UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of stream-sediment, heavy-mineral-concentrate, and rock samples from the Orocopia Mountains Wilderness Study Area (CDCA-344), Riverside County, California

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STUDIES RELATED TO WILDERNESS

Bureau of Land Management Wilderness Study Areas

The Federal Land Policy and Management Act (Public Law 94-579, October 21, 1976) requires the U.S. Geological Survey and the U.S. Bureau of Mines to conduct mineral surveys on certain areas to determine their mineral values, if any. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Orocopia Mountains Wilderness Study Area, California Desert Conservation Area (CDCA-344), Riverside County, California.

INTRODUCTION

In March 1982, the U.S. Geological Survey conducted a reconnaissance geochemical survey of the Orocopia Mountains Wilderness Study Area (CDCA-344), Riverside County, California.

The Orocopia Mountains Wilderness Study Area comprises about 53 mi^2 (137 km^2) (34,172 acres) in the southeast corner of Riverside County, California, and lies about 22 mi (35 km) southwest of Desert Center (see fig. 1). Access to the study area is provided on the north by several dirt roads leading up washes from Highway 195 and Interstate 10 and on the south and southeast by way of rough and unimproved roads along Salton Creek Wash.

The study area is almost entirely comprised of the Orocopia Mountains. The Orocopia Mountains lie adjacent to the San Andreas fault and northeast of the Salton Sea. Basement rocks within them include gneiss, anorthosite-syenite complex and Mesozoic granodiorite, granite, and quartz monzonite. The core of the range consists of an antiform of greenschist-facies Orocopia schist (Mesozoic?) that structurally underlies the folded Orocopia thrust. In the northeast section of the study area, about 1,460 m (4,800 ft) of marine lower and middle Eocene beds (Moniobra Formation) are overlain unconformably by about 1,500 m (5,000 ft) of nonmarine Diligencia Formation, mainly of early Miocene age. In the west, about 1,500 m (5,000 ft) of nonmarine sandstone, siltstone, and conglomerate constitute the Mecca and Palm Spring Formations of Plio-Pleistocene age (Crowell, 1975).

The topographic relief in the study area is about 1,200 ft (366 m), with a maximum elevation of 3,815 ft (1,163 m). The climate is arid, and vegetation is quite sparse.

METHODS OF STUDY

Sample Media

Analyses of the stream-sediment samples represent the chemistry of the rock material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying those basins which contain concentrations of elements that may be related to mineral deposits. Heavy-mineral-concentrate samples provide information about the chemistry of certain minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which may be ore related, permits determination of some elements that are not easily detected in stream-sediment samples.

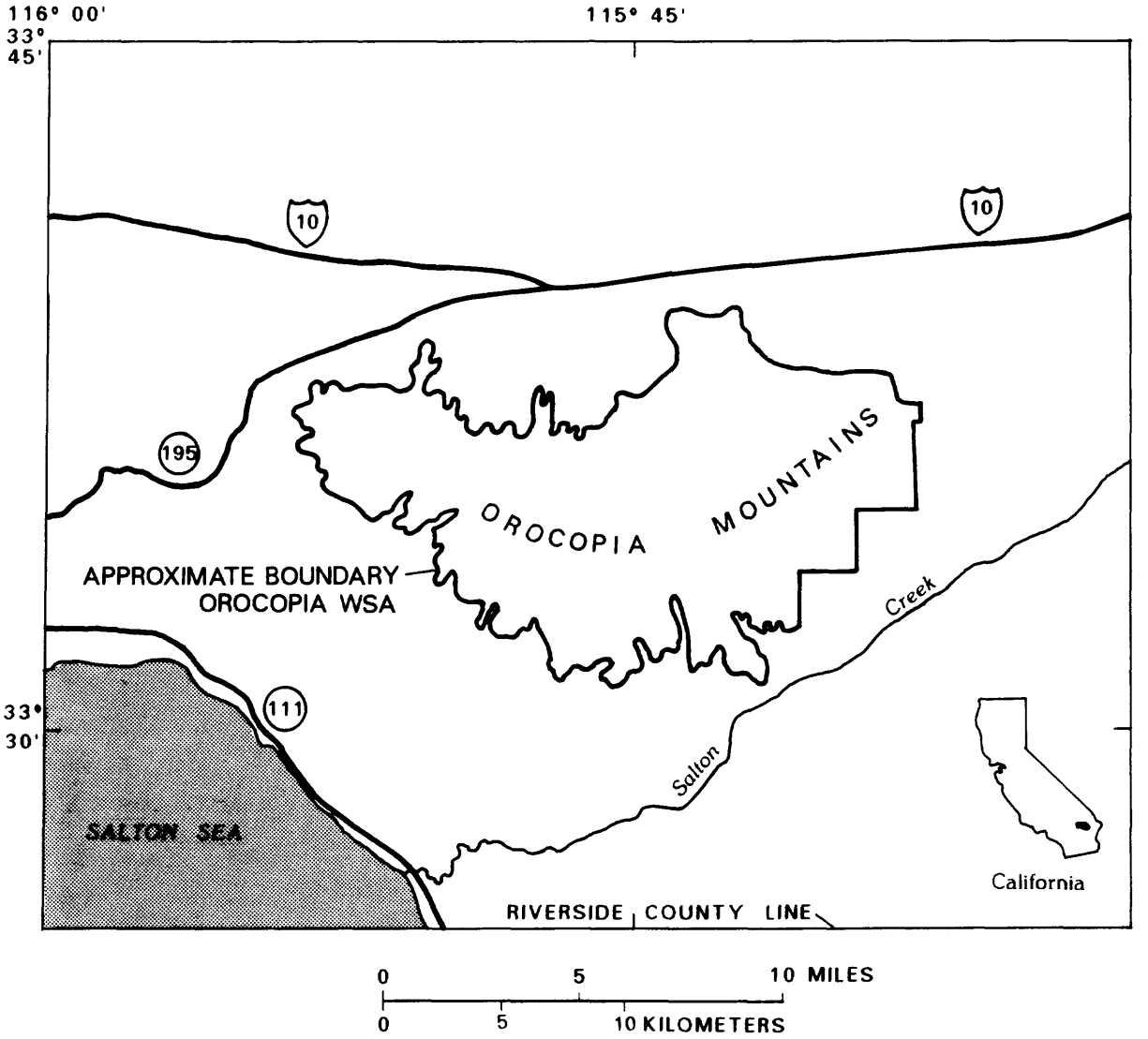

Figure 1. Location map of the Orocopia Mountains Wilderness Study Area (CDCA-344), Riverside County, California.

Analyses of unaltered or unmineralized rock samples provide background geochemical data for individual rock units. On the other hand, analyses of altered or mineralized rocks, where present, may provide useful geochemical information about the major- and trace-element assemblages associated with a mineralizing system.

Sample Collection

There were 55 stream-sediment samples, 54 heavy-mineral-concentrate samples (figure 2), and 302 rock samples (plate 1) collected from in and around the Orocopia Mountains Wilderness Study Area. Average sampling density was about one sample site per 1 mi^2 for the stream sediments and heavy-mineral concentrates, and about one sample site per .14 mi^2 for the rocks.

Stream-sediment samples

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams. Each sample was composited from several localities within an area that may extend as much as 20 ft from the site plotted on the map.

Heavy-mineral-concentrate samples

Heavy-mineral-concentrate samples were collected from the same active alluvium as the stream-sediment samples. Each bulk sample was screened with a 2.0-mm (10-mesh) screen to remove the coarse material. The less than 2.0-mm fraction was panned until most of the quartz, feldspar, organic material, and clay-sized material were removed.

Rock samples

Rock samples were collected from outcrops or exposures in the vicinity of the plotted site location. Samples were collected from unaltered, altered, and mineralized rocks. Table 6 gives a brief description of rock samples.

Sample Preparation

The stream-sediment samples were air dried, then sieved using 80-mesh (0.17-mm) stainless-steel sieves. The portion of the sediment passing through the sieve was saved for analysis.

After air drying, bromoform (specific gravity 2.8) was used to remove the remaining quartz and feldspar from the heavy-mineral-concentrate samples that had been panned in the field. The resultant heavy-mineral sample was separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material, primarily magnetite, was not analyzed. The second fraction, largely ferromagnesian silicates and iron oxides, was saved for archival storage. The third fraction (the least magnetic material which may include the nonmagnetic ore minerals, zircon, sphene, etc.) was split using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.2 ampere to remove the magnetite and

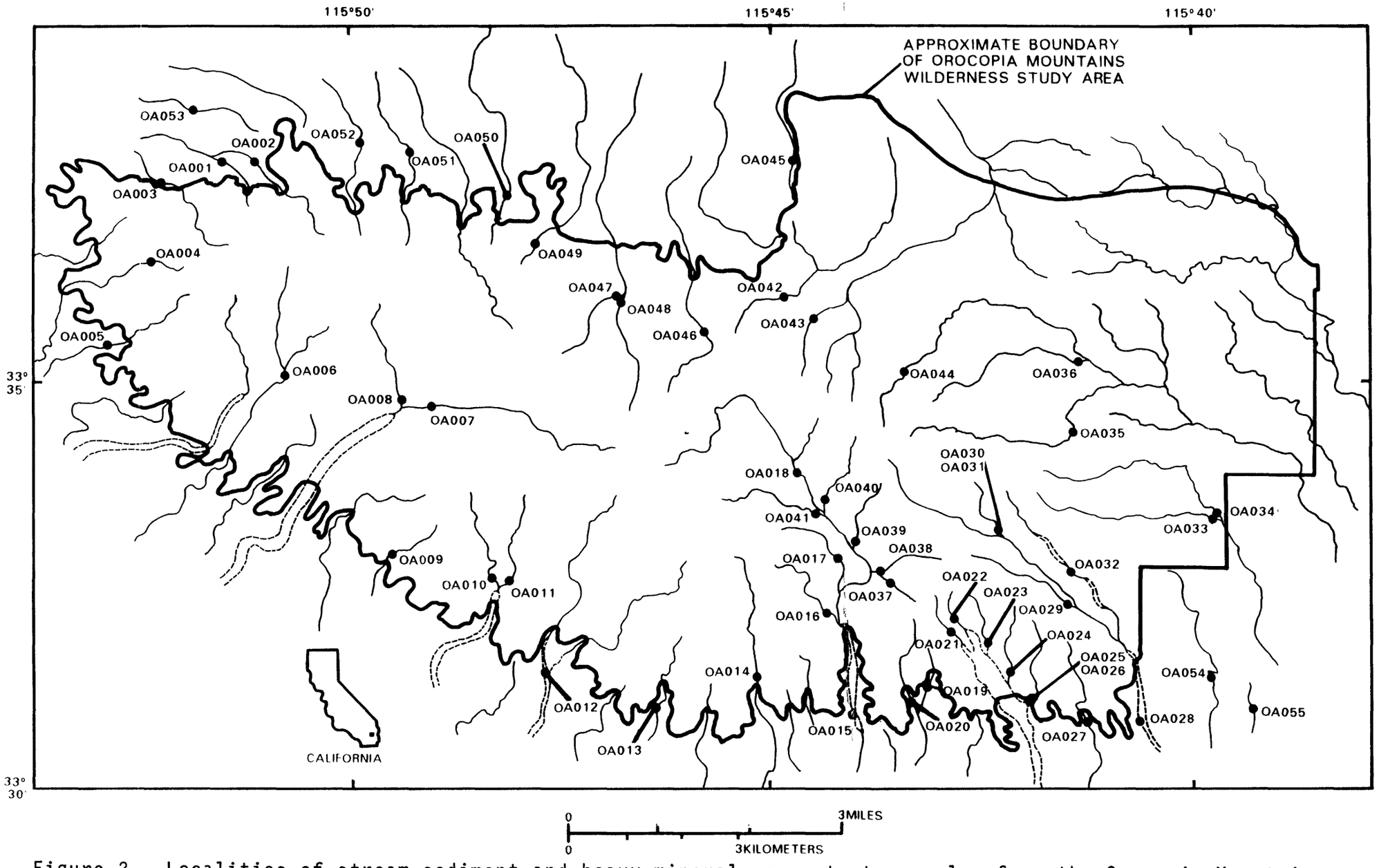

Figure 2. Localities of stream-sediment and heavy-mineral-concentrate samples from the Orocopia Mountains Wilderness Study Area (CDCA-344), Riverside County, California.

ilmenite, and a current of 0.6 ampere to split the remainder of the sample into paramagnetic and nonmagnetic fractions.

Rock samples were crushed and then pulverized to minus 0.15 mm with ceramic plates.

Sample Analysis

Spectrographic method

The stream-sediment, heavy-mineral-concentrate, and rock samples were analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (iron, magnesium, calcium, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data for samples from the Orocopia Mountains Wilderness Study Area are listed in tables 3-5.

Chemical methods

Rock samples from this study area were analyzed for gold, arsenic, antimony, zinc, bismuth, and cadmium using atomic absorption spectroscopy, for mercury using the Jerome Gold-Film Detector, and for uranium using ultraviolet fluorometry. See table 2 for a more detailed summary of these analyses.

Analytical results for stream-sediment, heavy-mineral-concentrate, and rock samples are listed in tables 3, 4, and 5, respectively.

ROCK ANALYSIS STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into a computer-based file called Rock Analysis Storage System (RASS). This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1977).

DESCRIPTION OF DATA TABLES

Tables 3-5 list the results of analyses for the samples of stream sediment, heavy-mineral concentrate, and rock, respectively. For the three tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location maps (figure 2 and plate 1). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic

analyses; "aa" indicates atomic absorption analyses; "inst" indicates instrumental analyses; and "f" indicates fluorometric analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 1. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in tables 3-5 in place of an analytical value. Because of the formatting used in the computer program that produced tables 3-5, some of the elements listed in these tables (Fe, Mg, Ca, Ti, Ag, and Be) carry one or more nonsignificant digits to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros.

ACKNOWLEDGMENTS

A number of our colleagues also participated in the collection, preparation, and analyses of these samples: collection, Vicki Fulkerson and Jon Matti; preparation, Barbara Chazin, Joseph Fontaine, and John Unruh; and analyses, E. A. Bailey, Mark Burkhardt, Gordon Day, D. E. Detra, Kent Goldsmith, A. L. Meier, Leland J. Sherlock, and E. P. Welsch.

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TABLE 1.--Limits of determination for the spectrographic analysis of rocks and stream sediments, based on a 10-mg sample

[The spectrographic limits of determination for heavy-mineral-concentrate samples are based on a 5-mg sample, and are therefore two reporting intervals higher than the limits given for rocks and stream sediments]

Elements	Lower determination limit	Upper determination limit
	Percent	
Iron (Fe)	0.05	20
Magnesium (Mg)	.02	10
Calcium (Ca)	.05	20
Titanium (Ti)	.002	1
	Parts per million	
Manganese (Mn)	10	5,000
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	5	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Lanthanum (La)	20	1,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	10	20,000
Antimony (Sb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Vanadium (V)	10	10,000
Tungsten (W)	50	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Thorium (Th)	100	2,000

TABLE 2.--Chemical methods used

[AA = atomic absorption; I = instrumental; and F = fluorometry]

Element or constituent determined	Sample type	Method	Determination limit (micrograms/ gram or ppm)	Analyst	Reference
Gold (Au)	rocks	AA	0.05	E.P. Welsch, A.L. Meier, and T.A. Roemer	Thompson and others, 1968.
Mercury (Hg)	rocks	I	.02	A.L. Meier, E.P. Welsch, and Kent Goldsmith	Modification of McNerney and others, 1972, and Vaughn, and McCarthy 1964.
Arsenic (As)	rocks	AA	5 or 10	A.L. Meier, E.P. Welsch, and T.A. Roemer	Viets, 1978.
Antimony (Sb)		AA	2		
Zinc (Zn)		AA	5		
Bismuth (Bi)		AA	1		
Cadmium (Cd)		AA	.1		
Uranium (U)	rocks	F	0.05 or 1	Sherlock	Modification of Centanni and others, 1956.

TABLE 3. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
OA001C3	33 37 0	115 51 20	.3	.30	10.0	>2.0	300	N	N	N
OA002C3	33 37 5	115 51 0	.3	.30	5.0	>2.0	150	20	N	N
OA003C3	33 36 50	115 52 5	.5	.30	10.0	>2.0	300	N	N	N
OA004C3	33 36 5	115 52 15	.3	.20	10.0	>2.0	300	30	N	100
OA005C3	33 35 20	115 52 30	.5	.30	10.0	>2.0	500	N	N	N
OA006C3	33 35 5	115 50 40	.5	.30	15.0	>2.0	300	5	N	N
OA007C3	33 34 45	115 49 0	.7	1.00	15.0	>2.0	500	N	N	N
OA008C3	33 34 45	115 49 20	.5	.50	15.0	>2.0	500	N	N	N
OA009C3	33 33 20	115 49 30	.2	.30	10.0	>2.0	300	N	N	N
OA010C3	33 33 5	115 48 15	.3	.30	15.0	>2.0	500	N	N	N
OA011C3	33 33 5	115 48 10	.2	.30	10.0	>2.0	500	N	N	N
OA012C3	33 32 15	115 47 45	.3	.50	10.0	>2.0	500	N	N	N
OA013C3	33 31 55	115 46 25	.5	.70	10.0	>2.0	500	N	N	N
OA015C3	33 31 50	115 44 0	.7	.20	20.0	>2.0	500	N	N	N
OA016C3	33 32 50	115 44 20	.3	.30	15.0	>2.0	300	N	N	N
OA017C3	33 33 20	115 44 10	.5	.20	20.0	>2.0	300	N	N	N
OA018C3	33 34 5	115 44 40	.7	.70	15.0	>2.0	500	N	N	N
OA019C3	33 32 5	115 43 10	1.0	.50	15.0	1.5	700	N	N	N
OA020C3	33 32 0	115 43 20	.5	.20	10.0	2.0	200	N	N	N
OA021C3	33 32 40	115 42 55	1.0	.20	20.0	2.0	700	N	N	N
OA022C3	33 32 45	115 42 50	.5	.15	15.0	.7	500	N	N	N
OA023C3	33 32 30	115 42 25	.7	.20	10.0	1.0	700	N	N	N
OA024C3	33 32 15	115 42 10	.7	.15	10.0	1.5	700	N	N	N
OA025C3	33 32 0	115 41 55	.3	.15	15.0	.7	500	N	N	N
OA026C3	33 32 0	115 41 55	.5	.10	15.0	1.0	300	N	N	N
OA027C3	33 31 50	115 41 15	1.0	.20	20.0	.2	700	N	N	N
OA028C3	33 31 45	115 40 35	.5	.20	15.0	2.0	500	2	1,000	N
OA029C3	33 32 55	115 41 30	.2	.10	10.0	1.0	200	2	N	N
OA030C3	33 33 30	115 42 15	.7	.20	7.0	1.0	500	N	N	N
OA031C3	33 33 30	115 42 15	1.0	.30	5.0	.7	300	N	N	N
OA032C3	33 33 10	115 41 25	1.0	.50	5.0	2.0	200	N	N	N
OA033C3	33 38 40	115 39 45	.5	.30	5.0	2.0	200	N	N	N
OA034C3	33 38 45	115 39 40	.3	.15	5.0	>2.0	200	N	N	N
OA035C3	33 34 30	115 41 25	.7	.10	.2	.5	150	N	N	N
OA036C3	33 35 10	115 41 15	.5	.15	2.0	2.0	200	N	N	N
OA037C3	33 33 5	115 43 35	.5	.10	10.0	.7	300	N	N	N
OA038C3	33 33 15	115 43 40	.5	.20	15.0	1.0	500	N	N	N
OA039C3	33 33 30	115 44 0	.7	.20	5.0	.5	200	N	N	N
OA040C3	33 33 45	115 44 20	.7	.30	5.0	.5	200	N	N	N
OA041C3	33 33 40	115 44 20	.5	.30	10.0	>2.0	300	N	N	N
OA042C3	33 35 45	115 44 45	.5	.15	7.0	2.0	150	N	N	N
OA043C3	33 35 35	115 44 25	.5	.10	10.0	2.0	300	N	N	N
OA044C3	33 35 5	115 43 20	.5	.10	10.0	2.0	200	N	N	N
OA045C3	33 37 5	115 44 35	.7	.15	5.0	>2.0	200	N	N	N
OA046C3	33 35 25	115 45 45	2.0	.70	20.0	1.0	1,000	N	N	N

TABLE 3. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
OA001C3	100	3,000	N	N	N	10	200	<10	N	N	150
OA002C3	100	>10,000	N	N	N	10	100	<10	100	N	<50
OA003C3	50	7,000	N	N	N	10	150	<10	N	N	150
OA004C3	50	>10,000	N	N	N	10	100	<10	N	N	150
OA005C3	70	5,000	N	N	N	10	150	<10	N	N	150
OA006C3	50	2,000	N	N	N	10	200	<10	N	N	150
OA007C3	200	700	N	N	N	10	300	10	<50	N	150
OA008C3	70	5,000	N	N	N	10	200	<10	N	N	200
OA009C3	50	1,500	N	N	N	10	150	<10	<50	N	100
OA010C3	70	700	N	N	N	10	150	<10	N	N	100
OA011C3	70	1,000	N	N	N	10	150	<10	N	10	200
OA012C3	70	1,000	N	N	N	10	200	<10	N	N	150
OA013C3	100	700	N	N	N	10	200	<10	<50	N	100
OA015C3	300	>10,000	N	N	N	10	30	<10	500	N	50
OA016C3	70	10,000	N	N	N	10	200	<10	N	N	150
OA017C3	300	>10,000	N	N	N	10	30	<10	150	N	70
OA018C3	200	>10,000	N	N	N	10	100	<10	200	N	100
OA019C3	50	>10,000	N	N	N	10	<20	<10	200	N	N
OA020C3	50	10,000	N	N	N	N	20	<10	300	N	N
OA021C3	50	5,000	N	N	N	<10	<20	<10	700	N	N
OA022C3	50	10,000	N	N	N	N	<20	<10	500	N	N
OA023C3	70	>10,000	N	20	N	<10	<20	<10	1,000	N	N
OA024C3	70	>10,000	N	N	N	N	<20	<10	500	N	N
OA025C3	20	10,000	N	20	N	N	N	N	300	N	N
OA026C3	20	10,000	N	N	N	N	N	<10	500	N	N
OA027C3	<20	10,000	N	N	N	10	N	<10	500	N	N
OA028C3	5,000	>10,000	<2	100	70	N	<20	150	700	15	50
OA029C3	700	>10,000	N	N	N	N	N	N	200	<10	N
OA030C3	700	>10,000	N	N	N	10	<20	<10	200	10	<50
OA031C3	700	>10,000	N	N	N	10	N	150	200	50	<50
OA032C3	1,500	>10,000	<2	N	N	10	70	<10	150	70	70
OA033C3	1,000	>10,000	<2	N	N	N	30	<10	300	<10	50
OA034C3	300	>10,000	<2	N	N	N	20	<10	300	15	70
OA035C3	200	3,000	N	N	N	N	N	N	200	N	N
OA036C3	70	>10,000	N	N	N	<10	N	<10	500	N	70
OA037C3	50	10,000	N	N	N	N	<20	N	1,000	N	N
OA038C3	1,500	10,000	N	N	N	<10	30	<10	1,000	N	50
OA039C3	200	>10,000	N	N	N	10	N	<10	100	N	N
OA040C3	200	>10,000	N	N	N	10	N	<10	100	N	N
OA041C3	100	>10,000	N	N	N	10	100	10	100	N	100
OA042C3	200	>10,000	N	N	N	N	<20	<10	300	N	<50
OA043C3	200	>10,000	N	N	N	<10	<20	<10	700	N	<50
OA044C3	300	>10,000	N	N	N	N	<20	<10	300	N	<50
OA045C3	100	3,000	2	150	N	<10	<20	<10	300	N	70
OA046C3	20	2,000	N	N	N	15	20	<10	200	N	N

TABLE 3. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Th-ppm s
OA001C3	<10	70	N	--	<20	700	100	N	300	N	N
OA002C3	N	100	N	--	N	1,000	70	N	500	N	N
OA003C3	N	50	N	--	<20	700	100	N	300	N	N
OA004C3	N	30	N	--	N	1,000	150	N	300	N	N
OA005C3	N	70	N	--	<20	500	150	N	300	N	N
OA006C3	N	300	N	--	30	500	100	N	500	N	N
OA007C3	30	100	N	--	<20	500	150	N	300	N	N
OA008C3	N	70	N	--	30	700	100	N	500	N	N
OA009C3	N	200	N	--	<20	700	100	N	500	N	N
OA010C3	N	50	N	--	<20	700	70	N	500	N	N
OA011C3	N	200	N	--	30	500	100	N	500	N	N
OA012C3	N	70	N	--	30	500	100	N	500	N	N
OA013C3	20	150	N	--	<20	500	100	<100	500	N	N
OA015C3	N	50	N	--	N	2,000	70	N	1,000	N	N
OA016C3	20	70	N	--	N	2,000	70	<100	500	N	N
OA017C3	N	20	N	--	N	5,000	100	N	300	N	N
OA018C3	30	70	N	--	N	1,500	100	N	500	N	N
OA019C3	N	<20	N	--	N	2,000	70	N	700	N	N
OA020C3	N	30	N	--	N	700	30	N	1,000	N	N
OA021C3	N	20	N	--	N	1,500	30	N	1,000	N	N
OA022C3	N	100	N	--	N	<200	20	N	2,000	N	N
OA023C3	N	100	N	--	N	<200	30	N	3,000	N	<200
OA024C3	N	150	N	--	N	200	20	N	2,000	N	<200
OA025C3	N	70	N	--	N	300	20	N	1,500	N	N
OA026C3	N	70	N	--	N	300	20	N	2,000	N	N
OA027C3	N	<20	N	--	N	700	20	N	700	N	N
OA028C3	N	7,000	N	--	300	10,000	150	1,000	1,500	N	200
OA029C3	N	300	N	--	N	10,000	20	<100	2,000	N	N
OA030C3	N	1,000	N	--	N	>10,000	30	N	500	N	N
OA031C3	N	200	N	--	N	>10,000	30	N	200	N	N
OA032C3	N	70	N	--	N	>10,000	70	N	700	N	200
OA033C3	N	100	N	--	30	7,000	70	N	1,000	N	N
OA034C3	N	300	N	--	N	3,000	100	N	1,500	N	N
OA035C3	N	30	N	--	N	<200	50	N	1,000	N	N
OA036C3	N	50	N	--	N	1,000	70	N	500	N	N
OA037C3	N	30	N	--	N	700	<20	N	1,000	N	N
OA038C3	N	70	N	--	N	5,000	50	N	2,000	N	<200
OA039C3	N	<20	N	--	N	>10,000	20	N	200	N	N
OA040C3	N	20	N	--	N	>10,000	20	N	150	N	N
OA041C3	N	20	N	--	N	>,000	100	N	300	N	N
OA042C3	N	20	N	--	N	5,000	30	N	1,000	N	N
OA043C3	N	70	N	--	N	,000	30	N	1,500	N	N
OA044C3	N	70	N	--	N	2,000	30	N	1,000	N	N
OA045C3	N	70	N	--	<20	1,000	100	N	1,500	N	<200
OA046C3	N	N	N	--	N	1,000	70	N	500	N	N

TABLE 3. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
OA047C3	33 35 50	115 46 45	1.0	.10	20.0	.7	700	N	N	N
OA048C3	33 35 45	115 46 45	1.0	.30	10.0	.7	700	N	N	N
OA049C3	33 36 15	115 47 50	.5	.15	5.0	1.0	200	N	N	N
OA050C3	33 36 50	115 48 5	.7	.20	10.0	2.0	300	N	N	N
OA051C3	33 37 10	115 49 15	1.5	.70	20.0	1.0	700	N	N	N
OA052C3	33 37 15	115 49 50	.5	.30	20.0	2.0	500	N	N	N
OA053C3	33 37 30	115 51 40	1.0	.20	7.0	2.0	700	N	N	N
OA054C3	33 31 55	115 39 20	.7	.15	20.0	1.0	700	N	N	N
OA055C3	33 32 15	115 39 50	.5	.20	7.0	2.0	300	N	N	N

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
OA047C3	<20	5,000	N	N	N	N	N	<10	500	N	N
OA048C3	20	3,000	N	N	N	N	<20	<10	300	N	N
OA049C3	50	>10,000	<2	N	N	N	N	<10	500	N	N
OA050C3	70	>10,000	N	N	N	<10	20	<10	300	N	<50
OA051C3	50	10,000	N	N	N	15	20	<10	300	N	<50
OA052C3	50	>10,000	N	N	N	<10	20	<10	300	N	<50
OA053C3	20	1,500	N	N	N	N	<20	<10	500	N	N
OA054C3	20	1,000	N	N	N	N	<20	1,500	1,000	<10	<50
OA055C3	1,500	>10,000	N	N	N	N	20	<10	500	20	<50

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Th-ppm s
OA047C3	N	N	N	--	N	700	<20	N	700	N	N
OA048C3	N	<20	N	--	N	700	20	N	700	N	N
OA049C3	N	30	N	--	N	500	20	N	1,000	N	N
OA050C3	N	1,500	N	--	N	1,500	50	N	700	N	N
OA051C3	N	30	N	--	N	1,000	30	N	300	N	N
OA052C3	N	20	N	--	N	1,500	50	N	500	N	N
OA053C3	N	70	N	--	N	<200	30	N	700	N	N
OA054C3	N	100	N	--	N	<200	30	N	3,000	N	<200
OA055C3	N	200	N	--	N	>10,000	50	N	1,500	N	<200

TABLE 4. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm
			s	s	s	s	s	s	s	s
OA001	33 37 0	115 51 20	3	2.0	1	.3	700	N	N	N
OA002	33 37 5	115 51 0	3	2.0	1	.5	700	N	N	N
OA003	33 36 50	115 52 5	3	1.0	1	.3	700	N	N	N
OA004	33 36 5	115 52 15	3	2.0	1	.3	700	N	N	N
OA005	33 35 20	115 52 30	3	2.0	1	.3	700	N	N	N
OA006	33 35 5	115 50 40	3	2.0	1	.3	700	N	N	N
OA007	33 34 45	115 49 0	3	2.0	1	.3	500	N	N	N
OA008	33 34 45	115 49 20	3	2.0	1	.3	700	N	N	N
OA009	33 33 20	115 49 30	3	2.0	1	.3	700	.5	N	N
OA010	33 33 5	115 48 15	3	2.0	1	.3	700	N	N	N
OA011	33 33 5	115 48 10	3	2.0	1	.3	700	N	N	N
OA012	33 32 15	115 47 45	3	2.0	2	.3	700	N	N	N
OA013	33 31 55	115 46 25	3	2.0	2	.3	700	N	N	N
OA014	33 32 10	115 45 15	3	2.0	2	.3	700	N	N	N
OA015	33 31 50	115 44 0	3	2.0	2	.5	700	N	N	N
OA016	33 32 50	115 44 20	3	2.0	2	.3	500	N	N	N
OA017	33 33 20	115 44 10	3	2.0	2	.3	500	N	N	N
OA018	33 34 5	115 44 40	3	2.0	2	.3	500	N	N	N
OA019	33 32 5	115 43 10	10	1.0	1	1.0	1,000	N	N	N
OA020	33 32 0	115 43 20	5	2.0	2	.5	1,000	N	N	N
OA021	33 32 40	115 42 55	5	1.0	2	.5	1,000	N	N	N
OA022	33 32 45	115 42 50	5	1.0	1	.3	700	N	N	N
OA023	33 32 30	115 42 25	5	1.0	1	.5	700	N	N	N
OA024	33 32 15	115 42 10	10	1.0	2	.5	1,000	N	N	N
OA025	33 32 0	115 41 55	5	1.0	2	.2	700	N	N	N
OA026	33 32 0	115 41 55	5	1.0	1	.5	700	N	N	N
OA027	33 31 50	115 41 15	10	2.0	2	1.0	2,000	N	N	N
OA028	33 31 45	115 40 35	5	1.0	1	.3	500	N	N	N
OA029	33 32 55	115 41 30	5	2.0	1	.5	700	N	N	N
OA030	33 33 30	115 42 15	5	1.0	1	.3	1,000	N	N	N
OA031	33 33 30	115 42 15	5	1.0	1	.3	700	N	N	N
OA032	33 33 10	115 41 25	5	1.0	1	.3	700	N	N	N
OA033	33 38 40	115 39 45	5	2.0	2	.5	700	N	N	N
OA034	33 38 45	115 39 40	5	1.0	1	.3	500	N	N	N
OA035	33 34 30	115 41 25	3	1.0	1	.3	500	N	N	N
OA036	33 35 10	115 41 15	3	.5	1	.3	700	N	N	N
OA037	33 33 5	115 43 35	10	1.0	1	.5	1,000	N	N	N
OA038	33 33 15	115 43 40	5	2.0	1	.5	700	N	N	N
OA039	33 33 30	115 44 0	5	1.0	1	.2	1,000	N	N	N
OA040	33 33 45	115 44 20	5	1.0	1	.2	1,000	N	N	N
OA041	33 33 40	115 44 20	5	1.0	1	.5	1,000	N	N	N
OA042	33 35 45	115 44 45	3	1.0	1	.2	700	N	N	N
OA043	33 35 35	115 44 25	3	.5	2	.3	700	N	N	N
OA044	33 35 5	115 43 20	3	.5	1	.2	500	N	N	N
OA045	33 37 5	115 44 35	3	.5	1	.3	700	N	N	N

TABLE 4. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
OA001	30	500	1	N	N	50	200	20	20	N	N
OA002	30	500	1	N	N	20	200	20	20	N	N
OA003	20	500	1	N	N	20	200	20	30	N	N
OA004	20	500	1	N	N	30	200	20	50	N	N
OA005	20	500	1	N	N	30	200	20	30	N	N
OA006	20	500	1	N	N	20	200	20	30	N	N
OA007	20	500	1	N	N	20	200	20	30	N	N
OA008	50	500	1	N	N	20	200	20	30	N	N
OA009	30	500	1	N	N	20	150	20	50	N	N
OA010	20	500	1	N	N	15	200	20	30	N	N
OA011	30	500	1	N	N	20	200	15	30	N	N
OA012	50	500	1	N	N	20	200	20	100	N	N
OA013	30	500	1	N	N	20	200	20	100	N	N
OA014	50	500	1	N	N	20	300	20	50	N	N
OA015	500	700	1	N	N	20	100	20	50	N	N
OA016	100	500	1	N	N	20	200	20	100	N	N
OA017	50	2,000	1	N	N	20	200	20	50	N	N
OA018	150	500	1	N	N	20	100	20	100	N	N
OA019	50	2,000	N	N	N	30	100	20	50	N	N
OA020	100	1,000	1	N	N	30	200	20	50	N	N
OA021	10	500	1	N	N	20	100	15	100	N	N
OA022	100	1,000	1	N	N	20	100	20	100	N	N
OA023	200	500	2	N	N	20	100	15	200	N	N
OA024	100	1,000	2	N	N	20	100	15	200	N	<20
OA025	100	700	2	N	N	20	100	15	100	N	N
OA026	100	700	1	N	N	20	100	15	100	N	<20
OA027	50	1,000	N	N	N	50	100	20	50	5	<20
OA028	500	700	1	N	N	20	150	15	20	N	N
OA029	300	500	1	N	N	20	150	15	50	<5	<20
OA030	1,000	1,000	2	N	N	15	70	15	50	5	N
OA031	2,000	700	2	N	N	20	70	20	50	15	N
OA032	1,500	700	2	N	N	20	70	20	50	N	<20
OA033	500	500	1	N	N	20	150	15	50	N	<20
OA034	500	700	2	N	N	10	70	15	50	N	<20
OA035	500	700	2	N	N	10	70	15	50	N	N
OA036	300	500	2	N	N	10	50	15	50	N	N
OA037	50	1,000	1	N	N	10	50	15	200	N	<20
OA038	500	500	1	N	N	20	150	15	100	10	N
OA039	1,000	3,000	2	N	N	20	100	15	50	5	N
OA040	1,000	2.000	2	N	N	20	70	15	50	N	N
OA041	70	500	1	N	N	20	150	20	50	N	N
OA042	500	500	2	N	N	10	50	15	20	N	N
OA043	500	1,500	2	N	N	15	70	15	50	N	<20
OA044	500	1,500	2	N	N	15	70	15	20	N	<20
OA045	100	500	2	N	N	10	50	15	100	N	<20

TABLE 4. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
OA001	100	30	N	15	N	100	100	N	20	<200	100	N
OA002	70	30	N	10	N	100	100	N	20	<200	1,000	N
OA003	70	30	N	15	N	100	100	N	20	<200	200	N
OA004	100	30	N	20	N	200	100	N	30	<200	200	N
OA005	70	20	N	20	N	200	100	N	30	<200	200	N
OA006	100	30	N	15	N	100	70	N	20	<200	200	N
OA007	70	30	N	15	N	100	70	N	20	<200	200	N
OA008	70	30	N	20	N	150	100	N	30	<200	200	N
OA009	70	50	N	15	N	200	100	N	20	<200	200	N
OA010	70	30	N	15	N	150	100	N	20	<200	200	N
OA011	70	30	N	15	N	150	100	N	20	<200	100	N
OA012	100	20	N	15	N	300	100	N	30	<200	200	N
OA013	100	30	N	15	N	300	100	N	30	<200	200	N
OA014	100	20	N	15	N	300	100	N	30	<200	200	N
OA015	30	20	N	15	N	500	100	N	50	<200	500	N
OA016	100	30	N	15	N	500	100	N	30	<200	200	N
OA017	70	30	N	15	N	500	100	N	30	<200	200	N
OA018	50	30	N	15	N	500	100	N	30	<200	200	N
OA019	30	10	N	15	N	500	100	N	70	<200	1,000	N
OA020	100	30	N	15	N	500	100	N	50	<200	500	N
OA021	10	30	N	15	N	200	50	N	50	<200	500	N
OA022	30	50	N	15	N	100	70	N	70	<200	500	N
OA023	30	50	N	15	N	200	100	N	100	<200	1,000	N
OA024	30	50	N	15	N	200	100	N	100	<200	1,000	N
OA025	50	50	N	15	N	200	70	N	50	<200	500	N
OA026	50	30	N	20	N	200	100	N	100	<200	500	N
OA027	30	10	N	20	N	500	50	N	50	<200	200	N
OA028	30	30	N	10	N	200	100	N	20	N	200	N
OA029	50	30	N	15	N	200	100	N	50	<200	200	N
OA030	30	20	N	10	N	500	70	N	30	<200	200	N
OA031	30	50	N	15	N	500	100	N	30	<200	150	N
OA032	30	50	N	15	N	500	100	N	50	<200	200	N
OA033	50	20	N	20	N	200	100	N	50	<200	500	N
OA034	20	30	N	10	N	100	50	N	50	<200	200	N
OA035	20	30	N	10	N	200	100	N	20	<200	200	N
OA036	20	30	N	10	N	200	70	N	20	<200	200	N
OA037	20	30	N	15	N	200	50	N	100	<200	500	N
OA038	50	30	N	15	N	200	100	N	100	<200	500	N
OA039	30	30	N	15	N	2,000	50	N	50	<200	150	N
OA040	30	30	N	10	N	500	100	N	50	<200	200	N
OA041	100	20	N	10	N	200	100	N	50	<200	150	N
OA042	20	20	N	7	N	200	50	N	30	<200	200	N
OA043	20	20	N	10	N	200	100	N	50	<200	300	N
OA044	20	30	N	10	N	200	50	N	50	<200	200	N
OA045	20	30	N	10	N	200	50	N	50	<200	500	N

TABLE 4. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
OA046	33 35 25	115 45 45	5	2.0	2	.5	1,500	N	N	N
OA047	33 35 50	115 46 45	10	1.0	1	.5	1,000	N	N	N
OA048	33 35 45	115 46 45	10	1.0	2	.5	1,000	N	N	N
OA049	33 36 15	115 47 50	5	1.0	1	.3	700	N	N	N
OA050	33 36 50	115 48 5	5	1.0	1	.3	500	N	N	N
OA051	33 37 10	115 49 15	5	2.0	2	.3	700	N	N	N
OA052	33 37 15	115 49 50	5	2.0	2	.5	700	N	N	N
OA053	33 37 30	115 51 40	7	1.0	1	1.0	1,500	N	N	N
OA054	33 31 55	115 39 20	5	1.0	2	.5	1,000	N	N	N
OA055	33 32 15	115 39 50	5	2.0	1	.5	700	N	N	N

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
OA046	20	700	1	N	N	50	70	20	50	N	N
OA047	20	700	N	N	N	15	50	15	30	N	<20
OA048	20	500	N	N	N	15	50	15	100	N	<20
OA049	20	500	1	N	N	15	50	15	50	N	20
OA050	50	500	1	N	N	15	70	15	30	N	N
OA051	50	500	1	N	N	50	100	20	50	N	N
OA052	30	500	N	N	N	70	200	20	50	N	<20
OA053	15	500	N	N	N	20	50	20	100	N	<20
OA054	50	500	2	N	N	30	50	15	200	N	N
OA055	150	500	1	N	N	50	150	20	70	<5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
OA046	50	10	N	15	N	200	50	N	50	<200	300	N
OA047	20	10	N	20	N	200	50	N	50	<200	300	N
OA048	15	10	N	20	N	200	50	N	50	N	1,000	N
OA049	20	20	N	20	N	200	50	N	50	N	1,000	N
OA050	50	20	N	10	N	200	50	N	20	N	500	N
OA051	30	20	N	15	N	200	70	N	30	<200	200	N
OA052	70	20	N	15	N	200	100	N	50	<200	300	N
OA053	20	30	N	15	N	100	20	N	100	<200	1,000	N
OA054	30	50	N	15	<10	100	70	N	150	<200	1,000	N
OA055	50	20	N	15	N	300	100	N	70	<200	300	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
OA015R	33 31 50	115 44 0	5.00	2.00	1.00	.200	700	N	N	N	30	700	1.0
OA023R	33 32 30	115 42 25	.50	.05	1.00	.050	1,000	N	N	N	<10	100	2.0
OA050R	33 36 50	115 48 35	10.00	2.00	1.00	1.000	1,000	N	N	N	70	200	1.0
OA051R	33 37 10	115 49 15	2.00	10.00	10.00	.050	1,000	N	N	N	20	200	1.0
OA052R	33 37 15	115 49 50	10.00	3.00	2.00	1.000	2,000	N	N	N	200	5,000	N
OA056R	33 32 50	115 43 0	5.00	.05	2.00	.200	500	N	N	N	10	50	1.0
OA057R	33 33 0	115 43 0	.50	.02	.05	.010	100	10.0	N	15	<10	<20	1.0
OA057RA	33 33 0	115 43 0	2.00	2.00	2.00	.100	700	N	N	N	<10	50	1.0
OA029R	33 32 50	115 41 25	1.50	.15	.50	.100	70	N	N	N	70	500	N
OA029RA	33 32 50	115 41 20	20.00	5.00	15.00	>1.000	2,000	N	N	N	20	150	<5.0
OA029RB	33 32 50	115 41 20	3.00	.30	.50	.200	200	<.5	N	N	50	500	N
OA058R	33 33 25	115 42 25	15.00	7.00	10.00	>1.000	1,500	N	N	N	30	700	N
OA059R	33 32 50	115 41 15	15.00	7.00	15.00	1.000	2,000	N	N	N	50	100	N
OA060R	33 32 35	115 41 0	10.00	2.00	3.00	>1.000	700	N	N	N	50	1,000	N
OMP01	33 31 49	115 42 22	2.00	.30	1.00	.200	300	N	N	N	<10	1,000	N
OMP02	33 31 49	115 42 22	7.00	.70	10.00	.500	100	N	N	N	30	300	N
OMP03	33 36 15	115 49 9	1.00	.20	.30	.100	70	N	N	N	10	1,000	<1.0
OMP04	33 36 15	115 49 9	1.50	.30	.30	.100	70	N	N	N	10	700	<1.0
OMP05	33 36 15	115 49 9	15.00	7.00	7.00	1.000	1,000	<.5	N	N	10	700	N
OMP06	33 36 15	115 49 9	10.00	3.00	5.00	1.000	1,000	N	N	N	<10	3,000	<1.0
OMP07	33 36 14	115 49 32	7.00	2.00	2.00	.700	1,000	N	N	N	10	500	1.0
OMP08	33 35 49	115 48 12	15.00	5.00	3.00	1.000	1,000	N	N	N	N	700	1.0
OMP09	33 34 28	115 45 47	2.00	.50	.70	.200	100	N	N	N	10	1,000	<1.0
OMP10	33 34 28	115 45 47	10.00	2.00	5.00	.700	1,000	N	N	N	N	500	1.0
OMP11	33 34 35	115 45 35	2.00	.50	.70	.200	100	N	N	N	N	1,000	N
OMP12	33 31 21	115 42 7	10.00	1.50	7.00	1.000	1,000	N	N	N	20	300	N
OMP13	33 35 54	115 48 16	1.50	.30	.30	.150	100	N	N	N	10	1,000	<1.0
OMP14	33 36 1	115 48 4	10.00	5.00	5.00	1.000	500	N	N	N	20	1,500	N
OMP15	33 36 3	115 47 58	10.00	5.00	3.00	1.000	500	N	N	N	10	700	N
OMP16	33 31 29	115 40 55	15.00	5.00	5.00	1.000	700	N	N	N	30	300	N
OMP17	33 31 29	115 40 55	10.00	5.00	7.00	.500	700	3.0	N	N	N	200	N
OMP18	33 31 8	115 40 48	7.00	2.00	5.00	1.000	500	N	N	N	N	100	N
OMP19	33 31 8	115 40 48	7.00	3.00	3.00	.700	500	N	N	N	N	500	N
OMP20	33 31 12	115 40 56	2.00	.30	1.50	.200	500	N	N	N	10	200	<1.0
OMP21	33 31 17	115 40 58	7.00	1.00	5.00	.700	700	N	N	N	10	500	N
OMP22	33 31 0	115 41 41	10.00	2.00	5.00	>1.000	700	N	N	N	N	500	N
OMP23	33 34 41	115 46 7	10.00	2.00	5.00	1.000	1,000	N	N	N	15	1,500	1.5
OMP24	33 32 11	115 42 11	2.00	.50	1.50	.200	300	N	N	N	150	2,000	N
OMV01	33 31 55	115 43 3	5.00	2.00	1.00	.500	500	N	N	N	20	100	<1.0
OMV02	33 33 18	115 46 47	2.00	.70	.70	.200	300	N	N	N	20	700	1.5
OMV03	33 31 42	115 42 19	3.00	.70	.50	.300	500	N	N	N	70	700	2.0
OMV04	33 31 42	115 42 19	2.00	.50	.50	.100	300	N	N	N	50	1,000	1.5
OMV05	33 33 7	115 42 54	5.00	3.00	1.50	.500	1,000	N	N	N	10	150	N
OMV06	33 33 5	115 42 36	10.00	5.00	1.50	.500	1,000	N	N	N	10	150	N
OMV07	33 32 53	115 42 18	7.00	7.00	1.50	.500	1,000	<.5	N	N	10	N	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
OA015R	N	N	10	70	50	50	N	N	50	10	N	7	N	200
OA023R	N	N	5	10	10	N	N	20	5	50	N	5	N	100
OA050R	N	N	50	200	50	20	N	N	70	50	N	50	N	200
OA051R	N	N	15	50	10	N	N	N	20	100	N	5	N	2,000
OA052R	N	N	15	<10	20	100	N	<20	5	N	N	20	N	200
OA056R	N	N	10	<10	50	N	N	N	N	N	N	5	N	200
OA057R	N	N	10	<10	30	N	N	N	5	N	N	N	N	N
OA057RA	N	N	20	200	15	N	N	N	50	30	N	7	N	200
OA029R	N	N	N	<10	N	N	N	N	N	30	N	--	N	N
OA029RA	N	N	70	10	7	50	N	N	20	30	N	--	20	100
OA029RB	N	N	5	10	<5	N	5	N	N	50	N	--	N	N
OA058R	N	N	70	300	50	70	N	N	150	10	N	--	N	1,000
OA059R	N	N	50	700	30	N	15	N	200	10	N	--	N	300
OA060R	N	N	15	30	20	50	N	<20	10	30	N	--	N	200
OMP01	N	N	N	N	N	20	N	N	N	20	N	--	N	1,000
OMP02	N	N	15	<10	30	N	N	N	N	N	N	--	N	1,500
OMP03	N	N	N	N	N	N	N	N	N	10	N	--	N	300
OMP04	N	N	5	<10	<5	N	N	N	N	N	N	--	N	300
OMP05	N	N	100	1,000	100	N	N	N	300	N	N	--	N	200
OMP06	N	N	70	200	100	N	N	N	100	N	N	--	N	300
OMP07	N	N	50	100	30	20	N	N	20	N	N	--	N	100
OMP08	N	N	100	300	200	N	N	N	100	N	N	--	N	200
OMP09	N	N	10	<10	5	20	N	N	N	N	N	--	N	300
OMP10	N	N	30	10	7	30	N	N	N	10	N	--	N	500
OMP11	N	N	5	N	10	N	N	N	N	10	N	--	N	300
OMP12	N	N	10	N	N	N	N	N	N	N	N	--	N	1,500
OMP13	N	N	N	<10	<5	20	N	N	N	10	N	--	N	200
OMP14	N	N	100	70	100	N	N	N	50	N	N	--	N	700
OMP15	N	N	70	500	200	20	N	N	200	N	N	--	N	300
OMP16	N	N	100	700	100	N	N	N	200	N	N	--	N	200
OMP17	N	N	70	2,000	70	N	5	N	300	N	N	--	N	150
OMP18	N	N	50	<10	15	N	N	N	N	N	N	--	N	1,000
OMP19	N	N	100	200	100	30	N	N	100	N	N	--	N	500
OMP20	N	N	N	N	N	N	N	N	N	15	N	--	N	700
OMP21	N	N	15	N	N	20	N	N	N	10	N	--	N	1,500
OMP22	N	N	30	150	150	20	N	N	30	10	N	--	N	500
OMP23	N	N	50	30	70	30	N	N	15	10	N	--	N	700
OMP24	N	N	N	N	N	N	N	N	N	10	N	--	N	700
OMV01	N	N	20	20	20	50	N	<20	15	10	N	20	N	150
OMV02	N	N	5	10	15	N	N	N	7	70	N	5	N	500
OMV03	N	N	7	<10	10	70	N	<20	5	20	N	7	N	200
OMV04	N	N	N	<10	5	70	<5	20	5	20	N	10	N	100
OMV05	N	N	70	50	200	N	N	N	150	10	N	30	N	150
OMV06	N	N	100	20	300	N	N	N	300	20	N	30	N	200
OMV07	N	N	70	500	100	N	N	N	500	N	N	20	N	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	U-ppm f
OA015R	200	50	N	20	<200	150	N	N	.06	50	40	.1	N	2	--
OA023R	100	10	N	50	<200	50	N	N	.12	10	10	.2	N	1	--
OA050R	200	200	N	50	<200	200	N	N	N	10	180	.1	N	1	--
OA051R	2,000	20	N	20	<200	N	N	N	.04	10	110	.2	N	2	--
OA052R	200	20	N	30	<200	100	N	N	N	15	170	.2	N	4	--
OA056R	200	10	N	10	<200	10	N	N	.02	30	30	N	<2	N	--
OA057R	N	<10	N	N	N	N	N	32.00	.36	N	5	N	2	N	--
OA057RA	200	20	N	N	N	10	N	.40	.06	N	180	.1	<2	N	--
OA029R	N	15	N	10	N	--	N	<.05	<.02	<5	10	N	<2	N	--
OA029RA	100	300	N	100	200	--	N	N	<.02	N	130	.1	<2	N	--
OA029RB	N	20	N	20	N	--	N	<.05	<.02	10	10	N	N	N	--
OA058R	1,000	200	N	50	N	--	N	N	<.02	10	50	N	N	N	--
OA059R	300	300	N	20	<200	--	N	N	<.02	5	180	N	<2	N	--
OA060R	200	100	N	50	N	--	N	N	<.02	N	75	N	<2	N	--
OMP01	1,000	20	N	N	N	70	N	N	N	N	--	--	--	N	.55
OMP02	1,500	150	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMP03	300	<10	N	10	N	50	N	N	N	N	--	--	--	N	.30
OMP04	300	<10	N	N	N	30	N	N	N	N	--	--	--	N	.15
OMP05	200	300	N	30	N	50	N	N	N	N	--	--	--	N	.20
OMP06	300	200	N	50	N	30	N	N	<.02	N	--	--	--	N	.30
OMP07	100	100	N	70	N	100	N	N	N	N	--	--	--	N	.20
OMP08	200	150	N	15	N	50	N	N	N	N	--	--	--	N	.20
OMP09	300	15	N	N	N	150	N	N	N	N	--	--	--	N	.20
OMP10	500	150	N	50	N	70	N	N	N	N	--	--	--	1	.20
OMP11	300	15	N	N	N	70	N	N	N	N	--	--	--	N	.20
OMP12	1,500	70	N	10	N	20	N	N	N	N	--	--	--	N	.20
OMP13	200	20	N	N	N	150	N	N	N	N	--	--	--	N	.25
OMP14	700	300	N	15	N	50	N	N	N	N	--	--	--	N	.20
OMP15	300	200	N	30	N	30	N	N	N	N	--	--	--	N	.45
OMP16	200	300	N	15	N	30	N	N	N	N	--	--	--	25	.05
OMP17	150	200	N	10	N	<10	N	N	.12	N	--	--	--	N	.20
OMP18	1,000	100	N	15	N	N	N	N	.04	N	--	--	--	N	.35
OMP19	500	200	N	20	N	100	N	N	.04	N	--	--	--	N	.25
OMP20	700	10	N	N	N	100	N	N	N	N	--	--	--	N	.55
OMP21	1,500	50	N	10	N	10	N	N	<.02	N	--	--	--	N	.40
OMP22	500	200	N	30	N	100	N	N	<.02	N	--	--	--	1	.30
OMP23	700	200	N	30	N	100	N	N	.02	N	--	--	--	N	1.00
OMP24	700	<10	N	N	N	30	N	N	.02	N	--	--	--	N	.40
OMV01	150	50	N	30	N	150	N	N	<.02	N	--	--	--	N	.50
OMV02	500	30	N	<10	N	100	N	N	<.02	N	--	--	--	N	.30
OMV03	200	20	N	50	N	300	N	N	N	N	--	--	--	N	.40
OMV04	100	<10	N	30	N	300	N	N	N	N	--	--	--	N	.60
OMV05	150	200	N	30	N	50	N	N	.04	N	--	--	--	N	.10
OMV06	200	200	N	30	N	50	N	N	.04	N	--	--	--	N	.15
OMV07	N	150	N	15	300	30	N	N	.04	N	--	--	--	N	.65

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
OMV08	33 32 53	115 42 18	10.00	5.00	2.00	.500	1,000	N	N	N	10	150	N
OMV09	33 32 30	115 41 5	10.00	2.00	2.00	.500	1,500	N	N	N	10	100	N
OMV10	33 32 30	115 41 5	7.00	2.00	2.00	.300	1,500	N	N	N	10	100	1.0
OMV11	33 33 27	115 41 26	15.00	7.00	1.50	.500	1,500	.5	N	N	20	150	N
OMV12	33 32 4	115 41 31	.50	.07	.20	.015	1,500	N	N	N	10	150	2.0
OMV13	33 31 57	115 41 11	.50	.15	.50	.015	1,000	<.5	N	N	10	100	2.0
OMV14	33 31 10	115 41 4	3.00	.30	.70	.100	300	N	N	N	20	700	1.5
OMV15	33 32 47	115 45 52	7.00	7.00	2.00	.500	1,000	N	N	N	10	200	<1.0
OMV16	33 33 14	115 48 37	2.00	.70	1.00	.200	500	N	N	N	10	500	1.5
OMQ01	33 34 26	115 46 33	.50	<.02	.05	.002	50	N	N	N	10	50	N
OMQ02	33 33 13	115 44 27	<.05	.02	.07	.007	50	N	N	N	15	N	N
OMQ03	33 33 32	115 45 55	.07	.03	.10	.015	100	N	N	N	15	50	N
OMQ04	33 35 30	115 48 31	N	.02	<.05	<.002	20	N	N	N	15	20	N
OMQ05	33 36 44	115 50 11	.10	.02	.10	.005	50	N	N	N	15	20	N
OMQ06	33 36 10	115 50 2	N	<.02	<.05	N	<10	N	N	N	15	20	N
OMQ07	33 35 5	115 49 57	.05	.05	.05	.007	30	N	N	N	15	100	N
OMQ08	33 35 55	115 49 44	.10	.10	.10	<.002	70	N	N	N	15	20	N
OMQ09	33 35 27	115 53 2	<.05	.02	<.05	.010	20	N	N	N	15	N	N
OMQ10	33 36 5	115 51 10	<.05	.02	.05	N	20	N	N	N	15	N	N
OMQ11	33 35 53	115 52 9	N	<.02	.10	N	20	N	N	N	15	20	N
OMQ12	33 35 53	115 52 9	N	<.02	<.05	N	30	N	N	N	15	N	N
OMQ13	33 35 53	115 52 9	.07	.02	<.05	<.002	30	N	N	N	15	N	N
OMQ14	33 35 53	115 52 9	<.05	.02	<.05	.002	30	N	N	N	15	<20	N
OMQ15	33 35 53	115 52 9	.30	.30	.10	.020	100	N	N	N	15	N	N
OMQ16	33 35 53	115 52 9	.10	.03	.50	.002	100	N	N	N	15	N	N
OMQ17	33 35 53	115 52 9	.50	.70	.10	.100	500	N	N	N	15	500	<1.0
OMQ18	33 35 53	115 52 9	.10	.05	.50	.005	700	N	N	N	15	20	N
OMQ19	33 35 53	115 52 9	.07	.07	<.05	.005	50	N	N	N	15	N	N
OMQ20	33 34 1	115 47 25	N	<.02	<.05	N	20	N	N	N	10	N	N
OMQ21	33 34 10	115 49 32	.07	.02	<.05	.005	50	N	N	N	15	30	N
OMQ22	33 33 17	115 47 37	N	N	<.05	N	20	N	N	N	N	N	N
OMQ23	33 32 31	115 46 31	<.05	<.02	<.05	<.002	20	N	N	N	10	N	N
OMQ24	33 33 51	115 46 30	N	<.02	<.05	<.002	<10	N	N	N	15	<20	N
OMQ25	33 31 47	115 46 43	N	.03	<.05	N	50	N	N	N	15	N	N
OMQ26	33 34 23	115 46 23	N	<.02	N	<.002	20	N	N	N	15	<20	N
OMQ27	33 34 23	115 46 23	.07	.10	.10	.005	70	N	N	N	15	<20	N
OMQ28	33 35 29	115 48 33	.05	.02	N	N	100	N	N	N	15	<20	N
OMQ29	33 34 3	115 47 43	N	<.02	N	N	<10	N	N	N	10	N	N
OMQ30	33 34 9	115 48 51	N	<.02	<.05	N	20	N	N	N	15	N	N
OMQ31	33 36 24	115 51 9	N	<.02	N	[illegible]	70	N	N	N	15	N	N
OMQ32	33 36 55	115 51 37	N	.02	<.05	N	70	N	N	N	15	20	N
OMQ33	33 36 21	115 51 55	N	.02	<.05	N	<10	N	N	N	15	N	N
OMQ34	33 36 46	115 52 23	N	N	N	N	10	N	N	N	10	N	N
OMQ35	33 36 45	115 53 17	N	<.02	N	N	<10	N	N	N	15	N	N
OMQ36	33 33 7	115 42 46	.20	.20	.70	<.002	700	N	N	N	10	50	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
OMV08	N	N	50	200	200	N	N	N	150	<10	N	20	N	150
OMV09	N	N	50	100	200	N	N	N	100	N	N	20	N	100
OMV10	N	N	30	100	50	50	N	N	100	10	N	20	N	100
OMV11	N	N	70	30	300	N	N	N	200	20	N	30	N	200
OMV12	N	N	N	N	<5	N	N	30	5	10	N	N	N	<100
OMV13	N	N	N	N	<5	N	N	30	5	20	N	<5	N	N
OMV14	N	N	N	N	5	50	N	<20	<5	10	N	7	N	150
OMV15	N	N	50	150	50	N	N	N	200	N	N	20	N	300
OMV16	N	N	7	10	10	<20	N	N	20	20	N	5	N	300
OMQ01	N	N	<5	N	<5	N	N	N	5	N	N	N	N	N
OMQ02	N	N	N	N	N	N	N	N	<5	N	N	N	N	N
OMQ03	N	N	N	<10	N	N	N	N	5	N	N	N	N	N
OMQ04	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ05	N	N	N	<10	N	N	N	N	5	N	N	N	N	N
OMQ06	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ07	N	N	N	<10	N	N	N	N	5	N	N	N	N	N
OMQ08	N	N	N	N	N	N	N	N	7	N	N	N	N	N
OMQ09	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ10	N	N	N	N	N	N	N	N	<5	N	N	N	N	N
OMQ11	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ12	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ13	N	N	N	N	<5	500	N	N	<5	N	N	N	N	N
OMQ14	N	N	N	<10	N	N	N	N	5	N	N	N	N	N
OMQ15	N	N	N	<10	<5	N	N	N	5	N	N	N	N	N
OMQ16	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ17	N	N	5	20	5	N	N	N	20	N	N	N	N	N
OMQ18	N	N	N	<10	15	N	N	N	10	N	N	N	N	N
OMQ19	N	N	N	<10	N	N	N	N	5	N	N	N	N	N
OMQ20	N	N	N	N	N	N	N	N	<5	N	N	N	N	N
OMQ21	N	N	N	N	<5	N	N	N	7	N	N	N	N	N
OMQ22	N	N	N	N	N	N	N	N	<5	N	N	N	N	N
OMQ23	N	N	N	N	N	N	N	N	<5	N	N	N	N	N
OMQ24	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ25	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ26	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ27	N	N	N	<10	N	N	N	N	7	N	N	N	N	N
OMQ28	N	N	N	<10	N	N	N	N	5	N	N	N	N	N
OMQ29	N	N	N	N	N	N	N	N	<5	N	N	N	N	N
OMQ30	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ31	N	N	N	N	N	N	N	N	N	N	N	N	N	N
OMQ32	N	N	N	N	N	N	N	N	<5	N	N	N	N	N
OMQ33	N	N	N	N	N	N	N	N	5	N	N	N	N	N
OMQ34	N	N	N	N	N	N	N	N	N	N	N	N	N	N
OMQ35	N	N	N	N	N	N	N	N	N	N	N	N	N	N
OMQ36	N	N	N	N	N	N	N	N	N	N	N	N	N	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	U-ppm f
OMV08	150	200	N	15	200	30	N	N	.26	N	--	--	--	N	.20
OMV09	100	200	N	20	<200	50	N	<.05	.02	N	--	--	--	N	1.20
OMV10	100	150	N	50	<200	150	N	<.05	.06	N	--	--	--	N	1.20
OMV11	200	100	N	50	<200	50	N	N	.04	N	--	--	--	N	.20
OMV12	<100	<10	N	20	N	20	N	N	.14	N	--	--	--	N	.50
OMV13	N	<10	N	20	N	20	N	N	1.60	N	--	--	--	N	.25
OMV14	150	<10	N	50	N	300	N	N	.04	5	--	--	--	N	.35
OMV15	300	100	N	15	N	70	N	N	<.02	N	--	--	--	N	.20
OMV16	300	50	N	15	N	150	N	N	N	N	--	--	--	N	.25
OMQ01	N	<10	N	N	N	N	N	N	.02	25	--	--	--	N	.40
OMQ02	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ03	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ04	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ05	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMQ06	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.05
OMQ07	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ08	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ09	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ10	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.05
OMQ11	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMQ12	N	N	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ13	N	N	N	20	N	N	N	N	N	N	--	--	--	N	.15
OMQ14	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMQ15	N	20	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ16	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ17	N	30	N	N	N	20	N	N	N	N	--	--	--	N	.10
OMQ18	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMQ19	N	<10	N	N	N	N	N	N	N	N	--	--	--	5	.05
OMQ20	N	N	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ21	N	10	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMQ22	N	N	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ23	N	N	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ24	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.05
OMQ25	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.05
OMQ26	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.05
OMQ27	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.05
OMQ28	N	<10	N	N	N	N	N	N	<.02	N	--	--	--	N	.05
OMQ29	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ30	N	<10	N	N	N	N	N	N	.02	N	--	--	--	N	.05
OMQ31	N	<10	N	N	N	N	N	N	N	10	--	--	--	N	.10
OMQ32	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMQ33	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMQ34	N	N	N	N	N	N	N	N	N	N	--	--	--	N	.20
OMQ35	N	N	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ36	N	N	N	N	N	N	N	N	N	N	--	--	--	N	.10

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
OMQ37	33 32 53	115 42 18	1.00	<.02	N	N	20	1.0	N	N	20	N	N
OMQ38	33 32 53	115 42 18	10.00	.07	.20	.015	200	15.0	N	100	300	50	1.5
OMQ39	33 32 53	115 42 18	5.00	.02	.15	<.002	150	3.0	N	N	50	<20	<1.0
OMQ40	33 32 52	115 41 56	.20	.02	.50	.010	150	N	N	N	20	100	<1.0
OMQ41	33 33 47	115 46 0	.20	.10	.70	.002	100	N	N	N	10	<20	N
OMQ42	33 33 33	115 45 52	.07	.07	.05	.010	100	N	N	N	10	50	N
OMQ43	33 32 44	115 45 51	.20	<.02	<.05	.002	70	N	N	N	15	N	N
OMQ44	33 35 2	115 51 33	.30	.03	<.05	.007	100	N	N	N	20	N	N
OMQ45	33 35 2	115 51 33	.70	.50	1.50	.010	700	N	N	N	15	N	N
OMQ46	33 35 2	115 51 33	5.00	2.00	5.00	.030	3,000	N	N	N	30	N	<1.0
OMQ47	33 35 2	115 51 33	10.00	3.00	1.50	.100	3,000	N	N	N	50	N	<1.0
OMQ48	33 31 7	115 45 40	.20	.20	.15	.005	50	N	N	N	10	<20	N
OMQ49	33 31 9	115 45 45	.07	.05	<.05	.003	100	N	N	N	10	<20	N
OME01	33 34 17	115 46 39	7.00	2.00	3.00	1.000	2,000	N	N	N	15	100	<1.0
OME02	33 33 32	115 45 18	10.00	2.00	5.00	1.000	2,000	N	N	N	20	<20	N
OME03	33 36 13	115 50 20	10.00	5.00	3.00	.700	2,000	N	N	N	20	N	<1.0
OME04	33 35 52	115 49 50	7.00	5.00	2.00	.700	2,000	N	N	N	20	50	N
OME05	33 35 33	115 51 37	7.00	5.00	3.00	.500	2,000	N	N	N	20	<20	<1.0
OME06	33 35 56	115 51 52	10.00	5.00	5.00	.500	2,000	N	N	N	10	50	N
OME07	33 35 56	115 51 52	7.00	5.00	3.00	.500	2,000	N	N	N	20	100	<1.0
OME08	33 35 56	115 51 52	10.00	5.00	2.00	.700	2,000	N	N	N	10	20	N
OME09	33 35 56	115 51 52	10.00	5.00	3.00	.700	2,000	N	N	N	10	N	<1.0
OME10	33 35 56	115 51 52	10.00	5.00	2.00	.500	2,000	N	N	N	20	50	<1.0
OME11	33 35 56	115 51 52	5.00	10.00	20.00	.020	3,000	N	N	N	20	N	N
OME12	33 33 35	115 47 34	10.00	3.00	3.00	.500	3,000	N	N	N	15	30	<1.0
OME13	33 31 51	115 43 45	3.00	10.00	.05	.020	500	N	N	N	10	<20	N
OME14	33 32 53	115 43 59	7.00	5.00	5.00	.500	2,000	N	N	N	10	30	N
OME15	33 33 33	115 46 45	10.00	5.00	3.00	.700	2,000	N	N	N	10	N	N
OME16	33 33 0	115 43 59	10.00	5.00	5.00	.700	1,500	N	N	N	10	N	<1.0
OME17	33 34 23	115 45 48	7.00	10.00	3.00	.300	1,000	N	N	N	15	150	N
OME18	33 34 23	115 42 52	10.00	2.00	5.00	.700	1,000	N	N	N	15	<20	N
OME19	33 33 47	115 45 59	10.00	5.00	3.00	.700	1,500	N	N	N	20	700	<1.0
OME20	33 33 47	115 45 59	10.00	5.00	5.00	.700	2,000	N	N	N	10	<20	N
OME21	33 33 32	115 45 50	5.00	10.00	<.05	.010	500	N	N	N	10	N	N
OME22	33 33 32	115 45 50	10.00	10.00	.70	.700	1,000	N	N	N	10	50	N
OME23	33 33 32	115 45 50	5.00	10.00	.07	.020	500	N	N	N	10	N	N
OME24	33 34 10	115 45 31	5.00	10.00	<.05	.100	500	N	N	N	10	N	N
OME25	33 34 10	115 45 31	10.00	10.00	<.05	.500	1,500	N	N	N	10	50	N
OME26	33 34 10	115 45 31	5.00	10.00	.15	.020	500	N	N	N	20	20	N
OME27	33 35 28	115 49 30	7.00	10.00	5.00	.500	1,500	N	N	N	20	50	N
OME28	33 34 5	115 47 30	5.00	10.00	.70	.015	1,000	N	N	N	15	N	N
OME29	33 34 5	115 47 30	10.00	10.00	<.05	.150	700	N	N	N	15	N	N
OME30	33 34 5	115 47 30	5.00	10.00	<.05	.030	200	N	N	N	10	<20	N
OME31	33 34 10	115 48 21	5.00	10.00	15.00	.010	2,000	N	N	N	10	<20	1.5
OME32	33 36 38	115 51 22	7.00	10.00	5.00	.500	1,500	N	N	N	20	150	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
OMQ37	N	N	10	N	300	N	5	N	30	N	N	N	N	N
OMQ38	N	N	150	50	20,000	N	20	N	300	N	N	N	N	N
OMQ39	N	N	50	20	15,000	N	10	N	150	N	N	N	N	N
OMQ40	N	N	N	N	100	N	N	N	5	N	N	N	N	N
OMQ41	N	N	N	N	20	N	N	N	5	N	N	N	N	N
OMQ42	N	N	N	<10	10	N	N	N	5	N	N	N	N	N
OMQ43	N	N	N	<10	5	N	N	N	10	N	N	N	N	N
OMQ44	N	N	5	<10	10	N	N	N	5	N	N	N	N	N
OMQ45	N	N	5	<10	100	N	N	N	20	N	N	N	N	N
OMQ46	N	N	20	70	10	N	10	N	70	N	N	10	N	<100
OMQ47	N	N	20	150	7	N	N	N	100	N	N	7	N	100
OMQ48	N	N	N	<10	N	N	N	N	10	15	N	N	N	N
OMQ49	N	N	N	N	N	N	N	N	7	N	N	N	N	N
OME01	N	N	50	100	300	N	N	N	50	N	N	50	N	200
OME02	N	N	50	150	500	N	N	N	70	N	N	30	N	300
OME03	N	N	50	200	150	N	N	N	100	N	N	30	N	200
OME04	N	N	50	200	200	N	N	N	100	N	N	30	N	200
OME05	N	N	30	150	200	N	N	N	100	N	N	30	N	300
OME06	N	N	50	200	200	N	N	N	100	N	N	20	N	200
OME07	N	N	50	700	200	N	N	<20	300	20	N	30	N	300
OME08	N	N	70	100	300	N	N	N	100	N	N	30	N	N
OME09	N	N	50	200	200	N	N	N	100	N	N	30	N	<100
OME10	N	N	50	200	200	N	N	N	100	<10	N	20	N	<100
OME11	N	N	50	500	10	N	N	N	50	20	N	5	N	1,000
OME12	N	N	50	70	200	N	N	N	70	N	N	20	N	100
OME13	N	N	70	1,000	100	N	N	N	1,000	N	N	5	N	N
OME14	N	N	50	500	200	N	N	N	100	N	N	15	N	100
OME15	N	N	50	500	100	N	N	N	100	N	N	20	N	100
OME16	N	N	50	300	300	N	N	N	100	N	N	20	N	200
OME17	N	N	50	1,000	200	N	N	N	500	10	N	15	N	300
OME18	N	N	50	300	100	N	N	N	100	N	N	30	N	<100
OME19	N	N	50	1,000	200	N	N	N	200	<10	N	20	N	300
OME20	N	N	50	500	500	N	N	N	150	N	N	20	N	300
OME21	N	N	100	2,000	70	N	N	N	1,500	N	N	<5	N	N
OME22	N	N	70	200	7	100	N	<20	200	N	N	30	N	N
OME23	N	N	100	5,000	50	N	N	N	2,000	N	N	5	N	N
OME24	N	N	100	5,000	N	N	N	N	2,000	N	N	7	N	N
OME25	N	N	100	1,500	N	50	N	N	1,000	N	N	30	N	N
OME26	N	N	100	5,000	70	N	N	N	2,000	N	N	15	N	N
OME27	N	N	70	2,000	50	N	N	N	500	N	N	30	N	<100
OME28	N	N	100	3,000	<5	N	N	N	2,000	N	N	10	N	N
OME29	N	N	70	100	N	100	N	N	100	N	N	20	N	N
OME30	N	N	100	2,000	<5	N	N	N	2,000	N	N	N	N	N
OME31	N	N	50	2,000	7	N	N	N	1,000	<10	N	7	N	N
OME32	N	N	50	1,000	200	N	N	N	300	<10	N	30	N	200

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	U-ppm f
OMQ37	N	N	N	N	N	N	N	7.00	.10	N	--	--	--	N	1.50
OMQ38	N	70	N	N	<200	N	N	62.00	.46	10	--	--	--	N	70.00
OMQ39	N	20	N	N	<200	N	N	10.00	.10	10	--	--	--	N	10.00
OMQ40	N	<10	N	N	N	N	N	.05	N	N	--	--	--	N	.85
OMQ41	N	N	N	N	N	N	N	.05	N	N	--	--	--	1	.20
OMQ42	N	15	N	N	N	N	N	<.05	N	N	--	--	--	N	.10
OMQ43	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.15
OMQ44	N	<10	N	N	N	N	N	N	N	N	--	--	--	N	.10
OMQ45	N	10	N	N	N	N	N	.10	.04	N	--	--	--	N	.30
OMQ46	<100	30	N	20	N	N	N	N	<.02	N	--	--	--	N	.60
OMQ47	100	100	N	15	<200	20	N	<.05	.04	N	--	--	--	N	.55
OMQ48	N	15	N	N	N	N	N	<.05	N	N	--	--	--	N	.10
OMQ49	N	10	N	N	N	N	N	N	.02	N	--	--	--	N	.15
OME01	200	500	N	70	200	150	N	N	<.02	N	--	--	--	N	.45
OME02	300	500	N	50	N	150	N	N	<.02	N	--	--	--	N	.40
OME03	200	300	N	70	N	200	N	N	<.02	N	--	--	--	N	.40
OME04	200	200	N	50	N	100	N	N	<.02	N	--	--	--	N	.45
OME05	300	300	N	30	N	100	N	N	<.02	<5	--	--	--	N	.25
OME06	200	500	N	30	N	70	N	N	<.02	N	--	--	--	N	.20
OME07	300	300	N	30	N	100	N	N	.02	N	--	--	--	N	.55
OME08	N	500	N	70	N	150	N	N	<.02	N	--	--	--	N	.30
OME09	<100	500	N	50	N	150	N	N	<.02	N	--	--	--	N	.30
OME10	<100	500	N	50	N	100	N	N	<.02	N	--	--	--	N	.55
OME11	1,000	20	N	<10	N	N	N	N	.02	N	--	--	--	N	.35
OME12	100	500	N	50	N	150	N	N	<.02	N	--	--	--	N	.35
OME13	N	20	N	N	200	N	N	N	N	<5	--	--	--	N	1.00
OME14	100	300	N	30	N	100	N	N	<.02	N	--	--	--	N	.25
OME15	100	500	N	50	N	100	N	N	<.02	N	--	--	--	N	.15
OME16	200	500	N	30	N	100	N	N	<.02	N	--	--	--	N	.25
OME17	300	200	N	20	N	50	N	N	<.02	N	--	--	--	N	.15
OME18	<100	500	N	70	N	200	N	N	<.02	N	--	--	--	N	.25
OME19	300	200	N	20	<200	100	N	N	<.02	N	--	--	--	N	.15
OME20	300	500	N	30	N	100	N	N	<.02	N	--	--	--	N	.25
OME21	N	30	N	N	N	N	N	N	<.02	N	--	--	--	N	.40
OME22	N	70	N	30	N	500	N	N	<.02	N	--	--	--	18	1.20
OME23	N	50	N	N	<200	N	N	N	<.02	15	--	--	--	3	.40
OME24	N	50	N	N	N	N	N	N	<.02	N	--	--	--	N	.25
OME25	N	150	N	N	200	150	N	N	<.02	<5	--	--	--	N	.65
OME26	N	50	N	N	N	N	N	N	<.02	15	--	--	--	N	.75
OME27	<100	200	N	30	N	30	N	N	<.02	N	--	--	--	N	.45
OME28	N	50	N	N	N	N	N	N	<.02	5	--	--	--	1	.30
OME29	N	100	N	N	<200	70	N	N	<.02	N	--	--	--	N	.30
OME30	N	20	N	N	N	N	N	N	<.02	N	--	--	--	N	.25
OME31	N	30	N	N	N	N	N	N	<.02	10	--	--	--	N	.20
OME32	200	200	N	20	N	100	N	N	<.02	N	--	--	--	N	.35

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
OME33	33 36 3	115 51 25	7.00	5.00	10.00	.500	2,000	N	N	N	15	N	N
OME34	33 36 42	115 52 7	10.00	7.00	5.00	1.000	1,500	N	N	N	15	N	N
OME35	33 36 29	115 50 24	10.00	7.00	5.00	.700	2,000	N	N	N	20	150	N
OME36	33 36 5	115 51 4	5.00	10.00	<.05	.030	200	N	N	N	10	N	N
OME37	33 33 47	115 46 0	7.00	7.00	5.00	.700	1,500	N	N	N	15	200	<1.0
OME38	33 34 57	115 51 34	10.00	7.00	10.00	1.000	2,000	N	N	N	15	<20	<1.0
OME39	33 33 25	115 48 41	10.00	5.00	10.00	1.000	2,000	N	N	N	15	N	N
OME40	33 33 25	115 48 41	7.00	10.00	10.00	.150	2,000	N	N	N	10	<20	<1.0
OME41	33 33 25	115 48 41	5.00	7.00	.70	.150	5,000	N	N	N	15	100	<1.0
OME42	33 33 25	115 48 41	5.00	10.00	.05	.010	700	N	N	N	15	N	N
OME43	33 33 25	115 48 41	10.00	10.00	.70	.015	1,000	N	N	N	20	N	N
OMM01	33 33 27	115 44 40	5.00	5.00	10.00	.100	5,000	N	N	N	150	700	1.5
OMM02	33 33 17	115 44 31	5.00	5.00	10.00	.200	3,000	N	N	N	50	100	2.0
OMM03	33 33 37	115 45 24	5.00	5.00	10.00	.200	3,000	N	N	N	100	200	1.5
OMM04	33 36 27	115 49 12	10.00	5.00	2.00	1.000	1,000	N	N	N	50	700	N
OMM05	33 36 3	115 49 10	10.00	5.00	2.00	.700	1,000	N	N	N	70	150	1.0
OMM06	33 33 34	115 45 8	5.00	3.00	3.00	.500	2,000	N	N	N	70	500	2.0
OMM07	33 36 46	115 50 9	5.00	5.00	5.00	.700	1,500	N	N	N	70	100	1.0
OMM08	33 33 6	115 43 49	15.00	1.50	5.00	1.000	3,000	N	N	N	50	700	1.0
OMM09	33 36 55	115 50 21	20.00	1.00	2.00	1.000	3,000	N	N	N	70	100	1.0
OMM10	33 36 56	115 50 16	15.00	.70	2.00	1.000	5,000	N	N	N	70	700	<1.0
OMM11	33 36 50	115 50 7	10.00	1.50	2.00	.700	3,000	N	N	N	100	1,000	<1.0
OMM12	33 34 58	115 50 25	3.00	2.00	2.00	.200	1,500	N	<200	N	50	700	1.5
OMM13	33 35 19	115 51 40	3.00	2.00	1.50	.500	1,000	N	N	N	100	500	2.0
OMM14	33 35 19	115 51 40	5.00	1.50	1.50	.500	1,000	N	N	N	300	1,000	2.0
OMM15	33 36 26	115 48 25	15.00	2.00	3.00	1.000	3,000	N	N	N	50	1,500	1.5
OMM16	33 36 17	115 48 54	2.00	1.00	.50	.300	700	N	N	N	50	700	2.0
OMM17	33 35 13	115 52 32	2.00	3.00	2.00	.300	2,000	N	N	N	50	500	1.5
OMM18	33 35 13	115 52 32	5.00	2.00	.70	.500	1,500	N	<200	N	50	700	2.0
OMM19	33 35 13	115 52 32	5.00	2.00	5.00	.150	3,000	N	N	N	20	700	1.5
OMM20	33 35 13	115 52 32	3.00	1.50	5.00	.150	2,000	N	N	N	30	200	1.5
OMM21	33 31 56	115 43 37	20.00	.30	.50	.150	200	N	N	N	150	50	1.0
OMM22	33 32 6	115 43 0	10.00	10.00	2.00	.700	2,000	5.0	N	N	20	50	N
OMM23	33 32 6	115 43 0	15.00	.50	.50	.700	2,000	N	N	N	50	1,000	N
OMM24	33 32 43	115 47 27	1.50	.50	.10	.200	70	1.0	N	N	50	500	2.0
OMM25	33 32 43	115 47 27	10.00	5.00	5.00	.700	2,000	N	N	N	100	700	<1.0
OMM26	33 32 28	115 43 25	5.00	1.50	2.00	.500	1,500	N	N	N	30	700	1.5
OMM27	33 32 28	115 43 25	5.00	1.50	3.00	.700	2,000	N	N	N	100	700	2.0
OMM28	33 32 28	115 43 25	7.00	2.00	2.00	1.000	1,500	N	N	N	50	700	1.5
OMM29	33 34 23	115 45 52	3.00	7.00	15.00	.100	2,000	N	N	N	15	500	2.0
OMM30	33 34 23	115 45 52	5.00	10.00	10.00	.015	2,000	.5	200	N	20	N	1.0
OMM31	33 34 35	115 46 20	3.00	7.00	15.00	.010	1,000	N	N	N	50	N	2.0
OMM32	33 34 35	115 46 20	5.00	10.00	20.00	.010	1,000	N	N	N	10	N	1.5
OMM33	33 34 35	115 46 20	7.00	10.00	.10	.020	1,000	N	N	N	20	N	N
OMM34	33 34 35	115 46 20	7.00	10.00	.05	.020	1,000	N	N	N	10	N	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
OME33	N	N	50	500	300	N	N	N	100	N	N	50	N	100
OME34	N	N	70	1,500	150	N	N	<20	500	<10	N	30	N	500
OME35	N	N	50	1,500	200	N	N	N	300	20	N	30	N	500
OME36	N	N	70	3,000	50	N	N	N	1,000	N	N	10	N	N
OME37	N	N	50	700	200	N	N	N	200	<10	N	30	N	500
OME38	N	N	50	200	200	N	N	N	100	N	N	70	N	150
OME39	N	N	50	200	300	N	N	N	70	N	N	70	N	150
OME40	N	N	70	2,000	5	N	N	N	500	N	N	20	N	<100
OME41	N	N	30	1,000	200	50	N	N	500	30	N	10	N	<100
OME42	N	N	100	2,000	5	N	N	N	1,000	N	N	7	N	N
OME43	N	N	150	2,000	50	N	N	N	2,000	N	N	15	N	<100
OMM01	N	N	15	20	150	<20	N	N	70	50	N	10	N	200
OMM02	N	N	30	500	100	N	N	N	150	20	N	15	N	700
OMM03	N	N	5	50	100	50	N	N	50	15	N	10	N	500
OMM04	N	N	70	N	300	50	N	N	50	20	N	20	N	700
OMM05	N	N	50	20	70	50	N	N	70	20	N	30	N	500
OMM06	N	N	20	100	100	50	N	20	100	50	N	15	N	300
OMM07	N	N	30	300	200	N	N	N	200	20	N	30	N	300
OMM08	N	N	50	N	300	70	N	20	20	50	N	30	N	500
OMM09	N	N	30	N	200	100	N	20	N	N	N	100	N	300
OMM10	N	N	30	N	200	100	7	<20	N	N	N	100	N	200
OMM11	N	N	30	20	150	100	N	<20	30	50	N	50	N	500
OMM12	N	N	30	500	100	<20	N	N	200	20	N	10	N	200
OMM13	N	N	20	150	70	50	N	N	100	50	N	20	N	100
OMM14	N	N	20	10	100	100	N	<20	15	50	N	10	N	500
OMM15	N	N	30	N	150	70	<5	<20	<5	50	N	50	N	500
OMM16	N	N	20	50	100	50	N	<20	150	20	N	10	N	200
OMM17	N	N	20	200	100	N	N	N	200	50	N	15	N	300
OMM18	N	N	50	150	200	50	N	<20	300	70	N	20	N	200
OMM19	N	N	7	50	30	50	N	N	50	20	N	10	N	700
OMM20	N	N	100	100	15	N	N	N	100	70	N	10	N	200
OMM21	N	N	20	50	100	N	N	N	70	20	N	15	N	500
OMM22	N	N	100	2,000	3,000	N	N	<20	2,000	N	<100	20	N	150
OMM23	N	N	5	N	70	N	N	<20	20	20	N	20	N	150
OMM24	N	N	5	20	20	N	N	N	10	30	N	5	N	<100
OMM25	N	N	30	300	100	<20	N	N	70	20	N	15	N	1,000
OMM26	N	N	15	100	30	50	N	N	50	50	N	15	N	700
OMM27	N	N	20	200	70	50	N	20	70	50	N	20	N	700
OMM28	N	N	20	200	70	50	N	20	70	30	N	20	N	500
OMM29	N	N	5	20	10	<20	N	N	5	30	N	5	N	500
OMM30	N	N	50	2,000	50	N	N	N	1,000	10	1,000	5	N	1,000
OMM31	N	N	70	1,000	20	N	N	N	1,000	N	N	5	N	1,000
OMM32	N	N	10	300	5	N	N	N	300	N	N	N	N	2,000
OMM33	N	N	70	5,000	70	N	N	N	2,000	N	N	15	N	N
OMM34	N	N	70	3,000	50	N	N	N	2,000	N	N	15	N	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	U-ppm f
OME33	100	300	N	50	N	70	N	.10	<.02	N	--	--	--	N	.30
OME34	500	200	N	30	N	150	N	N	<.02	N	--	--	--	N	.05
OME35	500	200	N	30	N	100	N	N	<.02	N	--	--	--	N	.20
OME36	N	50	N	N	N	N	N	N	.10	N	--	--	--	N	.25
OME37	500	200	N	30	N	200	N	N	<.02	N	--	--	--	N	.25
OME38	150	500	N	70	N	150	N	N	<.02	N	--	--	--	N	.25
OME39	150	500	N	70	N	200	N	N	<.02	N	--	--	--	N	.15
OME40	<100	100	N	10	N	50	N	N	.03	N	--	--	--	N	.15
OME41	<100	100	N	50	N	50	N	N	<.02	N	--	--	--	N	.25
OME42	N	50	N	N	N	N	N	N	<.02	N	--	--	--	N	.25
OME43	<100	70	N	N	N	N	N	N	<.02	15	--	--	--	N	.45
OMM01	200	50	N	30	200	20	N	N	.16	20	--	--	--	N	1.30
OMM02	700	100	N	10	N	20	N	N	.08	40	--	--	--	N	1.15
OMM03	500	70	N	30	N	50	N	N	<.02	N	--	--	--	N	3.05
OMM04	700	100	N	50	200	50	N	N	.02	N	--	--	--	N	.40
OMM05	500	300	N	30	<200	50	N	N	<.02	N	--	--	--	N	1.20
OMM06	300	150	N	30	N	150	N	N	.48	10	--	--	--	6	3.60
OMM07	300	200	N	30	N	100	N	N	.10	40	--	--	--	5	1.50
OMM08	500	100	N	50	N	50	N	<.05	.02	5	--	--	--	3	.90
OMM09	300	10	N	100	200	70	N	N	.18	20	--	--	--	24	.60
OMM10	200	10	N	100	700	70	N	N	.06	35	--	--	--	6	.45
OMM11	500	50	N	70	500	70	N	N	.02	10	--	--	--	6	.95
OMM12	200	100	N	20	200	70	N	N	N	110	--	--	--	2	4.00
OMM13	100	70	N	30	N	100	N	N	<.02	N	--	--	--	1	1.90
OMM14	500	70	N	20	N	200	N	N	<.02	N	--	--	--	N	.95
OMM15	500	20	N	70	N	50	N	N	.06	55	--	--	--	N	4.25
OMM16	200	100	N	20	300	150	N	N	.02	20	--	--	--	N	.85
OMM17	300	100	N	20	N	100	N	N	.02	70	--	--	--	N	.95
OMM18	200	200	N	50	N	150	N	N	N	80	--	--	--	N	1.90
OMM19	700	70	N	50	N	70	N	N	<.02	30	--	--	--	N	1.90
OMM20	200	100	N	20	N	30	N	N	<.02	10	--	--	--	2	4.00
OMM21	500	100	N	20	N	20	N	N	2.40	60	--	--	--	66	5.40
OMM22	150	150	N	20	N	50	N	N	<.02	N	--	--	--	N	.35
OMM23	150	20	N	50	N	1,000	N	N	.66	N	--	--	--	N	.20
OMM24	<100	50	N	<10	N	100	N	N	<.02	60	--	--	--	N	.95
OMM25	1,000	100	N	30	N	50	N	N	.12	N	--	--	--	N	.30
OMM26	700	100	N	30	N	150	N	N	.04	N	--	--	--	N	.65
OMM27	700	200	N	30	N	150	N	N	<.02	5	--	--	--	N	.85
OMM28	500	200	N	30	N	200	N	N	<.02	5	--	--	--	N	.65
OMM29	500	30	N	15	N	70	N	N	<.02	N	--	--	--	N	1.15
OMM30	1,000	30	N	<10	N	N	N	N	<.02	210	--	--	--	1,200	.75
OMM31	1,000	20	N	<10	N	N	N	N	<.02	90	--	--	--	2	2.25
OMM32	2,000	10	N	<10	N	N	N	N	<.02	35	--	--	--	N	.75
OMM33	N	50	N	N	N	N	N	N	<.02	N	--	--	--	N	.35
OMM34	N	50	N	N	N	N	N	N	<.02	5	--	--	--	N	.40

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
OMM35	33 34 35	115 46 20	10.00	10.00	<.05	.020	1,500	1.0	N	N	20	N	N
OMM36	33 34 35	115 46 20	10.00	10.00	20.00	.500	2,000	N	N	N	70	100	1.0
OMM37	33 34 35	115 46 20	1.00	5.00	.20	.005	200	N	N	N	20	N	1.5
OMM38	33 31 23	115 45 45	5.00	10.00	5.00	.010	2,000	N	N	N	20	100	N
OMM39	33 34 47	115 51 51	5.00	2.00	5.00	.200	3,000	N	N	N	30	700	1.0
OMM40	33 32 32	115 41 56	10.00	7.00	10.00	.500	2,000	N	N	N	700	500	3.0
OMM41	33 32 29	115 41 56	5.00	1.00	1.00	.500	1,000	N	N	N	500	1,000	2.0
OMM42	33 32 29	115 41 56	5.00	2.00	2.00	.700	1,000	N	N	N	500	500	10.0
OMM43	33 32 29	115 41 56	1.50	.50	1.00	.200	1,000	N	N	N	50	200	5.0
OMM44	33 32 49	115 42 38	20.00	.15	.50	.300	150	N	N	N	70	700	2.0
OMM45	33 32 53	115 42 49	1.50	.20	.50	.015	200	1.0	N	N	50	50	N
OMM46	33 32 53	115 42 49	5.00	.10	1.00	.030	700	2.0	N	N	50	500	1.0
OMM47	33 32 53	115 42 20	10.00	.05	.05	.005	150	.7	N	20	50	<20	1.0
OMM48	33 32 52	115 42 20	1.00	.05	2.00	.005	1,000	.7	N	N	30	30	<1.0
OMM49	33 32 39	115 43 7	1.50	.10	.70	.200	1,000	1.0	N	N	30	700	N
OMG01	33 34 22	115 46 38	2.00	.50	.15	.300	500	N	N	N	30	700	2.0
OMG02	33 34 23	115 46 38	1.00	.50	.50	.100	5,000	3.0	N	N	10	2,000	1.0
OMG03	33 36 56	115 50 55	2.00	.70	.50	.500	700	N	N	N	50	700	2.0
OMG04	33 35 57	115 49 23	2.00	1.00	.70	.500	1,000	N	N	N	70	700	2.0
OMG05	33 36 31	115 49 40	2.00	.50	1.00	.300	500	N	N	N	70	500	2.0
OMG06	33 35 28	115 48 26	3.00	1.00	.50	.500	700	<.5	N	N	100	700	2.0
OMG07	33 33 15	115 44 15	2.00	1.00	1.00	.500	1,000	N	N	N	70	700	2.0
OMG08	33 33 32	115 45 55	2.00	1.00	.70	.300	700	N	N	N	100	500	1.5
OMG09	33 36 10	115 49 50	2.00	.70	.70	.300	700	7.0	N	N	50	500	1.5
OMG10	33 35 55	115 49 44	2.00	1.00	.50	.300	700	<.5	N	N	30	500	2.0
OMG11	33 35 5	115 49 57	1.50	.30	.50	.300	500	N	N	N	30	500	1.5
OMG12	33 36 5	115 51 10	2.00	.50	.70	.500	500	<.5	N	N	50	700	1.5
OMG13	33 34 39	115 50 30	3.00	1.00	.50	.500	1,000	N	N	N	50	500	1.0
OMG14	33 34 39	115 50 30	2.00	1.00	.70	.500	3,000	N	N	N	50	700	2.0
OMG15	33 34 39	115 50 30	1.50	.30	.70	.300	500	N	N	N	20	500	1.0
OMG16	33 34 39	115 50 30	3.00	1.00	.70	.500	700	N	N	N	20	1,000	2.0
OMG17	33 34 39	115 50 30	1.50	.50	.70	.300	500	N	N	N	20	500	1.5
OMG18	33 34 39	115 50 30	2.00	.70	.50	.300	500	N	N	N	20	700	1.5
OMG19	33 34 39	115 50 30	2.00	.50	.50	.300	500	N	N	N	20	700	1.5
OMG20	33 34 39	115 50 30	3.00	1.00	1.00	.500	1,500	N	N	N	100	500	1.0
OMG21	33 34 39	115 50 30	2.00	.70	1.00	.500	500	N	N	N	50	700	2.0
OMG22	33 34 39	115 50 30	5.00	1.00	1.00	.500	700	N	N	N	100	700	2.0
OMG23	33 32 13	115 44 24	2.00	.50	.50	.300	500	N	N	N	20	700	1.5
OMG24	33 35 26	115 50 53	3.00	1.00	1.00	.500	1,000	N	N	N	70	500	2.0
OMG25	33 34 0	115 47 25	2.00	1.00	1.00	.500	1,500	N	N	N	50	700	2.0
OMG26	33 33 11	115 47 38	2.00	.70	.50	.500	700	<.5	N	N	50	500	2.0
OMG27	33 32 0	115 43 35	2.00	1.00	.70	.500	700	N	N	N	30	500	2.0
OMG28	33 32 53	115 46 55	2.00	.70	.70	.500	500	N	N	N	50	700	2.0
OMG29	33 34 52	115 52 4	2.00	.50	.20	.500	1,000	N	N	N	50	500	2.0
OMG30	33 35 16	115 47 59	3.00	.50	.50	.100	5,000	N	N	N	20	700	<1.0

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
OMM35	N	N	70	5,000	50	N	N	N	2,000	N	N	15	N	N
OMM36	N	N	30	700	N	N	N	N	200	10	N	10	N	700
OMM37	N	N	20	100	N	N	N	N	500	N	N	N	N	N
OMM38	N	N	70	2,000	50	N	N	N	1,500	10	N	10	N	200
OMM39	N	N	15	70	300	50	N	N	70	50	N	10	N	300
OMM40	N	N	50	1,000	200	N	N	N	150	70	N	20	N	500
OMM41	N	N	10	<10	15	50	N	30	10	70	N	10	N	500
OMM42	N	N	15	70	70	150	N	20	30	70	N	15	N	300
OMM43	N	N	5	N	<5	N	N	<20	5	50	N	<5	N	200
OMM44	N	N	500	<10	2,000	50	15	N	100	500	N	10	N	<100
OMM45	N	N	50	N	100	N	10	N	30	N	N	N	N	N
OMM46	N	N	30	10	1,000	N	N	N	70	N	N	<5	N	<100
OMM47	N	N	100	50	200	N	20	N	300	10	N	N	N	N
OMM48	N	N	50	10	3,000	N	N	N	50	<10	N	N	N	N
OMM49	N	N	5	10	15	N	N	<20	5	10	N	7	N	N
OMG01	N	N	7	50	15	70	N	<20	20	10	N	7	N	<100
OMG02	N	N	20	20	200	100	7	N	100	20	N	15	N	<100
OMG03	N	N	7	50	20	50	N	<20	10	20	N	10	N	<100
OMG04	N	N	15	70	100	<20	N	N	50	30	N	15	N	200
OMG05	N	N	10	50	70	50	N	<20	50	20	N	10	N	<100
OMG06	N	N	15	50	100	50	N	<20	50	30	N	15	N	200
OMG07	N	N	10	50	70	50	N	N	20	30	N	15	N	200
OMG08	N	N	10	70	50	<20	N	N	30	20	N	15	N	300
OMG09	N	N	10	70	20	<20	N	N	30	15	N	10	N	200
OMG10	N	N	10	50	20	<20	N	N	10	20	N	10	N	<100
OMG11	N	N	7	50	20	50	N	N	15	15	N	7	N	<100
OMG12	N	N	10	50	10	50	N	N	10	20	N	7	N	300
OMG13	N	N	15	70	70	N	N	N	20	15	N	20	N	<100
OMG14	N	N	15	50	100	50	N	N	30	15	N	15	N	200
OMG15	N	N	7	50	10	50	N	N	20	15	N	7	N	500
OMG16	N	N	10	70	30	50	N	N	50	20	N	15	N	200
OMG17	N	N	5	50	10	N	N	N	20	10	N	5	N	200
OMG18	N	N	5	70	15	<20	N	N	50	20	N	10	N	<100
OMG19	N	N	5	50	15	50	N	N	20	15	N	5	N	200
OMG20	N	N	20	100	50	N	N	N	100	15	N	15	N	200
OMG21	N	N	7	20	20	50	N	<20	10	50	N	10	N	<100
OMG22	N	N	15	30	70	50	N	N	20	50	N	15	N	500
OMG23	N	N	7	20	10	50	N	N	10	15	N	7	N	200
OMG24	N	N	7	50	200	50	N	<20	20	30	N	10	N	500
OMG25	N	N	7	50	50	50	N	<20	20	30	N	10	N	500
OMG26	N	N	10	50	10	70	N	<20	20	30	N	10	N	300
OMG27	N	N	15	100	20	50	N	<20	70	50	N	10	N	300
OMG28	N	N	10	70	20	50	N	<20	20	10	N	10	N	200
OMG29	N	N	10	50	15	50	N	<20	15	20	N	10	N	200
OMG30	N	N	10	50	700	50	N	N	50	N	N	10	N	N

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	U-ppm f
OMM35	N	50	N	N	N	N	N	N	<.02	10	--	--	--	N	.35
OMM36	700	100	N	20	N	50	N	N	.02	N	--	--	--	2	8.75
OMM37	N	<10	N	<10	N	N	N	N	.02	N	--	--	--	N	.65
OMM38	200	70	N	20	N	N	N	N	N	60	--	--	--	2	1.30
OMM39	300	150	N	50	N	70	N	N	<.02	10	--	--	--	N	1.90
OMM40	500	200	N	30	200	50	N	N	.08	N	--	--	--	N	5.90
OMM41	500	50	N	30	N	300	N	N	<.02	N	--	--	--	N	1.70
OMM42	300	150	N	50	N	500	N	N	.04	N	--	--	--	N	2.45
OMM43	200	50	N	20	N	100	N	N	.02	N	--	--	--	N	.55
OMM44	<100	50	N	50	300	300	N	N	.30	25	--	--	--	N	9.50
OMM45	N	20	N	<10	N	N	N	3.10	2.10	N	--	--	--	N	.55
OMM46	<100	30	N	<10	N	N	N	7.70	1.30	N	--	--	--	N	1.15
OMM47	N	50	N	<10	<200	N	N	21.00	.14	N	--	--	--	N	3.40
OMM48	N	20	N	<10	N	N	N	3.00	.08	N	--	--	--	N	5.15
OMM49	N	15	N	20	N	500	N	<.05	<.02	N	--	--	--	N	.30
OMG01	<100	50	N	20	N	200	N	N	<.02	<5	--	--	--	N	.90
OMG02	<100	70	N	70	N	70	N	N	<.02	5	--	--	--	N	.60
OMG03	<100	100	N	20	N	200	N	N	<.02	<5	--	--	--	N	1.30
OMG04	200	150	N	20	N	150	N	N	<.02	<5	--	--	--	N	1.00
OMG05	<100	100	N	20	N	150	N	N	<.02	10	--	--	--	N	.95
OMG06	200	100	N	30	N	150	N	N	<.02	5	--	--	--	N	1.00
OMG07	200	100	N	30	N	150	N	N	<.02	<5	--	--	--	N	1.00
OMG08	300	100	N	20	N	150	N	N	<.02	N	--	--	--	N	.50
OMG09	200	100	N	20	N	150	N	N	<.02	N	--	--	--	N	.60
OMG10	<100	100	N	15	N	200	N	N	<.02	N	--	--	--	<1	1.20
OMG11	<100	70	N	20	N	150	N	N	<.02	5	--	--	--	N	1.20
OMG12	300	70	N	20	N	150	N	N	<.02	<5	--	--	--	N	.95
OMG13	<100	200	N	20	N	100	N	N	<.02	<5	--	--	--	N	.95
OMG14	200	100	N	30	N	200	N	N	<.02	<5	--	--	--	N	1.20
OMG15	500	70	N	20	N	150	N	N	<.02	N	--	--	--	N	.60
OMG16	200	150	N	30	N	200	N	N	<.02	N	--	--	--	N	.85
OMG17	200	50	N	15	N	200	N	N	<.02	N	--	--	--	N	.40
OMG18	<100	70	N	20	N	100	N	N	<.02	N	--	--	--	N	.50
OMG19	200	50	N	20	N	100	N	N	<.02	N	--	--	--	N	.40
OMG20	200	150	N	30	N	150	N	N	<.02	N	--	--	--	<1	.50
OMG21	<100	70	N	30	N	200	N	N	<.02	10	--	--	--	<1	.80
OMG22	500	150	N	30	N	200	N	N	<.02	N	--	--	--	N	.90
OMG23	200	70	N	20	N	150	N	N	<.02	N	--	--	--	N	1.40
OMG24	500	100	N	20	N	200	N	N	<.02	N	--	--	--	N	.95
OMG25	500	70	N	20	N	300	N	N	<.02	N	--	--	--	N	1.00
OMG26	300	100	N	20	N	200	N	N	<.02	N	--	--	--	N	.95
OMG27	300	70	N	20	N	200	N	N	<.02	N	--	--	--	N	2.00
OMG28	200	70	N	20	N	200	N	N	<.02	15	--	--	--	N	.35
OMG29	200	100	N	20	N	300	N	N	<.02	N	--	--	--	N	1.20
OMG30	N	70	N	30	N	50	<100	N	<.02	N	--	--	--	3	.55

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
OMG31	33 35 16	115 47 59	5.00	1.50	1.00	.500	1,000	N	N	N	100	300	1.0
OMG32	33 35 16	115 47 59	5.00	1.50	1.00	.500	1,500	N	N	N	70	500	2.0
OMG33	33 35 16	115 47 59	2.00	1.00	.70	.500	1,000	N	N	N	50	700	2.0
OMG34	33 35 16	115 47 59	2.00	1.50	.50	.500	1,000	N	N	N	70	700	2.0
OMG35	33 35 16	115 47 59	2.00	.70	.50	.500	700	N	N	N	30	700	1.5
OMG36	33 33 59	115 45 50	.70	.50	15.00	.050	5,000	N	N	N	10	3,000	<1.0
OMG37	33 34 4	115 47 7	5.00	1.50	.70	.500	1,000	N	N	N	150	700	3.0
OMG38	33 34 9	115 47 47	5.00	.50	20.00	.050	3,000	N	N	N	20	1,000	N
OMG39	33 34 11	115 48 19	3.00	1.00	2.00	.300	1,000	N	N	N	50	500	1.0
OMG40	33 34 8	115 48 54	2.00	.70	.50	.200	700	N	N	N	15	700	1.5
OMG41	33 36 55	115 51 37	5.00	2.00	1.00	.500	1,000	N	N	N	100	700	2.0
OMG42	33 36 34	115 50 35	1.00	.50	.50	.100	>5,000	N	N	N	10	100	N
OMG43	33 36 5	115 51 4	10.00	1.50	2.00	.500	3,000	N	N	N	20	700	1.0
OMG44	33 36 5	115 51 4	10.00	.70	1.00	.200	>5,000	N	N	N	20	50	N
OMG45	33 36 8	115 50 53	3.00	.70	.50	.300	2,000	1.0	N	N	2,000	700	N
OMG46	33 36 8	115 50 53	5.00	5.00	.70	.200	1,500	N	N	N	70	3,000	N
OMG47	33 34 40	115 46 8	.70	.30	3.00	.100	3,000	N	N	N	50	1,000	1.0
OMG48	33 33 47	115 46 0	2.00	.70	.70	.200	3,000	N	N	N	50	1,500	1.5
OMG49	33 32 44	115 45 51	1.50	.70	.50	.300	700	N	N	N	20	500	2.0
OMG50	33 35 2	115 51 33	1.50	.50	.70	.500	700	N	N	N	50	500	2.0
OMG51	33 33 34	115 48 44	1.50	.70	1.00	.500	700	N	N	N	20	700	2.0
OMG52	33 33 18	115 48 42	1.00	1.00	20.00	.200	1,500	.5	N	N	N	<20	N
OMG53	33 32 38	115 49 3	2.00	.70	.70	.500	700	N	N	N	20	700	2.0
OMG54	33 31 38	115 45 36	2.00	.50	.50	.300	700	N	N	N	20	700	2.0
OMG55	33 34 19	115 46 39	1.50	.50	10.00	.030	3,000	N	N	N	10	500	N
OMS01	33 36 53	115 50 8	5.00	.50	1.00	.500	700	N	N	N	30	1,000	N
OMS02	33 36 23	115 50 8	7.00	.70	1.50	.700	2,000	N	N	N	50	1,000	N
OMS03	33 32 3	115 42 40	7.00	.70	1.50	.700	1,500	N	N	N	50	1,000	1.5
OMS04	33 32 3	115 42 40	.70	.10	5.00	.100	150	N	N	N	70	300	N
OMS05	33 31 44	115 41 27	5.00	.70	2.00	.700	1,000	N	N	N	20	1,000	N
OMS06	33 31 53	115 41 29	7.00	1.00	3.00	1.000	1,500	N	N	N	20	700	N
OMS07	33 32 8	115 41 24	7.00	2.00	3.00	.500	1,500	N	N	N	50	500	1.0
OMS08	33 32 9	115 41 30	1.00	.30	5.00	.700	500	N	N	N	70	500	N
OMS09	33 32 9	115 41 30	10.00	3.00	3.00	1.000	2,000	N	N	N	30	200	N
OMS10	33 32 9	115 41 30	10.00	3.00	3.00	1.000	1,500	N	N	N	30	300	N
OMS11	33 32 10	115 41 34	10.00	2.00	5.00	1.000	2,000	N	N	N	30	700	1.0
OMS12	33 32 10	115 41 34	2.00	.70	2.00	.700	1,000	N	N	N	50	1,000	1.0
OMS13	33 32 10	115 41 34	5.00	1.50	3.00	.700	1,500	N	N	N	30	200	1.5
OMS14	33 32 13	115 41 30	2.00	.30	1.50	.500	1,000	N	N	N	50	2,000	1.5
OMS15	33 32 0	115 42 30	3.00	.20	2.00	.500	1,500	N	N	N	50	2,000	1.5
OMS16	33 32 14	115 41 29	1.00	.30	1.00	.100	200	N	N	N	20	500	1.5
OMS17	33 32 31	115 41 27	2.00	.50	.50	.150	5,000	N	N	N	100	100	2.0
OMS18	33 32 42	115 43 31	5.00	.50	.70	.500	1,000	N	N	N	20	70	1.0
OMS19	33 32 31	115 41 27	.70	.70	.15	.100	200	N	N	N	70	500	3.0
OMS20	33 32 29	115 41 27	5.00	2.00	2.00	.500	2,000	N	N	N	100	300	1.5

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
OMG31	N	N	20	100	100	<20	N	N	50	50	N	20	N	500
OMG32	N	N	20	70	70	50	N	<20	50	50	N	15	N	200
OMG33	N	N	15	70	50	50	N	<20	30	50	N	10	N	500
OMG34	N	N	15	70	100	50	N	<20	70	15	N	10	N	200
OMG35	N	N	10	50	50	50	N	<20	15	30	N	10	N	300
OMG36	N	N	15	10	5	<20	N	N	70	20	N	7	N	500
OMG37	N	N	20	50	100	100	N	20	50	70	N	15	N	300
OMG38	N	N	5	20	100	<20	N	N	70	50	N	N	N	500
OMG39	N	N	10	50	70	<20	N	N	30	20	N	10	N	300
OMG40	N	N	5	50	15	<20	N	N	20	10	N	5	N	200
OMG41	N	N	20	100	100	<20	N	<20	100	30	N	20	N	200
OMG42	N	N	10	10	10	N	N	N	70	N	N	10	N	N
OMG43	N	N	10	10	20	50	N	50	30	30	N	10	N	500
OMG44	N	N	15	20	150	50	N	N	70	N	N	10	N	N
OMG45	N	N	15	50	500	50	30	N	100	N	N	10	N	N
OMG46	N	N	30	>5,000	100	N	N	N	200	10	N	10	N	<100
OMG47	N	N	15	150	70	N	N	N	50	N	N	7	N	200
OMG48	N	N	10	70	50	<20	N	N	30	10	N	10	N	300
OMG49	N	N	10	70	70	70	N	<20	20	20	N	10	N	200
OMG50	N	N	5	50	10	50	N	N	10	50	N	10	N	300
OMG51	N	N	10	100	10	50	N	N	70	20	N	10	N	200
OMG52	N	N	10	70	15	N	N	N	10	N	N	15	N	300
OMG53	N	N	10	100	20	70	N	<20	30	20	N	10	N	300
OMG54	N	N	10	70	15	50	N	<20	20	20	N	7	N	300
OMG55	N	N	10	20	100	50	N	N	20	30	N	7	N	700
OMS01	N	N	10	10	10	N	N	N	<5	<10	N	15	N	700
OMS02	N	N	15	20	15	50	N	N	<5	<10	N	50	N	300
OMS03	N	N	15	10	20	150	N	30	<5	20	N	30	N	300
OMS04	N	N	N	N	N	N	N	N	5	N	N	N	N	1,500
OMS05	N	N	10	15	N	<20	N	<20	<5	10	N	15	N	700
OMS06	N	N	20	15	30	N	N	N	<5	<10	N	20	N	1,000
OMS07	N	N	50	50	150	N	N	N	50	20	N	50	N	300
OMS08	N	N	10	10	5	N	N	N	5	10	N	7	N	2,000
OMS09	N	N	50	20	50	100	N	N	5	<10	N	30	N	700
OMS10	N	N	50	20	50	70	N	N	5	10	N	20	N	700
OMS11	N	N	30	20	50	100	N	20	5	<10	N	30	N	1,000
OMS12	N	N	15	10	10	N	N	20	5	20	N	20	N	1,500
OMS13	N	N	30	20	20	50	N	N	<5	<10	N	20	N	1,000
OMS14	N	N	5	<10	10	50	N	<20	<5	20	N	10	N	700
OMS15	N	N	5	10	10	50	N	<20	<5	30	N	20	N	500
OMS16	N	N	5	<10	<5	N	N	N	10	30	N	N	N	700
OMS17	N	N	5	10	50	70	N	<20	<5	50	N	30	N	N
OMS18	N	N	5	10	10	150	N	50	<5	15	N	15	N	100
OMS19	N	N	N	N	N	50	N	<20	5	50	N	5	N	N
OMS20	N	N	50	50	100	N	N	N	70	10	N	30	N	<100

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	U-ppm f
OMG31	500	150	N	30	<200	100	N	N	<.02	N	--	--	--	N	.90
OMG32	200	150	N	30	<200	200	N	N	<.02	N	--	--	--	N	.45
OMG33	500	100	N	30	N	500	N	N	<.02	N	--	--	--	N	.55
OMG34	200	100	N	30	N	150	N	N	<.02	N	--	--	--	N	.55
OMG35	300	100	N	20	N	200	N	N	<.02	N	--	--	--	N	.75
OMG36	500	20	N	50	N	30	N	N	<.02	N	--	--	--	N	.50
OMG37	300	150	N	50	N	200	N	N	<.02	N	--	--	--	N	.90
OMG38	500	70	N	30	<200	20	N	N	<.02	5	--	--	--	N	.35
OMG39	300	100	N	20	N	200	N	N	<.02	N	--	--	--	N	.40
OMG40	200	50	N	20	N	150	N	N	<.02	N	--	--	--	8	.65
OMG41	200	200	N	30	<200	200	N	N	<.02	10	--	--	--	N	1.00
OMG42	N	50	N	30	N	70	100	N	<.02	10	--	--	--	N	.25
OMG43	500	100	N	50	N	300	N	N	<.02	<5	--	--	--	N	.30
OMG44	N	150	N	50	<200	100	N	N	<.02	<5	--	--	--	N	.55
OMG45	N	200	N	50	N	100	N	N	<.02	5	--	--	--	N	2.00
OMG46	<100	200	N	N	N	<10	N	N	<.02	N	--	--	--	N	.45
OMG47	200	50	N	30	N	30	N	N	<.02	20	--	--	--	N	.65
OMG48	300	100	N	20	N	100	N	N	<.02	N	--	--	--	N	.60
OMG49	200	100	N	20	N	200	N	N	<.02	<5	--	--	--	N	1.20
OMG50	300	70	N	20	N	200	N	N	<.02	N	--	--	--	N	.75
OMG51	200	100	N	20	N	150	N	N	<.02	N	--	--	--	N	.65
OMG52	300	100	N	10	N	20	N	<.05	<.02	5	--	--	--	N	.80
OMG53	300	100	N	30	N	200	N	N	<.02	N	--	--	--	N	.45
OMG54	300	100	N	20	N	200	N	N	<.02	5	--	--	--	N	.95
OMG55	700	50	N	30	N	20	N	N	<.02	N	--	--	--	N	.45
OMS01	700	10	N	10	N	20	N	<.05	.02	<5	--	--	--	N	.25
OMS02	300	10	N	30	<200	30	N	N	.04	5	--	--	--	N	.25
OMS03	300	15	N	70	200	700	N	N	.02	N	--	--	--	N	.30
OMS04	1,500	15	N	N	N	N	N	N	.04	N	--	--	--	N	.30
OMS05	700	10	N	20	N	50	N	<.05	<.02	N	--	--	--	N	.25
OMS06	1,000	70	N	30	N	50	N	N	.08	N	--	--	--	N	.20
OMS07	300	200	N	50	<200	100	N	N	.08	N	--	--	--	N	.25
OMS08	2,000	30	N	N	N	10	N	N	.02	<5	--	--	--	N	.15
OMS09	700	100	N	70	200	50	N	N	<.02	N	--	--	--	N	.35
OMS10	700	100	N	50	200	50	N	N	.04	N	--	--	--	N	.15
OMS11	1,000	50	N	70	200	50	N	N	<.02	5	--	--	--	N	.40
OMS12	1,500	30	N	30	N	70	N	N	<.02	N	--	--	--	N	.30
OMS13	1,000	100	N	30	<200	70	N	N	<.02	<5	--	--	--	N	.20
OMS14	700	<10	N	20	N	50	N	N	.18	<5	--	--	--	N	.25
OMS15	500	<10	N	30	N	500	N	.05	<.02	<5	--	--	--	N	.35
OMS16	700	20	N	N	N	70	N	N	<.02	N	--	--	--	N	.10
OMS17	N	15	N	200	N	500	N	N	<.02	N	--	--	--	N	2.65
OMS18	100	<10	N	50	300	700	N	N	<.02	N	--	--	--	N	.30
OMS19	N	<10	N	20	N	100	N	N	<.02	N	--	--	--	N	.95
OMS20	<100	300	N	30	300	50	N	N	.10	5	--	--	--	N	.55

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
OMS21	33 32 29	115 41 27	5.00	5.00	5.00	.200	2,000	N	N	N	500	100	<1.0
OMS22	33 32 29	115 41 27	10.00	1.00	3.00	1.000	3,000	N	N	N	100	200	2.0
OMS23	33 32 32	115 40 25	1.00	.07	.20	.100	500	N	N	N	50	200	1.0
OMS24	33 32 32	115 40 25	10.00	.20	1.50	1.000	1,000	N	N	N	50	50	N
OMS25	33 35 28	115 47 48	5.00	.15	2.00	.300	2,000	N	N	N	20	700	1.0
OMS26	33 33 0	115 43 42	.50	.03	.20	.020	150	N	N	N	20	200	1.0
OMS27	33 34 29	115 45 34	.50	.10	5.00	.050	100	N	N	N	30	200	1.0
OMS28	33 35 58	115 47 56	5.00	.20	1.50	.500	1,500	N	N	N	20	500	1.5
OMS29	33 35 59	115 47 51	1.50	.20	2.00	.200	1,000	N	N	N	20	2,000	N
OMS30	33 33 7	115 42 49	2.00	.30	.70	.500	700	N	N	N	70	700	3.0
OMS31	33 32 29	115 41 27	5.00	1.50	.30	.500	1,500	N	N	N	50	500	1.0
OMS32	33 32 7	115 41 31	2.00	.50	1.00	.500	1,000	N	N	N	50	700	1.5
OMS33	33 32 6	115 41 11	7.00	2.00	3.00	1.000	2,000	N	N	N	20	200	N
OMS34	33 32 2	115 41 11	1.50	.50	1.00	.500	700	N	N	N	20	2,000	N
OMS35	33 31 57	115 41 11	1.50	.20	.70	.200	1,000	N	N	N	10	700	1.5
OMS36	33 31 57	115 41 11	2.00	.70	.70	.500	1,000	N	N	N	10	700	1.5
OMS37	33 31 46	115 41 14	3.00	.70	1.00	.300	1,000	N	N	N	30	3,000	1.0
OMS38	33 31 46	115 41 14	10.00	1.50	1.50	1.000	2,000	N	N	N	50	2,000	N
OMS39	33 31 54	115 41 21	10.00	2.00	2.00	1.000	3,000	N	N	N	20	700	N
OMS40	33 31 54	115 41 21	5.00	2.00	3.00	1.000	2,000	N	N	N	20	700	N
OMS41	33 31 54	115 41 21	3.00	1.00	3.00	.500	1,000	N	N	N	30	1,000	1.0
OMS42	33 31 52	115 41 19	10.00	2.00	3.00	1.000	2,000	N	N	N	30	700	N
OMS43	33 31 43	115 40 47	5.00	.30	1.00	.200	2,000	N	N	N	20	1,000	<1.0
OMS44	33 31 27	115 40 55	2.00	.20	.70	.300	1,000	N	N	N	15	1,000	<1.0
OMS45	33 31 27	115 40 55	3.00	.20	.70	.300	1,000	N	N	N	30	1,000	<1.0
OMS46	33 31 10	115 40 48	1.50	.50	1.00	.200	3,000	N	N	N	20	1,000	1.5
OMS47	33 31 0	115 41 41	2.00	.20	2.00	.200	2,000	N	N	N	30	2,000	N
OMS48	33 30 57	115 41 57	3.00	.15	.50	.300	1,000	<.5	N	N	30	700	1.5
OMS49	33 32 15	115 42 45	.50	.05	.50	.030	50	N	N	N	30	700	N
OMS50	33 32 36	115 40 42	1.50	.30	.70	.200	200	N	N	N	50	700	1.0
OMS52	33 32 40	115 41 58	2.00	.70	1.00	.500	1,000	N	N	N	100	700	3.0
OMS53	33 32 15	115 41 48	5.00	.50	1.50	.500	1,500	N	N	N	20	2,000	1.0

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
OMS21	N	N	70	300	N	N	N	N	150	70	N	30	N	200
OMS22	N	N	50	20	500	50	N	<20	5	20	N	50	N	N
OMS23	N	N	5	N	<5	N	N	N	<5	70	N	N	N	N
OMS24	N	N	30	50	20	50	N	N	<5	N	N	20	N	N
OMS25	N	N	5	10	7	100	N	20	<5	20	N	15	N	200
OMS26	N	N	N	N	<5	<20	N	N	5	<10	N	N	N	N
OMS27	N	N	5	<10	<5	N	N	N	5	20	N	N	N	1,000
OMS28	N	N	5	15	10	200	N	50	<5	20	N	15	N	200
OMS29	N	N	5	<10	<5	N	N	N	<5	<10	N	5	N	700
OMS30	N	N	10	15	15	70	N	<20	10	50	N	10	N	200
OMS31	N	N	30	70	5	200	N	<20	50	70	N	20	N	N
OMS32	N	N	10	15	15	50	N	<20	10	30	N	10	N	500
OMS33	N	N	50	20	20	100	N	<20	<5	N	N	30	N	700
OMS34	N	N	10	<10	15	N	N	N	<5	<10	N	10	N	1,000
OMS35	N	N	5	<10	5	50	N	N	5	10	N	10	N	200
OMS36	N	N	7	10	<5	100	N	<20	5	<10	N	15	N	100
OMS37	N	N	10	10	20	50	N	N	<5	10	N	15	N	1,000
OMS38	N	N	30	20	50	100	N	20	<5	N	N	30	N	200
OMS39	N	N	50	20	100	70	N	<20	<5	N	N	50	N	500
OMS40	N	N	30	20	70	50	N	<20	5	N	N	50	N	1,000
OMS41	N	N	15	10	7	<20	N	N	<5	N	N	15	N	1,000
OMS42	N	N	50	15	100	50	N	<20	<5	N	N	30	N	1,000
OMS43	N	N	5	<10	7	<20	N	N	<5	10	N	10	N	200
OMS44	N	N	5	<10	5	N	N	N	<5	10	N	15	N	300
OMS45	N	N	N	<10	7	N	N	N	<5	10	N	10	N	300
OMS46	N	N	5	N	N	50	N	N	<5	50	N	5	N	700
OMS47	N	N	5	<10	<5	<20	N	N	<5	20	N	5	N	700
OMS48	N	N	5	<10	7	200	5	20	<5	50	N	10	N	200
OMS49	N	N	N	N	N	N	N	N	<5	10	N	N	N	200
OMS50	N	N	10	70	7	100	N	N	10	70	N	7	N	300
OMS52	N	N	15	10	15	100	N	<20	7	70	N	15	N	300
OMS53	N	N	10	10	20	<20	N	<20	<5	20	N	15	N	1,000

TABLE 5. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE OROCOPIA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA.--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	U-ppm f
OMS21	200	150	N	20	200	15	N	N	<.02	N	--	--	--	N	.30
OMS22	N	200	N	100	500	200	N	N	.04	<5	--	--	--	N	1.90
OMS23	N	<10	N	30	N	100	N	N	<.02	N	--	--	--	N	.75
OMS24	N	10	N	30	<200	50	N	<.05	<.02	35	--	--	--	5	.50
OMS25	200	<10	N	50	N	700	N	N	<.02	N	--	--	--	N	.25
OMS26	N	<10	N	N	N	20	N	N	N	N	--	--	--	N	.25
OMS27	1,000	10	N	N	N	10	N	N	<.02	N	--	--	--	N	.45
OMS28	200	<10	N	70	200	700	N	N	<.02	N	--	--	--	N	.35
OMS29	700	<10	N	N	N	N	N	N	<.02	N	--	--	--	N	.10
OMS30	200	50	N	50	<200	150	N	N	<.02	N	--	--	--	N	.85
OMS31	N	150	N	70	200	150	N	N	<.02	N	--	--	--	N	.95
OMS32	500	70	N	30	N	200	N	N	<.02	N	--	--	--	N	.15
OMS33	700	70	N	70	200	100	N	N	<.02	N	--	--	--	N	.55
OMS34	1,000	15	N	10	N	10	N	N	<.02	<5	--	--	--	N	.15
OMS35	200	20	N	50	N	200	N	N	.20	N	--	--	--	2	.20
OMS36	100	20	N	50	N	500	N	N	.26	N	--	--	--	1	.20
OMS37	1,000	10	N	30	N	100	N	N	.06	N	--	--	--	1	.35
OMS38	200	20	N	50	200	70	N	N	.03	<5	--	--	--	1	.25
OMS39	500	70	N	50	200	70	N	N	.04	10	--	--	--	1	.35
OMS40	1,000	50	N	30	<200	70	N	N	.02	N	--	--	--	N	.30
OMS41	1,000	20	N	20	N	50	N	--	--	--	--	--	--	--	--
OMS42	1,000	100	N	50	200	50	N	--	--	--	--	--	--	--	--
OMS43	200	<10	N	20	N	700	N	--	--	--	--	--	--	--	--
OMS44	300	<10	N	10	N	50	N	--	--	--	--	--	--	--	--
OMS45	300	<10	N	15	N	50	N	--	--	--	--	--	--	--	--
OMS46	700	20	N	20	N	70	N	--	--	--	--	--	--	--	--
OMS47	700	<10	N	20	N	500	N	--	--	--	--	--	--	--	--
OMS48	200	<10	N	50	N	500	N	--	--	--	--	--	--	--	--
OMS49	200	<10	N	N	N	N	N	--	--	--	--	--	--	--	--
OMS50	300	70	N	50	N	300	N	--	--	--	--	--	--	--	--
OMS52	300	70	N	50	N	200	N	--	--	--	--	--	--	--	--
OMS53	1,000	<10	N	30	N	150	N	--	--	--	--	--	--	--	--

TABLE 6.--Description of rock samples from the Orocopia Mountains Wilderness Study Area, Riverside County, California

OA015R	igneous
23R	chert or jasperoid
29R	gneiss
29RA	metamorphic
29RB	gneiss
50R	felsic igneous
51R	igneous
52R	gneiss
56R	unidentified
57R	igneous
57RA	schist
58R	mafic igneous
59R	schist
60R	gneiss
OME01	green schist
02	green schist
03	green schist
04	green schist
05	green schist
06	green schist
07	green schist
08	green schist
09	green schist
10	green schist
11	green schist
12	green schist
13	green schist
14	green schist
15	green schist
16	green schist
17	green schist
18	green schist
19	green schist
20	green schist
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22	green schist
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24	green schist
25	green schist
26	green schist
27	green schist
28	green schist
29	green schist
30	green schist
31	green schist
32	green schist
33	green schist
34	green schist
35	green schist
36	green schist
37	green schist
38	green schist
39	green schist
40	green schist
41	green schist
42	green schist
43	green schist
OMG01	gray schist
02	gray schist
03	gray schist
04	gray schist
05	gray schist
06	gray schist
07	gray schist
08	gray schist
09	gray schist
10	gray schist
11	gray schist
12	gray schist
13	gray schist
14	gray schist
15	gray schist
16	gray schist
17	gray schist
18	gray schist
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39	gray schist
40	gray schist
41	gray schist
42	gray schist
43	gray schist
44	gray schist
45	gray schist
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47	gray schist
48	gray schist
49	gray schist
50	gray schist
51	gray schist
52	gray schist
53	gray schist
54	gray schist
55	gray schist

TABLE 6.--continued

OMM01	mineralized and/or altered rock
02	mineralized and/or altered rock
03	mineralized and/or altered rock
04	mineralized and/or altered rock
05	mineralized and/or altered rock
06	mineralized and/or altered rock
07	mineralized and/or altered rock
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27	mineralized and/or altered rock
28	mineralized and/or altered rock
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35	mineralized and/or altered rock
36	mineralized and/or altered rock
37	mineralized and/or altered rock
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39	mineralized and/or altered rock
40	mineralized and/or altered rock
41	mineralized and/or altered rock
42	mineralized and/or altered rock
43	mineralized and/or altered rock
44	mineralized and/or altered rock
45	mineralized and/or altered rock
46	mineralized and/or altered rock
47	mineralized and/or altered rock
48	mineralized and/or altered rock
49	mineralized and/or altered rock

TABLE 6.--continued

OMP01	Mesozoic(?) foliated and unfoliated plutonic rock
02	Mesozoic(?) foliated and unfoliated plutonic rock
03	Mesozoic(?) foliated and unfoliated plutonic rock
04	Mesozoic(?) foliated and unfoliated plutonic rock
05	Mesozoic(?) foliated and unfoliated plutonic rock
06	Mesozoic(?) foliated and unfoliated plutonic rock
07	Mesozoic(?) foliated and unfoliated plutonic rock
08	Mesozoic(?) foliated and unfoliated plutonic rock
09	Mesozoic(?) foliated and unfoliated plutonic rock
10	Mesozoic(?) foliated and unfoliated plutonic rock
11	Mesozoic(?) foliated and unfoliated plutonic rock
12	Mesozoic(?) foliated and unfoliated plutonic rock
13	Mesozoic(?) foliated and unfoliated plutonic rock
14	Mesozoic(?) foliated and unfoliated plutonic rock
15	Mesozoic(?) foliated and unfoliated plutonic rock
16	Mesozoic(?) foliated and unfoliated plutonic rock
17	Mesozoic(?) foliated and unfoliated plutonic rock
18	Mesozoic(?) foliated and unfoliated plutonic rock
19	Mesozoic(?) foliated and unfoliated plutonic rock
20	Mesozoic(?) foliated and unfoliated plutonic rock
21	Mesozoic(?) foliated and unfoliated plutonic rock
22	Mesozoic(?) foliated and unfoliated plutonic rock
23	Mesozoic(?) foliated and unfoliated plutonic rock
24	Mesozoic(?) foliated and unfoliated plutonic rock

OMQ01	quartz vein	OMQ26	quartz vein
02	quartz vein	27	quartz vein
03	quartz vein	28	quartz vein
04	quartz vein	29	quartz vein
05	quartz vein	30	quartz vein
06	quartz vein	31	quartz vein
07	quartz vein	32	quartz vein
08	quartz vein	33	quartz vein
09	quartz vein	34	quartz vein
10	quartz vein	35	quartz vein
11	quartz vein	36	quartz vein
12	quartz vein	37	quartz vein
13	quartz vein	38	quartz vein
14	quartz vein	39	quartz vein
15	quartz vein	40	quartz vein
16	quartz vein	41	quartz vein
17	quartz vein	42	quartz vein
18	quartz vein	43	quartz vein
19	quartz vein	44	quartz vein
20	quartz vein	45	quartz vein
21	quartz vein	46	quartz vein
22	quartz vein	47	quartz vein
23	quartz vein	48	quartz vein
24	quartz vein	49	quartz vein
25	quartz vein		