs  
Type II 24-hr 0.5-Inch Rainfall=0.50"

Area (sf)	CN	Description
1,895	96	Gravel surface, HSG B
1,895		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

## Subcatchment 1S: EX. STONE DUST DRIVE



**1882\_Paved Drive**

Type II 24-hr 0.5-Inch Rainfall=0.50"

Prepared by {enter your company name here}

Printed 10/29/2019

HydroCAD® 10.00-22 s/n 04588 © 2018 HydroCAD Software Solutions LLC

Page 6

**Summary for Subcatchment 2S: PROPOSED PAVED DRIVE**

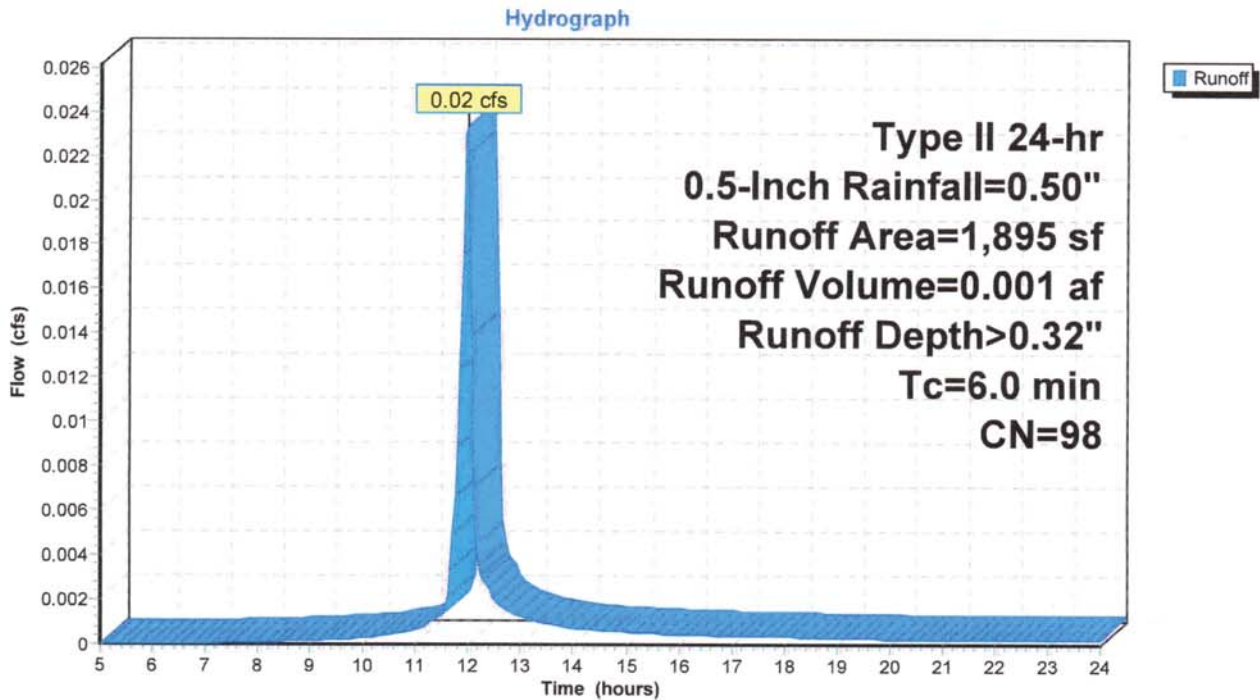
Runoff = 0.02 cfs @ 11.97 hrs, Volume= 0.001 af, Depth> 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-24.00 hrs, dt= 0.05 hrs  
Type II 24-hr 0.5-Inch Rainfall=0.50"

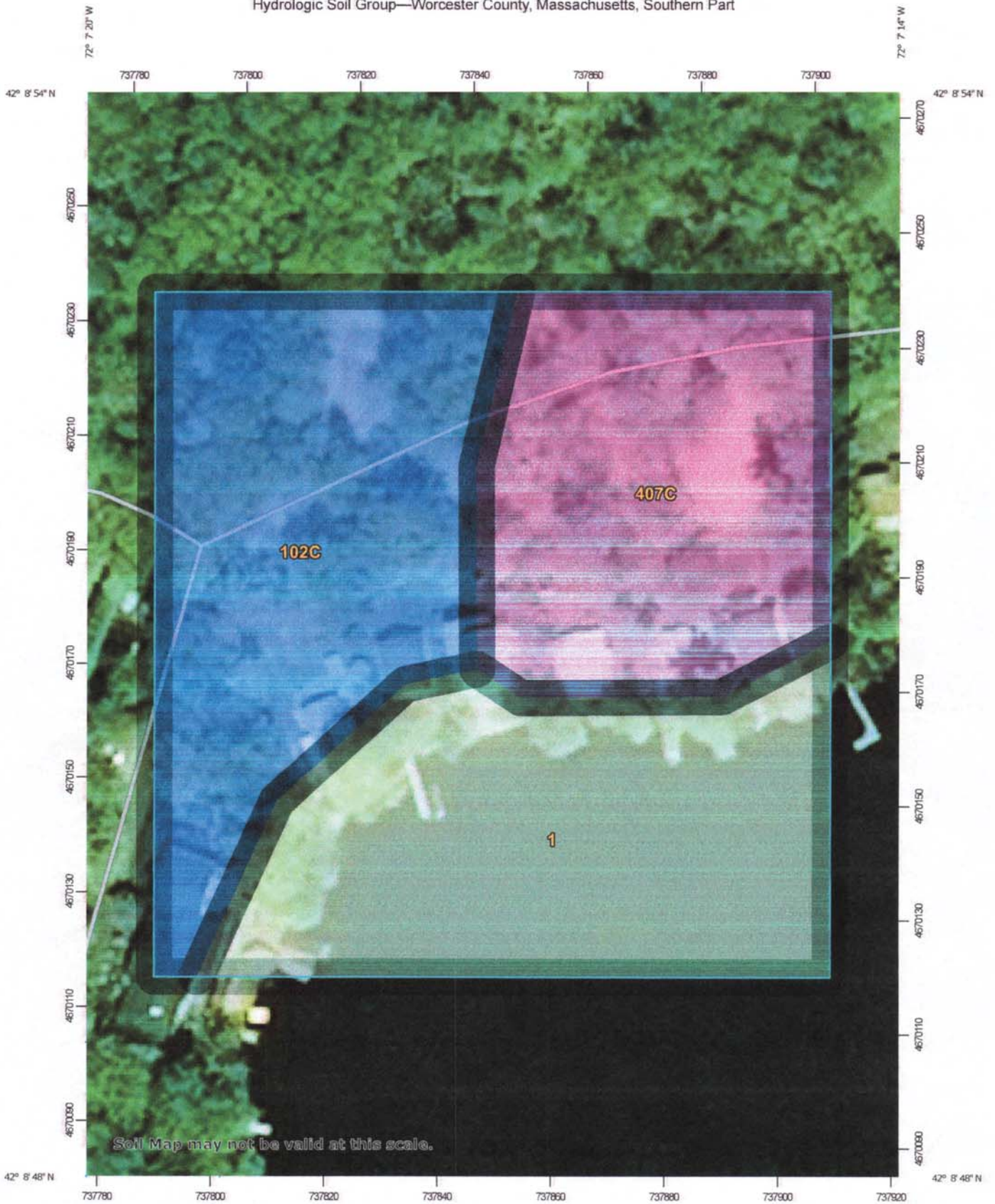
Area (sf)	CN	Description
1,764	98	Paved parking, HSG B
131	96	Gravel surface, HSG B
1,895	98	Weighted Average
131		6.91% Pervious Area
1,764		93.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 2S: PROPOSED PAVED DRIVE**

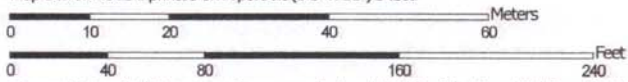


Hydrologic Soil Group—Worcester County, Massachusetts, Southern Part



Soil Map may not be valid at this scale.

Map Scale: 1:923 if printed on A portrait (8.5" x 11") sheet.



































Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



Hydrologic Soil Group—Worcester County, Massachusetts, Southern Part

**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
- Water Features**
-  Streams and Canals
- Transportation**
-  Rails
  -  Interstate Highways
  -  US Routes
  -  Major Roads
  -  Local Roads
- Background**
-  Aerial Photography
- Soil Rating Legend**
-  C
  -  C/D
  -  D
  -  Not rated or not available

**MAP INFORMATION**

The soil surveys that comprise your AOI were mapped at 1:25,000.

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

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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

Soil Survey Area: Worcester County, Massachusetts, Southern Part  
 Survey Area Data: Version 12, Sep 12, 2019

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

Date(s) aerial images were photographed: May 18, 2019—Jul 9, 2019

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.

## Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
1	Water		1.2	34.8%
102C	Chatfield-Hollis-Rock outcrop complex, 0 to 15 percent slopes	B	1.3	35.8%
407C	Charlton fine sandy loam, 8 to 15 percent slopes, extremely stony	A	1.0	29.4%
<b>Totals for Area of Interest</b>			<b>3.5</b>	<b>100.0%</b>

### Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

**Group A.** Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

**Group B.** Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

**Group C.** Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

**Group D.** Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

## Rating Options

*Aggregation Method: Dominant Condition*

*Component Percent Cutoff: None Specified*

*Tie-break Rule: Higher*