

Prepared in cooperation with the



EXPLANATION

not to bedrock to bedrock  
Well or test hole  
Number in parenthesis indicates thickness (in feet) of unconsolidated material penetrated. Letters preceding parenthesis identifies location in Table 1. T following number denotes till (hardpan).

Shallow dug hole or natural exposure  
Materials listed in decreasing order of abundance. Read hyphen as "and".

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- Materials Classification:
- t - till (hardpan)
  - bg - boulder gravel
  - cg - cobble gravel
  - pg - pebble gravel
  - g - gravel, undifferentiated
  - s - sand
  - vcs - very coarse-grained sand
  - cs - coarse-grained sand
  - ms - medium-grained sand
  - fs - fine-grained sand
  - vfs - very fine-grained sand
  - st - silt
  - cl - clay
  - m - muck
  - p - peat

Sources of Data  
Massachusetts Dept. of Public Works, Massachusetts Turnpike Authority, Water Superintendent of Warren, Mass. (Charles Burham). Water Superintendent of West Brookfield, Mass. (Thomas Seiferman).

PARTICLE-SIZE CLASSIFICATION  
Classification used in this report  
(Diameter in inches)

COARSE	MEDIUM		FINE	
	Gravel	Sand	Silt	Clay
Boulders	Gravel	Sand	Silt	Clay
1/2" - 4"	4.75 - 0.075"	0.075 - 0.00425"	0.00425 - 0.00025"	< 0.00025"

West coast classification  
(Diameter in millimeters)

Base by U.S. Geological Survey, 1961

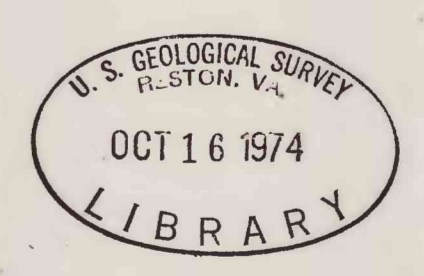
U. S. Geological Survey  
OPEN FILE MAP 74-299  
This map is preliminary and has not been edited for conformity with Geological Survey standards or nomenclature.

MAP SHOWING CHARACTER OF UNCONSOLIDATED MATERIAL AT SELECTED WELL AND TEST HOLES, SHALLOW DUG HOLES, PITS, AND NATURAL EXPOSURES IN THE WARREN QUADRANGLE, MASSACHUSETTS

by J.S. Pomeroy  
1974

Compiled from 1971-73 field data. This map has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

WARREN, MASS.  
N. 42° 05' 50" W. - W. 207° 57' 45"  
1969  
AMS 6518 L. NW SERIES V814



Massachusetts (Warren quad.), Surficial. 1:24,000. 1974.  
Sheet 1  
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