

# Steps on How to Make a Flood Map

**Step 1.** Go to the FEMA maps [website](#). Enter the Project location and select Search.

## FEMA Flood Map Service Center: Search By Address

Enter an address, place, or coordinates: ?

Enter an address, place, or coordinates

Search

**Step 2.** A new screen will populate, as shown below.

Search Results—Products for **MONTPELIER, CITY OF**

Show ALL Products »

The flood map for the selected area is number **50023C0264E**, effective on **03/19/2013** ?

DYNAMIC MAP



PRINT MAP/  
FIRMette

MAP IMAGE

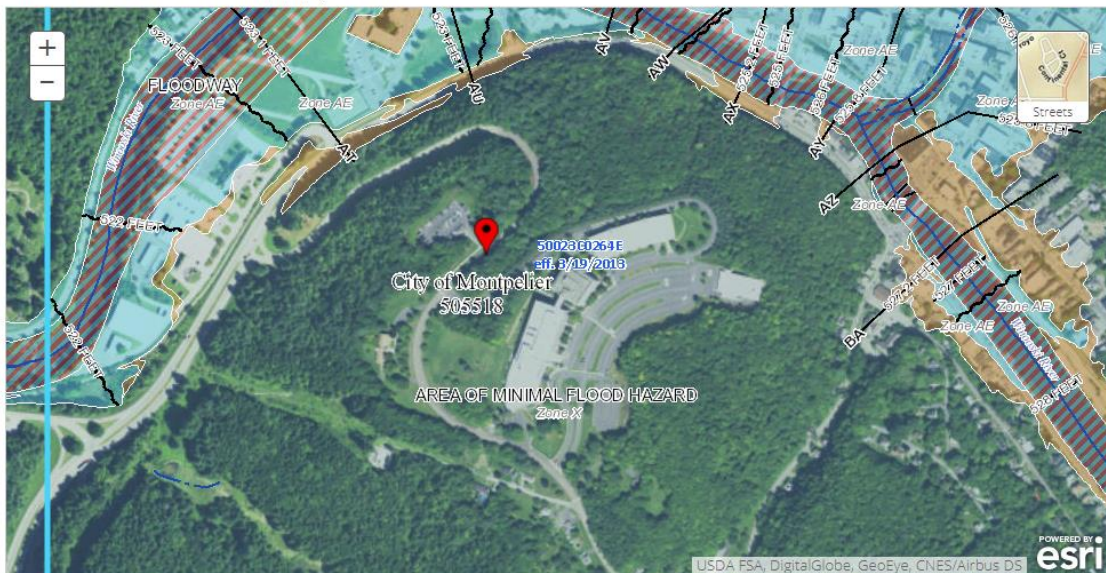


DOWNLOAD  
FIRM PANEL

Changes to this FIRM ?

- Revisions (0)
- Amendments (34)
- Revalidations (1)

You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. NOTE: Please be sure to enable popups for this site.



**Step 3.** Select the Print Map/FIRMEtte option under Dynamic Map.

Search Results—Products for **MONTPELIER, CITY OF**

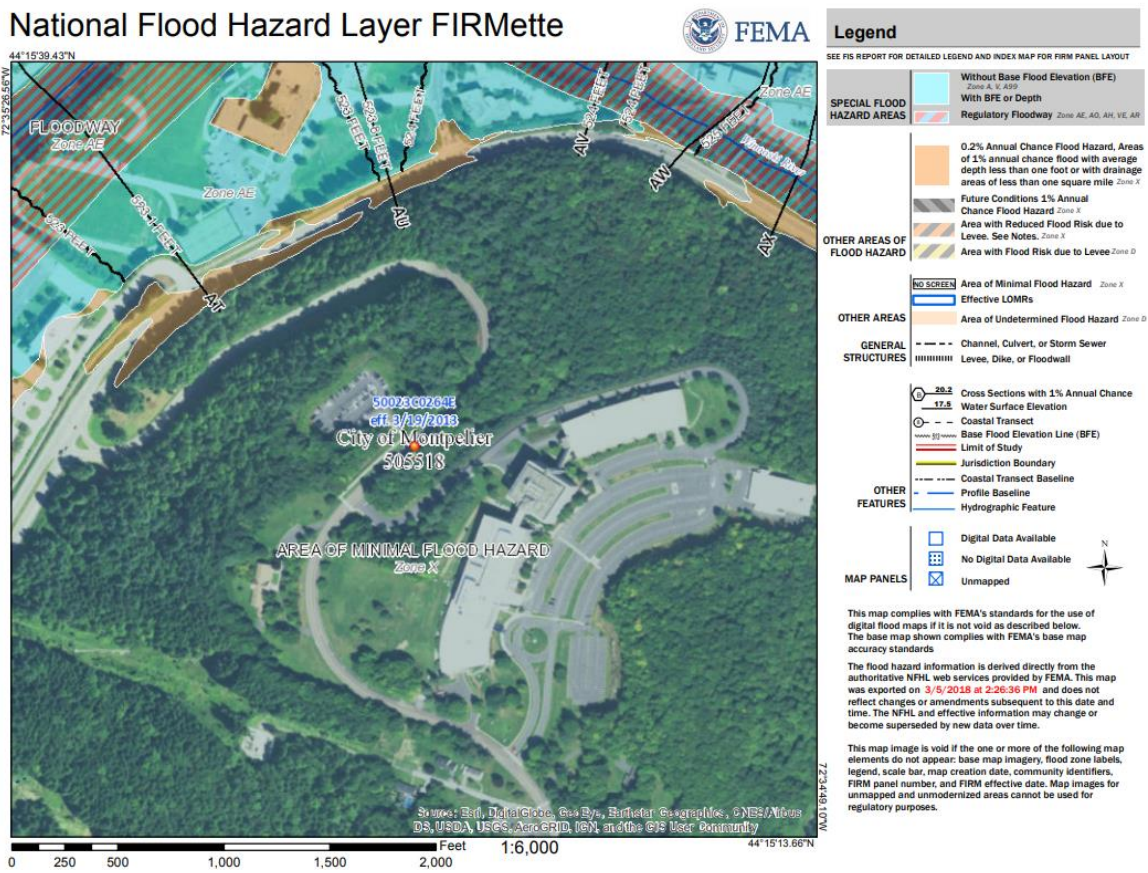
[Show ALL Products »](#)

The flood map for the selected area is number **50023C0264E**, effective on **03/19/2013** ?



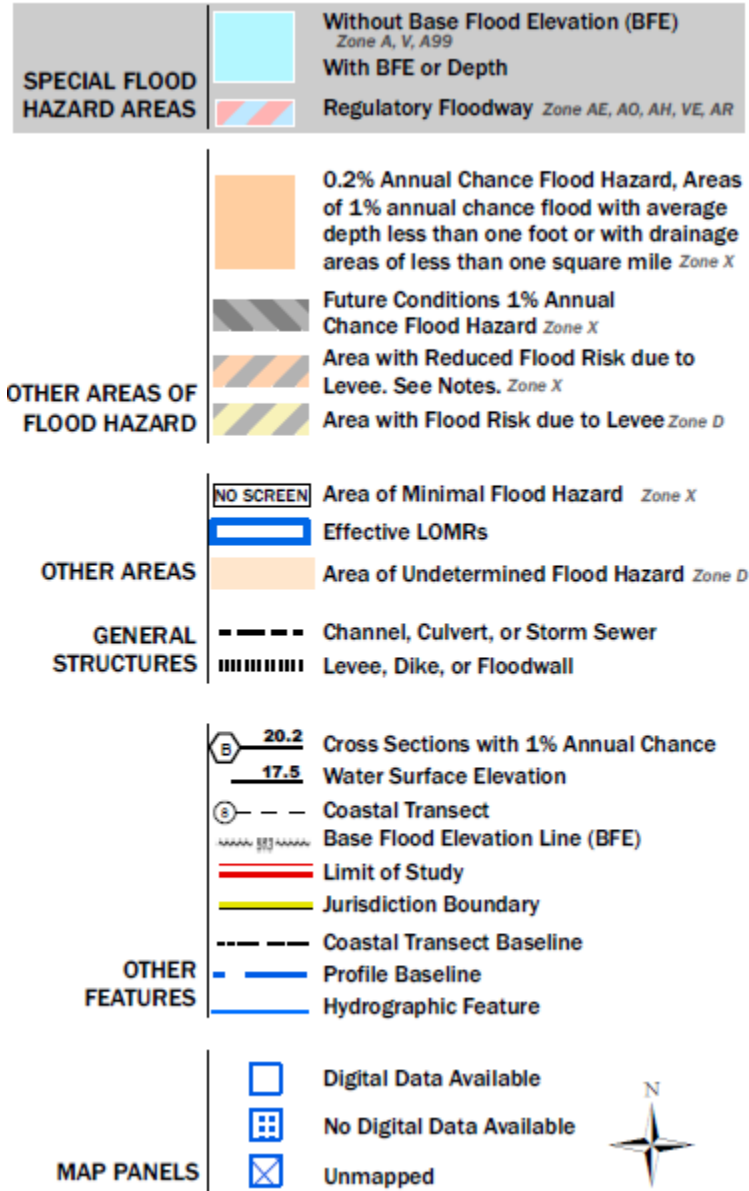
Changes to this FIRM ?  
 Revisions (0)  
 Amendments (34)  
 Revalidations (1)

**Step 4.** A new tab will open and populate with a page similar to the one shown below.



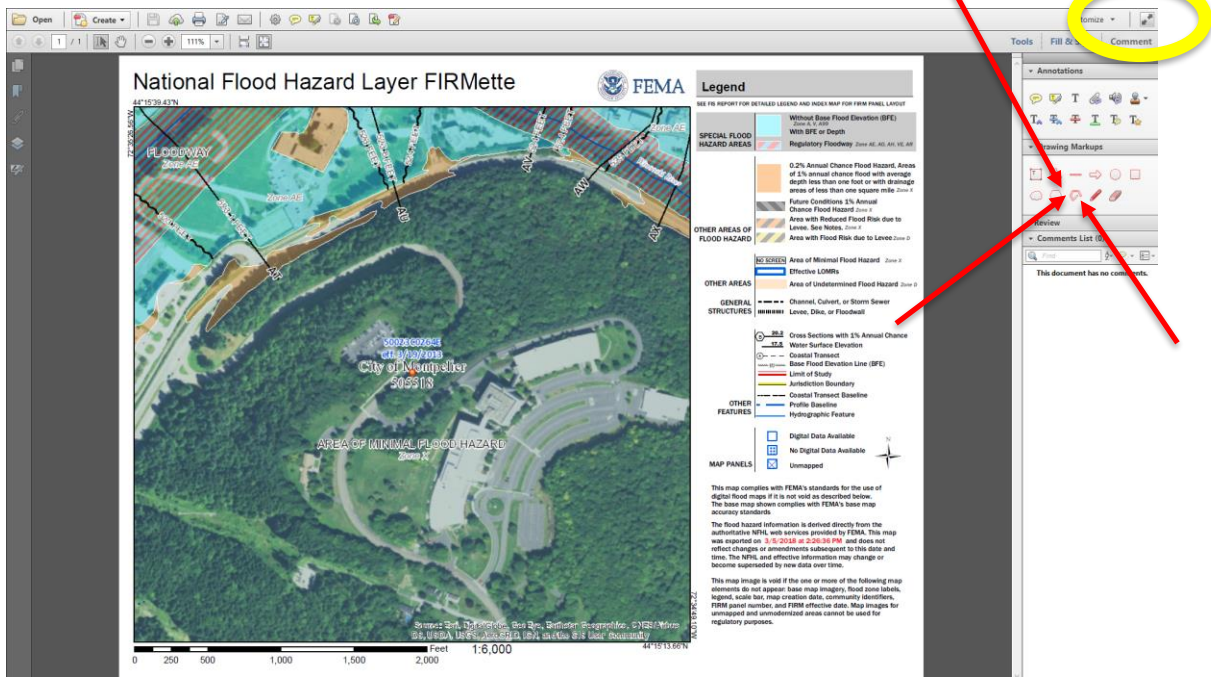
**Step 5.** Right click the map to save as a PDF.

**Step 6.** The legend is in the right-hand column of the map:





**Step 7.** When your FIRMette opens as a pdf. (in Adobe Acrobat) Select the Comments feature on the upper right-hand side, as shown below. Select the draw lines feature to outline the Project Area/Property boundaries on the map.

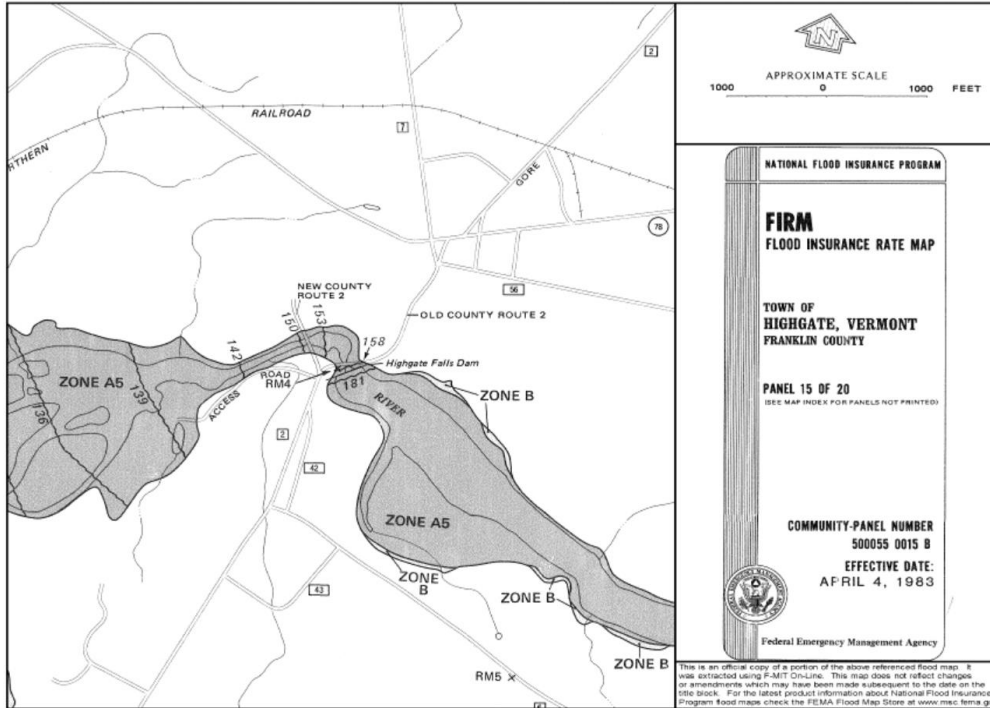


**Step 8.** It is very important to accurately define the project area AND the property boundary, if they differ. Please note: If you submit a FIRMette without project boundaries, it will be returned for edits.

**Step 9.** Upload your labeled FIRMette to the Supporting Documents page.

**Step 10.** Determine if the Project Area contains 100-year floodplain, 500-year floodplain, or floodway and discuss in the checklist and additional documentation if needed (e.g. 8-step).

Please Note: If the FIRMette for your project area is older, your FIRMette may look something more like the following:



In this situation, reference the following legend to determine if your project is within the floodway or floodplain.

### LEGEND

**SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.

**ZONE AE** Base Flood Elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

**ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

**ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

**ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

— 1% Annual Chance Floodplain Boundary

— 0.2% Annual Chance Floodplain Boundary

— Floodway boundary

— Zone D boundary

..... CBRS and OPA boundary

— Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.

513 (EL 987) Base Flood Elevation line and value; elevation in feet\*

Base Flood Elevation value where uniform within zone; elevation in feet\*

\*Referenced to the North American Vertical Datum of 1988

— Cross section line

— Transect line

45° 02' 08", 93° 02' 12" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere

4989000 M 1000-meter ticks: Vermont State Plane Zone (FIPS Zone 4400), Transverse Mercator projection

4989000m N 1000-meter Universal Transverse Mercator grid values, zone 4400

DX5510 X Bench mark (see explanation in Notes to Users section of this FIRM panel)