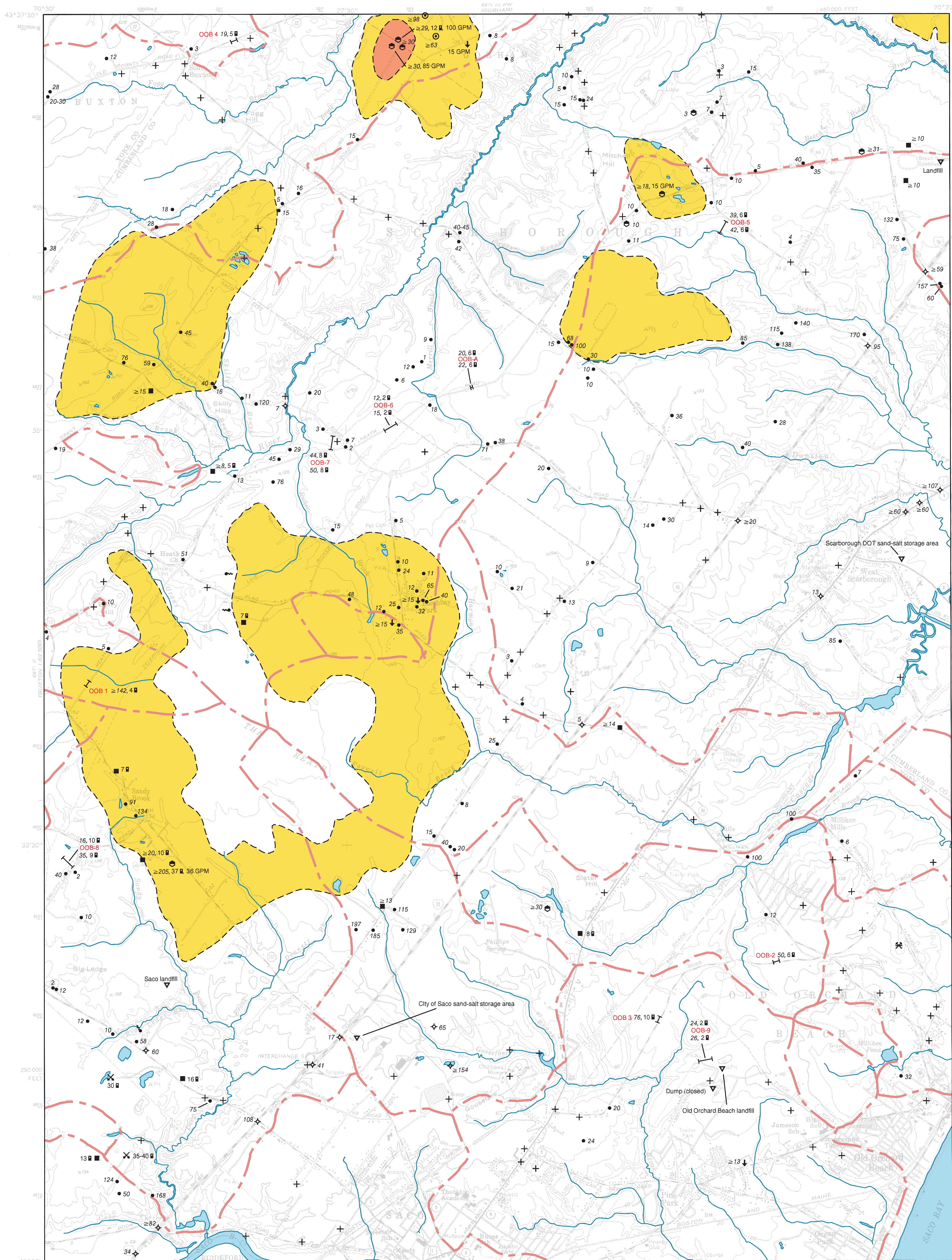


# Significant Sand and Gravel Aquifers



Aquifer boundaries modified from: Lancot, E. M., and Tolman, A. L., 1985. Hydrogeologic data for significant sand and gravel aquifers in parts of York and Cumberland Counties, Maine. Map 4. Maine Geological Survey, Open-File Map 85-93, scale 1:50,000.

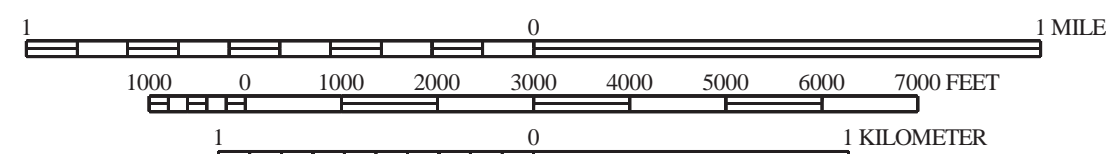
Well inventory data from U.S. Geological Survey Basic-Data Reports and additional data collected by Maine Geological Survey field assistants during the 1978-1984, and 1995 field seasons.

Drainage basin boundaries compiled by U.S. Geological Survey, Water Resources Division, Augusta, Maine, with funding from the Maine Low-Level Radioactive Waste Authority.



Quadrangle Location

SCALE 1:24,000



CONTOUR INTERVAL 20 FEET



Topographic base from U.S. Geological Survey Old Orchard Beach quadrangle, scale 1:24,000 using standard U.S. Geological Survey topographic map symbols.

The use of industry, firm, or local government names on this map is for location purposes only and does not implicate responsibility for any present or potential effects on the natural resources.

## SIGNIFICANT SAND AND GRAVEL AQUIFERS (yields greater than 10 gallons per minute)

- Approximate boundary of surficial deposits with significant saturated thickness where potential ground-water yield is moderate to excellent.
- Surficial deposits with good to excellent potential ground-water yield; yields generally greater than 50 gallons per minute to a properly constructed well. Deposits consist primarily of glacial sand and gravel, but can include areas of sandy till and alluvium; yield zones are based on subsurface data where available, and may vary from mapped extent in areas where data are unavailable.
- Surficial deposits with moderate to good potential ground-water yield; yields generally greater than 10 gallons per minute to a properly constructed well. Deposits consist primarily of glacial sand and gravel, but can include areas of sandy till and alluvium; yields may exceed 50 gallons per minute in deposits hydraulically connected with surface-water bodies, or in extensive deposits where subsurface data are available.

## SURFICIAL DEPOSITS WITH LESS FAVORABLE AQUIFER CHARACTERISTICS (yields less than 10 gallons per minute)

- Areas with moderate to low or no potential ground-water yield (includes areas underlain by till, marine deposits, colluvial deposits, alluvium, swamps, thin glacial sand and gravel deposits, or bedrock); yields in surficial deposits generally less than 10 gallons per minute to a properly constructed well.

## OTHER SOURCES OF INFORMATION

- Tolman, A. L., Tepper, D. H., Prescott, G. C., and Gammon, S. O., 1998. Hydrogeology of significant sand and gravel aquifers, northern York and southern Cumberland Counties, Maine. Maine Geological Survey, Open-File Report 83-1, 4 plates.
- Retelle, M. J., 1998. Surficial materials of the Old Orchard Beach quadrangle, Maine. Maine Geological Survey, Open-File Map 98-146.
- Retelle, M. J., 1999. Surficial geology of the Old Orchard Beach quadrangle, Maine. Maine Geological Survey, Open-File Map 99-94.

- Caswell, W. B., 1987. Ground water handbook for the state of Maine. Second Edition: Maine Geological Survey, Bulletin 39, 135 p.
- Thompson, W. B., 1979. Surficial geology handbook for coastal Maine: Maine Geological Survey, 68 p. (out of print)
- Thompson, W. B., and Borns, H. W., Jr., 1985. Surficial geologic map of Maine: Maine Geological Survey, scale 1:500,000.

## SEISMIC-LINE INFORMATION

Profiles for selected 12-channel seismic lines are shown on Plate 2 of Open-File Report 83-1 (Tolman and others, 1983). Length of 12-channel and single-channel seismic lines as shown on the map is to scale.

- 63 Depth to bedrock, in feet below land surface.
- ≥63 Depth to bedrock exceeds depth shown (based on calculations).
- 12 Depth to water level, in feet below land surface.

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