

Base map from U. S. Geological Survey
Midvale 7.5' Quadrangle, 1975

SCALE 1:24,000

CONTOUR INTERVAL 5 FEET

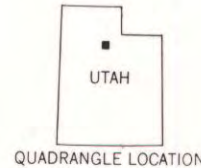
GEOLOGIC MAP OF THE MIDVALE QUADRANGLE, SALT LAKE COUNTY, UTAH

by

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2000

2000 MAGNETIC DECLINATION
AT CENTER OF SHEET



Field work in 1994
Lori J. Douglas, Cartographer

DESCRIPTION OF MAP UNITS

Fill Deposits (Historic)	
Qf	Areas of general fill - <i>Engineered and graded fills; commonly granular material.</i>
Qfl	White lime piles - <i>Located just east of an old sugar refinery in the NW 1/4 section 34, T. 2 S., R. 1 W.</i>
Qfs	Slag - <i>Sharon Steel slag in section 26, T. 2 S., R. 1 W.</i>
Qft	Tailings - <i>Sharon Steel tailings in section 35, T. 2 S., R. 1 W., and Kennecott Utah Copper tailings in sections 18 and 19, T. 3 S., R. 1 W.</i>
Post-Lake Bonneville Deposits (Holocene)	
Qal	Alluvium - <i>Jordan River floodplain alluvium; includes gray, pebbly, fine-grained sand; gray, micaceous, laminated silt; gray, pebbly, fine- to coarse-grained sand; plus other proportions of silt, sand, and gravel; could be as much as 150 feet (46 m) thick.</i>
Qa	Alluvial deposits - <i>Stream and fan alluvium; gray and brown, silty, fine- to coarse-grained sand and gravel (pebbles and cobbles); the Qa in Willow Creek is gray silt and fine-grained sand; 1 to 11 feet (0.3 - 3.4 m) thick.</i>
Qed	Eolian sand dunes - <i>Windblown, fine-grained lacustrine sand deposited as longitudinal, north-trending dunes; 2 to 10 feet (0.6 - 3.0 m) high.</i>
Bonneville Lake Cycle Deposits (late Pleistocene)	
Qlf	Fine-grained lacustrine deposits - <i>Transgressive and regressive, deep-water sediments; brown, dark-brown, grayish-brown, and gray calcareous, laminated silt, clayey silt, and sandy silt; commonly contains isolated pebbles, cobbles, and thin lenses of sand and gravel that were deposited by ice-rafting (dropstones) and turbidity flows; exposed thicknesses range from 1 to 38.6 feet (0.3 - 11.8 m).</i>
Qls	Lacustrine sand - <i>Transgressive and regressive shoreline sand; tan, brown, and gray, calcareous, moderately well-sorted, silty, fine-grained sand; grains are mostly quartz, but chert, calcite, biotite, hornblende, and unidentified black grains are present; ranges from 1 to 35 feet (0.3 - 11 m) thick.</i>
Qlg	Lacustrine gravel - <i>Brown, tan, and gray, silty, fine- to coarse-grained sand and gravel; gravel content ranges from about 40 to 70 percent and commonly consists of angular to subrounded pebbles and cobbles; ranges from 3 to about 100 feet (0.9 - 30 m) thick.</i>
Qdg	Lacustrine delta gravel - <i>Moderately to well-sorted sand and gravel in the delta of Dry Creek; mostly quartz monzonite clasts; gravel content appears to increase eastward from chiefly grayish-brown, silty and pebbly sand at the lower west edge; up to 50 to 60 feet (15 - 18 m) thick.</i>
Qla	Gravel of lacustrine and/or alluvial origin - <i>Brown and gray silt and gravel and sandy silt and gravel in western half of quadrangle; sand components is much larger in eastern half of quadrangle; generally contains 20 to 40 percent gravel, ranges from 1 to about 10 feet (0.3 - 3m) thick.</i>
Pre-Lake Bonneville Deposits (Pleistocene)	
Qpb	Pre-Lake Bonneville deposits - <i>Shown on cross section only; clay, silt, and sand of lacustrine deposits; clay, silt, sand, and gravel of fluvial, interlacustrine deposits; possibly ranges from 500 to 800 feet (150 - 240 m) thick.</i>
Tertiary Rocks (Oligocene to late Pliocene)	
Tsl	Salt Lake Formation - <i>Shown on cross section only; fanglomerate, poorly consolidated mudstone, siltstone, and sandstone; white marlstone, cherty limestone, claystone, and rhyolitic tuff; red to purple andesite and andesite breccia, latite and latite flows, rhyolite, and basalt; ranges from 1,700 to 3,700 feet (500 - 1,100 m) thick.</i>
Pennsylvanian Rocks	
IPo	Oquirrh Formation - <i>Light-gray, highly fractured, fine-grained quartzite; about 10 feet (3 m) exposed in a small outcrop in the southeast corner of the quadrangle.</i>

EXPLANATION OF MAP SYMBOLS

	Contact - Dashed where approximately located
	Gravel or road-fill pit
	Water well
	Line of cross section
	Provo shoreline of Lake Bonneville
	Location of figure in booklet

CORRELATION OF MAP UNITS

