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U.S. GEOLOGICAL SURVEY

ANALYTICAL RESULTS AND SAMPLE LOCALITY MAPS FOR ROCK, STREAM-SEDIMENT, AND SOIL SAMPLES, JOSHUA TREE NATIONAL PARK, RIVERSIDE AND SAN BERNARDINO COUNTIES, CALIFORNIA

By

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

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INTRODUCTION

This report contains analytical data for 144 rock samples, 358 stream-sediment samples, 3 mill tailings samples, and 25 soil samples collected by the U. S. Geological Survey (USGS), and 27 soil, and 11 stream-sediment samples collected during the National Uranium Resource Evaluation (NURE) program. Included in the 358 stream-sediment samples collected by the USGS are 202 samples collected as part of the current study and 156 samples collected as part of Bureau of Land Management (BLM) Wilderness Study Area (WSA) investigations of three areas: the Coxcomb Mountains, the Eagle Mountains, and the Sheep Hole Mountains WSAs. The NURE and BLM WSA samples were re-analyzed for the present study. All samples are from Joshua Tree National Park and vicinity, Riverside and San Bernardino Counties, California. The analyses of these samples can be used for baseline geochemical, mineral resource, and environmental geochemical studies.

The location of Joshua Tree National Park is shown in figure 1. The park occupies 794,300 acres (1,241 sq. mi.) at the eastern end of the Transverse Ranges geomorphic province of southern California. Mountain ranges in, and adjacent to, the park include the Cottonwood, Coxcomb, Eagle, Hexie, Little San Bernardino, Pinto, and Sheep Hole Mountains. The park includes parts of two deserts, the lower-elevation Colorado Desert, in the eastern half of the park, and the higher-elevation Mojave Desert, in the western half. Geology of the park has recently been described by Trent (1998). Predominant rock types include various Mesozoic granitic rock units, Cenozoic basaltic flow units, and Proterozoic metasedimentary, metaigneous, and metamorphic rock units.

This report consists of two parts. Part A is this printed report. Part B is an IBM-compatible digital version of most of Part A on an 1.44 MB diskette. The diskette includes this text in ASCII, and Corel WordPerfect, version 6.1format, as well as an ASCII "readme" file, and the complete data for tables 3 through 6 in both "dbf" and "wk1" formats. The "dbf" files are similar to the tables in part A. The "wk1" files are more complete and include the specific limits for elements with more than one lower limit of determination. The wk1 file for table 3 also includes the rock descriptions. The four figures are not included in the diskette version.

SAMPLE COLLECTION AND PREPARATION

A total of 144 rock samples were collected from 135 sites. The samples consisted of composited chips from several outcrops, or of a composite of several grab samples from a mine or prospect dump, that were collected from within a 30-meter radius of each sample site plotted on figure 2. Three samples of mill tailings were collected from three mill sites, and are included in the rock data set.

Samples of bulk stream sediment were collected from 202 sites. All samples were taken from dry stream beds, and most were from stream beds with gentle to moderate gradients. The bulk stream sediment at each site was composited from several localities extending across what appeared to be the most recently active stream channel and within an area of 30-meter radius of each site plotted on figure 3.

Soil samples were collected from 25 sites. Eighteen of these samples are from a soil traverse that crossed Smoke Tree Wash, just east of the Hexie Mountains. These samples were taken at a spacing of roughly 200 ft (61 m). This traverse was done to provide on-the ground

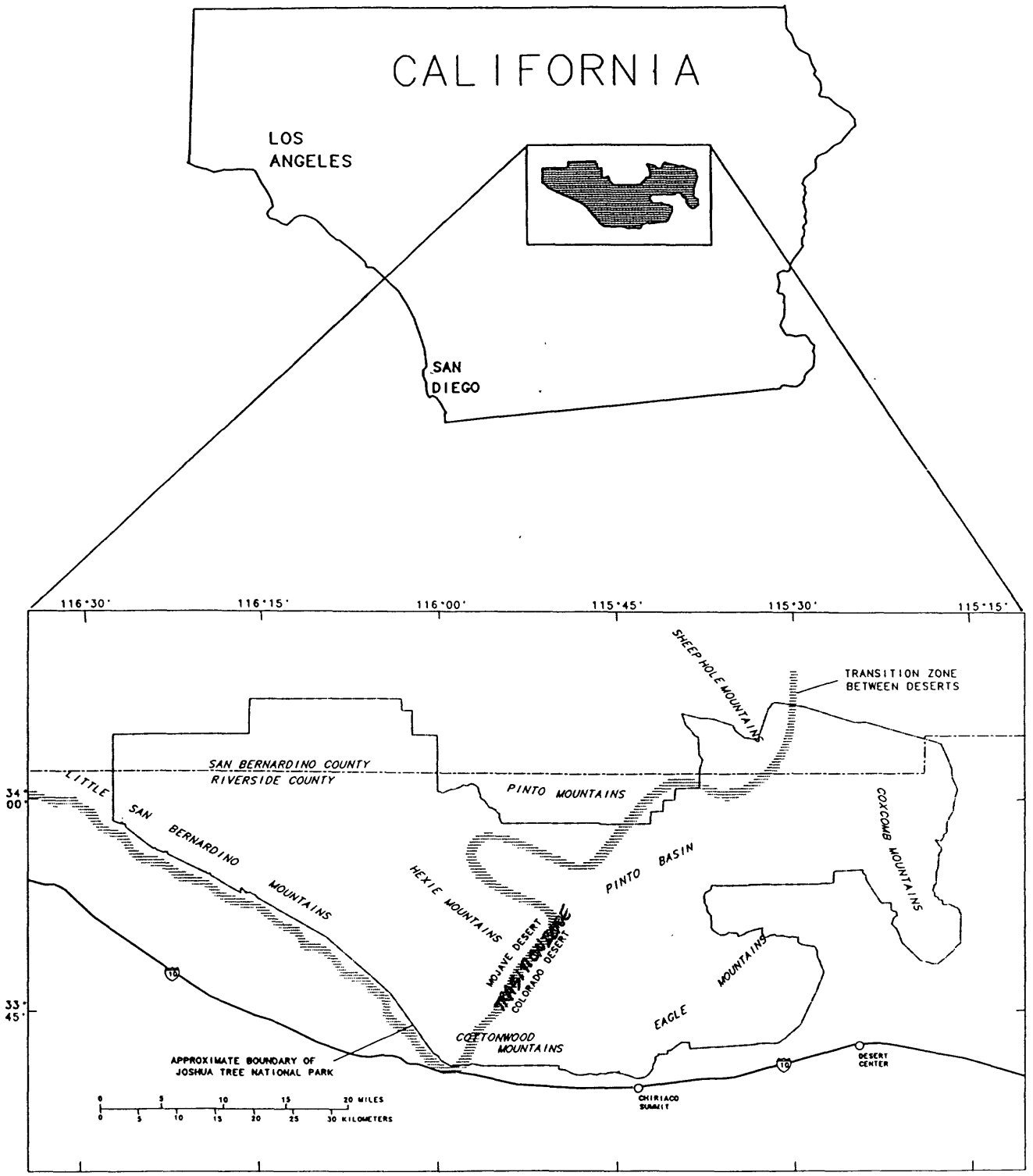

Figure 1. Maps showing location of Joshua Tree National Park, California

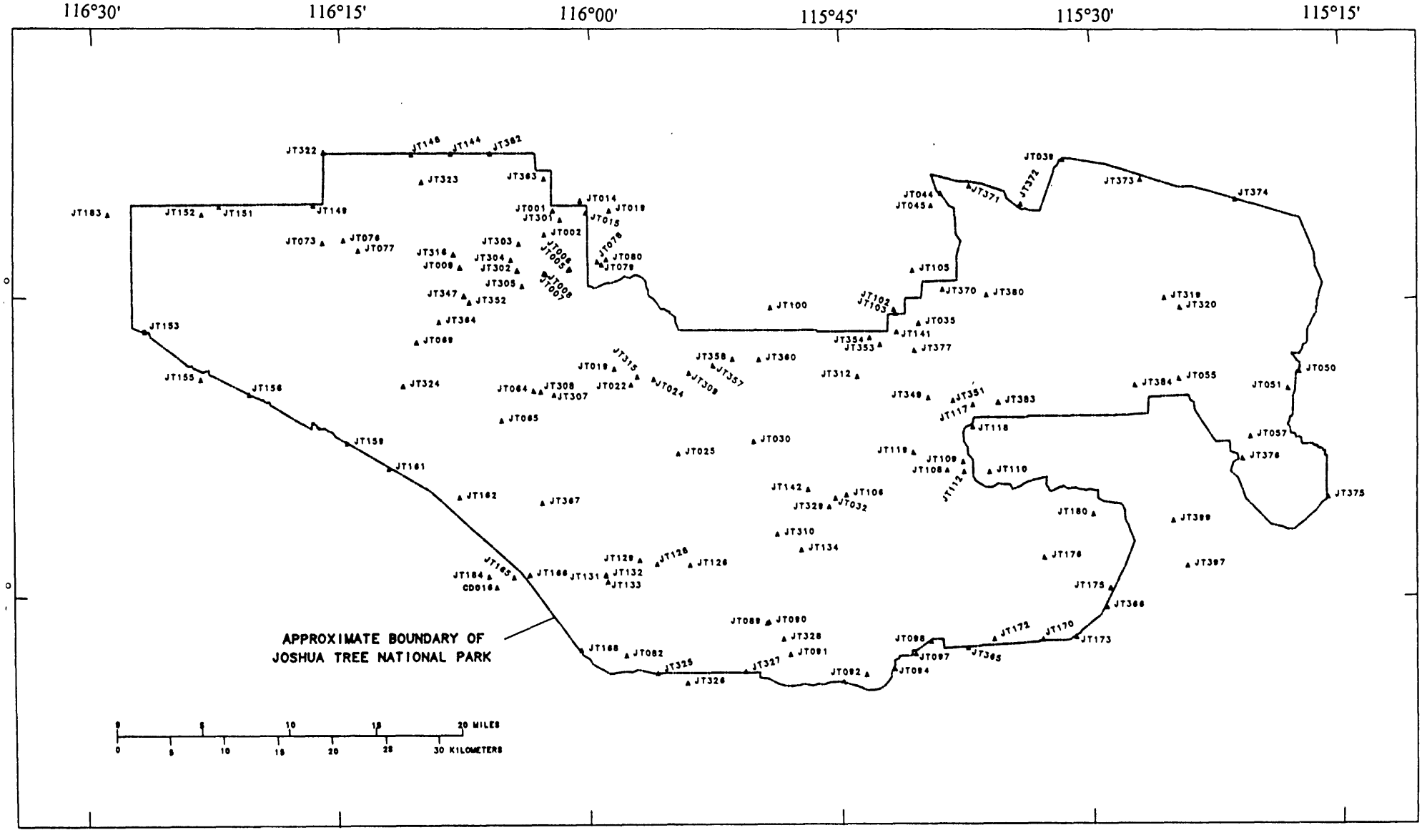

Figure 2. Site locality map for USGS rock samples

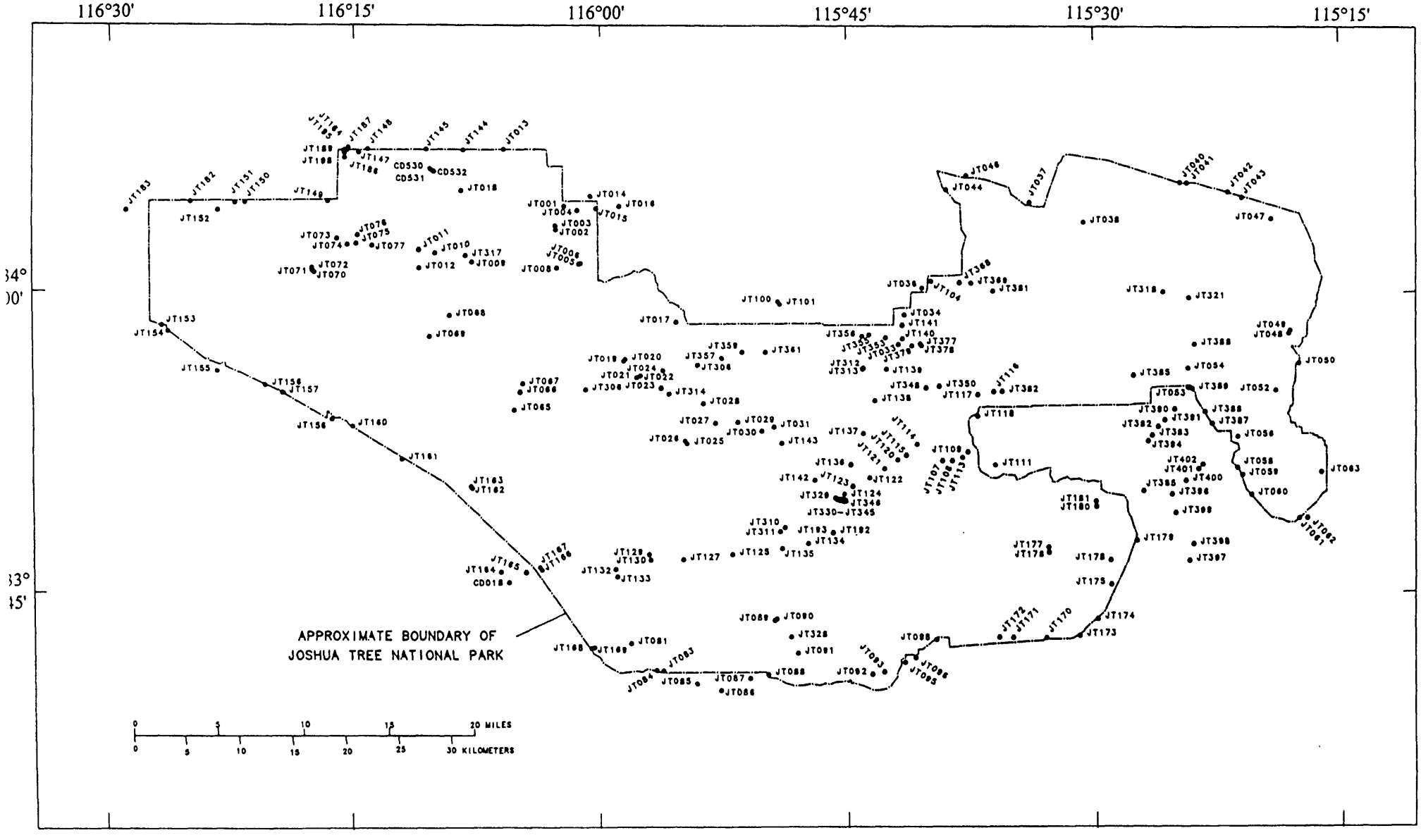

Figure 3. Site locality map for USGS stream-sediment and soil samples

information to aid in interpretation of remote sensing information. The other seven soil samples were collected for other investigations. All of the soil samples were composited from material collected from about six locations within an area with about a 10-meter radius of each soil-sample site plotted on figure 3.

Selected stream-sediment samples previously collected for USGS reconnaissance geochemical studies of three BLM WSAs, and stream-sediment and soil samples previously collected for the NURE program study of the Salton Sea 1 x 2 degree quadrangle were obtained from USGS archives in Denver, CO, for re-analysis. The BLM WSAs and the reports of original geochemical data are the Coxcomb Mountains WSA (Kilburn, and others, 1983), the Eagle Mountains WSA (Day, and others, 1985), and the Sheep Hole Mountains WSA. The latter WSA was abandoned by the BLM and an analytical data report was not released. NURE sampling (Heffner, 1980) was done in 1979 in areas outside of the then Joshua Tree National Monument that have since become part of Joshua Tree National Park. NURE sampling was not conducted within the monument. NURE sampling methods are described in Price and Jones (1979). Locations of the WSA and NURE sample sites are shown on figure 4.

The rock, stream-sediment, and seven of the soil samples collected during the present study were prepared and analyzed by Activation Laboratories, Inc. (ACTLABS). ACTLABS (now ENZYME Laboratories, Inc.) routinely crushed the entire rock sample to minus-10-mesh (2 mm), mechanically split the rock sample, and pulverized one of the splits to at least minus-150-mesh for analysis. The stream-sediment and soil samples were sieved at the sample site to minus-2-mm with stainless-steel sieves. These samples were further sieved in the laboratory and the minus-80-mesh (0.18-mm) fraction was retained for analysis and pulverized as described for the rock samples.

The stream-sediment samples from the BLM WSAs, and the NURE stream-sediment and soil samples had previously been prepared. The WSA samples were sieved to minus-80-mesh and the NURE samples, to minus-100-mesh. The samples had been pulverized to a fine powder that was also approximately minus 150-mesh.

The stream-sediment samples from the Coxcomb Mountains, and Sheep Hole Mountains WSAs, the NURE samples, and the 18 soil samples from the traverse across Smoke Tree Wash were analyzed by XRAL Laboratories. The samples from the Eagle Mountains WSA were analyzed by ACTLABS.

ANALYTICAL METHODS

All samples were submitted to the laboratories in a random sequence and generally in groups of 40 samples. Duplicate samples and internal standards were submitted with the samples to check the accuracy and reproducibility of the analyses. ACTLABS analyzed samples for 29 elements (As, Au, Ba, Br, Ce, Co, Cr, Cs, Eu, Fe, Hf, Hg, Ir, La, Lu, Na, Nd, Rb, Sb, Sc, Se, Sm, Sn, Ta, Tb, Th, U, W, and Yb) by instrumental neutron activation (INAA), and for 19 elements (Ag, Al, Be, Bi, Ca, Cd, Cu, K, Mg, Mn, Mo, Ni, P, Pb, Sr, Ti, V, Y, and Zn) by inductively coupled plasma-atomic emission spectrometry (ICP-AES) after a hot-acid extraction technique. The elements analyzed and lower limits of determination are listed in table 1.

XRAL analyzed samples using two methods of ICP-AES, a partial-extraction method, and a hot-acid extraction method.The methods are similar to those described by Motooka (1990), and by Briggs (1990), respectively. Nine elements (Ag, As, Bi, Cd, Cu, Mo, Pb, Sb, and

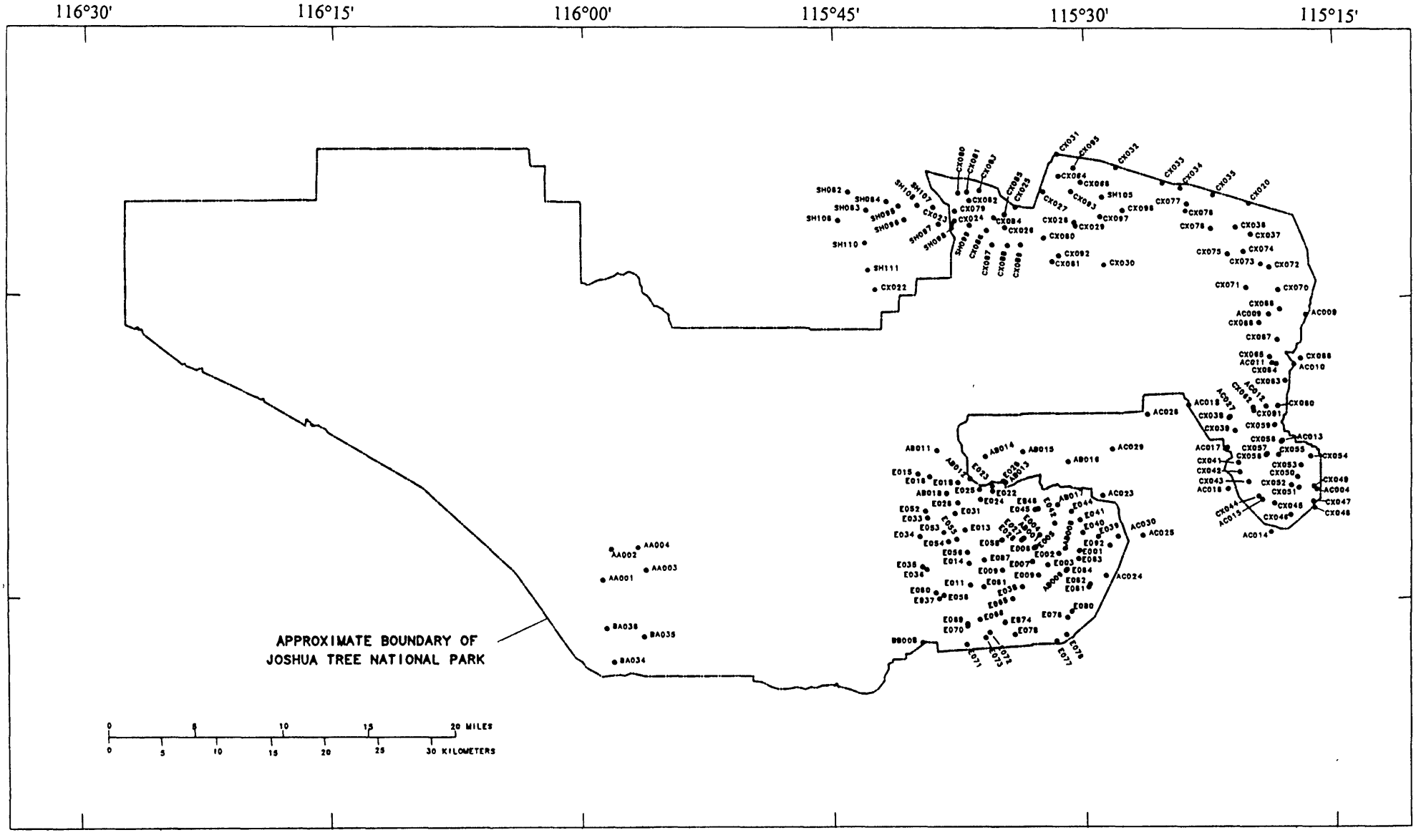

Figure 4. Site locality map for BLM wilderness study area stream-sediment samples and NURE stream-sediment and soil samples

Table 1. Lower limits of determination for ACTLABS instrumental neutron activation analysis (INAA), and inductively coupled plasma-atomic emission spectrometric analysis (ICP-AES)

Instrumental neutron activation analysis (INAA)

Element	Lower limit	Element	Lower limit
Antimony (Sb)	0.1 ppm*	Mercury (Hg)	1 ppm
Arsenic (As)	0.5 ppm	Neodymium (Nd)	5 ppm
Barium (Ba)	50 ppm	Rubidium (Rb)	15 ppm
Bromine (Br)	0.5 ppm*	Samarium (Sm)	0.1 ppm
Cerium (Ce)	3 ppm	Scandium (Sc)	0.1 ppm
Cesium (Cs)	1 ppm	Selenium (Se)	3 ppm*
Chromium (Cr)	5 ppm	Sodium (Na)	0.01 %
Cobalt (Co)	1 ppm	Tantalum (Ta)	0.5 ppm*
Europium (Eu)	0.2 ppm	Terbium (Tb)	0.5 ppm
Gold (Au)	2 ppb*	Thorium (Th)	0.2 ppm
Hafnium (Hf)	1 ppm	Tin (Sn)	100 ppm*
Iridium (Ir)	5 ppb	Tungsten (W)	1 ppm*
Iron (Fe)	0.01 %	Uranium (U)	0.5 ppm
Lanthanum (La)	0.5 ppm	Ytterbium (Yb)	0.2 ppm
Lutetium (Lu)	0.05 ppm		

Inductively coupled plasma-atomic emission spectrometric analysis (ICP-AES)

Element	Lower limit	Element	Lower limit
Alumium (Al)	0.01 %	Nickel (Ni)	1 ppm
Beryllium (Be)	2 ppm	Phosphorus (P)	0.001 %
Bismuth (Bi)	5 ppm	Potassium (K)	0.01 %
Cadmium (Cd)	0.5 ppm	Silver (Ag)	0.5 ppm*
Calcium (Ca)	0.01 %	Strontium (Sr)	1 ppm
Copper (Cu)	1 ppm	Titanium (Ti)	0.01 %
Lead (Pb)	5 ppm	Vanadium (V)	2 ppm
Magnesium (Mg)	0.01 %	Yttrium (Y)	2 ppm
Manganese (Mn)	1 ppm	Zinc (Zn)	1 ppm
Molybdenum (Mo)	2 ppm		

* Some additional lower limits were used for these elements, as given in the tables of part B of this report.

Zn) were analyzed by the partial-extraction method of ICP-AES, and 37 elements (Ag, Al, Au, Ba, Be, Ca, Cd, Ce, Co, Cr, Cu, Eu, Fe, Ga, Ho, K, La, Li, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Sc, Sr, Ta, Th, Ti, U, V, Y, Yb, and Zn) were analyzed by the hot-acid extraction method. The elements analyzed and lower limits of determination are given in table 2. In addition to the methods noted above and the elements listed in table 2, the soil samples from the Smoke Tree Wash traverse (table 6) were also analyzed by XRAL for Hg by cold vapor-atomic absorption spectrophotometry (CV-AA) by a method similar to that described by O'Leary and others (1990).

The results for all elements analyzed by the two laboratories are listed in tables 3-6 of Part A and are included as digital files in Part B of this report. Elements with no reported values have been omitted from tables 3-6 in part A of the report. As a result, of the original 48 elements determined by ACTLABS, one determined by INAA (Ir), was deleted from the rock data set (table 3), and two elements determined by INAA (Ir and Hg) were deleted from the stream-sediment data set (table 4). Tin (Sn) by INAA, with a single value (200 ppm in sample EM018), was also omitted from the stream sediment data set. Of the original 46 elements determined by XRAL, one determined by the partial extraction method of ICP-AES (Ag), and four determined by the hot-acid extraction method of ICP-AES (Cd, Ho, Mo, and U), were deleted from the stream-sediment and soil data set presented in table 5. Two elements determined by the partial-extraction method of ICP-AES (Ag and Sb), and six determined by the hot acid extraction method of ICP-AES (Ag, Au, Cd, Ho, Mo, and U) in soil samples from the traverse that crosses Smoke Tree Wash were omitted from table 6. Analyses for the remaining elements for each sample type are listed in tables 3-6.

DESCRIPTION OF DATA TABLES FOR PART A

The analyses are listed in tables 3-6. Information on the column headings and sample numbers are given below.

Sample--For each sample in tables 3-6, the first two letters identify the original project for which the samples were collected: JT and CD samples were collected for the current project; EM, for the Eagle Mountains WSA; CX, for the Coxcomb Mountains WSA; SH, for the Sheep Hole Mountains WSA, and the rest for NURE samples. For the NURE samples, the first two letters ("SS", representing Salton Sea quadrangle) have been omitted from the sample numbers included in table 5. For the NURE sample ID's used in this report, the first two letters identify the 15' quadrangle from which the samples were collected (Heffner, 1980, p. 13). The three digits following letters give the site number. For most samples, the letters following the site numbers, if present, indicate the sample type as follows: "RK" for rock, "SS" or "SD" for stream sediment, and "SL" for soil.

In table 3, a sample ID with "RK" followed by an "A", "B", or "C" and with the sample number duplicated, indicates additional samples at the same site.

Samples from WSAs generally do not have letters identifying the sample type. The Eagle Mountains WSA samples included in table 4 lack the letter suffix; however, all samples are stream sediments. In table 5, some site numbers are followed by an "S", while most site numbers are not followed by any letters; however, all of the samples in that table are stream sediments.

Latitude and longitude--The next two columns give the latitude and longitude, in degrees, minutes, and seconds, for each sample.

Table 2. Lower limits of determination for inductively coupled plasma-atomic emission spectrometry (ICP-AES), methods used by XRAL

ICP-AES, partial-extraction method

Element	Lower limit	Element	Lower limit
Antimony (Sb)	1 ppm	Lead (Pb)	1 ppm
Arsenic (As)	1 ppm	Molybdenum (Mo)	0.1 ppm
Bismuth (Bi)	1 ppm	Silver (Ag)	0.08 ppm
Cadmium (Cd)	0.05 ppm	Zinc (Zn)	0.05 ppm
Copper (Cu)	0.05 ppm		

ICP-AES, hot acid extraction method

Element	Lower limit	Element	Lower limit
Aluminum (Al)	0.005 %	Molybdenum (Mo)	2 ppm
Barium (Ba)	1 ppm	Neodymium (Nd)	9 ppm
Beryllium (Be)	1 ppm	Nickel (Ni)	3 ppm
Cadmium (Cd)	2 ppm	Niobium (Nb)	4 ppm
Calcium (Ca)	0.005 %	Phosphorus (P)	0.005 %
Cerium (Ce)	5 ppm	Potassium (K)	0.01 %
Chromium (Cr)	2 ppm	Scandium (Sc)	2 ppm
Cobalt (Co)	2 ppm	Silver (Ag)	2 ppm
Copper (Cu)	2 ppm	Sodium (Na)	0.005 %
Europium (Eu)	2 ppm	Strontium (Sr)	2 ppm
Gallium (Ga)	4 ppm	Tantalum (Ta)	40 ppm
Gold (Au)	8 ppm	Thorium (Th)	6 ppm
Holmium (Ho)	4 ppm	Titanium (Ti)	0.005 %
Iron (Fe)	0.02 %	Uranium (U)	100 ppm
Lanthanum (La)	2 ppm	Vanadium (V)	2 ppm
Lead (Pb)	4 ppm	Ytterbium (Yb)	1 ppm
Lithium (Li)	2 ppm	Yttrium (Y)	2 ppm
Magnesium (Mg)	0.005 %	Zinc (Zn)	2 ppm
Manganese (Mn)	4 ppm		

AG PPM, or AL PCT, through ZN PPM--These columns of analyses list the element symbol, whether the concentrations are in parts per million (PPM), parts per billion (PPB), or percent (PCT), and the analytical method. An "INAA" below the element symbol indicates instrumental neutron activation analysis; an "ICP" below the element symbol indicates inductively coupled plasma-atomic emission spectrometry (ICP-AES), with total digestion (tables 3 and 4, ACTLABS analyses); an "ICP-P" indicates a partial-extraction method of ICP-AES was used; an "ICP-T" indicates a hot-acid extraction method of ICP-AES was used; and CV-AA indicates cold vapor atomic absorption spectrophotometry.

Rock descriptions--The rock descriptions given in table 3 are field terms based on identification with a hand lens. The list also includes locality comments, where appropriate.

OTHER INFORMATION

More than one lower limit of determination was reported for some of the elements analyzed by ACTLABS. The elements with more than one lower limit are Ag, by ICP-AES, and As, Au, Br, Sb, Se, Sn, Ta, and W, by INAA. The "wk1" files in part B of this report show the correct lower limits for each censored value. Although the lower limit of determination is not shown for each qualified analysis in the tables of analyses in this part of the report, most lower limits for these elements are as shown in tables 1 and 2. These differences in lower limits possibly resulted from the use of a smaller than standard sample aliquot for a given analysis because of insufficient available sample material, or from matrix differences.

Because of the formatting in the computer programs used to produce the data in the "dbf" and "wk1" files on the diskette, the elements listed in the tables may carry one or more nonsignificant zeros to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros shown. In general, the elements shown in percentage, are correct to two decimal places (P is correct to three places). For other elements, values to the left of the decimal point generally do not contain more than two or three significant digits.

Sample numbers have been modified for the sample location maps (figures 2-4). All letter suffixes have been removed. For samples of the Eagle Mountains WSA (figure 4), the second letter ("M") of the prefix has also been removed.

ACKNOWLEDGEMENTS

Help provided by Joshua Tree National Park personnel, Oasis Visitor Center, Twentynine Palms, California, is appreciated. We thank Chris Murphy, USGS, for assistance in locating archived WSA samples.

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Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity

[PPM, parts per million; PPB, parts per billion; PCT, percent; ICP, inductively coupled plasma-atomic emission spectrometry (ICP-AES); INAA, instrumental neutron activation analysis; N, not detected, or less than the lower limit of determination; >, determined to be greater than the value shown]

Sample	LATITUDE	LONGITUDE	AG PPM ICP	AL PCT ICP	AS PPM INAA	AU PPB INAA	BA PPM INAA	BE PPM ICP	BI PPM ICP	BR PPM INAA
JT001RK	34 4 20	116 2 4	N	6.49	N	N	690	N	N	N
JT002RK	34 3 10	116 2 35	N	7.7	N	6	1,100	N	N	N
JT005RK	34 1 27	116 1 10	N	6.14	N	N	470	N	N	N
JT006RK	34 1 28	116 1 5	N	8.04	1.1	N	2,200	N	N	N
JT007RKA	34 1 15	116 2 38	N	6.82	N	N	N	N	5	N
JT007RKB	34 1 15	116 2 38	3.7	5.34	4.9	33,200	640	N	46	N
JT008RK	34 1 14	116 2 31	N	8.24	N	N	840	N	N	N
JT009RK	34 1 32	116 7 39	N	7.33	1.5	6	550	N	N	N
JT014RK	34 4 50	116 0 28	N	8.57	N	19	220	N	N	N
JT015RK	34 4 14	116 0 7	N	5.85	N	11	470	N	N	N
JT016RK	34 4 20	115 58 42	N	5.73	N	N	230	N	N	N
JT019RK	33 56 31	115 58 27	N	5.62	1.6	16	640	25	N	N
JT022RK	33 55 45	115 57 26	N	5.71	.8	N	130	N	N	N
JT024RK	33 56 0	115 56 4	N	6.1	4	16	250	N	N	N
JT025RK	33 52 22	115 54 38	N	7.26	N	N	690	N	N	N
JT030RK	33 52 59	115 50 8	N	5.67	1.3	2	N	N	N	N
JT032RK	33 50 4	115 45 16	N	7.37	N	2	760	N	N	N
JT035RK	33 58 45	115 40 14	N	7.26	2.2	N	1,100	N	N	N
JT039RK	34 6 50	115 31 32	N	7.98	N	N	1,500	N	N	N
JT044RK	34 5 9	115 38 50	N	7.07	4.6	N	1,000	N	N	N
JT045RK	34 4 35	115 39 24	N	.64	5.6	N	N	N	16	N
JT050RK	33 56 17	115 17 26	N	7.5	1.8	N	1,100	N	N	N
JT051RK	33 55 29	115 18 7	N	7.91	N	5	1,300	N	N	N
JT055RK	33 55 59	115 24 38	N	7.56	1.6	N	490	N	N	N
JT057RK	33 53 8	115 20 26	N	8.04	N	N	1,200	N	N	N
JT064RKA	33 55 27	116 3 14	N	.82	1.3	76	68	N	6	N
JT064RKB	33 55 27	116 3 14	N	5.14	N	N	1,000	N	7	N
JT065RK	33 54 2	116 5 9	N	6.85	N	N	200	5	N	N
JT069RK	33 57 50	116 10 14	N	8.17	N	2	810	N	N	N
JT073RK	34 2 44	116 15 53	N	7.81	N	N	640	N	N	N
JT076RK	34 2 53	116 14 39	N	7.48	N	8	360	4	N	N
JT077RK	34 2 22	116 13 45	N	5.2	N	N	490	N	N	N
JT078RKA	34 1 50	115 59 27	1.3	2.28	.7	213	270	N	N	N
JT078RKB	34 1 50	115 59 27	N	6.16	N	N	710	N	N	N
JT078RKC	34 1 50	115 59 27	1.1	4.3	3.9	1,730	490	N	N	N
JT079RK	34 1 41	115 59 12	18.6	.94	41	11,800	110	N	7	N
JT080RK	34 1 57	115 58 54	8.6	3.7	15	811	230	N	7	N
JT082RKA	33 42 3	115 57 47	N	7.77	N	N	670	2	N	N
JT082RKB	33 42 3	115 57 47	N	7.64	N	N	830	N	N	N
JT089RK	33 43 41	115 49 23	N	7.5	N	7	1,100	4	N	N
JT090RK	33 43 45	115 49 15	N	5.45	1.8	N	370	N	N	N
JT091RK	33 42 6	115 48 0	N	6.43	N	5	820	N	N	N
JT092RK	33 41 3	115 43 27	N	5.59	N	N	180	4	N	N
JT094RK	33 41 20	115 41 45	N	6.44	1.7	3	1,400	N	N	N
JT097RK	33 42 6	115 40 30	N	7.38	.7	N	420	4	N	N
JT098RK	33 42 45	115 39 36	N	5.24	N	6	1,200	4	7	N
JT100RK	33 59 34	115 49 5	N	.43	2.3	42	330	N	N	N
JT102RKA	33 59 27	115 41 43	N	.53	36	17	240	3	17	N
JT102RKB	33 59 27	115 41 43	N	6.58	1.8	69	1,500	N	9	N
JT103RK	33 59 16	115 41 36	N	7.39	2.8	7	1,200	N	N	1.8
JT105RK	34 1 23	115 40 33	5.5	2.72	42	8,930	35,000	N	22	N
JT106RK	33 50 15	115 44 36	N	8.8	1.3	N	1,100	N	N	N
JT108RK	33 51 29	115 38 34	N	.2	N	N	N	N	N	N
JT109RK	33 51 55	115 37 36	N	6.54	1.6	N	490	N	N	N
JT110RKA	33 51 23	115 36 2	N	7.7	N	N	930	N	7	N
JT110RKB	33 51 23	115 36 2	.6	9.06	N	57	770	2	N	N
JT112RK	33 51 24	115 37 33	N	.92	6.2	4	N	N	16	N
JT117RK	33 54 46	115 37 0	N	8.38	17	N	770	2	N	N
JT118RK	33 53 42	115 37 1	N	9.09	3.3	N	790	N	N	N
JT119RK	33 52 23	115 40 33	N	8.82	N	15	100	N	N	N

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	CA PCT ICP	CD PPM ICP	CE PPM INAA	CO PPM INAA	CR PPM INAA	CS PPM INAA	CU PPM ICP	EU PPM INAA	FE PCT INAA
JT001RK	.94	N	47	2	7	N	7	1.3	1.26
JT002RK	1.61	N	57	7	8	N	20	2	2.43
JT005RK	.41	N	64	N	6	N	3	.8	.28
JT006RK	.61	N	71	11	64	N	47	1.9	3.75
JT007RKA	.51	N	19	N	7	N	2	N	.35
JT007RKB	.16	N	120	5	N	N	325	.9	5.91
JT008RK	.83	N	32	4	8	N	4	1.4	1.83
JT009RK	.9	N	32	2	8	N	2	1	1.06
JT014RK	5.73	N	21	50	120	N	64	1.1	8.09
JT015RK	2.1	N	140	8	11	N	11	1.7	2.2
JT016RK	.43	N	120	N	15	1	2	.5	.96
JT019RK	.05	N	180	3	11	N	6	.9	2.95
JT022RK	.36	N	60	4	6	N	3	1.4	2.86
JT024RK	2.61	N	110	2	15	N	12	2.4	2.13
JT025RK	.43	N	100	13	86	N	25	1.7	4.28
JT030RK	.37	N	67	5	9	N	15	.8	1.81
JT032RK	2.23	N	56	7	12	2	13	1.1	2.15
JT035RK	3.31	N	73	17	30	N	76	1.5	4.63
JT039RK	2.09	N	39	N	N	N	4	.6	1.03
JT044RK	.51	N	96	9	N	N	16	1.3	4.17
JT045RK	8.12	N	57	12	9	N	N	.6	35.2
JT050RK	.94	N	54	12	36	7	27	1.3	3.7
JT051RK	2.52	N	48	5	6	N	12	1.1	1.94
JT055RK	7.05	N	84	31	210	N	50	2.9	6.92
JT057RK	2.42	N	48	4	8	N	12	.9	1.77
JT064RKA	.33	N	9	8	18	N	25	N	1.86
JT064RKB	3.17	N	45	46	87	3	13	1.7	15
JT065RK	1.71	N	7	N	N	N	18	.5	.57
JT069RK	.96	N	92	11	72	N	10	1.5	4.27
JT073RK	2.19	N	58	3	8	N	142	1	1.6
JT076RK	1.58	N	5	N	10	N	4	.4	.54
JT077RK	1.55	N	110	6	18	N	2	1.9	2.41
JT078RKA	2.13	N	72	2	14	N	2	.5	1.01
JT078RKB	1.28	N	120	2	9	N	13	.9	1.13
JT078RKC	.09	N	110	2	28	2	12	.7	1.51
JT079RK	1.4	68.3	7	4	20	N	592	.4	5.31
JT080RK	4.25	6.1	56	8	41	N	6	1.7	3.86
JT082RKA	1.68	N	43	2	10	2	2	.8	1.01
JT082RKB	1.19	N	100	3	8	2	24	1.1	1.66
JT089RK	1.33	N	73	N	N	1	2	1.1	1.48
JT090RK	1.05	N	98	3	N	3	2	1.2	2.68
JT091RK	.83	N	190	2	7	N	4	1.4	1.48
JT092RK	.35	N	38	N	13	1	7	.4	.81
JT094RK	1.52	N	190	10	18	7	20	2.5	4.4
JT097RK	1.49	N	57	N	6	2	3	.5	.9
JT098RK	1.78	N	110	2	18	3	1	2.2	4.26
JT100RK	.04	N	28	1	19	N	16	.5	.77
JT102RKA	.23	N	100	490	27	N	14	.3	56.6
JT102RKB	.48	.9	62	27	25	N	9	1.2	4.72
JT103RK	2.93	N	80	15	23	2	64	1.5	4.32
JT105RK	1.68	N	36	12	16	1	2,033	.9	8.17
JT106RK	2.95	N	58	8	20	3	16	1	2.33
JT108RK	25.81	N	7	N	6	N	102	.2	.38
JT109RK	7.29	N	68	5	34	N	20	2.2	5.7
JT110RKA	2	N	57	8	14	1	145	1	1.79
JT110RKB	.66	N	61	28	16	N	>10,000	1.1	1.89
JT112RK	.11	N	N	25	20	N	411	N	38
JT117RK	.11	N	95	15	74	3	27	1.8	5.04
JT118RK	.26	N	110	15	65	3	55	2	5.69
JT119RK	5.27	N	120	6	13	N	1	2.1	1.67

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	HF PPM INAA	HG PPM INAA	K PCT ICP	LA PPM INAA	LU PPM INAA	MG PCT ICP	MN PPM ICP	MO PPM ICP	NA PCT INAA	ND PPM INAA
JT001RK	5	N	2.87	29	.37	.23	370	N	2.46	15
JT002RK	10	N	2.16	33	.51	.49	476	N	2.71	21
JT005RK	6	N	3.82	41	.09	.06	33	N	1.9	26
JT006RK	6	N	2.52	49	.53	1.28	375	N	.75	26
JT007RKA	N	N	.56	8.2	.46	.11	97	N	5.2	8
JT007RKB	6	N	2.06	59	.44	.11	108	15	2.84	43
JT008RK	4	N	2.55	19	.34	.4	390	N	3.09	15
JT009RK	4	N	3.14	21	.15	.15	242	N	2.39	15
JT014RK	2	N	.65	10	.21	6.59	1,358	N	1.9	14
JT015RK	15	N	.69	74	.35	.79	217	N	2.46	63
JT016RK	7	N	3.43	68	1.1	.03	56	N	1.99	50
JT019RK	6	N	1.54	97	1.12	2.52	163	N	.05	69
JT022RK	6	N	.34	42	.47	2.12	385	N	2.08	20
JT024RK	10	N	.3	50	1.41	.29	382	N	3.49	40
JT025RK	8	N	1.81	64	.42	1.06	566	N	.92	43
JT030RK	12	N	.16	34	.84	1.59	185	N	3.29	26
JT032RK	4	N	2.38	34	.39	.76	448	N	2.42	19
JT035RK	5	N	1.38	44	.41	1.53	589	N	2.11	32
JT039RK	4	N	2.32	23	.09	.2	159	N	2.91	18
JT044RK	8	N	2.62	29	.68	.76	275	N	2.4	27
JT045RK	N	N	.08	40	.25	.27	835	N	.35	14
JT050RK	6	N	2.55	29	.43	1.19	687	N	1.06	27
JT051RK	4	N	1.87	28	.1	.62	270	N	3.06	20
JT055RK	7	N	1.38	45	.44	4.33	1,110	N	1.49	40
JT057RK	4	N	1.88	29	.09	.51	264	N	3.09	21
JT064RKA	N	N	.05	3	.09	.03	82	18	.34	N
JT064RKB	5	N	.81	19	.88	3.42	1,522	N	.73	26
JT065RK	2	N	1.4	3.8	.46	.07	112	N	3.27	N
JT069RK	10	N	2.5	52	.82	1.36	587	N	1.02	35
JT073RK	5	N	1.38	37	.24	.32	313	N	3.08	21
JT076RK	1	N	2.68	4.4	.11	.08	80	N	2.56	N
JT077RK	16	N	.88	61	.52	.47	284	N	1.87	47
JT078RKA	3	N	1.29	42	.24	.18	301	N	.52	33
JT078RKB	4	N	2.65	69	1.1	.17	190	N	2.19	44
JT078RKC	4	N	2.43	60	.61	.21	39	6	.54	46
JT079RK	N	N	.35	4.2	.09	.14	107	N	.02	N
JT080RK	4	N	1.63	30	.47	.33	530	N	.05	19
JT082RKA	2	N	2.88	23	.27	.29	195	N	2.47	14
JT082RKB	6	N	2.81	63	.37	.46	456	N	2.01	38
JT089RK	6	N	2.65	48	.5	.33	447	N	3.13	18
JT090RK	11	N	1.98	51	1.22	1.3	235	N	1.71	34
JT091RK	8	N	2.58	110	.61	.17	272	N	2.65	69
JT092RK	5	N	2.97	21	.99	.05	183	N	2.55	19
JT094RK	12	N	2.03	110	1.09	.56	682	4	1.94	78
JT097RK	4	N	2.8	40	.32	.07	433	N	2.38	8
JT098RK	11	N	1.8	56	1.6	.46	1,110	N	1.13	33
JT100RK	4	N	.09	17	.19	.01	36	N	.05	9
JT102RKA	N	N	.1	89	.22	.2	946	106	.05	15
JT102RKB	6	N	2.45	45	.33	1.15	358	N	1.52	20
JT103RK	6	N	1.92	47	.55	1.35	805	N	2.03	32
JT105RK	4	N	.56	21	.27	.61	188	N	.93	6
JT106RK	4	N	2.37	35	.27	.93	453	N	2.37	19
JT108RK	N	N	.04	3.6	N	15.8	182	N	.03	N
JT109RK	5	N	1.12	41	.5	.52	687	N	.87	26
JT110RKA	4	N	2.88	36	.14	.65	272	N	2.61	17
JT110RKB	4	N	2.57	38	.1	.59	242	N	2.25	22
JT112RK	N	N	.15	1.8	.11	5.43	240	N	.03	N
JT117RK	10	N	2.18	51	.43	.65	438	N	.45	44
JT118RK	9	N	2.86	49	.81	.68	1,054	N	.15	45
JT119RK	10	N	.24	59	.69	1.39	286	N	4.71	53

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	NI PPM ICP	P PCT ICP	PB PPM ICP	RB PPM INAA	SB PPM INAA	SC PPM INAA	SE PPM INAA	SM PPM INAA	SN PPM INAA	SR PPM ICP
JT001RK	1	.051	20	93	N	3.1	N	3.6	N	155
JT002RK	3	.106	22	82	N	6.6	N	5.2	N	301
JT005RK	N	.006	10	110	N	.3	N	3.9	N	56
JT006RK	33	.027	24	120	.2	12	N	4.2	N	458
JT007RKA	N	.041	7	N	.2	1.6	N	2	N	91
JT007RKB	N	.017	173	81	N	3.5	N	7.2	N	93
JT008RK	2	.082	19	120	N	4.6	N	2.9	N	265
JT009RK	2	.021	17	66	N	1.4	N	1.7	N	168
JT014RK	134	.104	6	N	.2	14	N	2.5	N	596
JT015RK	12	.059	8	44	N	6	N	12	N	141
JT016RK	N	.003	15	200	N	.9	N	10	N	31
JT019RK	2	.023	6	98	.2	3.6	N	15	N	10
JT022RK	3	.023	8	N	.4	6.6	N	3.3	N	41
JT024RK	8	.04	34	N	.6	13	N	12	N	422
JT025RK	32	.021	12	110	N	9.5	N	6.7	N	101
JT030RK	7	.012	7	N	.4	7.2	N	5.7	N	52
JT032RK	5	.06	25	140	N	6	N	4.3	N	339
JT035RK	19	.142	17	93	.3	14	N	5.5	N	396
JT039RK	N	.032	20	76	N	1.5	N	1.8	N	747
JT044RK	3	.1	11	180	.5	8.3	N	5.3	N	91
JT045RK	50	.375	5	N	.4	1.1	N	2.5	N	86
JT050RK	17	.029	30	120	.4	12	N	4.7	N	134
JT051RK	3	.087	15	78	N	3.3	N	3.5	N	756
JT055RK	85	.315	N	N	N	24	N	7.4	N	653
JT057RK	3	.077	18	81	N	2.8	N	3.2	N	747
JT064RKA	3	.016	16	N	.1	.8	N	.4	N	20
JT064RKB	45	.323	N	180	N	42	N	7	N	98
JT065RK	N	.006	29	32	N	1.7	N	.8	N	228
JT069RK	30	.04	16	130	.3	15	N	6.6	N	97
JT073RK	2	.042	20	88	N	3	N	3.4	N	575
JT076RK	2	.01	30	100	N	1.1	N	.6	N	214
JT077RK	8	.025	22	N	N	4.8	N	8.5	N	158
JT078RKA	3	.01	13	70	.3	1.4	N	4.8	N	47
JT078RKB	2	.024	47	220	.4	4	N	7.9	N	122
JT078RKC	6	.018	23	130	.4	4.4	N	8.3	N	90
JT079RK	3	.011	4,857	27	1.3	1.9	N	.7	N	16
JT080RK	18	.078	50	100	1.2	8.7	N	4.9	N	22
JT082RKA	4	.062	34	120	N	3	N	3.1	N	221
JT082RKB	4	.078	36	200	N	5	N	7.6	N	162
JT089RK	1	.043	23	95	N	3.9	N	3.9	N	311
JT090RK	1	.025	19	140	.1	8.5	4	8.7	N	76
JT091RK	1	.025	21	130	N	4.4	N	11	N	85
JT092RK	1	.007	21	260	N	4.2	N	5.7	N	19
JT094RK	6	.137	36	240	.3	12	N	14	N	158
JT097RK	2	.021	30	150	.1	2.5	N	2.2	N	227
JT098RK	N	.051	13	160	N	16	N	9.9	N	128
JT100RK	2	.01	8	N	1.8	1	N	1.8	N	28
JT102RKA	70	.146	401	N	2.7	12	N	1.7	N	62
JT102RKB	17	.106	47	120	.5	9.9	N	4.2	N	128
JT103RK	13	.11	16	120	.5	14	N	6.3	N	388
JT105RK	24	.2	71	28	3.1	8.7	N	2.7	N	245
JT106RK	6	.069	27	130	N	5.6	N	3.5	N	446
JT108RK	3	.005	N	N	N	.8	N	.6	N	62
JT109RK	6	.103	9	41	.5	12	N	5.2	N	864
JT110RKA	8	.058	16	130	N	3.5	N	3.6	N	512
JT110RKB	8	.05	15	190	.5	3.3	N	3.8	N	349
JT112RK	4	.006	N	N	.5	1.9	N	.5	N	8
JT117RK	23	.022	22	150	.6	14	N	7.2	N	60
JT118RK	20	.029	9	160	.6	14	N	7.3	N	30
JT119RK	8	.136	7	N	.3	18	N	9.3	N	606

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	TA PPM INAA	TB PPM INAA	TH PPM INAA	TI PCT ICP	U PPM INAA	V PPM ICP	W PPM INAA	Y PPM ICP	YB PPM INAA	ZN PPM ICP
JT001RK	N	N	9.2	.18	2	20	N	27	2.5	31
JT002RK	1.4	.8	12	.38	2.8	53	N	35	3.4	45
JT005RK	N	N	26	.03	1.2	N	N	6	.5	6
JT006RK	1.3	1	9.2	.45	1.7	94	N	5	3.5	108
JT007RKA	N	N	3.2	.02	1.5	5	N	7	3.1	8
JT007RKB	1.3	.6	21	.09	12	37	16	6	3.1	12
JT008RK	N	N	4.5	.25	1.7	32	N	26	2.3	43
JT009RK	N	N	5.6	.14	N	16	N	10	1	24
JT014RK	N	N	1.2	.78	N	167	N	16	1.3	89
JT015RK	1.1	1.4	39	.3	3	35	N	39	2.2	15
JT016RK	N	2.2	37	.06	3.7	4	N	88	8	10
JT019RK	1.6	2.8	43	.06	7.3	8	N	47	7.8	47
JT022RK	N	N	6.6	.08	1.7	15	N	27	2.8	106
JT024RK	1.2	2.4	14	.21	N	43	N	107	10.4	33
JT025RK	N	N	21	.44	1.6	112	N	24	2.8	110
JT030RK	N	1.4	23	.05	3.4	31	N	8	5.6	55
JT032RK	1.6	1.2	9.6	.23	.8	54	N	33	2.8	61
JT035RK	N	.8	11	.45	2.5	145	N	35	2.8	44
JT039RK	N	N	5.7	.11	.9	12	N	4	.6	42
JT044RK	N	1.2	18	.36	2.9	80	N	45	4.3	18
JT045RK	N	N	7.9	.11	2.8	1,219	N	12	1.4	37
JT050RK	N	N	11	.39	1.8	95	2	18	3	100
JT051RK	N	N	3.9	.34	N	52	N	11	.6	72
JT055RK	4.6	1.1	6.5	1.48	2.1	256	N	39	2.6	84
JT057RK	N	N	4.2	.3	N	46	N	10	.7	70
JT064RKA	N	N	.7	.02	1.2	21	N	7	.4	7
JT064RKB	2.3	1	1.2	1.6	N	280	N	42	5.5	96
JT065RK	2.7	N	3.7	.04	3.6	8	N	6	2.9	9
JT069RK	N	1.2	18	.41	2.2	115	N	9	5.7	134
JT073RK	N	N	14	.17	1.5	22	N	11	1.4	57
JT076RK	N	N	6.6	.03	1	11	N	8	.6	15
JT077RK	N	N	28	.28	3.1	28	N	9	2.9	46
JT078RKA	N	.7	32	.04	4.9	12	2	18	1.5	21
JT078RKB	1.6	1.4	25	.07	4.4	12	N	60	7.5	20
JT078RKC	1	1.4	24	.09	6.5	39	7	11	4.2	23
JT079RK	N	N	1.5	.02	4.1	500	4	5	.7	1,166
JT080RK	N	1	7.6	.22	4.1	116	9	28	3.2	59
JT082RKA	N	N	10	.12	3	21	N	24	1.8	26
JT082RKB	1.7	1.1	25	.21	2.4	37	N	35	2.2	53
JT089RK	N	N	24	.16	2	16	N	28	3.1	44
JT090RK	2.5	1.5	23	.19	3.4	10	N	36	8.1	95
JT091RK	N	1.1	24	.14	2.6	10	N	46	4	46
JT092RK	3	1.2	31	.05	23	5	N	46	6.6	32
JT094RK	2.6	2	43	.41	4.8	49	5	66	8.6	107
JT097RK	2.9	N	38	.04	3.6	11	N	7	2	10
JT098RK	N	2.2	22	.34	3.2	11	3	97	10.3	81
JT100RK	N	N	5.5	.03	N	8	N	3	1.2	2
JT102RKA	N	N	3.9	.02	11	270	110	3	N	199
JT102RKB	N	N	11	.27	2.6	118	6	20	2.2	131
JT103RK	N	.9	15	.43	4.1	118	N	39	3.4	64
JT105RK	N	N	5.6	.12	7.3	565	N	14	1.5	44
JT106RK	N	N	14	.29	2.4	68	N	26	1.5	79
JT108RK	N	N	.7	.02	.6	4	N	5	.3	N
JT109RK	1.6	.9	9.5	.4	2.5	110	N	31	3.2	8
JT110RKA	N	N	12	.21	N	48	N	13	.7	46
JT110RKB	N	N	12	.12	4.9	58	4	11	.8	26
JT112RK	N	N	.8	.04	4.7	56	23	N	.6	21
JT117RK	2.1	1.1	16	.28	3.6	117	N	11	2.7	100
JT118RK	2.3	1.1	21	.38	4.5	91	N	33	5.1	97
JT119RK	N	1.3	19	.52	5.3	117	N	46	4.8	18

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	LATITUDE	LONGITUDE	AG PPM ICP	AL PCT ICP	AS PPM INAA	AU PPB INAA	BA PPM INAA	BE PPM ICP	BI PPM ICP	BR PPM INAA
JT126RK	33 46 41	115 53 56	N	7.15	1.4	5	680	N	5	N
JT128RK	33 46 45	115 55 54	N	7.99	N	N	270	N	N	N
JT129RK	33 46 57	115 56 57	N	6.61	N	14	570	N	7	N
JT131RK	33 46 9	115 59 0	.9	.34	9.4	9,300	180	N	264	N
JT132RK	33 46 12	115 58 59	N	6.55	N	2	550	N	N	N
JT133RK	33 45 50	115 58 54	N	7.65	N	N	1,000	5	9	N
JT134RK	33 47 27	115 47 20	N	6.66	N	N	920	N	N	N
JT140RK	33 57 40	115 41 32	5.3	5.61	7.4	376	550	N	N	N
JT141RK	33 58 19	115 41 32	N	7.48	2.2	15	980	N	N	N
JT142RK	33 50 31	115 46 54	N	7.66	N	N	970	N	N	N
JT144RK	34 7 9	116 8 9	N	5.96	N	N	1,200	N	N	N
JT146RK	34 7 6	116 10 32	N	7.12	.6	N	660	2	N	N
JT149RK	34 4 36	116 16 27	N	8.48	N	N	1,600	N	N	N
JT151RK	34 4 31	116 22 6	N	6.62	N	N	1,300	N	N	N
JT152RK	34 4 8	116 23 9	N	6.33	N	5	1,100	N	N	N
JT153RK	33 58 19	116 26 35	N	7.97	N	41	650	N	6	N
JT155RK	33 55 59	116 23 12	N	7.39	N	3	1,300	N	6	N
JT156RK	33 55 17	116 20 17	N	7.19	N	N	1,400	N	N	N
JT159RK	33 52 54	116 14 27	N	7.41	N	14	1,300	N	7	N
JT161RK	33 51 37	116 11 57	N	6.71	N	44	1,200	N	N	N
JT162RK	33 50 8	116 7 41	N	8.5	1.3	8	1,100	N	N	N
JT164RK	33 46 5	116 5 56	N	10.44	N	5	1,100	N	N	N
JT165RK	33 46 4	116 4 27	N	8.46	N	N	760	N	8	N
JT166RK	33 46 10	116 3 30	N	9.02	2.3	8	1,300	N	N	N
JT168RK	33 42 20	116 0 29	N	8.73	N	4	1,200	N	N	N
JT170RK	33 42 49	115 32 56	N	7.02	N	3	1,400	N	N	N
JT172RK	33 42 51	115 35 49	N	7.23	.9	N	540	3	N	N
JT173RK	33 42 55	115 30 55	N	7.46	N	N	640	N	N	N
JT175RK	33 45 26	115 28 52	N	6.08	N	N	1,100	N	N	N
JT176RK	33 47 2	115 32 48	.5	8.11	N	2	N	N	N	N
JT180RK	33 49 14	115 29 50	N	6.16	1.1	5	680	N	N	N
JT183RK	34 4 6	116 28 47	N	6.7	.7	9	1,000	N	N	N
JT301RK	34 3 52	116 1 40	2.4	5.64	1.9	293	720	N	N	N
JT302RK	34 1 24	116 4 13	3.7	4.02	1.4	358	400	N	N	N
JT303RK	34 2 43	116 4 6	6.9	.93	2.3	929	150	N	29	N
JT304RK	34 1 55	116 4 33	N	6.08	1	N	230	N	N	N
JT305RK	34 0 40	116 3 54	N	4.14	3	402	290	N	N	N
JT307RK	33 55 16	116 2 2	N	6.46	N	N	1,200	N	N	N
JT308RKA	33 55 25	116 2 49	71.2	.07	2.8	97,800	120	N	18	4.8
JT308RKB	33 55 25	116 2 49	N	9.92	2.5	37	220	N	N	N
JT309RK	33 56 18	115 53 58	N	5.88	2	N	1,200	2	N	2.2
JT310RK	33 48 16	115 48 44	N	6.29	N	N	630	N	N	N
JT312RK	33 56 8	115 43 54	N	7.39	3.9	55	890	N	N	N
JT315RK	33 56 8	115 57 3	3.4	1.29	15	3,120	220	N	11	N
JT316RKA	34 2 11	116 8 0	9.9	2.96	32	3,900	230	N	158	N
JT316RKB	34 2 11	116 8 0	N	6.58	.9	10	460	3	N	N
JT319RK	34 0 0	115 25 31	N	7.47	N	3	860	N	N	N
JT320RK	33 59 31	115 24 36	N	5.76	1.7	N	970	N	N	1.6
JT322RK	34 7 13	116 15 51	N	6.63	N	N	920	N	N	2
JT323RK	34 5 46	116 9 56	N	7.08	N	N	640	N	N	N
JT324RK	33 55 42	116 11 4	N	6.88	N	N	290	2	N	1.5
JT325RK	33 41 9	115 55 54	N	8.47	1	5	2,000	N	N	N
JT326RK	33 40 39	115 54 8	N	6.34	N	7	620	N	N	N
JT327RK	33 41 14	115 50 40	N	7.71	N	N	710	N	N	N
JT328RK	33 42 54	115 48 24	N	8.08	N	N	920	N	N	1.4
JT329RK	33 49 40	115 45 40	N	7.99	N	N	880	N	N	1.5
JT347RKA	34 0 10	116 7 24	N	9.82	.8	N	1,700	N	N	3.5
JT347RKB	34 0 10	116 7 24	N	3.21	N	N	280	N	N	1
JT349RK	33 55 7	115 39 41	N	6.99	2.2	N	700	N	N	N
JT351RK	33 54 58	115 38 12	N	.53	.9	N	100	N	N	1.2

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	CA PCT ICP	CD PPM ICP	CE PPM INAA	CO PPM INAA	CR PPM INAA	CS PPM INAA	CU PPM ICP	EU PPM INAA	FE PCT INAA
JT126RK	.81	N	96	11	69	1	8	1.5	3.78
JT128RK	7.01	N	31	38	190	N	78	1.5	7.97
JT129RK	.97	N	70	10	62	N	6	1.4	3.11
JT131RK	.07	N	14	38	27	N	206	.3	11.1
JT132RK	2.09	N	73	6	16	2	27	1.9	2.14
JT133RK	.98	N	65	1	N	2	N	1	1.29
JT134RK	.82	N	140	1	6	N	42	1.4	1.45
JT140RK	1.34	1.3	78	11	24	2	778	1.5	4.8
JT141RK	3.13	N	85	14	32	1	70	1.4	4.11
JT142RK	2.48	N	53	8	16	N	8	1	2.42
JT144RK	.8	N	74	4	44	2	21	1.3	1.99
JT146RK	1.26	N	35	2	8	2	2	.7	.8
JT149RK	2.16	N	91	7	13	2	4	1.7	2.57
JT151RK	1.24	N	59	5	29	N	13	1.3	1.9
JT152RK	1.38	N	85	2	N	N	45	1.6	2.29
JT153RK	5.76	.8	30	26	160	N	43	1.4	5.15
JT155RK	1.25	N	41	1	8	N	2	.8	.68
JT156RK	2.28	N	110	6	35	N	12	1.7	1.86
JT159RK	2.29	N	120	10	31	N	33	2.3	3.8
JT161RK	1.67	N	220	12	34	1	45	2.3	3.72
JT162RK	3.2	N	110	13	21	N	43	1.9	4.32
JT164RK	4.65	N	59	12	23	N	4	1.4	3.55
JT165RK	4.31	N	61	15	32	N	28	1.4	4.52
JT166RK	3.66	N	69	10	24	N	21	1.5	3.43
JT168RK	2.6	N	72	6	N	1	6	1.2	2.17
JT170RK	1.78	N	35	2	210	1	1	.6	1.38
JT172RK	1.04	N	30	3	410	2	4	N	1.21
JT173RK	1.3	N	35	3	240	N	5	.6	1.16
JT175RK	.71	N	210	2	170	N	N	1.8	2.72
JT176RK	5.56	2.6	130	5	51	2	N	5.9	6.14
JT180RK	.63	N	99	3	300	2	3	.8	1.29
JT183RK	2.18	N	250	11	170	N	8	3.2	5.87
JT301RK	2.48	N	54	5	180	N	197	1.3	1.5
JT302RK	.06	N	75	4	320	N	216	.7	1.45
JT303RK	.02	N	11	1	560	N	76	N	1.62
JT304RK	.57	N	58	N	310	N	5	N	.9
JT305RK	.05	N	28	3	350	N	150	.3	3.43
JT307RK	1.56	N	96	N	400	1	33	1.9	1.72
JT308RKA	.07	N	N	4	460	N	594	N	1.33
JT308RKB	8.66	N	N	43	370	N	384	.4	5.28
JT309RK	1.64	N	160	5	180	3	4	2.7	4.36
JT310RK	.62	N	190	N	360	N	6	1.4	1.73
JT312RK	4.27	N	100	9	270	N	26	1.5	3.59
JT315RK	.16	1.6	48	44	450	N	376	.6	4.17
JT316RKA	.86	4.7	58	15	300	1	602	.6	4.59
JT316RKB	.81	N	49	N	370	2	N	.7	1.07
JT319RK	1.58	N	27	2	N	5	4	.5	.56
JT320RK	1.3	N	33	3	N	4	2	.6	1.02
JT322RK	1.13	N	39	N	N	1	3	.5	.51
JT323RK	1.16	N	54	2	N	3	2	.7	.78
JT324RK	.85	N	44	N	N	1	4	.4	.46
JT325RK	2.77	N	140	6	7	2	5	1.6	2.41
JT326RK	1.22	N	110	6	50	1	7	1	2.06
JT327RK	1.68	N	94	4	N	2	12	1	1.58
JT328RK	1.37	N	220	3	6	N	8	1.4	2.01
JT329RK	2.51	N	50	6	10	2	8	.8	1.96
JT347RKA	.71	.5	130	19	120	3	36	1.5	5.7
JT347RKB	.41	N	260	1	N	N	6	.4	.39
JT349RK	6.96	.9	120	44	190	2	27	3.3	8.3
JT351RK	.06	N	41	N	14	N	11	.3	.28

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	HF PPM INAA	HG PPM INAA	K PCT ICP	LA PPM INAA	LU PPM INAA	MG PCT ICP	MN PPM ICP	MO PPM ICP	NA PCT INAA	ND PPM INAA
JT126RK	7	N	1.76	56	.42	1.15	400	N	1.13	37
JT128RK	4	N	.77	17	.25	4.15	1,091	N	2.36	18
JT129RK	6	N	1.54	42	.53	.95	347	N	1.19	30
JT131RK	2	N	.11	9.1	.14	.06	82	6	.03	9
JT132RK	18	N	.71	55	.24	.57	200	N	2.63	23
JT133RK	5	N	2.88	44	.16	.31	313	N	2.77	22
JT134RK	8	N	2.49	69	.54	.17	258	6	2.68	42
JT140RK	6	N	1.72	58	.38	.85	359	15	1.4	28
JT141RK	6	N	1.65	47	.51	1.49	871	N	2.15	40
JT142RK	4	N	2.18	32	.28	.9	489	N	2.42	20
JT144RK	8	N	2.82	43	.84	.47	279	N	1.53	28
JT146RK	3	N	3.36	19	.32	.18	347	N	2.47	10
JT149RK	7	N	2.45	55	.47	.75	428	N	2	30
JT151RK	8	N	2.9	34	.35	.5	232	N	1.64	25
JT152RK	13	N	2.2	44	.4	.09	340	N	1.88	36
JT153RK	4	N	1.68	16	.22	4	839	N	1.96	17
JT155RK	3	N	3.68	27	.05	.1	70	N	1.95	16
JT156RK	8	N	2.46	66	.24	.76	307	N	2.05	37
JT159RK	9	N	2.01	68	.61	.92	614	N	2.19	41
JT161RK	10	N	1.95	130	.35	1.2	534	N	1.77	84
JT162RK	8	N	1.66	60	.3	1.36	559	N	3	36
JT164RK	5	N	1.99	35	.25	1.72	570	N	2.6	23
JT165RK	5	N	1.08	37	.26	1.84	672	N	2.56	24
JT166RK	6	N	2.18	41	.27	1.31	493	N	2.79	25
JT168RK	5	N	2.04	47	.17	.61	319	N	2.83	26
JT170RK	3	N	3.32	23	.23	.35	490	N	2.3	10
JT172RK	4	N	3.5	17	.62	.22	1,283	N	2.96	13
JT173RK	3	N	3.41	21	.45	.24	813	2	2.87	9
JT175RK	17	N	4.61	120	1.11	.07	426	3	2.32	77
JT176RK	34	N	.53	68	1.15	.31	1,608	N	4.41	64
JT180RK	5	N	3.76	55	.72	.11	360	N	1.18	30
JT183RK	18	N	2.32	130	.91	.78	832	N	2.8	86
JT301RK	6	N	3.23	32	.38	.4	448	N	2.35	20
JT302RK	5	N	2.5	43	.33	.16	223	15	.6	26
JT303RK	N	N	.55	7.3	N	.08	78	60	.04	N
JT304RK	2	N	4.37	31	.45	.06	183	3	2.29	20
JT305RK	2	N	2.92	14	.54	.11	221	14	.46	9
JT307RK	10	N	1.78	57	.89	.28	402	3	2.29	31
JT308RKA	N	N	.03	1.1	N	.14	125	8	.02	N
JT308RKB	N	N	.73	2.6	N	6.16	1,059	N	.95	N
JT309RK	13	N	2.09	89	1.82	.32	769	N	2.53	62
JT310RK	9	N	4.13	110	.63	.16	278	28	2.54	61
JT312RK	7	N	1.59	61	.55	.69	804	2	2.69	28
JT315RK	2	N	.33	26	.53	.5	486	7	.11	17
JT316RKA	4	12	1.53	34	.66	.35	448	144	.55	14
JT316RKB	3	N	3.52	28	.32	.15	526	7	2.86	13
JT319RK	3	N	3.07	15	.18	.11	223	N	2.88	6
JT320RK	4	N	2.34	21	.18	.1	146	N	3.38	8
JT322RK	3	N	3.47	25	.21	.09	166	N	2.35	12
JT323RK	4	N	3.75	33	.21	.15	446	N	2.67	17
JT324RK	3	N	3.96	26	.6	.06	212	N	2.77	13
JT325RK	8	N	2.02	92	.38	.72	488	N	3.19	45
JT326RK	12	N	1.95	72	.44	.66	267	N	1.35	44
JT327RK	5	N	2.98	64	.46	.39	228	N	2.61	25
JT328RK	11	N	4.21	120	.64	.38	387	2	2.72	74
JT329RK	4	N	3.21	32	.21	.76	439	N	2.35	20
JT347RKA	8	N	4.41	75	.66	1.48	835	3	.91	49
JT347RKB	N	N	2.13	120	.88	.03	62	N	1.03	120
JT349RK	10	N	.77	72	.55	3.91	1,155	2	2.3	52
JT351RK	6	N	.19	22	.1	.04	30	N	.02	13

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	NI PPM ICP	P PCT ICP	PB PPM ICP	RB PPM INAA	SB PPM INAA	SC PPM INAA	SE PPM INAA	SM PPM INAA	SN PPM INAA	SR PPM ICP
JT126RK	28	.026	15	73	N	12	N	6.3	N	122
JT128RK	71	.13	N	N	N	21	N	3.8	N	520
JT129RK	31	.023	26	78	N	11	N	4.8	N	126
JT131RK	94	.013	79	N	.5	1	N	1	N	16
JT132RK	8	.01	10	N	N	2.5	N	3	N	205
JT133RK	2	.034	27	190	N	2.2	N	3.9	N	328
JT134RK	1	.034	16	150	N	4.8	N	7.9	N	101
JT140RK	15	.85	355	72	2.1	10	N	5	N	302
JT141RK	17	.113	87	120	.4	13	4	6.1	N	392
JT142RK	6	.064	22	96	N	5.4	N	3.6	N	419
JT144RK	10	.032	33	180	N	6.3	N	6.1	N	120
JT146RK	N	.038	30	200	N	2	N	2.5	N	247
JT149RK	6	.098	19	100	.2	8	N	5.8	N	515
JT151RK	12	.019	31	110	N	6.1	N	4.1	N	250
JT152RK	1	.016	19	44	.1	4.6	N	6.7	N	226
JT153RK	108	.107	31	88	N	18	N	3.4	N	407
JT155RK	1	.02	36	140	N	.3	N	1.3	N	512
JT156RK	12	.075	20	63	N	5	N	7.7	N	382
JT159RK	13	.133	48	85	N	13	N	8.9	N	402
JT161RK	15	.045	28	130	N	11	N	15	N	279
JT162RK	9	.132	9	81	N	8.5	N	6.5	N	641
JT164RK	12	.108	18	43	N	8.4	N	4.5	N	811
JT165RK	12	.121	10	N	N	11	N	4.7	N	615
JT166RK	8	.091	19	140	N	7.3	N	5	N	645
JT168RK	3	.079	18	79	N	2.8	N	4.5	N	676
JT170RK	8	.036	15	140	N	2.4	N	2	N	529
JT172RK	7	.022	25	230	N	3.7	N	2.4	N	183
JT173RK	6	.025	20	180	N	2.8	N	2.5	N	299
JT175RK	8	.022	19	110	N	6.1	N	16	600	70
JT176RK	2	.15	30	N	.2	18	N	13	N	1,141
JT180RK	4	.011	39	230	N	2.9	N	6.1	N	75
JT183RK	8	.205	20	100	N	18	N	17	N	264
JT301RK	5	.034	25	79	N	4	N	4.3	N	159
JT302RK	8	.022	248	110	N	2.6	N	4.8	N	22
JT303RK	10	.01	174	22	.3	.9	N	.6	N	12
JT304RK	8	.021	31	230	N	2.5	N	4.5	N	53
JT305RK	7	.007	85	130	.2	2.1	N	2.7	N	20
JT307RK	8	.023	29	98	.2	6.7	N	6.9	N	170
JT308RKA	10	.003	2,217	N	.4	.3	N	N	N	9
JT308RKB	134	.029	10	34	N	28	N	.8	N	204
JT309RK	6	.048	22	N	.4	15	N	14	N	143
JT310RK	70	.026	27	130	N	4.6	N	11	N	79
JT312RK	9	.103	31	56	.6	11	N	6.2	N	779
JT315RK	32	.018	668	19	.7	2.4	N	4.1	N	23
JT316RKA	11	.028	7,409	86	3.9	5.3	N	4.7	N	47
JT316RKB	27	.013	35	230	.2	3.1	N	3.5	N	137
JT319RK	2	.021	32	130	.5	1.7	N	1.8	N	345
JT320RK	2	.016	19	120	.3	1.9	N	2	N	387
JT322RK	2	.016	28	180	N	1.3	N	2.1	N	273
JT323RK	2	.021	34	220	N	2.8	N	3.6	N	189
JT324RK	2	.019	40	220	N	3.9	N	3.6	N	95
JT325RK	4	.106	24	80	.3	5	N	6.8	N	630
JT326RK	17	.034	20	84	N	7	N	8.3	N	146
JT327RK	2	.037	35	140	.2	5.6	N	4.5	N	301
JT328RK	3	.059	22	100	N	7.1	N	11	N	143
JT329RK	5	.05	25	160	N	5.2	N	3.2	N	394
JT347RKA	49	.031	40	180	N	23	N	9	N	134
JT347RKB	2	.024	12	56	.1	1.2	N	26	N	32
JT349RK	123	.333	N	N	.4	25	N	11	N	1,009
JT351RK	2	.006	6	15	.3	1.8	N	2.6	N	6

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	TA PPM INAA	TB PPM INAA	TH PPM INAA	TI PCT ICP	U PPM INAA	V PPM ICP	W PPM INAA	Y PPM ICP	YB PPM INAA	ZN PPM ICP
JT126RK	N	N	16	.37	1.3	83	N	26	2.7	96
JT128RK	N	N	2	1.07	N	228	N	26	1.9	104
JT129RK	N	.9	12	.38	.7	85	N	33	3.4	99
JT131RK	N	N	2.6	.06	3	59	34	2	.7	16
JT132RK	N	N	4.8	.24	2.5	43	N	11	1.4	31
JT133RK	N	N	23	.11	2.2	23	N	12	.7	79
JT134RK	1.9	1.1	18	.15	3.2	11	N	41	4	50
JT140RK	N	N	11	.18	5.6	134	11	17	2.9	698
JT141RK	1.4	N	16	.44	2.1	132	N	42	3.3	116
JT142RK	2.4	N	11	.27	3	64	N	23	1.6	72
JT144RK	N	1.2	17	.2	2.9	35	N	33	5.8	64
JT146RK	N	N	12	.09	2.1	13	N	12	1.5	35
JT149RK	N	N	20	.36	1.6	71	N	44	3.1	86
JT151RK	N	N	8.6	.2	N	36	N	8	2.3	46
JT152RK	N	1.2	20	.25	2.7	14	N	35	2.5	44
JT153RK	N	N	3.3	.73	1.7	207	N	21	1.4	96
JT155RK	N	N	13	.05	N	16	N	3	.3	13
JT156RK	3.5	N	18	.25	N	46	N	19	1.4	43
JT159RK	N	1.4	20	.52	1.5	73	N	35	3.7	99
JT161RK	N	N	52	.43	3	75	N	30	2.3	92
JT162RK	N	.9	13	.53	3.6	106	N	22	1.9	101
JT164RK	1	.5	6.6	.6	N	126	N	28	1.5	117
JT165RK	N	N	6.3	.53	N	126	N	23	1.6	105
JT166RK	N	N	12	.45	3.3	85	N	22	1.6	103
JT168RK	N	N	12	.35	2	44	N	18	1.1	86
JT170RK	1.4	N	9.3	.11	2.3	24	N	10	1.4	24
JT172RK	3.2	N	20	.07	4.2	13	N	17	3.2	33
JT173RK	2.4	N	14	.08	3.7	17	N	21	2.8	37
JT175RK	N	2.3	14	.16	2.8	N	N	62	7	90
JT176RK	3.4	1.9	3.4	.48	1.5	11	6	38	6.4	428
JT180RK	2.3	.9	39	.05	3.6	3	N	9	4.1	14
JT183RK	3	2.1	19	.52	2	59	N	42	5.2	143
JT301RK	N	.6	12	.15	1.4	30	N	17	2.5	14
JT302RK	1.8	.9	12	.06	2.2	10	4	6	2.1	35
JT303RK	N	N	1.2	.02	.9	14	7	N	.3	17
JT304RK	N	N	32	.05	3	3	N	14	2.5	13
JT305RK	1.4	.6	14	.02	1.4	28	3	5	3.4	35
JT307RK	N	N	15	.08	3.8	6	N	23	5	45
JT308RKA	N	N	N	N	15	103	N	N	N	16
JT308RKB	N	N	N	.1	N	123	N	6	N	60
JT309RK	2.2	2.6	31	.24	6.4	14	N	82	11.3	144
JT310RK	N	1.1	24	.13	3.1	8	N	32	4.4	48
JT312RK	N	1	19	.27	6.2	91	N	24	3.5	47
JT315RK	N	.8	11	.09	4.9	41	4	18	3	113
JT316RKA	1.5	1.2	15	.12	7.8	234	9	14	4	260
JT316RKB	3.5	N	22	.08	3.8	8	N	10	2.2	25
JT319RK	1.8	N	6.1	.07	1.1	5	N	4	1.1	31
JT320RK	N	N	5	.06	2	6	N	4	1	22
JT322RK	N	N	16	.05	1.5	4	N	5	1.1	20
JT323RK	1.8	N	23	.09	2.1	9	N	7	1.3	34
JT324RK	2	.9	25	.04	3.7	7	N	10	3.1	15
JT325RK	N	1.1	15	.36	2	48	N	28	2.4	54
JT326RK	N	1.1	23	.29	3	43	N	16	2.5	58
JT327RK	N	.7	24	.2	2.6	26	N	23	2.6	45
JT328RK	1.2	1.4	18	.29	1.9	22	N	47	3.5	56
JT329RK	N	.6	13	.25	1.2	51	N	17	1.2	60
JT347RKA	N	1.5	24	.59	2.2	136	N	12	3.8	208
JT347RKB	N	3.1	58	.04	1.7	4	N	19	4.7	8
JT349RK	3.5	1.8	8.3	1.67	2.4	219	N	38	3.3	83
JT351RK	.5	N	8.9	.05	1.5	10	5	4	.6	42

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	LATITUDE	LONGITUDE	AG PPM ICP	AL PCT ICP	AS PPM INAA	AU PPB INAA	BA PPM INAA	BE PPM ICP	BI PPM ICP	BR PPM INAA
JT352RK	33 59 50	116 7 4	N	7.43	1	N	820	N	N	N
JT353RK	33 57 43	115 42 33	N	8.34	3	N	550	2	N	N
JT354RK	33 58 3	115 43 9	N	8.27	1.9	N	1,100	N	N	N
JT357RK	33 56 40	115 52 32	N	6.32	N	3	1,800	N	N	N
JT358RK	33 57 0	115 51 22	N	6.27	1.1	N	450	N	N	N
JT360RK	33 56 58	115 49 48	N	7.39	N	3	810	N	N	2
JT362RK	34 7 10	116 5 49	N	6.6	5.4	N	720	N	N	N
JT363RK	34 5 56	116 2 37	N	8.64	N	N	1,100	N	N	N
JT364RK	33 58 51	116 8 54	N	7.2	1.3	7	620	N	N	2
JT365RK	33 42 25	115 37 24	N	1.41	7.7	N	130	N	N	1.3
JT366RK	33 44 29	115 29 5	N	6.42	N	N	670	N	N	N
JT367RK	33 49 52	116 2 46	N	6.31	N	N	720	N	N	N
JT370RK	34 0 28	115 38 47	N	7.83	5.7	3	1,300	N	N	4.8
JT371RK	34 5 32	115 37 9	N	7.53	N	N	1,100	N	N	1.7
JT372RK	34 4 38	115 34 6	N	7.17	1.8	N	1,400	N	N	1.7
JT373RK	34 5 49	115 26 54	N	7.24	1	N	1,300	N	N	2.1
JT374RK	34 4 50	115 21 13	N	8.53	N	N	1,000	N	N	1.5
JT375RK	33 50 3	115 15 47	N	7.31	4.7	3	480	N	N	N
JT376RK	33 52 1	115 20 55	N	7.51	2.8	N	710	N	N	N
JT377RK	33 57 24	115 40 28	17.6	3.17	37	6,080	840	N	28	N
JT380RKA	34 0 11	115 36 9	N	3.42	14	10,800	580	2	N	N
JT380RKB	34 0 11	115 36 9	N	6.59	2.2	N	780	N	N	N
JT380RKC	34 0 11	115 36 9	N	7.11	3.4	1,550	810	N	N	N
JT383RK	33 54 52	115 35 32	N	8.2	1.7	N	960	2	N	1
JT384RK	33 55 40	115 27 17	N	9.49	6.1	N	1,100	N	N	N
JT397RK	33 46 35	115 24 14	N	5.82	N	N	190	6	N	N
JT399RK	33 48 54	115 25 4	N	8.96	2	N	270	N	N	2.2

Sample	CA PCT ICP	CD PPM ICP	CE PPM INAA	CO PPM INAA	CR PPM INAA	CS PPM INAA	CU PPM ICP	EU PPM INAA	FE PCT INAA
JT352RK	1.57	N	14	1	N	2	4	.9	.78
JT353RK	8.17	.9	110	33	140	2	54	2.6	6.46
JT354RK	3.42	N	91	16	18	1	29	1.5	4.21
JT357RK	1.18	N	110	3	N	N	7	1.7	1.68
JT358RK	1.45	N	150	4	N	1	3	1.8	2.14
JT360RK	1.24	N	33	2	N	N	3	.7	1.12
JT362RK	1.55	N	82	5	9	2	32	1.5	1.83
JT363RK	2.18	N	77	3	7	2	7	1.3	1.4
JT364RK	1.32	N	52	N	N	2	39	.7	.98
JT365RK	.06	N	55	3	7	N	7	.4	1.19
JT366RK	.96	N	85	3	N	1	2	.9	1.1
JT367RK	1.55	N	77	7	12	1	3	1.9	3.08
JT370RK	2.98	N	110	20	17	2	53	1.5	5.01
JT371RK	1.64	N	79	6	N	2	9	1.1	2.63
JT372RK	.76	N	48	4	N	N	7	.8	1.39
JT373RK	1.51	N	37	2	N	2	17	.6	.8
JT374RK	2.81	N	52	4	N	3	6	.8	1.73
JT375RK	1.32	N	43	10	33	4	49	1	2.53
JT376RK	2.28	N	51	7	23	3	5	1.2	1.75
JT377RK	1.18	.6	54	13	19	N	2,094	.7	4.79
JT380RKA	.5	1.1	100	160	9	N	>100,000	1	2.53
JT380RKB	1.45	N	110	3	11	N	13	1.3	2.89
JT380RKC	.85	N	200	7	8	N	980	1.6	3.59
JT383RK	3.11	N	94	13	13	N	32	1.6	4.61
JT384RK	5.65	.6	85	15	9	N	39	1.6	5.11
JT397RK	.42	N	21	N	N	3	4	N	.5
JT399RK	7.1	.6	100	12	110	N	5	2	3.7

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	HF PPM INAA	HG PPM INAA	K PCT ICP	LA PPM INAA	LU PPM INAA	MG PCT ICP	MN PPM ICP	MO PPM ICP	NA PCT INAA	ND PPM INAA
JT352RK	3	N	3.55	8.8	.3	.09	416	N	2.62	N
JT353RK	9	N	1.52	64	.48	3.1	1,129	2	2.16	41
JT354RK	6	N	2.99	54	.54	1.29	607	N	2.73	32
JT357RK	12	N	2.96	71	.44	.63	200	N	1.85	36
JT358RK	14	N	1.94	84	1.79	.55	414	N	2.66	56
JT360RK	4	N	2.9	22	.34	.17	330	N	3.76	13
JT362RK	6	N	2.96	55	.8	.4	400	N	2.41	27
JT363RK	5	N	3.52	49	.43	.26	585	N	3.61	24
JT364RK	4	N	3.38	33	.35	.22	469	N	2.8	19
JT365RK	6	N	.16	30	.24	.01	83	N	.06	19
JT366RK	6	N	3.89	53	.61	.18	354	N	2.72	28
JT367RK	16	N	2.37	47	.76	.43	131	N	2.37	35
JT370RK	6	N	3.99	69	.61	1.13	1,070	N	2.04	42
JT371RK	8	N	3.77	44	.67	.59	232	N	2.97	28
JT372RK	6	N	5.28	27	.39	.41	171	N	2.06	19
JT373RK	4	N	3.11	23	.14	.16	249	N	2.92	13
JT374RK	5	N	2.1	31	.14	.49	339	N	3.28	18
JT375RK	5	N	1.44	26	.32	.78	419	N	3.41	20
JT376RK	7	N	1.43	33	.41	.86	555	N	2.64	16
JT377RK	3	N	1.25	26	.33	.39	326	28	.7	15
JT380RKA	3	N	1.62	54	.7	.3	4,846	2	.63	38
JT380RKB	6	N	4.35	69	.46	.19	185	N	3.05	33
JT380RKC	7	N	4.15	140	.44	.36	248	N	1.37	57
JT383RK	8	N	2.85	58	.47	1.11	752	N	3.82	33
JT384RK	8	N	1.51	53	.39	1.41	962	N	3.02	29
JT397RK	4	N	3.21	4.9	1.77	.02	402	N	3.1	10
JT399RK	6	N	.29	55	.53	2.92	509	N	3.95	44

Sample	NI PPM ICP	P PCT ICP	PB PPM ICP	RB PPM INAA	SB PPM INAA	SC PPM INAA	SE PPM INAA	SM PPM INAA	SN PPM INAA	SR PPM ICP
JT352RK	2	.028	45	92	N	2.4	N	1.2	N	510
JT353RK	59	.349	6	43	N	25	N	8.5	N	1,125
JT354RK	12	.107	25	83	.4	14	N	6.4	N	414
JT357RK	2	.015	27	91	N	7	N	7.6	N	167
JT358RK	2	.034	26	81	.2	8.6	N	14	N	102
JT360RK	2	.027	19	46	N	3.8	N	2.7	N	539
JT362RK	5	.05	35	94	.3	5.8	N	5.7	N	834
JT363RK	2	.042	25	130	N	3.4	N	5.1	N	1,204
JT364RK	2	.024	36	200	N	3.5	N	3.7	N	205
JT365RK	3	.018	5	N	.5	2.1	N	3.5	N	20
JT366RK	2	.029	21	140	N	2.9	N	5.5	N	140
JT367RK	7	.053	9	73	N	11	N	8.5	N	89
JT370RK	14	.104	31	210	.4	14	N	8.3	N	342
JT371RK	3	.074	7	150	N	8.3	N	6.7	N	401
JT372RK	4	.024	19	130	.3	3.9	N	2.8	N	197
JT373RK	2	.026	31	130	.2	1.8	N	2.3	N	432
JT374RK	3	.08	16	85	.2	3.3	N	3.5	N	727
JT375RK	10	.057	13	82	1.8	10	N	3.6	N	226
JT376RK	5	.031	20	71	.3	6.3	N	4.2	N	302
JT377RK	16	.085	1,747	47	4	5.3	N	3.9	N	121
JT380RKA	19	.014	17	82	.7	6.5	N	N	N	100
JT380RKB	2	.047	8	120	.4	7.7	N	5.9	N	62
JT380RKC	5	.054	5	190	.9	8.7	N	9.2	N	50
JT383RK	7	.112	73	90	1.2	14	N	7.1	N	261
JT384RK	8	.157	17	45	1.4	15	N	5.3	N	675
JT397RK	2	.002	44	350	N	1.3	N	3.6	N	11
JT399RK	67	.187	N	N	N	24	N	7.8	N	632

Table 3. Results of analysis of rock samples from Joshua Tree National Park, and vicinity--Continued

Sample	TA PPM INAA	TB PPM INAA	TH PPM INAA	TI PCT ICP	U PPM INAA	V PPM ICP	W PPM INAA	Y PPM ICP	YB PPM INAA	ZN PPM ICP
JT352RK	N	N	1.4	.06	1.5	11	N	8	1.6	26
JT353RK	3.3	1.3	8.2	1.65	1.4	236	N	40	2.9	87
JT354RK	N	1.1	15	.39	4.1	126	N	36	3.1	59
JT357RK	N	.9	18	.17	1.1	6	N	14	2.2	33
JT358RK	1.4	3	22	.24	2.8	15	N	43	11.1	36
JT360RK	N	.5	6	.08	1	24	N	19	2	33
JT362RK	1.4	1.1	16	.19	3.2	41	N	47	4.6	50
JT363RK	N	N	17	.17	3.4	60	N	25	2.1	37
JT364RK	N	N	20	.11	3	12	N	14	2.1	38
JT365RK	.8	.5	14	.03	1.4	2	N	6	1.4	4
JT366RK	2.5	1	23	.14	3.3	14	N	32	3.5	30
JT367RK	N	1.7	2	.34	1.1	28	N	60	4.8	20
JT370RK	N	.9	21	.4	3.7	102	N	36	3.6	105
JT371RK	N	1.1	19	.36	2.7	48	N	40	3.9	16
JT372RK	1.1	N	34	.18	4.1	33	N	19	2	24
JT373RK	N	N	5.4	.1	1.3	9	N	5	.8	39
JT374RK	N	N	4.5	.3	1	40	N	11	.9	73
JT375RK	N	N	8.2	.17	1.6	68	3	14	1.7	58
JT376RK	N	N	8.4	.1	1.9	74	N	22	2.4	58
JT377RK	N	.6	7.7	.12	3.9	274	7	14	1.5	83
JT380RKA	N	1.2	14	.08	280	140	N	38	3.9	18
JT380RKB	1.6	N	22	.18	2.6	53	7	16	2.8	14
JT380RKC	1.5	.9	20	.19	3	86	3	19	2.4	23
JT383RK	N	N	17	.33	3.4	116	N	30	2.9	83
JT384RK	N	N	7.7	.56	1.8	141	N	28	2.3	76
JT397RK	4.7	1	28	.02	5.5	2	N	78	10.1	21
JT399RK	N	1.1	11	.71	1.5	179	N	37	2.8	36

Table 3.-- Continued

SAMPLE	SAMPLE DESCRIPTION
JT001RK	Biotite granite
JT002RK	Biotite granite
JT005RK	Biotite granite
JT006RK	Quartz-biotite gneiss
JT007RKA	Granite and vein quartz, dump, John's Camp
JT007RKB	Granite with Fe oxides, dump, John's Camp
JT008RK	Biotite granite
JT009RK	Biotite granite
JT014RK	Quartz-biotite schist
JT015RK	Quartz-biotite gneiss
JT016RK	Foliated biotite granite
JT019RK	Quartz biotite gneiss
JT022RK	Quartz biotite gneiss
JT024RK	Quartz biotite gneiss
JT025RK	Quartz biotite gneiss
JT030RK	Quartz biotite gneiss
JT032RK	Biotite granite
JT035RK	Biotite granodiorite
JT039RK	Pegmatitic granite
JT044RK	Metasiltstone
JT045RK	Carbonate-magnetite vein, dump, Iron Age mine
JT050RK	Metasiltstone
JT051RK	Granite
JT055RK	Basalt
JT057RK	Granite
JT064RKA	Vein quartz,Fe oxides, prospect
JT064RKB	Metasiltstone
JT065RK	Granite
JT069RK	Gneiss
JT073RK	Granite with magnetite
JT076RK	Aplite dike in granite
JT077RK	Gneiss
JT078RKA	Granodiorite from mine dump
JT078RKB	Pegmatite from mine dump
JT078RKC	Pegmatite,granodiorite, & quartz vein with Fe & Mn oxides, mine dump
JT079RK	Fault gouge, quartz,and iron oxides, dump, Pinto(?) Mine
JT080RK	Vein quartz with Fe oxides
JT082RKA	Granodiorite
JT082RKB	Gneiss
JT089RK	Granite
JT090RK	Gneiss
JT091RK	Granite
JT092RK	Granite
JT094RK	Granite(?) porphyry
JT097RK	Granite
JT098RK	Gneiss
JT100RK	Metaquartzite
JT102RKA	Fe and Mn oxides, Sunset mine
JT102RKB	Granodiorite, dump, Sunset mine
JT103RK	Quartz monzonite
JT105RK	Granodiorite, vein quartz, Fe and Cu oxides, dump, Rose of Peru mine
JT106RK	Granodiorite
JT108RK	Marbleized limestone
JT109RK	Epidote skarn
JT110RKA	Biotite quartz monzonite porphyry, dump, Rainbow's End mine
JT110RKB	Biotite quartz monzonite porphyry, Fe and Cu oxides, dump, Rainbow's End mine
JT112RK	Magnetite skarn, dump, Storm Jade mine
JT117RK	Metasiltstone
JT118RK	Metasiltstone
JT119RK	Granodiorite

Table 3.--Continued

SAMPLE	SAMPLE DESCRIPTION
JT126RK	Chlorite gneiss/schist
JT128RK	Quartz diorite
JT129RK	Biotite-chlorite schist
JT131RK	Quartz vein with Fe oxides, dump, Snow Cloud mine
JT132RK	Gneiss
JT133RK	Biotite granite
JT134RK	Biotite granite
JT140RK	Mill tailings
JT141RK	Biotite granodiorite
JT142RK	Biotite granite
JT144RK	Quartz-biotite gneiss
JT146RK	Biotite granite
JT149RK	Biotite granite gneiss
JT151RK	Biotite granite gneiss
JT152RK	Biotite granite gneiss
JT153RK	Biotite granite gneiss
JT155RK	Biotite granite dike in schist/gneiss
JT156RK	Biotite granite gneiss
JT159RK	Biotite granite gneiss
JT161RK	Biotite granite gneiss
JT162RK	Biotite granodiorite(?) gneiss
JT164RK	Foliated biotite granodiorite
JT165RK	Biotite diorite(?) gneiss
JT166RK	Biotite diorite(?) gneiss
JT168RK	Biotite granite porphyry
JT170RK	Biotite quartz monzonite
JT172RK	Biotite quartz monzonite
JT173RK	Biotite quartz monzonite
JT175RK	Biotite diorite gneiss
JT176RK	Epidotized metadiorite
JT180RK	Biotite quartz monzonite/granite
JT183RK	Biotite gneiss
JT301RK	Granite, Anaconda mine
JT302RK	Vein quartz, dump, Desert Queen mine
JT303RK	Vein quartz, Fe oxides, dump, Pine City prospect
JT304RK	Granite
JT305RK	Vein quartz, Fe oxides, dump, Elton mine
JT307RK	Biotite gneiss
JT308RKA	Vein quartz, Fe and Cu oxides, mine dump
JT308RKB	Gabbro, mine dump
JT309RK	Gneiss
JT310RK	Granite
JT312RK	Gneiss
JT315RK	Vein quartz, with Fe oxides, mine dump
JT316RKA	Mill tailings, Wall Street mill
JT316RKB	Granite, Wall Street mine
JT319RK	Biotite granodiorite
JT320RK	Biotite quartz monzonite porphyry
JT322RK	Biotite granodiorite/quartz monzonite
JT323RK	Biotite quartz monzonite porphyry
JT324RK	Biotite granite
JT325RK	Biotite granite gneiss
JT326RK	Biotite-quartz gneiss/schist
JT327RK	Biotite granite
JT328RK	Biotite quartz monzonite porphyry
JT329RK	Biotite granodiorite
JT347RKA	Biotite granite schist
JT347RKB	Leucogranite
JT349RK	Metasiltstone
JT351RK	Metaquartzite

Table 3.--Continued

SAMPLE	SAMPLE DESCRIPTION
JT352RK	Granite
JT353RK	Vesicular basalt
JT354RK	Quartz monzonite
JT357RK	Biotite gneiss
JT358RK	Biotite gneiss
JT360RK	Foliated granite/quartz monzonite
JT362RK	Biotite granodiorite
JT363RK	Biotite quartz monzonite porphyry
JT364RK	Biotite granite
JT365RK	Metaquartzite
JT366RK	Biotite granite
JT367RK	Foliated biotite granodiorite
JT370RK	Biotite quartz monzonite
JT371RK	Biotite granodiorite
JT372RK	Biotite quartz monzonite porphyry
JT373RK	Biotite granite
JT374RK	Biotite granodiorite
JT375RK	Metasiltstone
JT376RK	Meta-arkose
JT377RK	Mill tailings, Gold Rose mill
JT380RKA	Vein quartz, Fe & Cu oxides, dump, Zulu Queen mine
JT380RKB	Quartz monzonite; near dump, Zulu Queen mine
JT380RKC	Quartz monzonite, shear zone, dump, Zulu Queen mine
JT383RK	Granodiorite porphyry
JT384RK	Biotite granodiorite
JT397RK	Biotite granite
JT399RK	Hornblende diorite

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity

[PPM, parts per million; PCT, percent; PPB, parts per billion; ICP, inductively coupled plasma-atomic emission spectrometry (ICP-AES); INAA, instrumental neutron activation analysis; N, not detected, or less than the lower limit of determination]

Sample	LATITUDE	LONGITUDE	AG PPM ICP	AL PCT ICP	AS PPM INAA	AU PPB INAA	BA PPM INAA	BE PPM ICP	BI PPM ICP
JT001SS	34 4 21	116 2 5	N	5.04	N	N	570	N	8
JT002SS	34 3 10	116 2 35	3.3	.68	N	5	720	N	N
JT003SS	34 3 22	116 2 37	N	7.13	N	11	590	N	N
JT004SS	34 4 9	116 1 17	N	7.37	N	N	600	N	19
JT005SS	34 1 27	116 1 11	N	7.68	3	6	630	N	N
JT006SS	34 1 29	116 1 5	N	6.41	N	11	520	N	N
JT008SS	34 1 14	116 2 32	N	6.99	N	N	540	N	N
JT009SS	34 1 33	116 7 39	N	4.84	N	10	450	N	8
JT010SS	34 2 1	116 9 53	2.51	6.54	2.4	N	630	N	N
JT011SS	34 2 9	116 10 52	N	8.2	1.7	114	660	N	12
JT012SS	34 1 14	116 10 52	N	6.8	.8	N	480	N	N
JT013SS	34 7 12	116 5 43	N	6.33	2.5	5	710	N	N
JT014SS	34 4 50	116 0 28	N	7.05	3.3	6	530	N	N
JT015SS	34 4 14	116 0 8	.66	6.16	7.2	8	690	N	N
JT016SS	34 4 21	115 58 43	N	5.78	3.2	10	560	N	N
JT017SS	33 58 32	115 55 16	N	5.61	2.9	6	620	N	N
JT018SS	34 5 8	116 8 18	N	7.19	3	N	660	N	N
JT019SS	33 56 32	115 58 27	N	7.07	2.2	N	670	N	N
JT020SS	33 56 37	115 58 22	N	7.8	2.5	N	680	N	N
JT021SS	33 55 40	115 57 40	N	7	N	100	800	N	N
JT022SS	33 55 45	115 57 27	N	6.02	2.2	N	590	N	N
JT023SS	33 55 8	115 56 11	N	6.09	2.6	17	610	N	N
JT024SS	33 56 1	115 56 5	N	5.98	4.4	N	680	N	N
JT025SS	33 52 22	115 54 38	N	4.3	N	N	870	N	N
JT026SS	33 52 30	115 54 45	N	6.59	2.8	N	940	N	8
JT027SS	33 53 24	115 52 55	N	4.74	8.3	N	900	N	N
JT028SS	33 54 21	115 53 40	N	5.56	N	N	160	N	N
JT029SS	33 53 26	115 51 33	N	6.28	2.8	4	620	N	N
JT030SS	33 53 0	115 50 8	N	5.81	5.7	N	830	N	N
JT031SS	33 53 12	115 49 23	N	6.07	3.2	N	810	N	N
JT033SS	33 57 23	115 41 47	N	7.21	3.6	7	560	N	N
JT034SS	33 58 52	115 41 25	N	5.5	6.8	88	600	N	N
JT036SS	34 0 15	115 40 21	N	7.95	3.1	N	580	N	N
JT037SS	34 4 31	115 33 49	N	6.64	3.7	N	760	N	N
JT038SS	34 3 31	115 30 30	N	7.06	3.5	N	600	N	N
JT040SS	34 5 29	115 24 38	N	7.56	2.7	N	810	N	N
JT041SS	34 5 27	115 24 13	N	8.95	3.5	N	780	N	N
JT042SS	34 5 0	115 21 43	N	8.36	2	7	810	N	6
JT043SS	34 4 43	115 20 52	N	5.69	2.4	N	640	N	N
JT044SS	34 5 10	115 38 51	N	5.55	3.1	N	830	N	N
JT046SS	34 5 51	115 37 38	N	6.21	1.1	N	650	N	N
JT047SS	34 3 38	115 19 4	N	7.47	2.1	12	540	N	N
JT048SS	33 57 52	115 18 2	N	6.76	5	N	930	N	N
JT049SS	33 58 1	115 17 57	.51	7.65	3.8	6	730	N	N
JT050SS	33 56 18	115 17 26	N	6.94	3.7	N	610	N	N
JT052SS	33 54 54	115 18 53	N	7.68	4.8	3	730	N	N
JT053SS	33 55 4	115 24 13	N	6.82	2.3	N	880	N	N
JT054SS	33 56 3	115 24 13	N	6.91	4.4	N	810	N	N
JT056SS	33 52 38	115 21 15	N	5.24	3.3	N	690	N	N
JT058SS	33 51 5	115 21 17	N	7	3.6	N	780	N	N
JT059SS	33 50 43	115 20 59	N	7.2	N	7	640	N	11
JT060SS	33 49 45	115 20 26	N	6.51	4.5	N	560	N	N
JT061SS	33 48 38	115 17 31	N	6.46	3.6	7	750	N	N
JT062SS	33 48 38	115 17 2	N	6.52	2.9	N	670	N	N
JT063SS	33 50 50	115 16 9	N	6.97	3.8	3	630	N	N
JT065SS	33 54 3	116 5 7	.58	7.53	3.6	21	560	N	N
JT066SS	33 54 55	116 4 46	N	7.24	N	N	600	N	N
JT067SS	33 55 21	116 4 37	N	7.61	3.3	9	530	N	N
JT068SS	33 58 52	116 9 2	N	7.13	N	N	710	N	N
JT069SS	33 57 48	116 10 15	N	7.72	1.2	N	650	N	N

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	BR PPM INAA	CA PCT ICP	CD PPM ICP	CE PPM INAA	CO PPM INAA	CR PPM INAA	CS PPM INAA	CU PPM ICP	EU PPM INAA	FE PCT INAA
JT001SS	N	2.98	N	220	19	73	1	25	3.6	15.6
JT002SS	N	.1	N	250	15	53	3	27	2.9	8.69
JT003SS	N	2.45	N	140	13	34	2	27	2.2	4.82
JT004SS	N	2.28	N	150	12	60	3	26	1.8	4.6
JT005SS	N	2.56	N	190	14	70	2	24	1.9	4.88
JT006SS	N	1.99	N	170	10	41	2	18	1.8	3.96
JT008SS	N	2.63	N	320	18	95	2	23	2.5	8.44
JT009SS	N	2.37	N	210	21	120	N	35	2.4	17.7
JT010SS	N	2.41	N	230	16	67	2	20	2.9	8.03
JT011SS	N	2.6	N	370	11	65	2	27	2.6	6.14
JT012SS	N	2.19	N	160	12	52	3	25	2	5
JT013SS	N	2.1	N	150	11	72	3	24	3.3	10.2
JT014SS	N	4.02	N	130	21	68	2	38	2.2	6.53
JT015SS	1.8	3.92	N	160	26	76	1	35	2.8	8.61
JT016SS	N	2.63	N	190	20	110	2	29	2.3	6.3
JT017SS	N	2.72	N	290	27	140	2	28	3.3	14.7
JT018SS	N	1.82	N	280	10	66	3	18	2.3	9.11
JT019SS	N	2.08	N	180	13	81	2	28	2.2	5.49
JT020SS	N	2.35	N	260	14	68	2	28	2.3	7.64
JT021SS	N	2.12	N	470	18	96	4	138	3.2	6.91
JT022SS	N	2.31	N	380	17	100	2	52	2.3	5.83
JT023SS	N	2.17	N	350	21	90	2	38	2.9	7.31
JT024SS	N	2.24	N	220	14	62	2	28	2.3	6.27
JT025SS	N	1.91	N	530	24	130	N	43	3.8	13.2
JT026SS	N	2.82	N	250	19	90	3	33	3.4	7.21
JT027SS	N	2.18	N	400	18	100	2	38	3.7	9.69
JT028SS	N	2.53	N	66	4	18	N	39	.5	1.6
JT029SS	N	2.18	N	280	18	93	3	22	2.7	6.7
JT030SS	N	1.93	N	750	19	120	2	33	4	9.88
JT031SS	N	2.95	N	230	16	69	2	29	2.9	9.45
JT033SS	N	2.65	N	120	15	58	3	36	1.8	4.85
JT034SS	N	2.76	N	180	18	63	2	155	2.2	8.8
JT036SS	N	3.54	N	150	11	48	2	27	2	4.69
JT037SS	N	2.58	N	170	12	48	2	15	2.7	6.19
JT038SS	N	2.54	N	150	8	35	1	15	2.3	3.67
JT040SS	N	2.7	N	130	7	29	N	16	1.9	3.02
JT041SS	N	2.95	N	160	7	36	3	17	2.2	3.54
JT042SS	N	2.65	N	160	6	21	2	17	1.7	3.58
JT043SS	N	2.41	N	120	7	23	3	16	1.5	2.82
JT044SS	N	3.03	N	200	11	55	2	25	2.3	7.94
JT046SS	N	2.61	N	160	8	45	N	17	2.1	4.26
JT047SS	N	2.24	N	91	5	25	3	15	1.2	2.24
JT048SS	N	2.87	N	230	8	67	2	22	2.3	8.37
JT049SS	1.3	2.95	N	80	9	30	2	17	1.5	3.06
JT050SS	N	3.52	N	210	8	35	2	21	3.5	3.66
JT052SS	N	3.18	N	180	8	35	2	18	2.9	3.49
JT053SS	N	2.74	N	220	10	58	2	20	2.8	5.48
JT054SS	N	2.7	N	180	9	34	2	21	2.5	5.04
JT056SS	N	2.62	N	330	13	64	2	27	4.4	11.4
JT058SS	N	2.63	N	110	9	35	2	18	1.9	3.96
JT059SS	N	3.02	N	150	10	45	3	22	2.1	4.76
JT060SS	N	2.85	N	140	9	43	3	20	2	3.98
JT061SS	N	2.5	N	140	9	53	2	19	2.1	4.25
JT062SS	N	2.82	N	100	8	34	2	16	1.9	3.11
JT063SS	N	2.85	N	84	7	31	2	17	1.6	2.88
JT065SS	N	2.77	N	97	18	31	2	24	1.9	5.96
JT066SS	N	3.02	N	150	16	40	2	19	2.5	6.54
JT067SS	N	2.56	N	110	14	65	2	32	2.3	5.55
JT068SS	N	3.06	N	180	25	130	N	37	2.4	7.24
JT069SS	N	2.32	N	110	19	80	2	37	2	5.88

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	HF PPM INAA	K PCT ICP	LA PPM INAA	LU PPM INAA	MG PCT ICP	MN PPM ICP	MO PPM ICP	NA PCT INAA	ND PPM INAA
JT001SS	58	1.29	110	2.57	1.27	2,668	3	2.49	97
JT002SS	68	.23	130	1.99	.04	1,419	2	2.91	87
JT003SS	17	2.13	72	1.16	1.29	1,177	4	3.16	60
JT004SS	17	2.31	82	1.16	1.39	905	N	2.93	57
JT005SS	30	2.32	100	1.57	1.39	1,005	N	2.72	69
JT006SS	27	1.94	92	1.26	.94	855	N	2.84	62
JT008SS	64	2.03	170	2.5	1.33	1,504	N	3.38	100
JT009SS	61	1.07	110	1.98	1.02	2,151	N	1.67	74
JT010SS	29	.71	130	1.83	1.15	1,563	N	2.71	88
JT011SS	27	2.28	200	1.91	.81	1,310	N	3.64	140
JT012SS	14	1.77	80	1.14	.96	1,123	N	2.72	58
JT013SS	21	1.73	61	2.36	.67	2,128	N	3.49	57
JT014SS	16	1.49	64	1.07	1.85	984	N	1.78	52
JT015SS	20	.66	86	1.27	1.74	1,060	N	1.97	58
JT016SS	20	1.35	87	1.5	1.6	909	2	1.96	65
JT017SS	37	1.3	160	2.34	1.42	1,061	N	2.29	140
JT018SS	21	2.05	150	2.43	.81	1,576	N	3.59	83
JT019SS	18	2.01	93	1.69	1.51	883	N	2.19	76
JT020SS	32	2.25	140	2.38	1.43	1,315	N	2.18	110
JT021SS	45	1.68	250	3.26	2	829	N	2.19	180
JT022SS	64	1.47	200	3.82	1.65	1,038	N	2.11	120
JT023SS	38	1.51	190	2.95	1.78	1,254	N	1.8	160
JT024SS	18	1.61	110	1.66	1.21	984	N	1.82	86
JT025SS	110	1.2	290	3.51	.95	2,922	N	1.46	200
JT026SS	43	2.08	130	1.94	1.5	1,277	4	1.95	110
JT027SS	92	1.3	210	2.87	.98	2,108	N	1.55	180
JT028SS	9	1.48	38	.5	1.22	2,208	4	.32	21
JT029SS	29	.76	160	2.29	1.35	1,127	N	1.9	120
JT030SS	33	.68	430	5.62	1.46	1,391	N	1.52	350
JT031SS	27	.69	130	1.67	1.52	1,188	N	1.91	97
JT033SS	13	1.79	69	.87	1.46	894	N	1.75	50
JT034SS	22	1.59	93	1.03	1.01	834	5	1.68	66
JT036SS	18	2.3	73	.94	1.38	674	N	2.02	55
JT037SS	24	1.9	97	1.04	.93	598	N	2.59	76
JT038SS	16	1.93	75	.74	.81	540	N	2.43	58
JT040SS	12	1.84	75	.74	.69	534	2	3.41	49
JT041SS	15	2.32	85	.89	.9	643	N	3.15	65
JT042SS	12	2.13	94	1.17	.75	802	3	3.19	60
JT043SS	13	1.56	69	.73	1.15	648	N	2.99	41
JT044SS	28	1.54	110	1.23	.86	889	N	2.26	82
JT046SS	24	1.71	87	1.08	.79	689	3	2.56	71
JT047SS	10	1.73	54	.57	.65	512	N	3.32	36
JT048SS	15	1.88	140	.89	.84	754	N	2.51	91
JT049SS	8	1.4	44	.5	.92	584	N	2.58	29
JT050SS	19	1.88	100	.79	.87	529	2	2.09	90
JT052SS	18	2.08	84	.81	1.04	532	3	2.26	71
JT053SS	30	1.89	120	1.42	.77	825	2	3.02	87
JT054SS	16	1.84	110	.84	.97	645	N	2.23	76
JT056SS	39	1.48	190	1.54	.66	836	N	2.38	140
JT058SS	14	.99	67	.74	.94	648	N	2.32	45
JT059SS	19	2.15	73	.96	1.09	713	4	2	55
JT060SS	19	1.97	69	.93	.99	650	N	2.03	52
JT061SS	23	1.95	76	1.14	.87	639	2	2.43	61
JT062SS	14	1.39	57	.72	.94	577	N	2.12	44
JT063SS	13	1.72	49	.65	.99	577	N	2.01	35
JT065SS	9	2.13	56	.63	1.91	1,093	N	2.09	42
JT066SS	14	1.45	80	.84	1.41	881	N	2.52	51
JT067SS	12	1.13	63	1.16	1.37	1,064	N	2.09	52
JT068SS	15	1.12	90	1.46	2.02	1,382	N	2.17	63
JT069SS	11	.77	65	1.06	1.77	884	N	1.6	42

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA Joshua Tree National Park, and vicinity --Continued

Sample	NI PPM ICP	P PCT ICP	PB PPM ICP	RB PPM INAA	SB PPM INAA	SC PPM INAA	SE PPM INAA	SM PPM INAA	SR PPM ICP
JT001SS	14	.393	28	86	N	24	N	24	291
JT002SS	12	.178	36	110	.6	20	N	17	468
JT003SS	15	.155	17	110	.2	17	N	11	346
JT004SS	23	.106	9	130	.3	17	N	11	269
JT005SS	28	.113	27	120	.3	17	N	13	283
JT006SS	15	.088	11	93	.4	14	N	11	253
JT008SS	28	.124	37	97	N	21	N	19	267
JT009SS	20	.143	23	53	N	17	N	15	308
JT010SS	16	.128	18	60	N	16	N	17	354
JT011SS	14	.112	59	140	N	13	N	26	383
JT012SS	21	.101	19	120	.4	14	N	9.9	324
JT013SS	16	.172	32	100	.5	13	N	16	611
JT014SS	29	.172	18	55	.3	22	N	10	396
JT015SS	22	.137	15	55	.5	25	4	14	371
JT016SS	29	.103	19	81	.6	20	N	14	271
JT017SS	28	.122	22	160	N	22	N	23	359
JT018SS	16	.088	37	100	.4	11	N	19	495
JT019SS	25	.093	13	110	.7	19	N	17	254
JT020SS	23	.097	25	100	.4	21	N	24	259
JT021SS	24	.081	50	130	N	20	N	35	190
JT022SS	26	.097	19	69	.5	22	4	25	160
JT023SS	29	.094	53	89	.7	25	N	26	180
JT024SS	16	.113	21	100	.5	21	N	16	241
JT025SS	21	.213	37	N	N	31	3	34	145
JT026SS	27	.279	47	130	.7	27	N	26	276
JT027SS	24	.256	25	88	N	30	N	37	189
JT028SS	21	.181	88	27	N	5.4	N	5	196
JT029SS	21	.107	20	120	.6	25	4	22	253
JT030SS	40	.139	32	89	.6	21	N	65	200
JT031SS	13	.138	15	84	.6	22	4	18	307
JT033SS	24	.124	19	110	.6	16	N	9.5	295
JT034SS	23	.12	149	86	1	14	N	11	300
JT036SS	20	.105	28	87	.8	13	N	9.6	397
JT037SS	14	.096	19	71	.5	13	N	12	404
JT038SS	10	.12	12	83	.5	9.6	N	9.5	466
JT040SS	8	.15	8	93	.5	8.5	N	9.4	553
JT041SS	13	.147	32	97	.6	9.8	N	13	609
JT042SS	11	.131	24	72	.6	6.9	N	12	548
JT043SS	12	.133	16	68	.4	7.8	N	8.7	271
JT044SS	16	.106	26	78	.6	12	N	16	324
JT046SS	13	.108	34	65	.4	11	N	14	366
JT047SS	9	.093	17	77	.4	7.4	N	6	521
JT048SS	12	.116	20	79	1.4	11	N	15	436
JT049SS	7	.106	19	89	.8	9.1	N	5.8	556
JT050SS	12	.216	22	71	.6	10	N	14	485
JT052SS	12	.18	14	84	.7	11	N	12	507
JT053SS	12	.137	22	81	.5	14	N	19	415
JT054SS	14	.121	22	62	.6	10	N	12	458
JT056SS	10	.168	21	66	.8	13	N	25	341
JT058SS	31	.086	18	100	.6	10	N	8.3	430
JT059SS	15	.089	18	84	.9	12	N	9.5	406
JT060SS	13	.095	14	92	.9	12	N	9.1	374
JT061SS	13	.106	18	78	.9	12	N	12	371
JT062SS	17	.09	17	84	.6	9.9	N	7.5	411
JT063SS	11	.111	16	98	.6	9.6	3	6.4	454
JT065SS	9	.166	19	140	.5	17	N	7.5	427
JT066SS	13	.133	13	91	N	17	N	11	477
JT067SS	28	.13	18	110	.4	15	N	10	357
JT068SS	59	.118	11	100	N	23	N	13	220
JT069SS	36	.09	10	90	.3	20	N	8.8	270

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	TA PPM INAA	TB PPM INAA	TH PPM INAA	TI PCT ICP	U PPM INAA	V PPM ICP	W PPM INAA	Y PPM ICP	YB PPM INAA	ZN PPM ICP
JT001SS	6	3.9	59	2.2	10	339	N	79	14.7	103
JT002SS	3.6	2.9	60	.04	10	78	N	14	11.6	1
JT003SS	3.4	1.9	21	.74	3.6	112	N	61	7.2	88
JT004SS	2.3	2	30	.61	4.7	100	N	53	7	81
JT005SS	3	2.4	44	.81	7.6	107	N	65	9.4	83
JT006SS	2.4	1.9	39	.55	7.8	78	N	50	7.4	58
JT008SS	6.5	1.5	97	1.15	13	158	N	86	14.4	75
JT009SS	2.6	3.4	61	1.74	8.5	433	N	65	12	83
JT010SS	4.5	3	65	1.08	8	209	N	63	12.1	84
JT011SS	7	3	120	.95	10	131	N	57	11	59
JT012SS	2.3	1.7	40	.46	5.6	91	N	32	7.8	77
JT013SS	9.6	3.7	45	.42	8	243	N	89	15.7	72
JT014SS	1.4	2.1	22	.68	2.9	184	N	55	7.2	80
JT015SS	N	2	35	.64	5.5	221	N	67	8.6	71
JT016SS	1	2.5	35	.54	3.7	129	N	54	9.9	61
JT017SS	N	3.5	84	.75	13	373	N	89	14.6	74
JT018SS	7.4	2.5	130	.44	21	174	N	50	13.7	80
JT019SS	1.5	2.2	36	.55	4.6	105	N	61	10.1	96
JT020SS	2.4	3.4	73	.79	7.8	135	N	87	14.2	100
JT021SS	2.2	5.6	110	.56	14	114	13	87	19.3	287
JT022SS	2.6	5.3	110	.63	13	119	N	111	20.8	106
JT023SS	1.9	4	96	.75	9.9	149	N	102	19.3	99
JT024SS	1.3	2.8	40	.55	4.2	95	N	62	11.2	72
JT025SS	7	4.9	140	2.22	13	186	N	99	17.3	98
JT026SS	3.1	3.1	35	.94	4.5	116	N	83	10.6	114
JT027SS	4.1	4.4	86	1.53	11	139	N	88	16.2	90
JT028SS	1.1	1.1	16	1.51	2	138	N	110	2.9	97
JT029SS	2.9	3	74	.68	6.7	127	N	84	15.6	81
JT030SS	N	11	230	.87	25	225	42	123	40.4	97
JT031SS	2.2	2.5	72	.57	9.8	196	N	67	11.4	102
JT033SS	1.6	1.7	25	.55	4.2	113	N	47	5.3	83
JT034SS	2.3	2	31	.61	4.6	211	N	45	6.8	74
JT036SS	2	1.7	25	.59	3.4	133	10	53	6.1	67
JT037SS	3.5	1.9	34	.5	4.4	132	N	47	6.8	50
JT038SS	1.7	1.5	21	.46	3.7	76	N	38	5.2	45
JT040SS	1	1	21	.45	3.2	68	N	36	4.1	52
JT041SS	1.3	1.7	24	.56	5.6	79	N	41	5.4	72
JT042SS	2.8	2.2	31	.52	4.3	86	N	43	6.9	64
JT043SS	1	1.2	25	.51	4.6	121	N	55	4.5	69
JT044SS	1.9	1.9	37	.6	5	213	N	52	7.2	49
JT046SS	1.9	1.9	31	.54	5.5	131	N	51	6.6	41
JT047SS	1	.9	17	.3	3.5	48	N	23	3.2	48
JT048SS	1.6	1.6	47	.63	4.8	145	7	50	5.3	64
JT049SS	N	1	12	.33	2.3	71	N	30	3.2	67
JT050SS	2.2	1.9	23	.96	4.1	113	19	54	5.7	59
JT052SS	1.8	1.7	21	.73	3.6	102	N	51	5.5	64
JT053SS	2.7	2.6	42	.65	7.1	117	N	58	8.4	40
JT054SS	N	N	32	.53	5.6	117	N	42	5.5	71
JT056SS	3.7	2.8	60	.84	8.1	190	N	55	8.8	55
JT058SS	1	1.2	20	.47	3.1	113	N	53	5.2	69
JT059SS	2	1.6	24	.54	3.7	115	N	51	6.4	62
JT060SS	1.9	1.4	23	.4	4	75	N	40	6.2	50
JT061SS	1.7	1.6	27	.53	6	89	N	47	6.7	51
JT062SS	1.3	1.1	18	.42	3	92	N	49	4.6	73
JT063SS	.5	1	15	.38	3.2	83	3	38	4.2	65
JT065SS	1.5	1	18	.61	3	162	N	40	4	129
JT066SS	N	N	30	.59	6	170	N	44	5.6	87
JT067SS	2.6	1.6	45	.72	7.3	143	N	53	7.7	98
JT068SS	2.4	2.5	43	.92	4.4	173	N	48	9.9	103
JT069SS	N	1.4	21	.68	2.6	159	N	40	7.2	113

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	LATITUDE	LONGITUDE	AG PPM ICP	AL PCT ICP	AS PPM INAA	AU PPB INAA	BA PPM INAA	BE PPM ICP	BI PPM ICP
JTD70SS	34 1 3	116 17 17	N	8.35	N	N	670	N	N
JT071SS	34 1 8	116 17 24	N	6.41	N	N	690	N	N
JT072SS	34 1 15	116 17 25	N	4.14	N	45	1,000	N	N
JT073SS	34 2 43	116 15 54	N	7.68	1.3	N	600	N	N
JT074SS	34 2 25	116 15 17	N	8.32	1.3	N	450	N	N
JT075SS	34 2 28	116 14 44	N	8.6	N	N	720	N	N
JT076SS	34 2 53	116 14 40	N	7.94	2.4	N	650	N	N
JT077SS	34 2 23	116 13 45	N	6.3	6.1	N	590	N	28
JT081SS	33 42 35	115 58 4	N	5.33	3.3	N	840	N	N
JT083SS	33 41 15	115 56 7	N	8.23	N	N	650	N	N
JT084SS	33 41 16	115 56 32	N	6.41	1.8	N	870	N	N
JT085SS	33 40 36	115 54 5	N	6.6	4	N	840	N	N
JT086SS	33 40 16	115 52 40	N	6.7	N	53	820	N	N
JT087SS	33 40 52	115 50 53	N	7.03	N	N	700	N	N
JT088SS	33 41 4	115 49 48	N	6.86	1.5	22	760	N	N
JT089SS	33 43 42	115 49 23	N	6.61	2.1	N	740	N	N
JT090SS	33 43 47	115 49 16	N	7.21	3.4	N	650	N	N
JT091SS	33 42 6	115 48 0	N	6.81	3.4	N	760	N	N
JT092SS	33 41 5	115 43 28	N	6.48	3.4	N	560	2.48	N
JT093SS	33 41 11	115 42 45	N	6.38	4.9	N	760	N	N
JT095SS	33 41 38	115 41 30	N	6.23	3.1	6	690	N	N
JT096SS	33 41 52	115 40 52	N	7.61	2.8	N	650	N	N
JT098SS	33 42 45	115 39 36	N	7.39	3.5	11	670	N	N
JT100SS	33 59 34	115 49 6	N	6.52	2.4	8	630	N	N
JT101SS	33 59 26	115 48 59	N	6.17	2.1	5	490	N	N
JT104SS	34 0 35	115 39 47	N	7	3.2	32	680	N	N
JT107SS	33 51 30	115 39 10	N	5.96	3.2	N	790	N	N
JT108SS	33 51 29	115 38 34	N	5.73	3.7	13	810	N	N
JT109SS	33 51 55	115 37 37	N	5.8	1.6	N	720	N	N
JT111SS	33 51 16	115 35 59	N	4.78	3.5	7	430	N	N
JT113SS	33 51 39	115 37 57	N	6.09	5.5	N	630	N	N
JT114SS	33 52 18	115 40 42	N	5.14	1.2	N	270	N	10
JT115SS	33 51 46	115 41 22	N	6.7	1.8	N	580	N	N
JT116SS	33 54 54	115 36 2	N	5.38	10	9	770	N	N
JT117SS	33 54 46	115 37 0	N	5.59	11	8	670	N	N
JT118SS	33 53 42	115 37 2	N	5.4	23	10	630	N	N
JT120SS	33 51 33	115 41 52	N	7.88	2.2	N	810	N	N
JT121SS	33 51 6	115 42 41	N	6.97	2.4	N	630	N	12
JT122SS	33 50 38	115 43 35	N	6.48	2.4	11	620	N	6
JT123SS	33 50 14	115 44 36	N	3.23	2.6	N	590	N	11
JT124SS	33 49 51	115 45 7	N	6.89	3.2	6	640	N	N
JT125SS	33 46 56	115 51 55	N	6.25	8	17	870	N	N
JT127SS	33 46 42	115 54 54	N	7.28	3.4	4	810	N	N
JT129SS	33 46 57	115 56 57	N	6.2	4.5	N	760	N	N
JT130SS	33 46 40	115 56 51	N	6.12	4.9	10	560	N	N
JT132SS	33 46 12	115 59 0	N	7.19	1.4	N	640	N	6
JT133SS	33 45 50	115 58 54	N	8.57	2.5	N	580	N	N
JT134SS	33 47 28	115 47 20	N	6.24	4	N	610	N	N
JT135SS	33 47 14	115 48 56	N	5.71	3.9	5	780	N	N
JT136SS	33 51 18	115 44 43	N	6.56	2.3	14	900	N	N
JT137SS	33 52 52	115 43 58	.83	6.05	3.4	N	740	N	N
JT138SS	33 54 28	115 43 15	.63	6.09	N	N	730	N	N
JT139SS	33 56 4	115 42 31	.71	6.24	2.3	5	600	N	N
JT141SS	33 58 21	115 41 33	N	5.94	3.6	4	650	N	N
JT142SS	33 50 32	115 46 55	N	6.5	2.4	N	590	N	N
JT143SS	33 52 23	115 48 56	N	6.66	2.8	N	720	N	N
JT144SS	34 7 10	116 8 10	N	8.09	1.6	3	540	N	N
JT145SS	34 7 12	116 10 25	N	7.66	N	7	760	N	N
JT147SS	34 7 2	116 14 34	N	9.88	4.3	6	610	N	N
JT148SS	34 7 12	116 14 1	N	9.11	3	N	540	N	N

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	BR PPM INAA	CA PCT ICP	CD PPM ICP	CE PPM INAA	CO PPM INAA	CR PPM INAA	CS PPM INAA	CU PPM ICP	EU PPM INAA	FE PCT INAA
JT070SS	N	2.61	N	150	12	54	2	21	1.9	4.06
JT071SS	N	1.85	N	140	14	63	2	23	1.9	4.09
JT072SS	N	1.81	N	2,300	21	150	N	38	11.2	20.2
JT073SS	N	2.6	N	150	15	61	2	29	2	4.7
JT074SS	N	4.4	N	92	19	73	3	34	1.7	5.35
JT075SS	N	3.5	N	100	21	85	3	44	1.9	5.91
JT076SS	N	3.42	N	150	16	45	2	29	2.9	5.55
JT077SS	N	3.04	N	220	22	130	2	40	2.5	8.2
JT081SS	N	1.96	N	280	17	110	3	32	2.6	7.96
JT083SS	N	3.53	N	210	15	61	2	24	2.8	5.27
JT084SS	N	2.62	N	360	17	88	3	28	3.8	7.79
JT085SS	N	2.78	N	200	16	72	1	27	2.7	5.05
JT086SS	N	2.91	N	380	21	87	2	25	3.6	8.12
JT087SS	N	2.61	N	200	11	45	2	20	2.6	4.82
JT088SS	N	2.33	N	270	15	58	2	23	2.9	5.92
JT089SS	N	2.49	N	220	13	82	3	26	3.3	5.34
JT090SS	N	3.35	N	370	13	58	3	27	3	6.15
JT091SS	N	2.38	N	250	10	50	3	21	2.4	4.6
JT092SS	N	1.51	N	190	6	24	2	10	1.6	3.05
JT093SS	N	2.2	N	220	11	69	15	29	2.4	5.81
JT095SS	N	2.29	N	150	13	52	3	33	2.6	9.05
JT096SS	N	2.67	N	130	11	47	3	30	2.1	4.17
JT098SS	N	2.62	N	170	10	49	3	20	2.3	4.15
JT100SS	N	2.28	N	230	13	62	3	26	2.3	5.35
JT101SS	N	2.19	N	130	15	59	2	27	1.8	5.36
JT104SS	N	2.83	N	110	10	41	2	28	1.9	3.93
JT107SS	N	3	N	210	13	57	2	22	2.5	5.26
JT108SS	N	2.35	N	360	14	84	2	24	3.1	9.7
JT109SS	N	3.15	N	350	20	100	2	34	2.8	8.36
JT111SS	N	3.23	N	170	34	150	2	35	3.2	19.1
JT113SS	N	2.42	N	320	12	62	3	24	2.6	5.59
JT114SS	N	2.35	N	110	6	27	N	32	.9	3.35
JT115SS	N	2.61	N	130	11	50	2	24	2.1	5.05
JT116SS	N	3.85	N	230	28	73	2	31	3.4	13.9
JT117SS	N	2.98	N	130	16	59	2	35	1.9	5.17
JT118SS	N	2.89	N	120	20	72	1	38	2	8.48
JT120SS	N	3.23	N	220	13	75	2	29	2.8	7.98
JT121SS	N	2.85	N	220	12	61	2	29	2.7	7.73
JT122SS	N	2.61	N	210	13	91	2	30	2.8	9.43
JT123SS	N	1.39	N	220	19	180	N	55	2.5	25.6
JT124SS	N	2.36	N	240	13	60	2	23	2.5	5.46
JT125SS	N	2.69	N	370	18	92	3	34	3.6	8.45
JT127SS	N	2.2	N	130	18	76	3	36	2.3	5.6
JT129SS	N	2.52	N	230	22	120	4	34	3.7	9.37
JT130SS	N	2.41	N	340	19	110	2	43	2.7	9.03
JT132SS	N	2.44	N	260	22	110	2	35	2.5	7.55
JT133SS	N	2.98	N	250	23	110	3	45	2.7	8.29
JT134SS	N	1.53	N	310	7	30	2	13	2.2	5.65
JT135SS	N	2.4	N	420	17	74	2	26	3.9	8.73
JT136SS	N	2.47	N	220	13	67	3	28	2.4	5.56
JT137SS	N	2.28	N	300	12	52	2	20	3	6.45
JT138SS	N	2.31	N	310	14	67	2	26	3	8.9
JT139SS	N	2.48	N	220	11	51	1	21	2.5	5.87
JT141SS	N	2.57	N	140	15	60	2	29	2	7.16
JT142SS	N	3.18	N	200	14	59	1	32	2.2	7.18
JT143SS	N	3.23	N	120	14	59	2	29	2.2	6.06
JT144SS	N	1.96	N	100	7	27	3	17	1.6	3.03
JT145SS	N	2.32	N	300	11	45	4	23	2.3	5.59
JT147SS	N	2.89	N	180	7	19	4	16	1.9	3.39
JT148SS	N	2.91	N	160	10	29	3	17	2	4.49

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	HF PPM INAA	K PCT ICP	LA PPM INAA	LU PPM INAA	MG PCT ICP	MN PPM ICP	MO PPM ICP	NA PCT INAA	ND PPM INAA
JT070SS	11	2.24	78	.9	1.26	709	3	2.33	53
JT071SS	9	2.01	76	.96	1.11	717	N	2.24	52
JT072SS	150	1.07	1,600	8.55	.75	1,596	N	1.89	750
JT073SS	13	2.25	75	.88	1.47	793	N	2.09	51
JT074SS	9	2.11	45	.6	2.24	1,024	2	1.99	32
JT075SS	12	2.29	54	.75	2.1	1,012	N	2.11	39
JT076SS	12	.74	82	.91	1.46	901	N	2.67	68
JT077SS	41	1.33	120	1.98	1.8	1,484	N	1.73	90
JT081SS	29	1.59	150	1.65	1.12	1,260	N	2.23	110
JT083SS	23	2.23	120	.98	1.82	865	N	2.1	65
JT084SS	37	1.7	220	1.58	1.41	1,085	N	2.07	140
JT085SS	14	1.34	130	.85	1.54	868	N	2.08	68
JT086SS	27	1.71	250	1.14	1.61	1,084	N	1.87	140
JT087SS	21	1.84	130	.98	1.36	895	N	1.75	72
JT088SS	24	1.32	160	1.54	1.27	1,111	N	2.09	100
JT089SS	33	2.14	120	1.73	1.26	1,148	N	2.39	94
JT090SS	83	2.29	200	2.91	1.31	1,598	N	1.75	120
JT091SS	31	1.07	140	1.47	1.19	789	N	2.08	85
JT092SS	33	1.68	100	2.4	.57	750	N	2.71	82
JT093SS	10	2.27	110	2.65	1.03	993	N	2.26	89
JT095SS	26	1.93	84	1.48	1	1,121	N	1.87	59
JT096SS	18	1.57	79	1.25	1.3	1,047	N	2.27	49
JT098SS	19	2.56	79	1.36	1.21	726	N	1.8	59
JT100SS	22	1.9	110	1.88	1.22	804	2	2.34	84
JT101SS	15	1.6	69	.92	1.35	789	N	2.02	51
JT104SS	15	1.7	67	.86	1.16	625	N	2.21	46
JT107SS	25	1.39	120	1.78	1.15	788	N	2.03	89
JT108SS	52	1.35	190	3.11	1.13	756	N	1.74	150
JT109SS	20	1.7	180	2.82	1.28	917	N	1.8	160
JT111SS	31	.99	93	1.47	1.39	984	N	1.62	64
JT113SS	33	1.82	150	2.52	1.1	696	N	1.83	120
JT114SS	16	1.21	61	.7	.95	1,480	N	.68	39
JT115SS	21	1.14	76	1.22	1.25	831	N	1.79	62
JT116SS	31	1.29	110	1.69	1.61	932	N	1.83	100
JT117SS	15	1.26	71	.98	1.34	782	N	2.01	54
JT118SS	14	1.18	70	.81	1.38	788	N	1.87	46
JT120SS	37	2.33	110	2.14	1.28	944	N	2.14	90
JT121SS	33	1.76	110	1.49	1.1	829	4	1.99	85
JT122SS	44	1.7	110	1.7	1.15	869	N	2.18	82
JT123SS	66	.83	130	1.79	.55	902	N	1.43	81
JT124SS	31	2.15	110	1.49	1.17	896	3	1.95	87
JT125SS	74	1.69	190	2.22	1.3	1,552	6	1.64	160
JT127SS	13	1.15	80	.84	1.7	895	N	1.54	53
JT129SS	25	1.76	120	1.52	1.53	1,485	N	1.5	97
JT130SS	33	1.29	170	1.19	1.41	1,558	N	1.18	120
JT132SS	29	1.81	130	1.96	1.99	1,220	N	1.29	99
JT133SS	33	2.44	140	1.61	2.02	1,503	N	1.37	88
JT134SS	69	1.15	180	2.94	.6	953	N	2.63	130
JT135SS	61	.71	240	2.23	1.09	1,849	N	1.61	200
JT136SS	32	1.96	120	1.46	1.19	913	N	2.08	93
JT137SS	42	1.28	170	1.83	.96	1,141	N	2.33	130
JT138SS	49	1.04	190	1.93	1.09	1,147	N	1.84	140
JT139SS	36	1.34	130	1.6	1.06	1,066	N	1.88	100
JT141SS	25	1.53	80	1.06	1.2	879	N	1.77	56
JT142SS	22	.75	110	1.23	1.66	995	N	1.71	82
JT143SS	21	1.3	70	.98	1.74	972	N	1.78	40
JT144SS	8	1.41	60	.81	.9	954	N	3.24	37
JT145SS	18	2.07	180	1.13	1.02	900	N	3.02	120
JT147SS	11	2.27	86	.84	.96	727	3	2.81	57
JT148SS	14	2.07	92	.87	1.16	792	N	2.81	65

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	NI PPM ICP	P PCT ICP	PB PPM ICP	RB PPM INAA	SB PPM INAA	SC PPM INAA	SE PPM INAA	SM PPM INAA	SR PPM ICP
JT070SS	23	.128	N	110	.2	13	N	9.3	411
JT071SS	21	.104	8	120	.2	15	N	10	269
JT072SS	18	.242	29	N	N	16	N	160	196
JT073SS	23	.123	10	140	.4	16	N	9.2	367
JT074SS	27	.158	7	140	N	21	N	6.3	474
JT075SS	34	.153	12	110	.2	21	N	7.4	406
JT076SS	15	.188	11	120	.3	18	N	11	516
JT077SS	40	.139	21	72	N	24	N	20	242
JT081SS	23	.119	15	120	N	21	N	22	221
JT083SS	22	.223	15	93	N	17	N	11	522
JT084SS	27	.164	15	110	N	18	N	19	362
JT085SS	26	.17	588	110	9.1	16	N	11	388
JT086SS	28	.177	19	120	.5	18	N	18	375
JT087SS	17	.174	19	100	.2	14	N	12	377
JT088SS	21	.173	20	120	.5	18	5	16	320
JT089SS	21	.174	26	100	.9	24	N	20	249
JT090SS	21	.127	31	100	N	22	N	20	255
JT091SS	15	.102	25	110	.5	15	N	15	295
JT092SS	1	.91	32	140	.4	14	5	15	224
JT093SS	15	.206	34	160	.5	17	N	18	253
JT095SS	11	.181	26	110	.6	13	N	12	441
JT096SS	18	.192	23	96	.6	13	N	9.9	420
JT098SS	18	.121	19	140	.9	14	N	12	281
JT100SS	20	.11	20	98	.6	15	N	15	260
JT101SS	20	.104	15	78	.4	15	N	9.7	272
JT104SS	18	.101	29	100	.3	12	N	8.8	400
JT107SS	16	.105	24	88	.4	14	N	16	309
JT108SS	19	.103	23	110	.7	13	N	27	278
JT109SS	23	.113	24	80	.5	18	N	33	336
JT111SS	30	.141	19	58	.6	20	N	14	331
JT113SS	17	.099	23	120	.6	14	N	22	271
JT114SS	17	.122	36	20	.2	6.8	N	7.5	252
JT115SS	15	.127	13	77	.5	13	N	10	354
JT116SS	15	.093	45	89	.9	17	N	16	297
JT117SS	18	.119	13	95	.4	16	N	9.8	341
JT118SS	21	.117	28	77	.7	13	N	9.2	350
JT120SS	22	.156	28	83	.8	17	N	20	429
JT121SS	15	.137	17	76	.8	13	N	15	374
JT122SS	16	.157	23	78	N	18	N	17	338
JT123SS	11	.136	24	58	.8	13	N	18	160
JT124SS	19	.155	13	120	.6	18	N	16	271
JT125SS	35	.301	23	100	.6	28	N	35	241
JT127SS	35	.127	17	130	.4	17	N	9.2	307
JT129SS	32	.192	18	100	N	30	N	18	230
JT130SS	33	.162	27	100	.6	20	N	20	250
JT132SS	42	.097	29	110	.5	23	N	17	218
JT133SS	43	.148	30	91	.4	24	N	15	288
JT134SS	11	.1	24	120	.4	15	8	20	192
JT135SS	18	.238	15	120	N	23	N	33	242
JT136SS	18	.162	12	100	.3	19	N	19	287
JT137SS	11	.164	19	83	.4	16	8	22	286
JT138SS	18	.156	21	71	.6	18	7	23	289
JT139SS	19	.169	17	78	.3	15	4	17	337
JT141SS	19	.118	21	71	.5	15	N	10	337
JT142SS	26	.14	15	100	.6	19	N	15	324
JT143SS	16	.153	16	72	.5	19	N	9	365
JT144SS	15	.085	28	130	.3	8.8	N	7.5	553
JT145SS	12	.129	17	160	.6	12	N	21	405
JT147SS	11	.124	16	140	.4	8	N	9.8	612
JT148SS	15	.116	27	130	N	10	N	10	628

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	TA PPM INAA	TB PPM INAA	TH PPM INAA	TI PCT ICP	U PPM INAA	V PPM ICP	W PPM INAA	Y PPM ICP	YB PPM INAA	ZN PPM ICP
JT070SS	1.3	1.8	26	.47	1.6	85	N	37	5.7	104
JT071SS	1.7	1.5	25	.38	3.7	78	N	35	5.9	77
JT072SS	3.8	19	610	1.12	36	365	N	115	39.7	91
JT073SS	1.6	1.4	27	.48	3.8	95	N	33	5.8	97
JT074SS	1.5	1.1	19	.56	3.7	146	N	38	3.8	108
JT075SS	1.4	1.5	23	.61	5.8	155	N	40	4.5	114
JT076SS	2.1	1.7	29	.64	4.9	146	N	50	5.9	104
JT077SS	1.6	2.3	52	1	6	168	N	50	11.2	113
JT081SS	3.1	2.3	70	.9	7.7	115	N	47	8.6	78
JT083SS	1.2	1.8	31	.7	2.9	124	N	49	6.1	99
JT084SS	2.1	N	73	.79	10	170	N	59	10	93
JT085SS	2.2	1.5	31	.55	2.5	128	N	48	5.3	88
JT086SS	3.1	2.2	60	.73	4.7	182	N	61	7.2	110
JT087SS	N	1.9	35	.58	2.2	113	5	57	6.2	94
JT088SS	3.4	2.3	56	.63	5.5	128	N	64	9.6	99
JT089SS	2	2.6	52	.5	5.1	89	N	63	9.8	90
JT090SS	3.7	3.9	65	1.06	8.1	133	N	98	15.1	108
JT091SS	N	2.1	48	.48	6.6	97	N	82	9.7	111
JT092SS	3.3	2.4	63	.31	9.3	56	N	103	16.2	72
JT093SS	4.9	4	100	.51	14	131	N	103	15.9	97
JT095SS	2.2	2	51	.55	7	219	N	68	9.9	90
JT096SS	4.1	1.6	53	.49	7.7	112	N	71	8.3	89
JT098SS	2.2	2.2	36	.47	4.8	83	N	77	9.3	85
JT100SS	2.6	3.2	50	.48	5.4	103	N	65	12.8	71
JT101SS	1.7	1.5	28	.51	4.6	123	3	50	5.7	63
JT104SS	1.5	1.4	24	.48	4.2	133	N	54	5.6	65
JT107SS	3.3	2.5	45	.49	5.6	125	N	81	11.8	70
JT108SS	1.9	4.5	86	.48	13	193	N	87	20.8	82
JT109SS	2.3	4.4	72	.65	9.3	191	N	87	15.8	65
JT111SS	2.9	2.5	84	.68	11	507	9	64	9.6	75
JT113SS	2.5	4	61	.47	7.2	104	N	81	18.4	67
JT114SS	1.6	1.4	27	1.21	4	190	N	83	4.3	69
JT115SS	1.3	1.9	31	.48	5.2	139	N	65	8.1	87
JT116SS	5.3	2.6	55	.63	8.4	233	N	61	11.1	107
JT117SS	1.7	1.7	28	.44	4.9	120	N	44	5.7	55
JT118SS	1.6	1.3	26	.45	3.2	204	N	44	5.4	85
JT120SS	2.3	2.7	59	.66	8.9	191	N	79	12.4	89
JT121SS	2.4	2.2	56	.62	7.7	192	N	71	9.7	76
JT122SS	2.4	2.1	95	.59	15	207	N	62	9	75
JT123SS	3.3	1.5	250	.43	31	400	N	43	9.6	68
JT124SS	2.8	2.8	43	.65	4.8	94	N	74	10.2	81
JT125SS	3.3	3.9	61	1.29	8	136	N	95	12.9	102
JT127SS	N	1.6	25	.58	3.5	139	N	42	5.3	115
JT129SS	3.6	2.9	36	1.29	3.5	172	N	74	10	122
JT130SS	2.4	2.8	67	1.21	4.8	181	N	58	7.5	100
JT132SS	2.1	3.1	57	.92	5.5	157	N	63	12.7	109
JT133SS	3.1	2.4	52	1.56	7	191	N	76	8.1	138
JT134SS	5.5	3.6	100	.5	15	86	N	114	19.6	89
JT135SS	5.1	4.3	84	1.59	8.9	161	N	93	13.2	115
JT136SS	2	2.4	46	.6	5.6	103	N	59	8.6	84
JT137SS	3.5	3	69	.84	9.7	147	N	82	11.3	85
JT138SS	3.8	3.1	79	.89	8	188	N	77	12.7	94
JT139SS	2.6	2.6	55	.75	7.4	156	N	77	10.5	80
JT141SS	3	1.5	31	.61	4.4	219	N	53	6.8	73
JT142SS	2.1	2.2	60	.62	7.7	188	N	55	7.8	104
JT143SS	N	1.9	36	.49	6.6	169	N	51	5.8	98
JT144SS	N	1.1	33	.33	6.8	92	N	41	5.3	97
JT145SS	2.9	1	100	.52	9.5	94	N	41	6.2	100
JT147SS	2.9	2	43	.56	4.5	71	N	38	5.4	120
JT148SS	3.3	1.3	41	.56	4.4	104	N	39	5.6	110

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	LATITUDE	LONGITUDE	AG PPM ICP	AL PCT ICP	AS PPM INAA	AU PPB INAA	BA PPM INAA	BE PPM ICP	BI PPM ICP
JT149SS	34 4 36	116 16 27	N	5.71	2.9	4	650	N	N
JT150SS	34 4 32	116 21 30	N	7.2	1.2	N	700	N	N
JT151SS	34 4 31	116 22 7	N	7.91	N	N	630	N	6
JT152SS	34 4 8	116 23 10	N	6.18	3.6	N	680	N	N
JT153SS	33 58 20	116 26 36	N	6.25	N	N	700	N	N
JT154SS	33 58 2	116 26 13	N	6.55	N	N	500	N	N
JT155SS	33 56 0	116 23 13	N	5.92	N	N	510	N	N
JT156SS	33 55 17	116 20 17	N	6.33	2	4	840	N	N
JT157SS	33 54 54	116 19 14	N	6.51	N	N	660	N	N
JT158SS	33 53 34	116 16 13	N	6.7	N	11	600	N	N
JT160SS	33 53 14	116 14 58	N	6.74	1.8	N	810	N	N
JT161SS	33 51 36	116 11 57	N	6.58	N	N	850	N	N
JT162SS	33 50 9	116 7 42	N	7.17	N	N	620	N	N
JT163SS	33 50 14	116 7 46	N	6.72	3.7	N	590	N	N
JT164SS	33 46 5	116 5 56	N	5.99	3.5	2	770	N	N
JT165SS	33 46 4	116 4 27	N	6.6	5.6	N	730	N	N
JT166SS	33 46 11	116 3 31	N	8.11	2.5	N	660	N	N
JT167SS	33 46 18	116 3 35	N	8.07	1	N	620	N	N
JT168SS	33 42 20	116 0 29	N	7.04	N	N	770	N	N
JT169SS	33 42 22	116 0 19	N	6.09	3.6	N	860	N	N
JT170SS	33 42 49	115 32 57	N	6	3.1	N	330	2	N
JT171SS	33 42 51	115 34 58	N	6.33	2.6	N	770	2	N
JT172SS	33 42 51	115 35 50	N	6.97	5.7	34	1,100	N	N
JT173SS	33 42 56	115 30 55	N	6.66	3.4	N	760	2	N
JT174SS	33 43 45	115 29 48	N	3.83	2.3	N	580	N	N
JT175SS	33 45 25	115 28 58	N	5.71	4.6	13	590	N	N
JT176SS	33 47 1	115 32 45	N	6.09	6.8	5	850	N	N
JT177SS	33 47 15	115 32 47	N	5.21	4.1	15	570	N	N
JT178SS	33 46 38	115 28 59	N	6.45	3.8	N	910	N	N
JT179SS	33 47 35	115 27 24	N	5.49	4.4	N	510	N	N
JT180SS	33 49 14	115 29 50	N	5.44	3.1	N	560	N	N
JT181SS	33 49 29	115 29 52	N	5.23	5.2	N	450	N	N
JT182SS	34 4 33	116 24 50	N	6.27	2	9	680	N	N
JT183SS	34 4 6	116 28 48	N	6.65	N	N	630	N	N
JT184SS	34 7 10	116 15 17	N	7.42	1.9	12	900	N	N
JT185SL	34 7 9	116 15 24	N	7.8	1.5	9	810	N	N
JT186SL	34 6 47	116 15 26	N	4.97	3	3	850	N	N
JT187SL	34 7 18	116 15 13	N	7.26	N	N	860	N	N
JT188SS	34 7 0	116 15 26	N	7.71	2.3	8	850	N	N
JT189SL	34 7 9	116 15 29	N	4.58	N	N	1,100	N	N
JT192SL	33 48 0	115 45 48	N	6.34	2.3	N	970	N	N
JT193SS	33 48 0	115 45 49	N	6.37	2	7	430	N	N
JT306SS	33 55 2	116 0 48	N	3.78	N	2	840	N	N
JT309SS	33 56 19	115 53 59	N	6.19	5	90	780	N	N
JT310SS	33 48 17	115 48 45	N	6.44	3.5	N	650	N	N
JT311SS	33 48 4	115 49 3	N	5.67	5.9	3	730	N	N
JT312SS	33 56 8	115 43 55	N	6.33	3.7	N	550	N	N
JT313SS	33 56 5	115 43 58	N	6.17	6.6	N	770	N	N
JT314SS	33 54 49	115 55 43	N	4.65	3.1	12	860	N	N
JT317SS	34 1 52	116 8 3	N	6.96	2.6	222	480	N	N
CD016SS	33 45 33	116 5 27	N	6.47	3.3	N	580	N	N
CD530SL	34 6 13	116 10 11	N	8.24	2.8	N	830	N	N
CD531SL	34 6 9	116 10 4	N	8.21	3.7	N	610	N	N
CD532SS	34 6 6	116 9 58	N	8.55	3.3	N	610	N	N
JT318SS	34 0 1	115 25 44	N	7.67	3.1	4,410	750	N	N
JT321SS	33 59 42	115 24 9	N	8.11	1.8	N	580	N	N
JT328SS	33 42 54	115 48 24	N	7.7	N	N	490	2	N
JT348SS	33 55 7	115 40 7	N	6.62	3.7	N	590	2	N
JT350SS	33 55 11	115 39 19	N	5.86	3	N	490	N	N
JT353SS	33 57 43	115 42 33	N	6.37	2.4	N	510	N	N

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	BR PPM INAA	CA PCT ICP	CD PPM ICP	CE PPM INAA	CO PPM INAA	CR PPM INAA	CS PPM INAA	CU PPM ICP	EU PPM INAA	FE PCT INAA
JT149SS	N	2.26	N	260	16	79	3	45	2.4	8.95
JT150SS	N	3.16	N	160	17	44	2	27	2.5	6.45
JT151SS	N	3.53	N	320	18	78	2	33	3.3	8.19
JT152SS	N	3.08	N	270	26	120	1	38	3.8	9.09
JT153SS	N	3.48	N	280	26	120	N	37	3.4	10.1
JT154SS	N	3.57	N	110	17	98	1	30	1.9	5.64
JT155SS	N	3.29	N	320	21	110	N	29	3.6	10.5
JT156SS	N	3.2	N	350	17	79	2	34	3.2	6.71
JT157SS	N	3.16	N	230	15	45	N	24	2.9	5.78
JT158SS	N	3.61	N	370	17	74	1	34	3.7	7.69
JT160SS	N	2.58	N	300	13	70	2	23	3.1	5.78
JT161SS	N	3	N	280	18	58	2	22	3.5	8.19
JT162SS	N	2.35	N	220	12	49	2	23	2	5.97
JT163SS	N	2.89	N	230	18	75	2	35	2.7	6.17
JT164SS	N	2.92	N	270	15	56	1	22	3	7.86
JT165SS	N	3.21	N	320	17	61	2	35	3	6.73
JT166SS	N	4.2	N	210	12	32	3	23	3	5.11
JT167SS	N	3.43	N	170	15	57	2	26	2.2	5.67
JT168SS	N	3.01	N	170	13	48	4	23	3.2	4.9
JT169SS	N	2.89	N	370	12	39	3	16	4.7	8.72
JT170SS	N	2.09	N	150	7	35	2	13	1.6	6.8
JT171SS	N	2.29	N	130	8	36	3	16	1.6	3.19
JT172SS	N	2.63	N	280	12	56	3	17	3.4	5.72
JT173SS	N	2.32	N	90	7	33	2	13	1.4	3.57
JT174SS	N	2.54	N	230	10	41	3	17	2.4	5.57
JT175SS	N	2.37	N	320	12	59	N	20	2.7	9.42
JT176SS	N	2.14	N	160	10	50	3	22	2.1	4.78
JT177SS	N	2.75	N	300	25	180	N	28	3.9	10.8
JT178SS	N	2.4	N	160	11	67	3	24	2.4	4.86
JT179SS	N	2.73	N	210	14	83	2	18	2.7	6.52
JT180SS	N	2.48	N	280	17	130	2	38	2.6	7.9
JT181SS	N	2.43	N	240	25	110	2	36	2.7	16.6
JT182SS	N	3.36	N	300	26	170	1	42	3.5	8.15
JT183SS	N	6.59	N	420	18	84	2	97	4.8	7.72
JT184SS	N	2.19	N	130	6	23	3	12	1.5	2.76
JT185SL	N	2.3	N	170	9	45	3	18	1.8	4.29
JT186SL	N	3.87	N	180	6	20	3	26	1.6	3.35
JT187SL	N	2.2	N	190	7	22	3	14	1.7	3.64
JT188SS	N	2.29	N	140	7	24	3	16	1.5	3.11
JT189SL	N	2.31	N	210	10	33	5	17	1.9	4.01
JT192SL	N	2.3	N	120	12	47	3	23	1.8	4.67
JT193SS	N	2.6	N	180	13	52	2	30	2.1	9.15
JT306SS	N	2.3	N	140	12	52	1	13	2.4	4.7
JT309SS	N	2.79	N	200	20	95	N	30	2.2	8.5
JT310SS	N	1.97	N	200	13	79	3	29	2.4	5.42
JT311SS	N	2.55	N	480	17	100	N	30	3.7	10
JT312SS	N	2.46	N	170	18	65	2	34	2.1	6.84
JT313SS	N	2.52	N	300	19	99	N	26	3.4	8.37
JT314SS	N	2.82	N	270	19	110	2	29	2.9	6.75
JT317SS	N	3.7	N	180	20	82	2	51	2.3	5.64
CD016SS	N	3.28	N	230	17	56	3	30	2.6	6.49
CD530SL	N	1.89	N	120	11	40	3	20	1.8	3.83
CD531SL	N	1.99	N	130	7	33	4	19	1.3	3.09
CD532SS	N	2.08	N	210	6	11	3	18	1.7	3.14
JT318SS	N	2.46	N	380	7	15	2	8	2.1	3.24
JT321SS	N	2.69	N	100	7	24	3	10	1.3	2.42
JT328SS	N	2.87	N	230	10	38	3	15	1.9	3.96
JT348SS	2.7	3.01	.6	190	12	54	2	18	1.9	6.35
JT350SS	N	3.12	N	160	26	68	1	27	1.9	11.1
JT353SS	N	3.16	.7	170	17	79	1	30	2	9.64

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	HF PPM INAA	K PCT ICP	LA PPM INAA	LU PPM INAA	MG PCT ICP	MN PPM ICP	MO PPM ICP	NA PCT INAA	ND PPM INAA
JT149SS	28	1.52	150	1.59	1.34	1,372	N	1.53	95
JT150SS	17	1.91	80	.91	1.55	927	N	2.35	63
JT151SS	47	2.05	170	2.07	1.88	1,114	3	2.18	140
JT152SS	34	.63	160	1.89	2.16	1,248	N	1.85	120
JT153SS	38	1.15	160	1.68	2.24	1,248	N	1.78	120
JT154SS	14	.85	65	.6	2.24	1,082	N	1.87	49
JT155SS	55	.97	200	1.66	1.92	1,194	N	1.83	130
JT156SS	36	1.73	200	1.27	1.65	971	N	2.03	140
JT157SS	25	.76	140	1.28	1.67	1,007	N	1.98	94
JT158SS	43	1.74	200	2.04	1.77	1,042	N	1.87	160
JT160SS	37	2.03	160	1.99	1.17	813	N	2.67	110
JT161SS	25	1.19	160	1.42	1.44	969	N	2.58	110
JT162SS	26	1.82	120	1.08	.67	865	3	2.02	78
JT163SS	18	1.81	120	1.09	1.74	892	N	1.73	87
JT164SS	24	1.23	170	1.01	1.52	957	N	2.02	120
JT165SS	23	1.71	150	1.17	1.76	936	N	1.75	120
JT166SS	16	1.61	120	.74	1.81	819	3	2.07	76
JT167SS	17	2.22	86	1	1.9	808	N	1.81	59
JT168SS	16	1.1	100	.91	1.53	754	N	2.16	76
JT169SS	35	1.03	220	1.47	1.13	746	N	2.28	160
JT170SS	24	1.58	75	1.82	.67	1,804	N	2.28	47
JT171SS	19	1.79	73	1.36	.96	962	N	2.47	36
JT172SS	48	2.07	140	2.31	1.14	1,018	N	2.86	100
JT173SS	18	1.69	52	1.53	.81	1,299	N	2.99	27
JT174SS	43	1.44	130	1.86	.72	423	N	2.42	83
JT175SS	110	1.92	190	2.91	.99	1,323	2	2.1	100
JT176SS	24	2.1	90	1.39	1.2	919	N	1.82	51
JT177SS	120	1.6	140	2.43	1.47	1,244	N	1.89	110
JT178SS	22	2.26	89	1.41	1.29	962	N	2.12	51
JT179SS	53	1.78	110	1.73	1.26	1,200	N	1.75	89
JT180SS	36	1.65	150	2.26	1.34	831	2	1.86	110
JT181SS	37	1.59	120	1.7	1.18	924	N	1.8	81
JT182SS	33	1.91	170	1.97	2.56	1,334	N	1.54	130
JT183SS	56	.51	230	2.16	3.28	1,171	N	2	160
JT184SS	9	2.11	81	.66	.78	680	N	2.9	45
JT185SL	12	2.25	110	.86	1.21	931	N	2.65	53
JT186SL	13	1.47	120	.8	1.18	785	N	2.69	55
JT187SL	12	2.14	120	.8	.87	842	N	2.96	58
JT188SS	10	2.24	93	.71	.84	769	N	3.18	44
JT189SL	14	1.72	130	1.15	.75	563	N	2.78	62
JT192SL	21	1.99	67	1.09	1.43	848	N	1.94	39
JT193SS	34	1.79	89	1.3	1.35	1,143	N	1.77	55
JT306SS	15	1.4	75	1.16	.6	717	N	2.11	51
JT309SS	20	1.74	100	1.46	1.69	973	N	1.74	80
JT310SS	29	2.14	110	1.35	1.4	1,151	N	1.75	82
JT311SS	110	1.71	260	2.88	1.35	1,904	N	1.3	210
JT312SS	25	1.79	88	1.17	1.38	1,123	N	1.37	61
JT313SS	33	1.78	160	2.3	1.25	1,326	N	2.16	120
JT314SS	42	1.74	140	2.36	1.03	555	3	1.57	110
JT317SS	23	1.48	98	1.43	2.09	1,485	7	2.38	62
CD016SS	21	2.07	150	1.12	1.72	979	N	1.73	81
CD530SL	12	2.09	69	.75	1.31	875	N	2.58	45
CD531SL	10	2.51	81	.69	1.15	907	N	2.24	48
CD532SS	14	2.35	170	.86	.88	854	3	2.64	100
JT318SS	13	2.17	210	1.87	.53	597	N	3.01	140
JT321SS	9	1.99	54	.58	.69	539	N	3.09	40
JT328SS	30	2.5	110	1.62	1.07	851	N	2.44	80
JT348SS	20	2.14	99	1.47	1.02	701	N	1.97	81
JT350SS	20	1.63	86	1.12	1.07	1,103	N	1.57	63
JT353SS	26	1.86	86	1.19	1.17	1,100	N	1.9	66

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	NI PPM ICP	P PCT ICP	PB PPM ICP	RB PPM INAA	SB PPM INAA	SC PPM INAA	SE PPM INAA	SM PPM INAA	SR PPM ICP
JT149SS	20	.179	11	100	N	18	N	17	249
JT150SS	15	.168	14	130	N	17	N	11	444
JT151SS	26	.262	15	84	.6	25	N	25	354
JT152SS	43	.289	6	110	.4	26	7	21	275
JT153SS	64	.302	17	95	N	26	N	20	317
JT154SS	34	.238	12	91	.3	18	N	8.2	378
JT155SS	37	.271	12	65	.3	21	N	22	328
JT156SS	24	.32	16	72	N	19	N	23	365
JT157SS	16	.238	13	87	N	16	N	15	371
JT158SS	21	.292	52	89	.7	22	N	29	335
JT160SS	16	.166	11	92	N	17	N	23	318
JT161SS	24	.21	13	120	N	19	N	18	381
JT162SS	9	.162	N	110	.3	14	N	14	473
JT163SS	29	.196	13	120	.4	18	N	15	328
JT164SS	14	.204	12	110	.4	15	N	18	318
JT165SS	21	.222	17	120	.4	18	N	19	308
JT166SS	17	.223	21	120	.4	13	N	14	428
JT167SS	24	.142	11	100	.4	16	N	11	367
JT168SS	13	.187	20	150	.6	13	N	12	367
JT169SS	10	.221	17	110	.5	12	N	23	362
JT170SS	8	.148	23	110	.5	8.9	N	11	276
JT171SS	14	.101	24	110	.5	10	N	9.4	269
JT172SS	14	.167	26	130	.7	15	N	19	356
JT173SS	10	.114	20	120	.4	8.5	N	8.1	301
JT174SS	21	.072	13	85	.5	13	N	15	207
JT175SS	15	.135	31	71	.5	14	N	17	234
JT176SS	18	.113	25	110	.5	14	N	13	243
JT177SS	32	.111	19	79	.7	21	N	20	251
JT178SS	21	.114	26	120	.6	15	N	13	261
JT179SS	21	.118	15	59	.6	17	N	17	268
JT180SS	26	.096	34	87	.7	17	N	24	262
JT181SS	21	.095	27	100	.6	17	N	15	270
JT182SS	57	.313	21	82	.4	29	N	28	264
JT183SS	59	.044	5	67	N	31	N	29	193
JT184SS	9	.091	24	160	.2	7.7	N	7.5	484
JT185SL	14	.127	23	140	.6	11	3	11	459
JT186SL	24	.094	17	100	.4	8.6	N	10	338
JT187SL	9	.102	22	130	.3	8.9	N	11	448
JT188SS	8	.11	25	150	.3	8.4	N	8.4	498
JT189SL	13	.065	23	170	.5	12	N	13	191
JT192SL	20	.135	20	120	.4	16	N	9.4	287
JT193SS	16	.128	24	86	.5	16	N	11	328
JT306SS	11	.056	18	82	N	17	N	12	251
JT309SS	29	.108	18	85	.4	19	N	15	337
JT310SS	25	.104	21	87	.7	19	N	18	235
JT311SS	26	.287	23	99	N	26	N	45	212
JT312SS	30	.117	23	64	.5	18	N	12	285
JT313SS	22	.138	23	110	N	24	N	24	273
JT314SS	27	.067	16	67	.4	27	N	21	217
JT317SS	37	.208	192	80	.4	23	N	15	288
CD016SS	25	.131	14	62	.6	19	N	17	273
CD530SL	19	.089	32	150	1.5	14	N	8.6	298
CD531SL	16	.117	32	88	9.4	9.9	N	10	318
CD532SS	61	.125	38	110	.4	8.7	N	14	360
JT318SS	9	.077	30	77	.8	6.7	N	25	409
JT321SS	9	.077	27	92	.6	7.4	N	7.6	458
JT328SS	18	.104	30	130	.3	17	N	16	227
JT348SS	21	.1	23	100	.4	11	N	13	284
JT350SS	28	.094	23	53	.3	12	4	12	294
JT353SS	22	.107	28	65	.3	14	N	13	295

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	TA PPM INAA	TB PPM INAA	TH PPM INAA	TI PCT ICP	U PPM INAA	V PPM ICP	W PPM INAA	Y PPM ICP	YB PPM INAA	ZN PPM ICP
JT149SS	3.4	2.2	71	.67	8.6	138	N	39	9.4	93
JT150SS	1.7	1.9	27	.61	4.8	141	N	42	6.4	97
JT151SS	1.7	3.1	38	.79	6.7	170	N	95	12	132
JT152SS	2.1	3.3	47	.75	6.2	210	N	80	12.7	122
JT153SS	N	3	57	.72	5	243	N	84	11.1	123
JT154SS	1.3	1.1	23	.61	2.9	182	N	46	3.6	106
JT155SS	3.2	3	66	.78	6.1	252	N	80	10.7	113
JT156SS	1.1	2.4	54	.62	5.2	144	N	65	7.3	102
JT157SS	2.1	2.1	38	.6	5.5	159	N	73	8.2	106
JT158SS	3.3	3.4	61	.76	8.7	167	N	89	12.2	121
JT160SS	1.7	2.9	43	.52	6.5	101	N	63	11.9	73
JT161SS	N	2.2	46	.63	5.7	181	N	68	9.3	104
JT162SS	4.3	2.1	55	.47	5.6	74	N	39	7	50
JT163SS	2	2.3	38	.63	3.5	139	N	46	7.6	98
JT164SS	1.6	2.3	66	.56	5.4	209	N	65	6.8	102
JT165SS	2.4	2.8	65	.6	5.2	136	N	60	7.8	106
JT166SS	3.7	1.7	39	.92	7.6	158	N	68	5.1	161
JT167SS	1.8	2.1	27	.6	3.1	140	N	55	6.7	98
JT168SS	3.8	1.5	35	.63	7.1	107	N	46	5.8	122
JT169SS	5.9	N	84	.72	12	172	N	70	8.9	100
JT170SS	5	2.3	75	.37	9.2	118	N	60	11.6	58
JT171SS	3.6	1.7	40	.33	6.1	68	N	41	8.3	67
JT172SS	4.5	2.9	75	.54	8.9	97	N	65	14.9	78
JT173SS	4.4	1.7	56	.3	10	66	N	50	9.1	58
JT174SS	5.4	N	77	.25	14	57	N	17	12.3	39
JT175SS	5.9	3.3	100	.71	17	133	N	80	15.1	105
JT176SS	3.6	2.1	35	.45	4.9	77	N	42	9	84
JT177SS	4.8	3.1	39	.71	7.5	175	N	51	15.2	85
JT178SS	2.9	1.8	28	.42	5	76	N	42	7.9	92
JT179SS	3.7	2.4	38	.64	6.5	116	N	55	9.7	79
JT180SS	2.7	3.4	63	.47	9.8	161	N	60	13.4	65
JT181SS	2.3	3	88	.48	9.5	349	N	43	10.8	71
JT182SS	2.1	3.7	44	.76	4.5	174	N	73	11.7	127
JT183SS	2.8	3.8	40	.52	5.2	243	N	19	13.5	75
JT184SS	N	N	33	.3	5.2	41	N	18	3.7	93
JT185SL	1.8	1.6	49	.46	6.7	73	N	27	5.3	120
JT186SL	3.1	1.5	50	.58	5.2	147	N	24	4.6	60
JT187SL	2.7	1.6	52	.4	5	56	N	24	5	107
JT188SS	N	1.2	38	.34	4	46	N	23	4.2	102
JT189SL	3.4	2.6	93	.28	8.5	58	N	22	6.7	48
JT192SL	1.7	1.5	30	.43	5.8	103	N	38	6.4	96
JT193SS	2.4	2.3	56	.56	6.8	227	N	56	7.9	97
JT306SS	2.3	1.8	41	.53	6.5	128	N	27	7.2	63
JT309SS	1.5	2.3	48	.59	4.8	206	N	48	9.7	83
JT310SS	1.9	2.3	42	.59	4.6	90	N	41	8.9	117
JT311SS	4.8	5	100	1.43	11	151	N	98	17.1	145
JT312SS	1.8	2.3	33	.74	4.5	170	N	47	7.6	88
JT313SS	3.2	3.9	65	.88	7.8	132	N	64	13.9	87
JT314SS	3.1	2.9	53	.32	7	80	13	20	14.9	59
JT317SS	2.1	2.5	45	.8	5.6	173	N	71	9.5	112
CD016SS	1.6	2.7	44	.8	5	150	N	68	7.5	119
CD530SL	N	1.9	34	.35	4.9	72	N	25	4.7	122
CD531SL	N	N	47	.36	4.4	68	N	27	4	113
CD532SS	2.5	1.8	76	.36	4.8	64	N	31	4.3	109
JT318SS	N	4.5	83	.33	5.5	52	14	44	10	59
JT321SS	.7	1	19	.33	2.8	47	N	28	3.2	63
JT328SS	1.7	2.4	47	.52	6.1	74	N	90	9.4	100
JT348SS	2.1	2.4	37	.51	4	164	15	73	8.1	71
JT350SS	2.1	1.8	41	.94	5.4	308	N	66	6.2	76
JT353SS	1.4	1.6	41	.83	5.7	263	N	71	6.4	77

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	LATITUDE	LONGITUDE	AG PPM ICP	AL PCT ICP	AS PPM INAA	AU PPB INAA	BA PPM INAA	BE PPM ICP	BI PPM ICP
JT355SS	33 57 52	115 43 34	.6	6.18	6.2	5	510	2	N
JT356SS	33 57 48	115 43 59	N	6.66	5.5	N	420	N	N
JT357SS	33 56 40	115 52 32	N	7.3	2.2	5	590	N	N
JT359SS	33 57 0	115 51 18	N	7.32	2.7	4	530	N	N
JT361SS	33 56 59	115 49 53	N	6.72	3.7	N	560	N	N
JT368SS	34 0 31	115 38 3	N	7.22	1.6	N	560	N	N
JT369SS	34 0 30	115 37 23	N	7.1	6.8	N	520	N	N
JT378SS	33 57 19	115 40 23	N	6.81	3.9	27	700	N	N
JT379SS	33 57 18	115 40 58	.6	7.23	3.7	4	530	N	N
JT381SS	34 0 5	115 36 4	N	6.44	5.6	5	640	2	N
JT382SS	33 54 55	115 35 32	.8	5.57	25	104	490	N	N
JT385SS	33 55 43	115 27 32	N	6.73	4.7	4	530	N	N
JT386SS	33 57 19	115 23 49	N	7.73	5.3	6	600	N	N
JT387SS	33 53 17	115 22 47	.4	7.28	3.3	N	580	N	N
JT388SS	33 53 52	115 23 12	N	6.68	3.8	2	610	N	N
JT389SS	33 55 1	115 23 59	N	7.45	2.8	5	600	N	N
JT390SS	33 54 0	115 25 4	.8	6.03	4.1	N	460	N	N
JT391SS	33 53 28	115 25 39	N	6.36	3.2	5	480	N	N
JT392SS	33 53 9	115 26 5	N	5.47	4.9	N	480	N	N
JT393SS	33 52 44	115 26 26	.5	5.3	4.2	N	490	N	N
JT394SS	33 52 27	115 26 41	N	5.74	4.9	N	480	N	N
JT395SS	33 49 58	115 26 59	N	5.32	4.3	N	520	N	N
JT396SS	33 49 48	115 25 16	N	6.33	5.6	N	550	N	N
JT397SS	33 46 35	115 24 14	N	6.75	2.7	N	570	2	N
JT398SS	33 47 23	115 24 0	N	6.31	2	3	510	N	N
JT399SS	33 48 54	115 25 4	N	6.33	4.1	N	560	N	N
JT400SS	33 50 27	115 24 23	.4	4.73	3.4	N	400	N	N
JT401SS	33 51 1	115 23 38	N	6.81	2	6	610	N	N
JT402SS	33 51 14	115 23 22	.4	6.24	2.5	N	560	2	N
EM001	33 47 23	115 30 17	.5	5.62	3.9	5	380	2	N
EM002	33 47 15	115 31 30	N	7.27	4.1	15	820	2	N
EM003	33 46 40	115 32 10	N	6.98	4.6	3	850	2	N
EM004	33 48 10	115 32 40	N	7.09	N	12	570	2	N
EM005	33 47 32	115 32 55	N	6.84	N	10	960	2	N
EM006	33 47 31	115 33 0	N	6.47	3	16	700	1	N
EM007	33 46 50	115 33 5	N	6.21	4.1	N	770	1	N
EM008	33 46 10	115 32 45	N	6.87	2.5	N	780	9	N
EM009	33 46 25	115 34 53	N	6.33	5.2	N	1,100	3	N
EM011	33 45 40	115 36 50	N	6.82	4.3	N	820	4	N
EM013	33 48 25	115 37 10	N	7.19	N	N	780	2	N
EM014	33 46 45	115 36 55	N	6.85	4.6	9	1,000	4	N
EM015	33 51 10	115 39 57	.9	7.38	3.2	6	910	2	N
EM016	33 51 3	115 39 15	N	7.14	3.5	3	640	2	N
EM018	33 50 45	115 37 35	N	7.3	3.9	N	770	2	N
EM020	33 50 50	115 34 50	N	6.13	6.1	N	680	8	N
EM022	33 50 20	115 35 28	N	6.97	3.6	6	720	2	N
EM023	33 50 35	115 35 30	N	6.96	4.9	5	850	2	N
EM024	33 49 55	115 36 12	N	6.85	6.3	5	1,100	3	N
EM025	33 50 25	115 36 15	.6	7.59	3.4	N	880	2	N
EM026	33 49 45	115 37 35	N	7.48	4.7	N	810	3	N
EM027	33 48 0	115 33 37	N	5.64	N	N	650	1	N
EM028	33 47 55	115 33 45	N	5.64	3.9	6	480	1	N
EM031	33 49 14	115 37 44	N	6.4	2.7	3	550	2	5
EM033	33 49 0	115 39 23	N	6.52	N	N	850	8	N
EM034	33 48 5	115 39 50	N	5.84	N	N	600	8	N
EM035	33 46 35	115 39 40	N	7.6	5.6	6	940	2	N
EM036	33 46 27	115 39 25	N	7.53	3.3	N	680	3	N
EM037	33 45 0	115 38 41	N	6.84	2.7	10	870	3	N
EM038	33 45 35	115 33 43	.6	7.69	3	N	370	3	N
EM039	33 48 5	115 29 10	N	6.9	N	N	850	2	N

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	BR PPM INAA	CA PCT ICP	CD PPM ICP	CE PPM INAA	CO PPM INAA	CR PPM INAA	CS PPM INAA	CU PPM ICP	EU PPM INAA	FE PCT INAA
JT355SS	N	3.08	.6	210	23	120	2	34	2.2	12.4
JT356SS	N	3.88	.5	170	21	80	2	35	2.3	8.52
JT357SS	N	4.3	.9	210	23	110	N	29	2.5	7.49
JT359SS	N	3.85	.5	210	20	81	1	31	2.4	6.43
JT361SS	N	2.92	N	180	19	81	2	21	2.1	6.16
JT368SS	N	3.02	.6	170	13	44	1	26	2.1	5.51
JT369SS	N	2.76	N	150	11	33	1	30	1.9	5.21
JT378SS	N	3.26	N	170	15	57	1	66	2.1	5.71
JT379SS	N	3.2	.5	180	16	58	1	34	2.2	6.42
JT381SS	N	2.78	.9	210	14	72	N	37	2.2	10.3
JT382SS	N	4.07	.5	150	23	48	1	236	2	9.69
JT385SS	N	3.28	N	180	15	47	2	24	2.3	6.07
JT386SS	N	3.07	N	210	7	28	2	15	2.1	3.83
JT387SS	N	3.47	N	210	9	35	2	15	3	4.69
JT388SS	N	2.88	N	200	11	40	N	14	2.4	7.43
JT389SS	N	3.35	N	140	7	26	1	10	1.9	3.17
JT390SS	N	3.58	N	350	15	71	N	22	3.1	10
JT391SS	N	4.13	N	210	15	59	N	22	2.3	8.2
JT392SS	N	3.89	N	180	21	56	1	35	2.3	13.9
JT393SS	N	3.59	N	180	26	61	1	45	2.4	15.7
JT394SS	N	3.6	N	170	26	56	N	49	2.2	15
JT395SS	N	3.41	N	200	32	90	1	53	2.3	18.8
JT396SS	N	3.54	N	200	26	68	2	38	2.4	10.6
JT397SS	2.3	2.94	N	210	10	46	1	15	2.5	4.83
JT398SS	N	2.96	N	230	12	59	1	16	2.5	5.73
JT399SS	N	3.2	N	210	18	75	2	29	2.3	6.48
JT400SS	N	2.96	N	160	27	63	1	45	2.1	18.5
JT401SS	N	3.36	N	160	15	37	N	26	2.1	6.49
JT402SS	N	3.43	N	290	15	61	N	25	3.2	8.42
EM001	N	3.69	N	200	28	230	N	36	3.4	9.8
EM002	N	3.71	N	280	11	43	2	23	5.4	9.7
EM003	N	2.9	N	260	13	48	1	30	4.2	10.1
EM004	N	3.36	.4	320	17	130	2	24	4.2	6.87
EM005	N	3.33	N	310	22	120	2	32	5	8.14
EM006	N	3.52	.5	140	25	150	1	35	2.5	6.95
EM007	N	3.17	N	150	16	66	2	28	4	8.8
EM008	N	2.22	N	300	14	62	2	22	3.5	15.3
EM009	N	1.85	N	570	13	55	4	20	3.7	4.72
EM011	N	2	N	530	10	41	5	18	3	4.56
EM013	N	2.3	N	360	15	79	3	23	2.9	6.52
EM014	N	2.4	N	370	12	63	3	26	5.1	8.27
EM015	N	3.07	.6	210	14	70	3	25	2.9	4.83
EM016	N	2.92	.4	97	11	48	2	24	1.5	3.61
EM018	N	2.89	N	310	14	60	3	23	2.1	4.43
EM020	N	4.36	.5	260	55	180	3	54	3.9	16.3
EM022	N	3.04	N	240	21	88	2	30	3.1	8.02
EM023	N	3.16	N	160	30	84	3	39	3	13.3
EM024	N	3	N	570	26	130	2	32	4.4	9.27
EM025	N	3.77	N	200	25	98	2	36	3.3	7.97
EM026	N	2.48	N	320	12	52	3	22	2.7	4.87
EM027	N	4.17	.4	190	48	340	N	41	3.3	12.1
EM028	N	3.65	.5	120	30	210	2	34	1.7	6.94
EM031	N	3.53	N	460	21	120	1	38	3.8	12.6
EM033	N	2.72	N	260	17	100	2	51	3.8	16.4
EM034	N	2.73	N	350	24	130	2	42	4	24
EM035	N	2.3	N	200	17	71	4	28	2.8	7.1
EM036	N	2.4	N	190	14	59	2	22	2.3	4.44
EM037	N	1.64	.7	300	10	44	4	22	2.5	3.98
EM038	N	2.04	N	250	7	31	4	15	1.4	4.07
EM039	N	2.94	N	210	24	71	2	28	3.1	10.8

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	HF PPM INAA	K PCT ICP	LA PPM INAA	LU PPM INAA	MG PCT ICP	MN PPM ICP	MO PPM ICP	NA PCT INAA	ND PPM INAA
JT355SS	41	1.77	120	1.25	1.25	1,186	N	1.8	75
JT356SS	24	1.79	92	1.01	1.37	1,050	N	1.85	63
JT357SS	33	1.6	110	1.65	1.8	1,134	N	2.24	77
JT359SS	23	1.63	110	1.72	1.81	1,047	N	2.16	84
JT361SS	27	1.63	97	1.1	1.38	925	N	1.77	67
JT368SS	21	2.09	85	1.06	1.02	783	N	2.2	61
JT369SS	18	2.26	76	.95	.9	800	N	2.21	54
JT378SS	20	1.86	89	1.28	1.14	1,153	2	1.94	66
JT379SS	22	1.96	95	1.27	1.31	1,153	N	1.8	67
JT381SS	30	2	120	1.03	.87	1,093	N	1.98	73
JT382SS	21	1.66	73	1.07	1.47	915	4	1.56	55
JT385SS	21	1.85	93	1.28	1.02	992	N	2.12	68
JT386SS	15	1.94	120	.91	.75	762	N	2.74	73
JT387SS	21	1.97	110	1	.78	671	N	2.46	78
JT388SS	28	1.87	110	1.09	.66	888	N	2.35	73
JT389SS	14	2.01	70	.75	.69	639	N	2.69	46
JT390SS	49	1.61	190	2.08	1	1,539	N	1.84	140
JT391SS	34	1.69	110	1.42	1.16	1,140	N	1.96	81
JT392SS	37	1.43	91	1.36	1.12	1,262	N	1.67	67
JT393SS	42	1.43	93	1.44	1.27	1,189	N	1.58	68
JT394SS	38	1.55	86	1.36	1.31	1,312	N	1.74	64
JT395SS	36	1.26	110	1.25	1.32	1,241	N	1.56	72
JT396SS	41	1.63	110	1.36	1.37	1,018	N	1.79	73
JT397SS	33	2.27	110	1.48	.91	1,117	N	2.25	78
JT398SS	45	2.06	130	1.39	.94	1,237	N	2.28	85
JT399SS	23	1.76	110	1.46	1.36	862	N	1.99	80
JT400SS	26	1.29	84	1.22	1.07	1,068	2	1.45	63
JT401SS	19	1.88	87	.96	1.02	920	N	2.27	62
JT402SS	37	1.64	160	1.79	.85	1,336	N	2.13	110
EM001	130	1.4	110	2.3	2.48	1,535	N	1.5	90
EM002	170	2.6	150	2.57	1.03	2,422	N	2.76	140
EM003	65	2.43	140	2.21	1.12	1,979	N	2.26	110
EM004	84	1.95	160	2.19	1.73	1,224	N	2.28	140
EM005	91	2.26	170	2.25	1.72	1,445	N	2.42	130
EM006	18	1.9	72	1.14	2.2	978	N	1.45	48
EM007	34	1.86	77	1.19	1.55	1,782	N	1.6	70
EM008	68	1.9	160	2.65	.81	1,295	N	2.3	120
EM009	23	2.34	300	4.13	.99	748	N	2.24	270
EM011	66	3.36	230	5.24	.63	800	N	2.09	150
EM013	22	2.26	190	3.22	1.36	764	N	2.01	170
EM014	170	2.75	170	7.01	.85	849	N	2.18	120
EM015	20	2.42	100	1.94	1.37	740	N	2.19	84
EM016	10	2.39	55	.86	1.46	678	N	1.47	41
EM018	19	2.39	150	2.33	1.38	707	N	2.24	110
EM020	22	1.17	120	1.66	2.32	1,231	N	1.76	97
EM022	21	2.18	130	2.07	1.67	862	N	1.94	98
EM023	24	1.8	83	1.54	1.71	959	N	2.04	69
EM024	23	2.18	300	4.65	1.67	951	N	2.28	250
EM025	17	2.01	100	1.65	2.06	954	N	2.31	97
EM026	19	2.56	160	2.93	1.29	706	N	2.37	140
EM027	24	1.5	90	1.68	3.11	1,087	N	1.38	85
EM028	10	1.4	64	.78	2.57	896	N	1.12	45
EM031	56	1.61	260	2.82	1.8	1,361	N	1.53	190
EM033	40	1.77	150	1.9	1.16	942	3	2.12	110
EM034	53	1.65	190	3.99	1.32	1,814	N	1.36	160
EM035	21	2.52	97	2.11	1.35	1,173	N	1.87	90
EM036	28	2.68	88	1.81	1.08	885	N	1.7	63
EM037	21	2.75	150	2.79	.99	683	N	1.92	110
EM038	19	2.31	140	1.49	.88	1,400	N	2.39	76
EM039	24	1.76	100	1.56	1.57	824	N	2.67	91

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	NI PPM ICP	P PCT ICP	PB PPM ICP	RB PPM INAA	SB PPM INAA	SC PPM INAA	SE PPM INAA	SM PPM INAA	SR PPM ICP
JT355SS	23	.128	32	80	.6	19	N	15	277
JT356SS	24	.154	23	63	.7	20	N	13	312
JT357SS	34	.137	22	45	.4	25	N	17	390
JT359SS	37	.115	22	63	.3	19	N	18	293
JT361SS	26	.122	20	68	.5	18	N	13	266
JT368SS	16	.108	26	63	.5	13	N	13	319
JT369SS	14	.088	27	65	.5	11	N	11	316
JT378SS	21	.136	70	64	.4	15	5	14	290
JT379SS	24	.131	32	66	.4	17	N	15	283
JT381SS	17	.111	25	72	.7	15	N	15	273
JT382SS	18	.106	451	56	1.6	12	N	12	250
JT385SS	19	.125	24	63	.4	15	N	15	309
JT386SS	11	.137	28	72	.6	8.1	5	12	416
JT387SS	13	.161	28	48	.4	10	N	16	412
JT388SS	13	.098	23	59	.3	9.2	N	12	357
JT389SS	11	.107	24	61	.3	8.3	N	10	398
JT390SS	19	.128	20	N	N	15	N	22	319
JT391SS	20	.122	16	45	.4	15	N	17	345
JT392SS	17	.111	25	49	.5	15	6	14	285
JT393SS	20	.124	22	N	.5	18	N	11	263
JT394SS	20	.13	23	59	.6	17	8	13	282
JT395SS	24	.117	19	41	.6	21	N	14	262
JT396SS	20	.125	26	59	.6	19	N	14	304
JT397SS	19	.111	26	76	.3	13	7	16	264
JT398SS	18	.114	21	66	.4	16	N	16	256
JT399SS	26	.096	29	83	.4	16	9	16	276
JT400SS	19	.098	25	64	.5	12	5	14	232
JT401SS	16	.109	24	55	.4	13	4	10	344
JT402SS	17	.122	23	N	.5	14	7	18	327
EM001	53	.094	15	54	.8	24	15	15	244
EM002	20	.144	12	83	.6	20	N	20	280
EM003	17	.187	23	78	.4	18	N	19	267
EM004	38	.108	19	58	.2	20	N	22	303
EM005	35	.1	23	96	.6	22	N	22	288
EM006	45	.092	22	51	.6	20	N	10	289
EM007	27	.219	16	67	.6	23	N	13	266
EM008	14	.157	23	98	.3	13	N	19	251
EM009	17	.099	44	140	.6	15	5	45	197
EM011	13	.098	54	180	.5	14	N	34	211
EM013	26	.104	28	110	.5	15	N	28	261
EM014	18	.117	46	170	.8	19	N	30	238
EM015	25	.115	21	120	.5	15	N	15	304
EM016	21	.088	28	81	.6	11	N	7.3	276
EM018	23	.096	32	110	.7	17	N	23	266
EM020	38	.137	7	78	N	37	N	20	388
EM022	29	.121	31	100	.5	19	N	19	304
EM023	26	.128	25	120	.4	22	N	13	339
EM024	34	.122	37	160	.5	20	N	44	318
EM025	34	.133	27	73	.9	23	N	16	364
EM026	20	.091	32	150	.6	15	N	23	263
EM027	68	.09	24	64	.8	32	4	14	241
EM028	53	.094	14	72	.7	23	N	8.7	271
EM031	29	.137	22	52	.4	21	N	33	310
EM033	24	.134	24	97	.6	16	N	19	297
EM034	29	.159	5	63	.3	19	15	27	225
EM035	25	.083	21	180	.4	19	N	14	227
EM036	25	.064	27	120	.6	16	N	14	211
EM037	17	.084	32	160	.5	14	N	21	218
EM038	13	.103	38	100	.5	11	N	15	214
EM039	23	.138	16	68	.8	19	N	15	288

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	TA PPM INAA	TB PPM INAA	TH PPM INAA	TI PCT ICP	U PPM INAA	V PPM ICP	W PPM INAA	Y PPM ICP	YB PPM INAA	ZN PPM ICP
JT355SS	1.6	1.8	55	.85	7.1	275	N	78	8.9	89
JT356SS	1.3	1.8	36	.79	5.4	233	N	74	7.1	75
JT357SS	1.5	2.6	44	.85	6.3	199	N	103	12	72
JT359SS	1.4	2.8	43	.8	4.6	164	N	74	10.1	81
JT361SS	1.8	1.9	32	.65	4	134	4	66	8.1	70
JT368SS	1.4	1.8	30	.59	4.1	117	N	61	6.3	63
JT369SS	1.9	1.6	26	.6	3.3	114	N	61	5.4	57
JT378SS	N	2	33	.85	3.7	179	N	86	6.9	81
JT379SS	2	2.3	39	.87	5.1	169	N	83	7.1	88
JT381SS	1.5	2.2	43	.81	5	177	N	73	7.8	65
JT382SS	1.3	1.6	37	.55	5.9	185	6	62	6	131
JT385SS	2.1	2.2	39	.76	4.2	172	N	84	7.6	71
JT386SS	1.4	2.3	36	.56	3.7	79	N	54	5.4	67
JT387SS	1.3	N	34	.82	4.5	109	N	66	5.5	59
JT388SS	2.6	2.1	35	.8	5.1	195	N	66	5.7	56
JT389SS	1.5	1.3	20	.62	3.2	104	3	61	4.1	43
JT390SS	2.9	3.7	78	1.37	6.7	218	N	101	11.3	85
JT391SS	2.5	2.2	51	.96	6.5	214	N	78	7.9	73
JT392SS	1.6	1.9	71	.83	9.7	382	N	73	7.2	81
JT393SS	2.1	2.2	58	.73	8.3	377	N	65	7.4	87
JT394SS	1.2	2	57	.8	7.2	420	N	67	7.4	95
JT395SS	1.2	2.2	80	.76	11	482	N	79	8.7	90
JT396SS	2.2	2	58	.67	9	208	5	76	9.3	73
JT397SS	2.7	2	33	.67	4.1	86	N	85	8.5	73
JT398SS	2.7	2.1	35	.75	4.9	91	N	86	9.9	80
JT399SS	1.6	2.3	45	.55	7.8	153	N	77	8.8	65
JT400SS	1.6	2.2	57	.7	7.9	502	5	73	6.9	95
JT401SS	2	1.6	28	.66	4.6	174	N	64	5.3	64
JT402SS	2.7	3.1	48	1.14	5.7	220	8	108	10	67
EM001	4.4	2.9	32	.98	6	181	N	61	14.5	91
EM002	5.8	3	18	1.29	2.2	60	N	77	15.6	158
EM003	6	2.7	53	1.17	9.5	101	N	76	14.2	149
EM004	3.9	3.8	34	.69	4.3	93	N	74	14.8	94
EM005	4.2	3.3	33	.84	5.2	114	N	71	14.8	113
EM006	2.1	1.7	20	.56	4.2	144	N	39	7.8	76
EM007	2.7	2.1	16	.92	3.6	79	N	47	7.8	128
EM008	7.1	3.8	160	.73	20	192	N	67	18	88
EM009	4.6	7.5	120	.37	8.9	56	N	81	28.6	84
EM011	3.8	7	160	.5	14	64	18	173	39.4	79
EM013	2.8	4.9	73	.47	9.4	106	N	75	22.8	81
EM014	7.5	7.6	76	.65	17	81	46	216	51.7	106
EM015	3.7	2.9	40	.52	4.4	93	N	80	13.9	88
EM016	1.6	1.3	19	.43	2.8	82	N	39	5.7	86
EM018	2	4.1	59	.44	7.2	87	N	76	18	81
EM020	2.5	3.2	69	1.02	11	413	N	86	12.3	81
EM022	3.8	3.3	46	.61	7	172	10	71	14.3	83
EM023	2.6	2.3	45	.63	8.1	236	N	51	10.5	86
EM024	3.5	8.1	110	.7	12	155	N	90	31.2	88
EM025	2	2.1	36	.71	5.4	180	N	58	11	91
EM026	2.5	4.1	73	.43	7.5	85	N	76	19.8	79
EM027	3.2	2.1	29	.55	5.8	210	N	40	11	76
EM028	.8	1.5	18	.47	3	154	N	32	5.7	65
EM031	4	4.7	86	1	9.7	280	N	123	19.5	115
EM033	5.1	3.1	120	.66	13	283	N	67	13.1	103
EM034	1.6	4.7	74	1.05	11	364	11	105	27.2	133
EM035	2.4	2.5	38	.55	4	114	N	66	13.5	111
EM036	2.3	3.2	29	.54	3.7	79	6	93	14.2	91
EM037	3.1	4	64	.39	7.2	65	14	65	19.9	88
EM038	4.7	2.2	66	.59	6.8	70	N	53	10.8	83
EM039	3.5	2.6	79	.6	11	193	16	55	10.2	68

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	LATITUDE	LONGITUDE	AG PPM ICP	AL PCT ICP	AS PPM INAA	AU PPB INAA	BA PPM INAA	BE PPM ICP	BI PPM ICP
EM040	33 48 17	115 30 5	N	7.17	2	2	490	2	7
EM041	33 48 55	115 30 15	N	6.92	4.2	4	660	2	N
EM042	33 48 45	115 31 45	N	6.35	N	12	610	2	N
EM044	33 49 20	115 30 45	.8	7.61	N	N	560	2	N
EM045	33 49 25	115 32 55	N	7.75	N	8	710	2	N
EM046	33 49 27	115 32 44	N	7.48	2.1	N	650	1	N
EM052	33 49 21	115 39 30	N	6.26	2.7	110	690	2	N
EM053	33 48 18	115 38 24	N	7.5	N	3	780	2	N
EM054	33 47 50	115 38 9	N	6.97	3.7	6	970	3	N
EM055	33 47 57	115 37 40	N	6.96	5.1	2,310	740	3	N
EM056	33 47 18	115 37 0	N	6.69	4.1	17	1,100	3	N
EM057	33 46 55	115 35 59	.6	7.07	N	8	930	4	N
EM058	33 47 55	115 34 56	N	6.26	3.6	N	560	2	N
EM059	33 45 10	115 38 25	N	7.21	4.8	2	750	3	N
EM060	33 45 18	115 38 53	N	6.17	5.8	N	720	3	5
EM061	33 45 35	115 36 2	N	7.09	5.2	N	750	2	N
EM062	33 47 38	115 28 30	N	6.29	N	N	610	8	N
EM063	33 47 0	115 30 20	.5	6.35	N	N	890	2	N
EM064	33 46 28	115 31 0	N	7.64	N	N	730	2	N
EM065	33 45 0	115 34 18	N	7.98	2.3	N	310	3	N
EM066	33 43 58	115 36 15	N	8.02	2.3	N	430	2	6
EM069	33 43 46	115 37 0	.5	7.73	N	6	720	2	N
EM070	33 43 40	115 37 0	N	6.88	2.6	5	560	2	6
EM071	33 42 45	115 37 4	N	7.33	N	8	810	2	N
EM072	33 43 20	115 35 40	N	7.03	N	3	740	3	N
EM073	33 43 5	115 35 55	N	7.49	5.9	6	880	2	N
EM074	33 43 50	115 34 45	.5	7.45	N	N	450	3	N
EM075	33 43 15	115 34 10	N	8.2	2.8	N	390	3	N
EM077	33 42 55	115 31 40	N	5.88	4.1	5	640	9	N
EM078	33 43 15	115 31 5	N	8.05	N	N	460	3	N
EM079	33 44 5	115 31 0	N	7.26	1.6	N	380	2	N
EM080	33 44 23	115 30 45	N	8.09	N	9	540	3	N
EM081	33 45 35	115 29 45	N	7.77	N	N	500	2	N
EM082	33 45 43	115 29 40	N	7.73	N	N	540	2	N

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	BR PPM INAA	CA PCT ICP	CD PPM ICP	CE PPM INAA	CO PPM INAA	CR PPM INAA	CS PPM INAA	CU PPM ICP	EU PPM INAA	FE PCT INAA
EM040	N	2.68	N	111	13	63	1	16	1.5	3.34
EM041	N	2.87	N	190	17	77	2	22	2.3	6.19
EM042	N	3.37	N	190	26	150	2	32	2.8	6
EM044	N	2.55	.6	190	14	67	2	22	1.9	4.99
EM045	N	2.61	.5	270	20	120	2	26	2.7	6.28
EM046	N	2.83	N	130	14	64	2	20	2.2	4.64
EM052	N	2.61	N	320	13	74	2	33	3.5	11.4
EM053	N	2.99	N	240	17	91	2	33	3.6	10.9
EM054	N	2.14	.5	220	12	61	3	24	3.2	4.61
EM055	N	2.42	N	220	12	51	3	24	3	4.93
EM056	N	2.07	N	350	12	51	4	20	4.6	5.56
EM057	N	2.14	N	840	12	42	4	21	3.3	4.21
EM058	N	3.09	N	227	16	55	2	21	2	5.23
EM059	N	1.7	.4	200	10	44	4	22	2.2	4
EM060	N	1.46	N	720	11	17	4	20	3	4.58
EM061	N	2.35	N	240	12	67	3	22	3.1	9.12
EM062	N	3.09	N	210	40	93	N	33	2.6	17.2
EM063	N	3.57	.6	220	14	49	2	24	5.3	9.13
EM064	N	3.31	N	260	14	49	2	26	4.3	8.29
EM065	N	2.26	N	125	7	24	2	9	1	2.44
EM066	N	2.43	N	240	14	34	2	19	2.5	5.67
EM069	N	3.01	N	300	26	55	N	31	3.2	9.87
EM070	N	3.79	N	310	38	130	N	47	2.2	11.8
EM071	N	3.01	N	180	16	61	2	29	2.4	6.56
EM072	N	2.34	N	280	10	44	2	20	3.4	11.3
EM073	N	3	N	290	30	100	4	32	3	11.1
EM074	N	2.11	N	160	6	27	2	13	1.6	5.01
EM075	N	2.73	N	120	7	22	3	11	1.4	4.72
EM077	N	2.5	N	230	17	83	3	17	3	21.3
EM078	N	2.51	N	98	12	31	3	12	1.6	3.43
EM079	N	2.33	N	270	10	34	2	18	1.9	8.71
EM080	N	2.24	N	320	10	39	4	16	2.1	4.89
EM081	N	2.31	N	230	10	32	2	15	2.4	5.41
EM082	N	2.51	.4	220	12	21	N	18	2.3	5.45

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sampl e	HF PPM INAA	K PCT ICP	LA PPM INAA	LU PPM INAA	MG PCT ICP	MN PPM ICP	MO PPM ICP	NA PCT INAA	ND PPM INAA
EM040	8	2.05	57.1	.84	1.48	643	N	2.87	44
EM041	17	1.88	110	1.18	1.41	796	N	2.86	79
EM042	16	1.8	98	1.6	2.2	746	N	2.13	82
EM044	15	2.28	93	1.09	1.35	723	N	2.35	70
EM045	32	2.24	120	1.85	1.54	808	N	2.51	110
EM046	15	1.92	67	1.01	1.51	718	N	1.93	49
EM052	85	1.97	180	2.72	1.07	1,031	N	1.45	130
EM053	24	2.01	130	1.65	1.44	897	N	2.42	95
EM054	42	2.77	96	2.92	1.08	737	N	1.94	89
EM055	33	2.67	100	2.46	1.07	724	N	1.97	77
EM056	54	2.84	150	4.81	.75	723	N	2.47	120
EM057	24	2.77	440	3.81	.99	778	3	1.8	330
EM058	11	1.89	115	1.25	1.05	788	N	1.47	90
EM059	17	2.9	100	1.99	1.14	734	N	1.79	83
EM060	40	2.65	370	4.93	.72	756	2	1.46	270
EM061	45	2.49	110	2.33	1.1	1,019	N	2.01	97
EM062	34	1.63	100	1.27	1.56	892	N	1.98	68
EM063	75	2.27	110	2.03	1.11	2,005	N	2.27	110
EM064	64	2.37	140	2.34	1.33	1,789	N	2.53	110
EM065	9	2.37	74.9	.99	.83	1,137	N	3.26	43
EM066	30	2.42	120	1.55	1.24	936	N	2.6	79
EM069	37	2.36	140	1.91	1.5	1,195	N	2.76	110
EM070	27	1.72	150	1.79	1.91	1,034	N	1.74	110
EM071	21	2.28	98	1.34	1.58	885	N	2.05	68
EM072	57	2.08	150	2.61	.84	1,377	N	2.39	110
EM073	38	2.13	140	1.75	1.53	949	N	2.66	100
EM074	17	2.03	88	1.49	.69	1,481	N	2.35	54
EM075	16	1.79	62	1.34	.64	1,543	N	2.57	41
EM077	43	1.43	110	2.72	.71	1,846	N	2.2	85
EM078	17	1.95	51.1	1.18	.79	1,414	N	3.83	47
EM079	35	1.81	160	1.96	.67	2,627	N	2.52	79
EM080	26	2.18	170	1.49	.94	1,130	N	2.98	96
EM081	41	2.45	129	1.38	.85	976	N	3.24	88
EM082	41	2.99	114	1.18	1	1,139	N	2.77	67

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	NI PPM ICP	P PCT ICP	PB PPM ICP	RB PPM INAA	SB PPM INAA	SC PPM INAA	SE PPM INAA	SM PPM INAA	SR PPM ICP
EM040	27	.071	14	70	.3	15	N	9.6	259
EM041	21	.095	22	100	N	17	N	12	256
EM042	46	.083	21	130	.4	22	N	14	258
EM044	23	.097	26	100	.5	16	N	13	287
EM045	28	.107	31	110	.6	21	N	20	300
EM046	26	.098	22	77	.5	15	N	9.5	350
EM052	21	.123	19	76	.4	14	N	25	253
EM053	22	.114	21	140	N	18	3	17	356
EM054	24	.093	34	140	.6	15	N	16	234
EM055	18	.099	35	160	.7	14	N	16	229
EM056	15	.102	36	160	.9	17	N	25	216
EM057	20	.124	43	110	N	14	N	63	206
EM058	21	.103	27	91	.9	13	N	18	221
EM059	18	.089	25	160	.8	13	N	15	229
EM060	14	.1	39	110	.4	12	N	52	179
EM061	20	.135	28	100	.7	14	N	16	268
EM062	26	.154	22	73	.9	21	N	14	287
EM063	17	.2	8	56	.9	26	N	18	244
EM064	22	.163	17	48	.4	19	9	19	287
EM065	14	.08	29	120	N	9.6	N	9.5	216
EM066	17	.14	26	110	.5	15	N	16	335
EM069	22	.173	18	130	.7	23	N	20	379
EM070	46	.15	14	62	.6	20	N	21	394
EM071	24	.117	16	120	.4	15	N	12	313
EM072	13	.156	31	110	.5	12	N	19	284
EM073	27	.144	15	79	.6	21	N	20	344
EM074	11	.096	21	91	.3	7.9	N	11	252
EM075	8	.212	15	80	.3	8.5	N	10	358
EM077	10	.233	13	110	.5	13	N	18	285
EM078	12	.115	29	97	.6	10	N	8.7	318
EM079	11	.159	27	81	.3	10	N	17	261
EM080	14	.116	28	110	.6	13	N	18	250
EM081	13	.081	16	83	N	11	N	16	238
EM082	16	.11	18	100	N	13	N	15	237

Table 4. Results of analysis of stream-sediment and soil samples collected during the current study, and results of re-analysis of selected stream-sediment samples from the Eagle Mountains WSA, Joshua Tree National Park, and vicinity --Continued

Sample	TA PPM INAA	TB PPM INAA	TH PPM INAA	TI PCT ICP	U PPM INAA	V PPM ICP	W PPM INAA	Y PPM ICP	YB PPM INAA	ZN PPM ICP
EM040	1.6	1.5	25	.32	3.8	67	N	43	5.3	58
EM041	2.4	1.7	63	.42	8.9	100	N	39	7.4	62
EM042	1.8	2.6	31	.43	4.9	112	N	49	11.5	68
EM044	.8	2.5	39	.42	4.1	93	N	51	8.2	67
EM045	2.5	3.3	51	.48	6.9	98	N	73	14.2	82
EM046	2.2	1.7	25	.53	3.8	119	N	47	6.9	67
EM052	3.4	4.3	78	.8	12	179	9	123	18.4	110
EM053	2.8	3.2	70	.59	7.5	168	N	50	11.2	106
EM054	4.1	3.8	35	.46	6.8	71	N	121	20.8	100
EM055	3	3.2	36	.42	7.8	63	15	90	17.5	105
EM056	7.1	5.8	56	.48	9.8	55	22	168	35.7	93
EM057	3.9	10	170	.43	13	81	25	122	28.1	83
EM058	2	2.5	39	.36	6.5	79	11	36	8	70
EM059	2.5	3	45	.4	5.2	66	N	63	13.9	92
EM060	2.2	9.2	150	.41	12	58	13	89	35.4	80
EM061	4.2	N	96	.61	11	126	14	81	15.7	101
EM062	2.4	2.7	180	.68	21	350	N	49	8.6	79
EM063	5.6	2.9	22	1.05	1.5	54	N	64	12.7	154
EM064	5.7	3	48	1	8	105	N	89	14.5	122
EM065	2.5	1.2	36	.29	3.7	41	N	32	6.4	69
EM066	2.8	2.4	64	.56	8.3	93	N	63	10.9	84
EM069	4.1	3.3	79	.84	12	185	N	77	13.8	90
EM070	2.1	3.3	86	.81	9.5	333	14	65	13.3	75
EM071	3.2	1.8	49	.57	6.3	121	N	42	9.2	84
EM072	6.3	3.1	150	.75	17	163	N	91	17.3	85
EM073	3.3	3.2	81	.6	11	174	18	62	12.9	87
EM074	5.8	2.1	69	.44	7.2	88	N	54	9.7	61
EM075	5.9	2.3	67	.4	8.9	104	N	86	10.1	56
EM077	9.8	3.4	320	.54	42	278	N	111	17.7	80
EM078	4.7	1.5	49	.32	7.3	55	N	51	7.1	65
EM079	5.5	3.1	160	.81	18	130	N	94	13.6	77
EM080	5.1	2.9	71	.57	8.6	78	N	65	11.3	79
EM081	3.1	2	38	.55	5.9	80	N	65	8.3	67
EM082	3.3	2.3	38	.65	6.2	97	N	74	7.9	96

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity

[PPM, parts per million; PCT, percent; ICP-P, inductively coupled plasma-atomic emission spectrometry (ICP-AES) partial extraction method; ICP-T, ICP-AES hot extraction method; N, not detected, or less than the lower limit of determination]

Sample	LATITUDE	LONGITUDE	AG PPM ICP-P	AL PCT ICP-T	AS PPM ICP-P	AU PPM ICP-T	BA PPM ICP-T	BE PPM ICP-T	BI PPM ICP-P
CX020S	34 4 30	115 20 0	N	8.254	2	N	703	2	N
CX022S	34 0 20	115 42 25	N	7.523	5	N	787	2	N
CX023S	34 3 30	115 37 50	N	7.279	3	N	630	2	N
CX024S	34 3 40	115 37 40	N	8.024	2	N	746	2	N
CX025S	34 4 20	115 34 0	N	7.628	2	N	706	2	N
CX026S	34 3 20	115 34 40	N	7.372	2	N	688	2	N
CX027S	34 5 5	115 32 20	N	8.082	2	N	712	2	N
CX028S	34 3 35	115 30 30	N	7.968	2	N	726	2	N
CX029S	34 3 25	115 30 25	N	8.247	2	N	729	2	N
CX030S	34 1 30	115 28 45	N	8.379	1	N	724	2	N
CX031S	34 6 55	115 31 30	N	8.263	2	N	689	2	N
CX032S	34 6 15	115 28 0	N	8.262	2	N	751	2	N
CX033S	34 5 30	115 25 15	N	8.668	2	N	814	2	N
CX034S	34 5 15	115 24 10	N	8.948	2	N	687	3	N
CX035S	34 4 55	115 22 10	N	8.47	1	N	757	3	N
CX036S	34 3 20	115 20 50	N	8.414	N	N	685	2	N
CX037S	34 3 0	115 19 55	N	9.197	2	N	678	2	N
CX038	33 53 59	115 21 18	N	8.181	N	N	738	2	N
CX039	33 53 21	115 20 56	N	8.628	N	N	738	2	N
CX041	33 51 44	115 20 46	N	8.019	N	N	884	2	N
CX042	33 51 15	115 20 41	N	8.808	N	N	1,010	2	N
CX043	33 50 46	115 20 9	N	7.588	1	N	855	1	N
CX044	33 50 3	115 19 32	N	7.662	1	N	869	1	N
CX045	33 49 42	115 18 36	N	7.929	3	N	870	1	N
CX046	33 49 8	115 17 37	N	7.73	1	N	878	1	N
CX047	33 49 48	115 16 16	N	7.476	N	N	907	2	N
CX048	33 49 29	115 16 11	N	7.927	1	N	913	2	N
CX049	33 50 33	115 16 14	N	7.854	N	N	885	1	N
CX050	33 50 59	115 17 13	N	7.792	3	N	827	1	N
CX051	33 50 28	115 17 7	N	7.711	1	N	923	2	N
CX052	33 50 35	115 17 34	N	7.84	2	N	831	1	N
CX053	33 51 36	115 16 59	N	7.97	3	N	816	1	N
CX054	33 52 3	115 16 25	N	7.642	2	N	895	1	N
CX055	33 52 8	115 18 20	N	8.032	2	N	969	1	N
CX056	33 52 8	115 19 5	N	7.417	5	N	934	1	N
CX057	33 52 11	115 19 1	N	7.613	2	N	904	1	N
CX058	33 52 48	115 18 9	N	7.673	1	N	771	2	N
CX059	33 53 38	115 18 33	N	8.428	N	N	733	2	N
CX060	33 54 34	115 18 22	N	8.02	N	N	619	2	N
CX061	33 54 20	115 19 49	N	7.851	N	N	609	2	N
CX062	33 54 29	115 19 51	N	8.354	N	N	818	2	N
CX063	33 55 48	115 17 55	N	7.786	2	N	688	2	N
CX064	33 56 38	115 18 25	N	8.818	1	N	928	2	N
CX065	33 56 59	115 18 50	N	8.424	3	N	977	2	N
CX066	33 56 54	115 16 59	N	6.503	9	N	861	1	N
CX067	33 57 50	115 18 22	N	7.236	2	N	866	2	N
CX068	33 58 40	115 19 27	N	8.101	3	N	905	3	N
CX069	33 59 20	115 18 10	N	9.252	1	N	723	3	N
CX070	34 0 16	115 18 17	N	8.308	N	N	862	3	N
CX071	34 0 24	115 20 13	N	8.199	14	N	738	2	N
CX072	34 1 23	115 18 49	N	8.176	N	N	594	2	N
CX073	34 1 32	115 19 19	N	8.536	2	N	574	2	N
CX074	34 2 10	115 20 21	N	9.763	1	N	683	3	N
CX075	34 2 2	115 21 19	N	8.969	N	N	432	3	N
CX076	34 3 17	115 22 20	N	9.791	1	N	682	3	N
CX077	34 4 29	115 23 48	N	8.405	1	N	807	2	N
CX078	34 4 9	115 23 52	N	8.261	N	N	841	2	N
CX079	34 4 9	115 37 40	N	6.153	1	N	1,050	1	N
CX080	34 5 2	115 37 27	N	6.072	N	N	1,020	1	N
CX081	34 5 5	115 36 55	N	6.49	1	N	952	2	N

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity--Continued

Sample	CA PCT ICP-T	CD PPM ICP-P	CE PPM ICP-T	CO PPM ICP-T	CR PPM ICP-T	CU PPM ICP-P	CU PPM ICP-T	EU PPM ICP-T	FE PCT ICP-T	GA PPM ICP-T	K PCT ICP-T
CX020S	2.324	.1	82	8	7	12.6	12	N	2.76	19	2.44
CX022S	3.445	.13	115	13	15	22	22	N	4.1	16	2.68
CX023S	3.053	.07	307	12	13	12.1	12	4	5.78	13	2.03
CX024S	2.454	.06	125	6	12	8.97	9	2	2.8	18	2.35
CX025S	2.52	.08	129	9	8	11.8	12	2	3.52	17	2.38
CX026S	2.621	.07	190	11	21	10.2	10	3	5.01	15	2.28
CX027S	2.467	.1	132	8	15	10.9	11	2	3.15	17	2.39
CX028S	2.471	.09	141	7	14	10.2	9	2	3.45	16	2.31
CX029S	2.485	.05	112	5	6	7.22	7	2	2.54	15	2.3
CX030S	2.606	.07	131	7	3	9.15	9	2	2.94	16	2.21
CX031S	2.758	.09	259	7	12	11.5	10	3	5.68	18	2.11
CX032S	2.561	.08	101	5	4	7.45	8	N	2.25	20	2.27
CX033S	2.536	.17	120	8	8	12.3	13	2	3.01	18	2.62
CX034S	2.609	.09	156	7	6	12.3	12	3	3.38	23	2.12
CX035S	2.389	.13	77	6	2	12.1	11	N	2.19	21	2.28
CX036S	2.365	.12	125	7	10	12	13	N	2.99	22	2.3
CX037S	2.749	.09	491	8	11	8.48	12	4	7.42	22	2.13
CX038	2.481	N	108	5	N	7.5	8	N	3.25	22	1.69
CX039	2.649	N	126	4	N	8.74	8	2	2.72	22	1.59
CX041	3.607	.24	58	11	15	18.4	20	N	3.29	18	2.53
CX042	4.078	.15	64	10	18	13.6	17	N	3.18	14	2.85
CX043	4.03	.19	53	9	11	12.1	15	N	2.97	18	2.51
CX044	4.322	.22	52	10	25	12.8	16	N	3.04	18	2.46
CX045	4.881	.09	60	9	18	15.7	18	N	3.16	16	2.33
CX046	4.807	.15	62	9	4	11.9	17	N	2.84	19	2.38
CX047	3.164	.14	59	8	8	13	16	N	2.61	18	2.59
CX048	3.768	.13	70	7	9	6.66	8	N	2.41	17	2.31
CX049	3.82	.17	55	10	4	12.9	17	N	3.19	17	2.44
CX050	4.527	.25	56	10	13	11.7	16	N	3.09	18	2.36
CX051	4.223	.18	58	10	14	12.9	18	N	3.1	17	2.47
CX052	4.282	.18	54	9	13	11	16	N	3.13	16	2.34
CX053	4.116	.24	58	10	11	11.8	13	N	3.2	17	2.51
CX054	4.191	.21	59	9	12	14.7	13	N	2.88	16	2.36
CX055	4.34	.24	63	11	26	16.3	19	N	3.17	18	2.53
CX056	4.495	.19	62	9	4	14.1	19	N	3.01	18	2.44
CX057	4.808	.2	65	8	9	21.4	20	N	2.97	15	2.3
CX058	2.385	N	87	4	N	12.6	14	N	3.83	20	1.63
CX059	2.415	N	99	4	N	8.2	9	N	2.72	20	1.62
CX060	2.825	N	191	9	7	9.24	9	3	8.55	20	1.35
CX061	2.57	N	124	7	4	6.56	7	2	6.04	19	1.47
CX062	2.515	N	86	5	N	6.76	7	N	2.75	22	1.99
CX063	2.669	.05	183	9	5	14.8	15	3	8.07	20	1.48
CX064	2.638	.05	92	4	N	11.8	13	N	1.84	24	2.01
CX065	2.559	.05	82	6	N	20.6	22	N	3.08	23	2.16
CX066	1.797	.11	69	8	4	10.7	13	N	4.21	17	2.08
CX067	2.172	.06	116	9	6	21	20	2	8	13	1.95
CX068	2.093	.05	51	2	N	5.94	6	N	1.62	19	2.37
CX069	2.161	N	42	2	N	7.21	6	N	1.39	21	2.04
CX070	1.749	N	68	3	N	13.9	17	N	2.94	22	2.61
CX071	1.872	.05	41	4	N	13.8	14	N	1.63	23	3.16
CX072	2.885	.06	205	6	N	24.4	29	3	3.92	20	2
CX073	3.192	.06	149	6	N	13.7	14	3	4.06	22	1.88
CX074	2.111	N	38	N	N	5.04	4	N	.85	22	2.02
CX075	2.079	N	53	N	N	1.94	N	N	1.92	23	1.54
CX076	2.038	N	39	N	N	3.75	3	N	1.17	21	1.83
CX077	1.95	N	69	N	N	2.44	3	N	1.79	17	2.23
CX078	1.747	.06	25	N	N	1.89	N	N	.75	20	2.32
CX079	1.272	N	38	N	N	2.78	3	N	.4	12	3.14
CX080	1.166	N	43	N	N	2.73	3	N	.48	11	2.94
CX081	1.722	N	85	6	2	6.35	6	N	1.52	13	2.76

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity--Continued

Sample	LA PPM ICP-T	LI PPM ICP-T	MG PCT ICP-T	MN PPM ICP-T	MO PPM ICP-P	NA PCT ICP-T	NB PPM ICP-T	ND PPM ICP-T	NI PPM ICP-T	P PCT ICP-T	PB PPM ICP-P	PB PPM ICP-T
CX020S	44	33	1.026	532	.6	2.473	21	41	15	.084	8	27
CX022S	59	22	1.268	566	1.4	1.965	22	51	17	.078	15	33
CX023S	165	9	.969	899	.9	2.269	29	155	17	.098	8	36
CX024S	64	10	.694	452	.5	2.579	27	61	11	.06	5	26
CX025S	70	15	.936	517	.6	2.408	23	66	14	.092	9	28
CX026S	97	11	.83	672	.8	2.337	30	92	15	.082	7	33
CX027S	68	17	.866	519	.6	2.466	30	63	14	.103	8	29
CX028S	75	17	.745	490	.5	2.554	28	68	11	.098	7	28
CX029S	59	13	.597	372	.4	2.71	25	52	9	.076	4	23
CX030S	72	13	.679	437	.5	2.703	26	63	10	.093	7	28
CX031S	145	18	.626	672	.6	2.716	33	118	11	.145	15	38
CX032S	55	17	.653	372	.4	2.863	24	52	10	.082	9	27
CX033S	65	31	1.071	576	.6	2.629	26	56	15	.1	12	32
CX034S	88	31	.857	605	.5	2.843	29	72	12	.12	10	32
CX035S	40	30	.785	463	.6	2.807	23	37	11	.09	10	26
CX036S	66	35	.876	679	.6	2.755	34	62	12	.119	11	30
CX037S	285	20	.642	1,260	.8	3.366	39	224	14	.15	8	42
CX038	65	18	.461	266	.2	3.122	18	46	5	.06	3	22
CX039	79	18	.439	263	.2	3.283	22	50	4	.066	5	22
CX041	31	45	1.311	636	.3	1.385	15	27	17	.077	10	23
CX042	32	41	1.202	587	.3	1.702	17	28	15	.061	6	23
CX043	27	49	1.134	542	.3	1.408	18	23	15	.062	6	21
CX044	27	60	1.158	556	.3	1.326	17	23	15	.061	6	21
CX045	32	39	1.176	569	.6	1.403	17	27	15	.059	15	24
CX046	31	32	1.093	517	.3	1.333	14	28	12	.051	7	19
CX047	30	29	1.053	531	.5	1.426	16	26	12	.052	13	30
CX048	37	25	.932	498	.4	1.585	17	34	11	.041	7	20
CX049	28	30	1.156	491	.2	1.406	14	24	14	.054	7	19
CX050	28	45	1.148	561	.3	1.386	13	27	15	.061	6	18
CX051	29	36	1.164	622	.4	1.486	16	27	15	.059	7	21
CX052	28	43	1.1	554	.3	1.451	17	26	15	.064	6	24
CX053	28	46	1.095	594	.6	1.417	14	26	17	.067	7	20
CX054	28	35	.996	506	.3	1.356	13	25	15	.057	5	18
CX055	30	48	1.228	697	.3	1.315	15	29	18	.065	8	20
CX056	33	35	1.063	540	.6	1.171	14	31	14	.06	5	21
CX057	35	32	.968	570	.4	1.395	16	30	13	.055	5	21
CX058	45	18	.357	244	.4	2.886	15	40	5	.045	3	19
CX059	58	16	.404	215	.2	3.319	19	38	4	.053	2	19
CX060	118	20	.508	372	1	3.032	6	78	8	.083	6	26
CX061	73	18	.42	289	.4	3.047	15	56	7	.068	5	24
CX062	51	24	.648	312	.2	3.108	19	39	5	.065	4	19
CX063	116	17	.473	347	.8	2.971	14	82	9	.081	22	32
CX064	51	25	.578	260	.6	3.336	23	47	4	.064	3	21
CX065	50	31	.6	299	.5	3.042	19	34	5	.058	8	27
CX066	38	23	.677	2,620	.4	1.158	14	32	12	.037	7	25
CX067	68	20	.406	482	1.4	2.441	9	48	10	.054	6	26
CX068	27	24	.313	323	.2	2.992	19	20	4	.03	4	25
CX069	22	29	.359	248	.2	3.564	21	18	4	.025	3	23
CX070	35	19	.331	312	.2	3.105	21	29	4	.03	5	28
CX071	21	31	.524	327	.2	2.782	19	18	4	.039	7	26
CX072	120	30	.696	401	.3	3.134	23	89	8	.045	4	29
CX073	80	27	.747	360	.3	3.183	24	65	8	.051	4	27
CX074	21	27	.24	213	N	3.906	22	15	N	.018	3	23
CX075	28	29	.231	296	.2	3.815	18	20	N	.022	3	22
CX076	20	33	.259	315	N	3.968	21	13	N	.021	5	25
CX077	41	22	.225	271	.1	3.215	21	26	N	.051	3	23
CX078	13	24	.217	169	N	3.306	18	N	N	.023	3	20
CX079	19	5	.126	60	.1	1.912	13	15	N	.015	4	18
CX080	24	5	.12	89	.1	1.932	13	13	N	.02	2	17
CX081	49	8	.321	212	.5	2	18	30	4	.037	4	20

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity--Continued

Sample	SB PPM ICP-P	SC PPM ICP-T	SR PPM ICP-T	TA PPM ICP-T	TH PPM ICP-T	TI PCT ICP-T	V PPM ICP-T	Y PPM ICP-T	YB PPM ICP-T	ZN PPM ICP-P	ZN PPM ICP-T
CX020S	N	9	421	N	12	.417	70	22	2	69.6	66
CX022S	N	12	410	N	29	.494	132	30	3	60.3	64
CX023S	N	14	348	N	63	.919	167	69	6	25.3	47
CX024S	N	9	384	N	22	.411	82	30	3	21.6	33
CX025S	N	11	364	N	28	.505	103	33	3	36.8	44
CX026S	N	11	356	N	40	.695	149	43	4	29.8	43
CX027S	N	10	390	N	23	.521	90	33	3	39.1	52
CX028S	N	8	428	N	25	.53	96	30	3	40.3	47
CX029S	N	7	442	N	17	.435	73	27	3	26	31
CX030S	N	8	415	N	24	.51	84	33	3	32.9	38
CX031S	N	8	436	N	53	.712	146	40	3	54.5	57
CX032S	N	7	479	N	18	.382	63	24	2	31.4	37
CX033S	N	10	450	N	20	.45	77	27	2	69.1	72
CX034S	N	9	474	N	32	.58	88	30	3	65.1	65
CX035S	N	7	464	N	13	.346	55	20	2	56.9	55
CX036S	N	9	447	N	22	.514	74	29	3	69.1	67
CX037S	N	10	533	N	110	.982	163	58	4	44	71
CX038	N	3	701	N	11	.413	89	11	N	55.5	53
CX039	N	4	713	N	12	.478	80	13	1	55.9	49
CX041	N	13	336	N	6	.269	99	23	2	84.8	80
CX042	N	12	410	N	7	.341	95	24	2	56.2	71
CX043	N	11	334	N	N	.331	87	21	2	59.5	64
CX044	1	12	331	N	N	.328	94	21	2	62.1	67
CX045	N	12	369	N	N	.359	98	22	2	50.4	64
CX046	N	11	354	N	N	.254	83	23	2	59	57
CX047	N	10	341	N	7	.271	75	21	2	59.2	58
CX048	N	10	357	N	7	.236	76	25	2	40.7	52
CX049	N	13	371	N	N	.223	98	20	2	69.5	63
CX050	N	12	363	N	N	.244	96	21	2	60.7	69
CX051	N	12	385	N	6	.303	96	22	2	62.9	66
CX052	N	12	386	N	N	.331	93	22	2	56.2	66
CX053	N	12	329	N	N	.227	96	20	2	66.6	71
CX054	N	11	363	N	N	.175	94	18	2	50	57
CX055	N	12	377	N	7	.198	101	21	2	68.8	75
CX056	N	11	383	N	6	.257	95	23	2	62.4	63
CX057	N	10	332	N	7	.344	92	20	2	63.2	59
CX058	N	3	601	N	7	.411	117	12	N	50	48
CX059	N	3	716	N	9	.381	79	10	N	54	48
CX060	N	4	647	N	21	.628	211	21	1	73.2	69
CX061	N	3	670	N	13	.503	160	14	N	54.9	55
CX062	N	4	677	N	8	.412	75	11	N	74.4	66
CX063	N	4	709	N	22	.642	240	18	1	73.8	69
CX064	N	4	777	N	9	.473	56	13	1	69.1	60
CX065	N	4	730	N	9	.375	86	9	N	76.2	64
CX066	N	10	216	N	12	.406	90	81	11	53.1	51
CX067	N	4	555	N	16	.434	210	15	1	57.1	57
CX068	N	3	491	N	7	.183	36	9	N	35.5	47
CX069	N	3	576	N	N	.262	31	7	N	64.4	52
CX070	N	3	498	N	9	.293	67	12	N	59.4	63
CX071	N	4	405	N	N	.287	42	8	N	77.7	67
CX072	N	7	496	N	29	.614	118	25	2	61.5	62
CX073	N	7	522	N	19	.617	135	23	2	54.3	58
CX074	N	2	565	N	N	.17	18	6	N	44.7	37
CX075	N	2	584	N	7	.181	30	6	N	51.8	42
CX076	N	3	598	N	N	.179	19	4	N	54.8	48
CX077	N	2	581	N	8	.243	41	13	1	32	39
CX078	N	N	580	N	N	.121	16	4	N	34.8	30
CX079	N	N	298	N	N	.067	12	7	N	4.84	9
CX080	N	N	290	N	N	.077	16	8	N	3.92	5
CX081	N	5	298	N	13	.283	51	19	2	10.2	11

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity--Continued

Sample	LATITUDE	LONGITUDE	AG PPM ICP-P	AL PCT ICP-T	AS PPM ICP-P	AU PPM ICP-T	BA PPM ICP-T	BE PPM ICP-T	BI PPM ICP-P
CX082	34 4 40	115 36 48	N	7.248	1	N	821	2	N
CX083	34 5 9	115 36 10	N	6.506	2	N	955	2	N
CX084	34 3 49	115 35 18	N	6.435	2	N	965	1	N
CX085	34 3 59	115 34 40	N	6.911	N	N	1,000	2	N
CX086	34 3 12	115 35 46	N	5.671	1	N	1,040	1	N
CX087	34 2 30	115 35 25	N	6.178	1	N	1,110	1	N
CX088	34 2 28	115 34 28	N	7.007	2	N	630	2	N
CX089	34 2 30	115 33 42	N	7.372	1	N	951	2	N
CX090	34 2 49	115 32 19	N	6.392	N	N	1,020	1	N
CX091	34 1 40	115 31 50	N	7.659	1	N	1,070	2	N
CX092	34 1 58	115 31 25	N	7.491	N	N	1,040	2	N
CX093	34 5 6	115 30 41	N	9.208	N	N	751	2	N
CX094	34 5 51	115 31 25	N	8.342	N	N	692	2	N
CX095	34 6 15	115 30 32	N	9.783	N	N	707	3	N
CX096	34 5 33	115 30 5	N	9.089	1	N	657	3	N
CX097	34 3 52	115 28 58	N	9.37	N	N	654	2	N
CX098	34 4 10	115 27 38	N	8.581	N	N	940	3	N
SH092	34 5 5	115 44 1	N	6.615	1	10	532	2	N
SH093	34 4 12	115 42 57	N	7.919	2	N	677	2	N
SH094	34 4 37	115 41 44	9.8	6.959	5	N	618	2	16
SH095	34 4 24	115 41 1	N	7.407	1	N	647	2	N
SH096	34 3 44	115 40 41	N	7.35	4	N	555	2	N
SH097	34 3 31	115 38 38	N	8	3	N	638	2	N
SH098	34 3 20	115 37 51	N	6.845	3	N	586	2	N
SH099	34 3 28	115 36 47	N	7.275	2	N	664	2	N
SH105	34 4 49	115 28 51	N	8.485	2	N	682	2	N
SH107	34 4 20	115 38 58	N	6.756	3	N	614	2	N
SH108	34 4 25	115 39 54	N	7.495	2	N	691	2	N
SH109	34 3 42	115 44 38	N	7.622	1	N	695	2	N
SH110	34 2 36	115 43 1	N	6.782	2	N	610	2	7
SH111	34 1 16	115 42 51	N	7.464	N	N	650	2	N
AB001SD	33 47 34	115 32 55	N	7.897	N	N	621	2	N
AB008SD	33 47 30	115 31 9	N	7.221	N	N	539	2	N
AB009SD	33 46 25	115 31 5	N	7.408	N	N	519	3	N
AB013SD	33 50 46	115 34 42	N	7.948	N	N	625	2	N
AB017SD	33 49 40	115 31 34	N	8.072	2	N	649	2	N
AC013SD	33 52 51	115 18 6	N	8.111	2	N	739	2	N
AC028SD	33 54 10	115 26 14	N	3.813	3	N	819	N	N
AC029SD	33 52 26	115 28 19	N	5.594	4	11	410	N	N
AC030SD	33 48 6	115 28 0	N	7.035	2	N	536	2	N
BA035SD	33 43 9	115 56 16	N	8.406	N	N	722	2	N
BB008SD	33 42 51	115 39 41	N	7.601	2	N	667	3	N
AA001SL	33 45 56	115 58 44	N	3.003	N	N	411	N	N
AA002SL	33 47 28	115 58 14	N	7.812	1	N	679	2	N
AA003SL	33 46 26	115 56 9	N	7.485	1	N	680	3	N
AA004SL	33 47 34	115 56 38	N	7.953	N	N	662	2	N
AB010SL	33 50 14	115 38 14	N	7.807	N	N	689	3	N
AB011SL	33 52 22	115 38 49	N	7.527	3	N	676	3	N
AB012SL	33 50 57	115 36 51	N	7.593	3	N	687	2	N
AB014SL	33 52 3	115 35 55	N	8.1	N	N	662	2	N
AB015SL	33 52 18	115 33 39	N	7.973	3	N	683	2	N
AB016SL	33 51 48	115 30 58	N	7.556	4	N	698	2	N
AC004SL	33 50 24	115 16 4	N	7.293	4	N	704	2	N
AC008SL	33 59 3	115 16 36	N	7.639	2	N	672	2	N
AC009SL	33 59 6	115 18 51	N	7.754	3	N	731	2	N
AC010SL	33 56 36	115 17 21	N	7.399	3	N	676	2	N
AC011SL	33 56 41	115 18 41	N	7.869	3	N	740	2	N
AC012SL	33 54 33	115 19 4	N	7.459	3	N	697	2	N
AC014SL	33 48 18	115 18 49	N	7.283	3	N	639	2	N
AC015SL	33 49 53	115 19 19	N	7.627	3	N	688	2	N

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity--Continued

Sample	CA PCT ICP-T	CD PPM ICP-P	CE PPM ICP-T	CO PPM ICP-T	CR PPM ICP-T	CU PPM ICP-P	CU PPM ICP-T	EU PPM ICP-T	FE PCT ICP-T	GA PPM ICP-T	K PCT ICP-T
CX082	1.831	.07	65	5	N	4.6	5	N	.97	16	2.67
CX083	2.103	N	129	23	N	8.22	8	N	2.15	13	2.86
CX084	1.581	.05	175	22	15	12.8	14	2	5.85	11	2.79
CX085	1.924	.06	140	12	10	13.1	14	N	5.73	14	2.7
CX086	1.036	N	51	N	N	3.93	3	N	.94	11	3.12
CX087	1.116	N	60	3	6	7.31	7	N	1.65	11	3.39
CX088	3.368	.06	109	9	N	8.59	9	N	1.55	16	2.06
CX089	2.1	N	92	19	6	29.3	29	N	3.25	15	2.43
CX090	1.856	N	73	10	N	14.4	15	N	2.01	13	2.88
CX091	2.535	.06	94	17	2	25.1	25	N	3.49	15	2.93
CX092	2.627	.07	95	11	3	22.6	21	N	2.73	16	2.68
CX093	2.48	N	50	3	N	2.73	3	N	1.52	25	1.99
CX094	2.256	N	130	3	7	3.09	3	N	2.95	21	1.96
CX095	2.667	N	59	4	N	3.76	4	N	1.72	25	1.78
CX096	2.356	N	58	N	N	2.63	3	N	1.21	23	1.81
CX097	2.665	N	70	3	N	2.95	3	N	2.17	23	1.49
CX098	1.727	N	24	N	N	2.17	2	N	.81	19	2.27
SH092	2.592	.13	275	19	49	18	15	4	12.5	14	1.75
SH093	2.66	.16	112	11	9	25.9	27	2	3.42	22	2.38
SH094	3.497	.36	154	10	8	85.8	77	2	4.02	18	1.95
SH095	3.128	.25	123	11	13	21.6	20	N	3.35	21	2.22
SH096	3.269	.11	151	9	24	33	33	2	3.78	20	1.92
SH097	4.158	.19	127	9	26	20.3	21	2	3.49	20	2.22
SH098	2.987	.11	450	17	46	15.4	17	5	10.1	15	1.89
SH099	2.497	.07	184	10	14	10.1	11	3	5.51	15	2.2
SH105	2.543	.1	149	6	12	9.98	10	2	3.13	19	2.18
SH107	2.826	.08	238	15	20	14.5	17	3	9.73	14	1.94
SH108	2.999	.25	151	13	9	29.2	28	2	4.69	18	2.47
SH109	2.602	.08	157	10	6	10.4	11	2	4.23	16	2.27
SH110	2.714	.21	124	16	24	137	142	2	5.39	16	2.16
SH111	2.645	.18	129	15	31	24	22	3	6.55	17	2.22
AB001SD	3.248	.29	227	12	26	17.9	16	4	5.71	20	2.32
AB008SD	4.132	.24	158	12	31	20.3	19	4	6.09	16	2.03
AB009SD	3.23	.16	276	13	19	20.8	20	4	7.12	18	2.09
AB013SD	2.975	.14	142	15	22	22.3	21	3	4.78	21	2.17
AB017SD	2.513	.21	152	11	20	18.9	17	2	3.95	20	2.29
AC013SD	3.262	.1	193	8	12	17.8	17	3	4.64	16	1.98
AC028SD	1.528	.06	68	8	15	11	10	N	3.46	8	1.48
AC029SD	2.734	.16	192	33	43	63.3	55	4	17.2	12	1.36
AC030SD	3.33	.14	212	19	26	30.6	29	3	8.38	13	1.84
BA035SD	3.038	.18	287	13	26	21.9	19	3	4.88	22	2.42
BB008SD	2.38	.13	188	11	19	17.1	15	3	3.78	22	2.44
AA001SL	.745	N	155	13	28	5.66	5	N	5.92	4	.86
AA002SL	3.54	.13	167	14	38	28.9	29	3	4.5	19	2.45
AA003SL	2.158	.15	178	11	20	16.7	16	3	4.35	23	2.51
AA004SL	2.702	.24	133	21	45	40.8	40	3	5.36	17	2.65
AB010SL	2.59	.24	179	12	29	26.2	19	3	4.47	18	2.4
AB011SL	2.331	.17	174	12	29	18.6	19	2	4.12	20	2.42
AB012SL	2.535	.23	172	13	26	20.6	21	2	4.05	22	2.45
AB014SL	3.627	.16	127	15	30	23.6	25	3	5.03	21	2.21
AB015SL	3.284	.21	155	14	18	24.8	24	3	4.45	17	2.42
AB016SL	2.526	.32	143	19	24	37.2	36	2	4.96	22	2.36
AC004SL	3.811	.17	126	9	12	15.6	16	2	3.3	17	2.23
AC008SL	2.875	.15	164	8	7	14.3	14	2	3.5	20	2.15
AC009SL	2.694	.16	124	10	18	15.3	15	2	3.51	17	2.26
AC010SL	2.857	.16	118	9	16	17.5	17	2	3.34	16	2.32
AC011SL	3.078	.11	148	9	16	17.9	20	3	3.38	20	2.3
AC012SL	4.258	.15	130	10	17	16.5	17	2	3.47	21	2.27
AC014SL	2.816	.1	182	10	11	12.4	12	3	4.84	17	2.11
AC015SL	2.835	.19	143	11	10	18.3	18	2	3.57	19	2.37

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity--Continued

Sample	LA PPM ICP-T	LI PPM ICP-T	MG PCT ICP-T	MN PPM ICP-T	MO PPM ICP-P	NA PCT ICP-T	NB PPM ICP-T	ND PPM ICP-T	NI PPM ICP-T	P PCT ICP-T	PB PPM ICP-P	PB PPM ICP-T
CX082	33	7	.327	183	.9	2.816	15	29	4	.038	4	15
CX083	86	10	.756	237	3.2	2.147	18	41	10	.13	2	17
CX084	98	8	.468	526	2	1.939	20	64	13	.047	6	27
CX085	78	11	.731	446	1.3	2.179	14	54	12	.058	6	19
CX086	28	5	.117	144	.2	1.635	13	20	N	.015	2	19
CX087	30	6	.187	195	.4	1.778	13	23	3	.027	3	19
CX088	62	9	.875	260	1.1	2.994	19	45	9	.152	6	17
CX089	48	12	.948	442	1.8	2.322	17	39	13	.073	8	21
CX090	39	8	.535	382	.4	1.868	20	29	7	.041	3	24
CX091	54	12	.994	529	.9	2.184	19	41	14	.071	6	23
CX092	55	12	.849	495	.5	2.141	23	35	12	.058	5	24
CX093	29	23	.456	222	.1	3.58	18	18	N	.049	2	17
CX094	77	19	.31	264	.2	3.209	17	52	4	.092	2	21
CX095	35	29	.527	271	.1	3.813	22	23	3	.065	2	20
CX096	32	21	.33	218	N	3.622	22	24	N	.053	2	22
CX097	41	18	.407	231	N	3.697	21	26	N	.07	2	18
CX098	12	20	.167	196	N	3.438	19	N	N	.015	2	20
SH092	146	9	.821	1,230	.9	2.081	N	126	24	.089	14	39
SH093	59	22	1.306	592	.7	2.328	27	57	19	.117	25	35
SH094	79	14	1.152	702	.9	2.383	30	77	17	.262	38	40
SH095	63	21	1.443	591	.7	2.241	24	61	18	.133	17	33
SH096	74	13	1.033	548	.8	2.652	26	71	15	.187	10	32
SH097	62	19	1.293	581	.6	2.603	18	55	17	.187	11	25
SH098	240	10	1.002	1,240	1.1	2.128	15	208	23	.11	14	44
SH099	94	10	.763	698	.7	2.372	30	86	15	.084	7	32
SH105	86	24	.741	505	.4	2.865	25	59	11	.122	8	29
SH107	127	11	.944	889	1	2.227	23	116	26	.105	11	37
SH108	78	20	1.246	671	1.5	2.162	23	67	18	.093	17	35
SH109	84	8	.823	555	.6	2.52	28	74	14	.057	6	30
SH110	64	16	1.11	653	4.5	1.947	26	62	18	.086	21	39
SH111	68	19	1.278	848	.9	1.975	24	64	22	.089	17	35
AB001SD	112	17	1.258	1,150	1.1	2.383	67	115	23	.13	13	38
AB008SD	76	22	1.491	1,340	1.4	1.85	42	79	27	.151	10	32
AB009SD	141	19	1.345	1,410	1.1	2.185	70	124	23	.184	13	46
AB013SD	72	23	1.484	717	.7	1.876	24	67	23	.116	13	31
AB017SD	78	22	1.222	734	.7	2.102	28	67	19	.104	18	38
AC013SD	103	21	.847	600	.8	2.404	29	82	13	.162	9	33
AC028SD	35	12	.611	451	.7	.827	9	27	13	.031	8	20
AC029SD	99	13	1.269	1,190	1.6	1.497	N	86	30	.135	22	37
AC030SD	111	18	1.413	934	1.6	1.897	26	92	21	.138	14	37
BA035SD	160	27	1.471	786	.8	1.968	27	114	25	.127	18	35
BB008SD	96	23	1.058	678	.6	1.758	30	83	17	.123	14	33
AA001SL	79	4	.398	1,400	.3	.395	N	75	11	N	5	20
AA002SL	94	22	1.687	671	.9	1.286	25	86	29	.098	13	31
AA003SL	92	29	1.378	1,070	.7	1.841	33	85	21	.139	14	36
AA004SL	70	23	2.095	910	.6	1.485	24	71	46	.122	14	38
AB010SL	93	25	1.351	712	.9	1.87	31	82	22	.122	16	33
AB011SL	92	25	1.265	670	1	1.768	31	92	22	.116	11	32
AB012SL	92	27	1.527	697	.9	1.773	27	88	25	.15	12	32
AB014SL	71	28	1.681	858	1.7	1.557	24	64	22	.141	19	34
AB015SL	82	27	1.687	710	.9	1.747	27	74	24	.124	15	36
AB016SL	77	28	1.651	704	.9	1.743	28	70	25	.124	14	36
AC004SL	67	27	1.107	722	1	2.004	26	65	16	.107	102	165
AC008SL	88	24	1.057	574	.8	2.237	28	79	16	.11	10	32
AC009SL	70	29	1.163	614	.9	1.896	28	64	19	.122	12	31
AC010SL	62	28	1.145	605	1	1.882	25	61	17	.129	10	27
AC011SL	79	29	1.15	586	.9	2.279	32	78	16	.185	10	34
AC012SL	70	31	1.351	554	.8	1.909	19	65	19	.137	10	24
AC014SL	102	15	.95	731	.8	2.233	32	97	16	.121	8	34
AC015SL	78	29	1.288	623	1	1.967	24	73	20	.138	11	31

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity--Continued

Sample	SB PPM ICP-P	SC PPM ICP-T	SR PPM ICP-T	TA PPM ICP-T	TH PPM ICP-T	TI PCT ICP-T	V PPM ICP-T	Y PPM ICP-T	YB PPM ICP-T	ZN PPM ICP-P	ZN PPM ICP-T
CX082	N	4	286	N	9	.196	34	16	2	9.92	11
CX083	N	10	291	N	16	.319	78	22	2	11.5	13
CX084	N	7	306	N	22	.531	147	31	3	12.5	17
CX085	N	9	294	N	20	.417	135	25	2	21.5	20
CX086	N	N	268	N	6	.119	24	11	1	4.69	8
CX087	N	3	253	N	8	.16	42	12	1	6.76	10
CX088	N	10	275	N	13	.316	86	23	2	16.8	17
CX089	N	11	342	N	13	.399	103	23	2	29.6	38
CX090	N	6	318	N	9	.35	62	17	2	22.4	21
CX091	N	10	362	N	14	.448	106	23	2	35.8	39
CX092	N	9	356	N	13	.441	86	21	2	33.2	31
CX093	N	3	782	N	N	.255	37	6	N	59	52
CX094	N	3	637	N	30	.314	78	13	N	41.4	42
CX095	N	3	845	N	N	.313	41	8	N	65.7	61
CX096	N	3	725	N	N	.247	30	8	N	43.5	40
CX097	N	3	846	N	N	.281	55	8	N	63.5	48
CX098	N	N	569	N	N	.112	12	4	N	32.8	32
SH092	N	13	300	N	57	.817	331	58	5	39.2	62
SH093	N	13	343	N	19	.507	103	32	3	63.8	65
SH094	N	12	340	N	56	.633	153	40	4	46.8	55
SH095	1	13	338	N	44	.472	102	33	3	61.1	57
SH096	N	11	343	N	26	.479	141	38	4	35.2	44
SH097	N	12	365	N	17	.469	153	31	3	48	57
SH098	N	15	322	N	98	1.091	274	79	7	25.2	60
SH099	N	10	347	N	33	.648	163	43	4	21.1	42
SH105	N	8	488	N	30	.453	78	26	2	49.6	55
SH107	N	12	331	N	59	.767	339	48	4	30	51
SH108	N	11	315	N	20	.556	121	31	3	63.4	60
SH109	N	11	378	N	26	.537	133	39	4	22.3	35
SH110	N	12	293	N	31	.616	167	36	4	61.3	65
SH111	N	14	299	N	22	.726	214	38	4	62.1	68
AB001SD	N	16	284	N	29	.856	118	61	6	89.3	93
AB008SD	N	18	269	N	26	.819	109	49	5	103	103
AB009SD	N	18	262	N	69	1.037	152	73	7	84.5	92
AB013SD	N	16	316	N	51	.629	137	38	4	68.1	67
AB017SD	N	14	288	N	32	.553	106	44	4	67.1	62
AC013SD	N	11	412	N	38	.703	135	38	3	51.4	54
AC028SD	N	6	179	N	10	.401	105	15	2	33.2	36
AC029SD	N	16	244	47	105	.821	675	46	4	79.3	88
AC030SD	N	18	283	N	72	.771	255	52	5	59.6	71
BA035SD	N	14	308	N	74	.616	119	39	3	95.2	91
BB008SD	N	14	233	N	44	.566	88	74	7	78	70
AA001SL	N	10	60	N	38	.547	39	20	1	27.6	35
AA002SL	N	15	245	N	33	.647	118	34	3	89.6	88
AA003SL	N	13	259	N	54	.599	109	40	3	96.1	101
AA004SL	N	19	263	N	28	.845	154	40	4	127	129
AB010SL	N	15	276	N	38	.587	121	59	6	96.1	82
AB011SL	N	14	276	N	37	.58	109	53	5	65.4	74
AB012SL	N	15	300	N	38	.589	115	42	4	69.9	76
AB014SL	N	17	256	N	25	.639	129	37	3	75.7	85
AB015SL	N	15	307	N	36	.621	121	39	4	76.1	81
AB016SL	N	15	285	N	33	.587	121	39	4	80.3	87
AC004SL	2	12	374	N	29	.51	97	35	3	44.5	54
AC008SL	N	11	386	N	31	.55	95	33	3	52	59
AC009SL	N	12	364	N	25	.547	102	35	3	68.1	63
AC010SL	N	11	341	N	22	.542	97	34	3	59.1	63
AC011SL	N	12	423	N	24	.753	103	33	3	60.3	68
AC012SL	N	11	374	N	21	.573	101	31	3	58.7	66
AC014SL	N	13	362	N	41	.755	138	47	4	36	50
AC015SL	N	13	333	N	36	.552	101	36	3	59.8	68

Table 5. Results of re-analysis of selected stream-sediment samples from the Coxcomb Mts and Sheep Hole Mts BLM WSAs and selected NURE stream-sediment and soil samples, Joshua Tree National Park, and vicinity--Continued

Sample	LATITUDE	LONGITUDE	AG PPM ICP-P	AL PCT ICP-T	AS PPM ICP-P	AU PPM ICP-T	BA PPM ICP-T	BE PPM ICP-T	BI PPM ICP-P
AC016SL	33 50 25	115 21 23	N	7.764	N	N	673	2	N
AC017SL	33 52 30	115 21 25	N	7.437	2	N	702	2	N
AC018SL	33 54 37	115 23 45	N	7.685	N	N	675	2	N
AC023SL	33 50 6	115 28 54	N	7.353	4	N	649	2	N
AC024SL	33 46 8	115 28 43	N	7.345	3	N	657	2	N
AC025SL	33 48 9	115 26 33	N	7.536	3	N	683	2	N
AC027SL	33 54 3	115 21 15	N	8.09	N	N	691	2	N
BA034SL	33 41 52	115 58 4	N	8.184	1	N	765	2	N
BA036SL	33 43 33	115 58 30	N	7.67	2	N	690	2	N

Sample	CA PCT ICP-T	CD PPM ICP-P	CE PPM ICP-T	CO PPM ICP-T	CR PPM ICP-T	CU PPM ICP-P	CU PPM ICP-T	EU PPM ICP-T	FE PCT ICP-T	GA PPM ICP-T	K PCT ICP-T
AC016SL	2.752	.07	141	7	20	10.6	12	2	3.32	17	2.13
AC017SL	2.982	.1	160	9	12	14.6	15	3	3.72	15	2.17
AC018SL	3.338	.11	184	9	10	11.6	13	3	4	17	2.07
AC023SL	2.724	.23	130	20	24	39.5	39	2	5.86	16	2.26
AC024SL	2.616	.19	156	12	28	19.4	20	2	4.05	17	2.41
AC025SL	2.671	.18	126	15	23	25.4	26	2	4.47	19	2.29
AC027SL	3.364	.17	138	10	11	19.8	19	3	3.86	18	2.24
BA034SL	2.424	.15	152	14	36	22.1	21	3	4.42	22	2.58
BA036SL	3.527	.14	138	13	23	23.4	22	2	4.29	24	2.54

Sample	LA PPM ICP-T	LI PPM ICP-T	MG PCT ICP-T	MN PPM ICP-T	MO PPM ICP-P	NA PCT ICP-T	NB PPM ICP-T	ND PPM ICP-T	NI PPM ICP-T	P PCT ICP-T	PB PPM ICP-P	PB PPM ICP-T
AC016SL	77	16	.895	560	1	2.388	25	68	13	.107	9	29
AC017SL	85	20	1.039	584	.7	2.254	30	80	16	.151	10	33
AC018SL	102	18	1.031	603	1.3	2.294	28	89	15	.12	11	31
AC023SL	71	26	1.571	696	1	1.828	22	67	24	.13	17	32
AC024SL	83	26	1.33	756	.9	1.841	32	78	22	.137	13	32
AC025SL	66	24	1.434	712	.8	2.018	28	61	23	.13	14	33
AC027SL	72	31	1.239	618	.8	2.002	28	67	20	.158	11	33
BA034SL	86	30	1.709	753	.8	1.755	29	78	27	.15	11	29
BA036SL	75	34	1.799	760	.9	1.634	27	70	25	.129	14	31

Sample	SB PPM ICP-P	SC PPM ICP-T	SR PPM ICP-T	TA PPM ICP-T	TH PPM ICP-T	TI PCT ICP-T	V PPM ICP-T	Y PPM ICP-T	YB PPM ICP-T	ZN PPM ICP-P	ZN PPM ICP-T
AC016SL	N	12	362	N	24	.557	98	39	4	35.1	48
AC017SL	N	12	387	N	29	.686	112	39	4	45.7	56
AC018SL	N	12	369	N	43	.637	121	41	4	40.3	52
AC023SL	N	14	303	N	26	.564	137	34	3	74.5	80
AC024SL	N	13	275	N	28	.573	103	41	4	66.5	77
AC025SL	N	14	314	N	44	.536	112	37	4	64.4	76
AC027SL	N	12	351	N	23	.672	112	35	3	69.8	74
BA034SL	N	15	299	N	31	.626	119	36	3	92.7	95
BA036SL	N	15	301	N	29	.626	117	35	3	95.2	95

Table 6. Results of analysis of soil samples from a traverse across Smoke Tree Wash, Joshua Tree National Park

[PCT, percent; PPM, parts per million; ICP-P, inductively coupled plasma-atomic emission spectrometry (ICP-AES) partial extraction method; ICP-T, ICP-AES hot acid extraction method; CV-AA, cold vapor atomic absorption spectrometry; N, not detected, or less than the lower limit of determination]

Sample	LATITUDE	LONGITUDE	AL PCT ICP-T	AS PPM ICP-P	BA PPM ICP-T	BE PPM ICP-T	BI PPM ICP-P	CA PCT ICP-T	CD PPM ICP-P	CE PPM ICP-T	CO PPM ICP-T	CR PPM ICP-T
JT329SL	33 49 40	115 45 40	8.096	3	689	2	N	2.694	.2	148	12	22
JT330SL	33 49 39	115 45 38	7.968	3	649	2	N	2.708	.18	143	12	38
JT331SL	33 49 39	115 45 35	7.712	2	610	2	N	2.464	.18	186	11	43
JT332SL	33 49 37	115 45 34	7.302	2	528	2	N	2.549	.18	225	11	89
JT333SL	33 49 37	115 45 30	7.794	2	580	2	N	2.857	.14	180	10	42
JT334SL	33 49 37	115 45 28	7.907	2	571	2	N	2.856	.12	189	9	19
JT335SL	33 49 37	115 45 27	8.043	2	625	2	N	2.587	.17	167	10	34
JT336SL	33 49 36	115 45 24	7.402	2	547	2	N	2.733	.14	283	11	37
JT337SL	33 49 36	115 45 22	7.574	3	675	2	N	2.38	.17	223	12	23
JT338SL	33 49 35	115 45 20	7.877	3	617	2	N	2.671	.14	180	12	43
JT339SL	33 49 35	115 45 19	7.957	2	690	2	N	2.716	.14	190	13	45
JT340SL	33 49 35	115 45 15	7.595	3	627	2	N	2.4	.17	264	12	33
JT341SL	33 49 35	115 45 14	7.444	3	598	2	1	2.28	.2	491	16	41
JT342SL	33 49 34	115 45 12	8.01	3	653	2	N	2.151	.17	199	13	29
JT343SL	33 49 33	115 45 8	7.778	3	663	2	N	2.105	.19	203	12	22
JT344SL	33 49 32	115 45 7	7.717	3	671	2	N	2.1	.22	202	12	29
JT345SL	33 49 31	115 45 6	7.9	2	694	2	N	2.06	.2	166	11	29
JT346SL	33 49 32	115 45 3	7.932	3	658	2	N	2.063	.19	191	12	42

Sample	CU PPM ICP-P	CU PPM ICP-T	EU PPM ICP-T	FE PCT ICP-T	GA PPM ICP-T	HG PPM CV-AA	K PCT ICP-T	LA PPM ICP-T	LI PPM ICP-T	MG PCT ICP-T	MN PPM ICP-T	MO PPM ICP-P	NA PCT ICP-T	NB PPM ICP-T
JT329SL	29	29	N	5.03	15	N	2.15	75	31	1.668	807	.6	1.884	29
JT330SL	28.9	33	N	5.44	14	.02	2.1	73	31	1.582	760	.8	1.81	27
JT331SL	31.9	32	N	6.26	16	N	1.93	96	25	1.33	761	.8	2.045	30
JT332SL	30.5	34	2	8.29	9	N	1.75	117	20	1.254	839	.9	1.993	32
JT333SL	18.4	21	2	4.58	17	N	1.91	91	20	1.339	782	.5	2.261	35
JT334SL	17.3	18	2	4.6	15	N	1.91	95	19	1.294	769	.5	2.292	24
JT335SL	18.3	19	N	4.38	14	N	2.04	82	22	1.393	780	.5	2.199	15
JT336SL	21.4	23	2	6.78	16	N	1.77	146	19	1.244	850	.6	2.083	37
JT337SL	20.4	21	N	5.08	14	N	2.08	116	26	1.509	839	.6	1.878	29
JT338SL	20.8	20	2	6.28	13	N	1.97	91	22	1.492	850	.4	2.06	29
JT339SL	21.1	22	N	5.32	19	N	2.12	95	27	1.7	886	.5	1.884	27
JT340SL	22.1	21	2	5.83	13	N	2.12	129	21	1.432	1,100	.6	1.776	36
JT341SL	28.2	31	3	9.28	10	N	1.97	243	21	1.354	1,860	.9	1.622	38
JT342SL	22.8	22	N	4.99	17	N	2.34	98	24	1.439	921	.6	1.833	19
JT343SL	21.3	20	N	4.79	19	N	2.27	98	23	1.394	826	.6	1.892	28
JT344SL	20.2	20	2	4.95	18	N	2.27	98	24	1.365	887	.6	1.929	28
JT345SL	18.7	19	N	4.75	16	N	2.38	81	25	1.419	848	.6	1.978	31
JT346SL	19.7	19	N	4.91	19	N	2.32	95	24	1.39	860	.7	1.932	34

Table 6. Results of analysis of soil samples from a traverse across Smoke Tree Wash, Joshua Tree National Park--Continued

Sample	ND PPM ICP-T	NI PPM ICP-T	P PCT ICP-T	PB PPM ICP-P	PB PPM ICP-T	SC PPM ICP-T	SR PPM ICP-T	TH PPM ICP-T	TI PCT ICP-T	V PPM ICP-T	Y PPM ICP-T	YB PPM ICP-T	ZN PPM ICP-P	ZN PPM ICP-T
JT329SL	58	20	.146	12	27	16	301	23	.613	127	31	3	101	97
JT330SL	60	18	.133	9	23	16	294	43	.586	140	32	3	100	93
JT331SL	72	18	.145	10	25	16	308	44	.619	170	40	4	78	83
JT332SL	92	31	.146	9	29	16	286	72	.742	214	49	5	68.1	78
JT333SL	76	21	.148	12	32	17	316	44	.646	124	44	5	64.9	77
JT334SL	77	15	.137	10	32	16	321	49	.644	117	42	4	62.1	74
JT335SL	72	17	.132	10	27	16	316	33	.592	109	37	4	73	80
JT336SL	113	17	.134	10	32	16	296	77	.814	181	55	5	60.7	74
JT337SL	87	20	.138	11	28	16	278	61	.703	130	38	4	86.4	86
JT338SL	77	18	.139	9	27	16	310	51	.722	159	39	4	73.7	84
JT339SL	78	22	.142	8	28	18	293	41	.69	137	38	4	83.9	92
JT340SL	119	23	.161	9	33	19	242	66	1.026	131	57	5	87.2	92
JT341SL	202	29	.175	11	46	21	222	114	1.762	179	76	7	88.8	118
JT342SL	87	24	.133	11	29	17	227	27	.824	106	50	5	95.1	95
JT343SL	86	24	.148	12	31	17	240	39	.732	106	48	5	95.4	94
JT344SL	83	22	.139	13	32	17	243	37	.778	113	51	5	93	92
JT345SL	75	23	.141	11	29	15	246	28	.697	105	41	4	90.6	95
JT346SL	83	22	.141	11	29	16	244	32	.761	109	46	5	89.4	92