

DH-4
Altitude: 64 ft above MLLW
SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, T. 41 S., R. 67 E.
Methodist Church Site

Unit	Depth (ft)	Thickness (ft)	Description
1	0-3	3	Fill: Gravel, silty, sandy, brown
2	3-5.8	2.8	Peat: Contains pieces of charcoal, lenses of sand and gravel; water flowed for short period
3	5.8-8.1	2.3	Older delta deposits: Gravel, silty, sandy, brown; moderately firm with minor amounts of clay
4	8.1-14.5	6.4	Sand, silty, gravelly, gray; soft with minor amounts of clay, gravel lenses at 12.5 and 14 ft, scattered cobbles throughout
5	14.5-34.5	20.0	Glaciomarine deposits, first phase: Gravel, silty, sandy, gray; compact, foraminifera recovered from core at 34 ft; natural bulk densities range from 2.27 g/cc to 2.61 g/cc, natural moisture from 0.9 to 9.8 percent
6	34.5-46.8	12.3	Sand, silty, gravelly, gray; soft with scattered cobbles; core from 40-48.6 ft had only 1 ft recovery; swamp gas emitted from hole for several days; natural bulk density 2.41 g/cc, natural moisture at 34.5-35.0, 11.6 percent; may represent change in depositional cycle
7	46.8-62.0	15.2	Gravel, silty, sandy, gray; very compact; recovered foraminifera from core at 55 ft; natural bulk densities range from 2.36 g/cc to 2.57 g/cc, natural moisture from 2.0 to 6.4 percent

DH-3
Altitude: 119 ft above MLLW
SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 41 S., R. 67 E.
Behind Douglas Elementary School

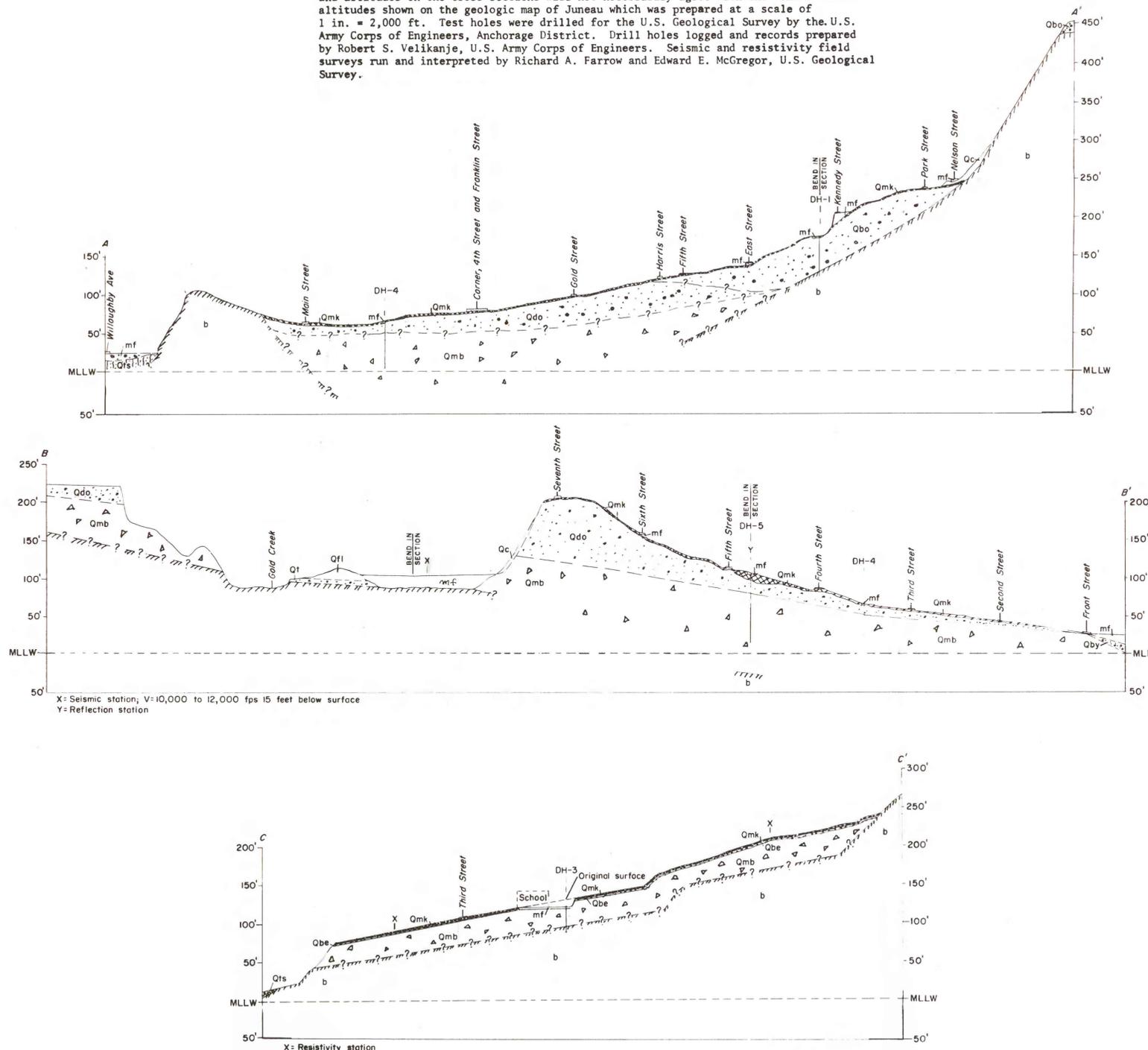
Unit	Depth (ft)	Thickness (ft)	Description
1	0-2.5	2.5	Fill: Gravel, silty, sandy, brown
2	2.5-26.7	24.1	Glaciomarine deposits, first phase: Gravel, silty, sandy, gray; compact with scattered pebbles, thin sandy lenses or zones, and cobbles and boulders; foraminifera recovered from core at depths of 17, 18, and 22.5 ft; natural bulk densities range from 2.00 g/cc to 11.0 g/cc, natural moisture from 3.9 to 12.0 percent
3	26.7-33.3	6.6+	Bedrock: Slate, vertical cleavage

Explanation of geologic units

mf	Manmade fill
Qmk	Peat
Qc	Colluvium
Qf	Debris-flow deposits
Qt	Terrace deposits
Qm	Intertidal deposits
Qby	Modern beach deposits
Qbe	Older raised beach deposits (thin and continuous)
Qbe	Older raised beach deposits (thick and local)
Qdo	Older delta deposits
Qmb	Glaciomarine deposits, first phase
?	Bedrock, undifferentiated

NOTE

Topography in cross sections is from maps prepared for the municipalities of Juneau and Douglas, Alaska, by Wyller, Van Doren, and Hazard, at a scale of 1 in. = 200 ft; also modified from measured sections collected as part of this study. Geologic contacts and altitudes on the cross sections will not necessarily agree with the contacts and altitudes shown on the geologic map of Juneau which was prepared at a scale of 1 in. = 2,000 ft. Test holes were drilled for the U.S. Geological Survey by the U.S. Army Corps of Engineers, Anchorage District. Drill holes logged and records prepared by Robert S. Velikanje, U.S. Army Corps of Engineers. Seismic and resistivity field surveys run and interpreted by Richard A. Farrow and Edward E. McGregor, U.S. Geological Survey.



0 200 400 600 FEET

VERTICAL EXAGGERATION X2

U.S. Geological Survey
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This illustration is preliminary and has not been edited or reviewed for conformity with Geological Survey standards.

(200)
R290
no. 1704

PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

DH-1
Altitude: 174 ft above MLLW
SE cor. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, T. 41 S., R. 67 E.
Near Sixth and Kennedy Sts.

Unit	Depth (ft)	Thickness (ft)	Description
1	0-2	2	Fill: Scattered rocks, bottles, wood, and rusty cans
2	2-5.5	3.5	Older raised beach deposits (thick and local): Gravel, silty, sandy, brown; some wood fragments
3	5.5-15	9.5	Gravel, silty, sandy, 3/4-in. maximum, gray; cobbles in lower 2 ft
4	15-22.5	7.5	Sand, silty, gray; contains some small pebbles
5	22.5-27.2	4.5	Gravel, silty, sandy, gray; more gravelly in upper 2 ft with shell fragments, clayey or silty lenses in lower 2 ft
6	27.2-38.0	10.8	Sand, silty, gravelly, gray; abundant cobbles with shell fragments in upper 1 ft and in middle; artesian flow of water at 36-ft depth, est. 1-2 gal/min
7	38-44.5	6.5	Sand, medium, silty, gray; becomes finer in lower 4 ft
8	44.5-52.0	7.5+	Bedrock: Greenstone

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DH-5
Altitude: 107 ft above MLLW
NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, T. 41 S., R. 67 E.
State Capitol*

Unit	Depth (ft)	Thickness (ft)	Description
1	0-2.5	2.5	Fill: Gravel, silty, sandy, brown; contains sparse scattered cobbles; some humus
2	2.5-10.5	8.0	Peat: Contains 0.5-ft gravel lens at 8.5-9.0 ft; wet
3	10.5-17.5	7.0	Older delta deposits: Sand, gravelly, brown in upper 5 ft, gray below; moderately firm; natural moisture 15.2 percent at 15 ft
4	17.5-25.4	7.9	Sand, gray; firm; natural moisture 13.1 percent at 23 ft
5	25.4-91.0	65.6	Glaciomarine deposits, first phase: Gravel, silty, sandy, gray; very compact; sand and coarse gravel layers at 30.0-34.5 ft; scattered cobbles below 66 ft; natural bulk densities range from 2.39 g/cc to 2.83 g/cc, natural moisture from 2.7 to 13.5 percent

*This hole drilled for the State of Alaska by the U.S. Army Corps of Engineers; log provided by the Corps of Engineers

Explanation of materials units

[Pattern]	Peat
[Pattern]	Silt
[Pattern]	Sand
[Pattern]	Gravel
[Pattern]	Cobbles-boulders
[Pattern]	Diamicton
[Pattern]	Bedrock

May be used separately, or in combination.

Figure 9.--Cross sections A-A' and B-B', through parts of Juneau, Alaska, and C-C', through the northern part of Douglas, Alaska, and boring logs of drill holes shown on the cross sections