FOLIO OF THE RICHFIELD 1° X 2° QUADRANGLE, UTAH

INTRODUCTION

The Richfield quadrangle is located in west-central Utah and includes the

Bedrock in the northern part of the Richfield quadrangle consists pre-

The regional sampling program was designed to define broad geochemical

SAMPLE COLLECTION AND PREPARATION

Stream-sediment samples were collected at 1,445 sites throughout the

The less-than-0.180-mm fraction of stream sediments was prepared by

ANALYTICAL PROCEDURES

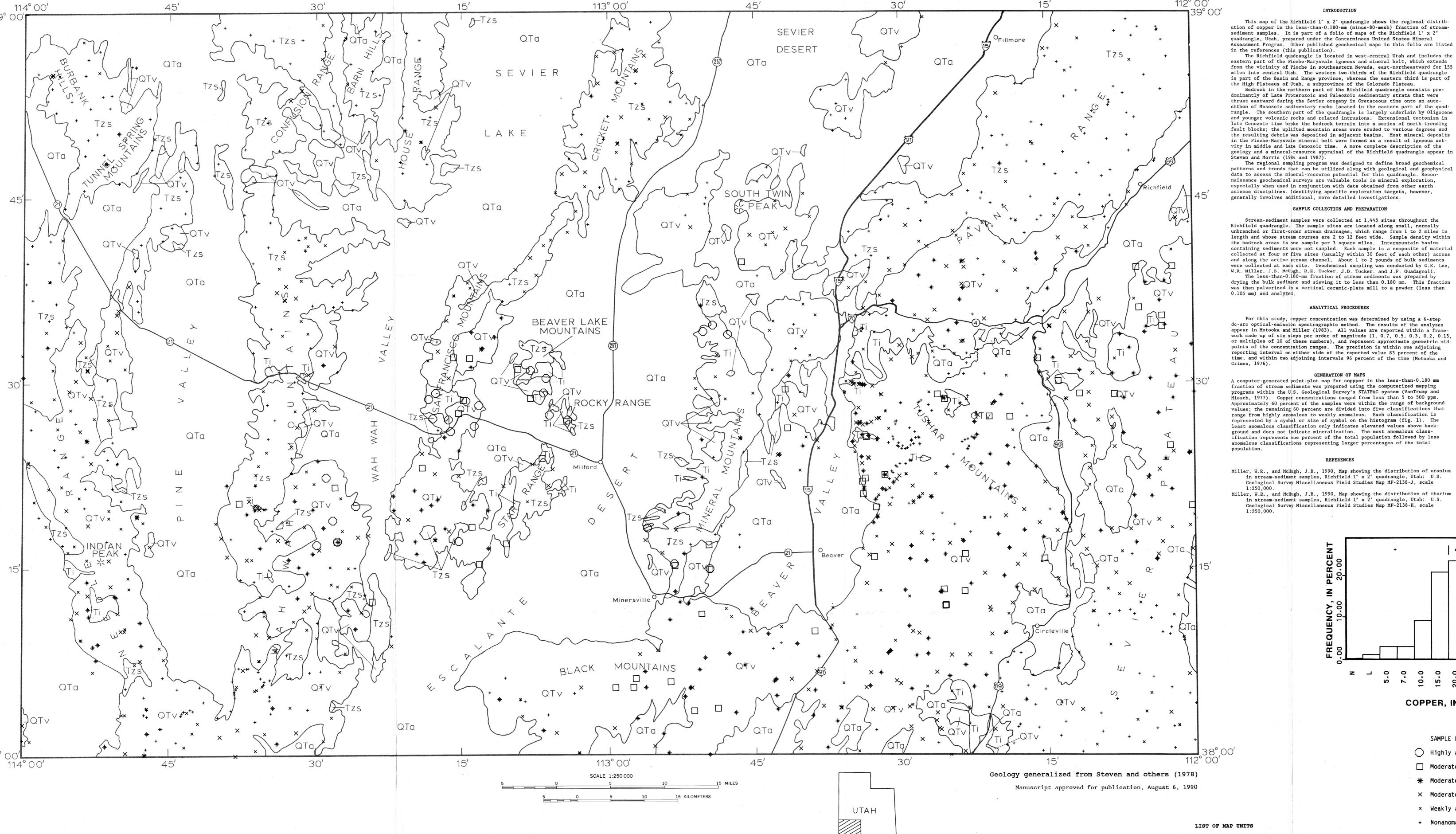
For this study, copper concentration was determined by using a 6-step

GENERATION OF MAPS

in stream-sediment samples, Richfield 1° x 2° quadrangle, Utah: U.S.

Geological Survey Miscellaneous Field Studies Map MF-2138-J, scale

in stream-sediment samples, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2138-H, scale



MAP SHOWING DISTRIBUTION OF COPPER IN STREAM-SEDIMENT SAMPLES, RICHFIELD 1º X 2º QUADRANGLE, UTAH

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INDEX MAP

LIST OF MAP UNITS Surficial deposits, undivided (Quaternary and Tertiary)

Volcanic rocks, undivided Intrusive igneous rocks, undivided (Tertiary)

(Quaternary and Tertiary) Sedimentary rocks, undivided

(Tertiary to Late Proterozoic)

Miller, W.R., Motooka, J.M., and McHugh, J.B., 1980, Distribution of molybdenum in heavy-mineral concentrates, Richfield 1° x 2° quadrangle, This map of the Richfield 1° x 2° quadrangle shows the regional distrib-Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-A, scale 1:500.000.

_____1985, Maps showing distribution of arsenic in heavy-mineral concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey

Miscellaneous Field Studies Map MF-1246-B, scale 1:500,000. _____1985, Maps showing distribution of barium in heavy-mineral concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-C, scale 1:500,000.

___1985, Maps showing distribution of beryllium in heavy-mineral concentrates and stream sediments, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-D, scale _____1985, Maps showing distribution of bismuth in heavy-mineral

concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey

concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-F, scale 1:500,000. ____1985, Maps showing distribution of lead in heavy-mineral concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-G, scale 1:500,000. _____1985, Maps showing distribution of thorium in heavy-mineral

concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-H, scale 1:500,000. _____1985, Maps showing distribution of tin in heavy-mineral concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-I, scale 1:500,000. _____1985, Maps showing distribution of tungsten in heavy-mineral

Miscellaneous Field Studies Map MF-1246-E, scale 1:500,000.

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concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-J, scale 1:500,000. _____1985, Maps showing distribution of zinc in heavy-mineral concentrates. Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1246-K, scale 1:500,000.

_____1990, Map showing the distributions of cadmium and antimony in the nonmagnetic fraction of heavy-mineral concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2137-A, scale 1:250,000.

_____1990, Map showing the distributions of silver in the nonmagnetic fraction of heavy-mineral concentrates, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2137-B,

___1990, Map showing the distribution of barium in stream-sediment samples, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2138-A, scale 1:250,000. _____1990, Map showing the distributions of bismuth and cadmium in stream-

sediment samples, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2138-B, scale 1:250,000. _____1990, Map showing the distribution of molybdenum in stream-sediment

samples, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2138-F, scale 1:250,000. _____1990, Map showing the distribution of lead in stream-sediment samples,

Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2138-E, scale 1:250,000. _1990, Map showing the distribution of silver in stream-sediment samples, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous

Field Studies Map MF-2138-G, scale 1:250,000. __1990, Map showing the distribution of tin in stream-sediment samples, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2138-I, scale 1:250,000. __1990, Map showing the distribution of zinc in stream-sediment samples, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous

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fraction of drainage sediments, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Open-File Report 83-74, 101 p. Steven, T.A., and Morris, H.T., 1984, Mineral resource potential of the Richfield 1° x 2° quadrangle, west-central Utah: U.S. Geological Survey

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SAMPLE LOCALITIES FOR COPPER

EXPLANATION

COPPER, IN PARTS PER MILLION

Highly anomalous value

■ Moderately high anomalous value

* Moderately anomalous value

× Moderately weak anomalous value

× Weakly anomalous value

+ Nonanomalous value

Figure 1.--Histogram showing copper concentrations in stream-sediment samples collected from the Richfield 1° x 2° quadrangle, Utah. Number of samples, 1,445; N, not detected at 5 ppm; L, detected but less than 5 ppm.

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