UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of stream-sediment, heavy-mineral-concentrate, rock, and water samples from the Skedaddle (CA-020-612) and Dry Valley Rim (CA-020-615) Wilderness Study Areas, Lassen County, California, and Washoe County, Nevada

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Open-File Report 87-494

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1987

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STUDIES RELATED TO WILDERNESS

Bureau of Land Management Wilderness Study Areas

The Federal Land Policy and Management Act (Public Law 94-579, October 21, 1976) requires the U.S. Geological Survey and the U.S. Bureau of Mines to conduct mineral surveys on certain areas to determine their mineral values, if any. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Skedaddle (CA-020-612) and Dry Valley Rim (CA-020-615) Wilderness Study Areas in Lassen County, California, and Washoe County, Nevada.

INTRODUCTION

In the summer of 1985, the U.S. Geological Survey conducted a reconnaissance geochemical survey of the Skedaddle (CA-020-612) and Dry Valley Rim (CA-020-615) Wilderness Study Areas in Lassen County, California, and Washoe County, Nevada.

Skedaddle and Dry Valley Rim are contiguous wilderness study areas (WSA) located in the eastern part of the Modoc Plateau in Lassen County, northeastern California, and Washoe County, northwestern Nevada (fig. 1). The Skedaddle study area encompasses 39,420 acres and the Dry Valley Rim study area encompasses 54,480 acres of Bureau of Land Management administered public land about 25 mi east of Susanville, California. The Skedaddle study area is bounded on the east by the Skedaddle road, on the north by the Smoke Creek Road, on the south by the Wendel road, and on the west by the rim west of Wendel Canyon. The Dry Valley Rim study area is bounded on the east by the lower Smoke Creek road, the Dry Valley road, and the Pipe Springs Road. The northern boundary is the Smoke Creek Ranch road, the southern boundary the Wendel road, and the western boundary the east-side Skedaddle road. Access to the study areas is provided by several light-duty dirt roads and ways that join the boundary roads. Elevations range from 3,800 (1158 m) to 7,552 ft (2302 m). Steep rim rock walls and talus-covered canyons are common in the eastern third of the Dry Valley Rim study area, and the western third of the Skedaddle study area, while the majority of both study areas is gradually sloping, covered only by sparse sagebrush. Existing geologic maps that cover the two study areas consist of Lydon and others (1960), Bonham (1969), and Diggles and others (1986).

The Skedaddle Wilderness Study Area consists of two parallel ridges, the Skedaddle Mountains and the Amedee Mountains. The ridges bound the Wendel and Spencer basins, an area of bleached and silicified rocks. Dry Valley Rim is a 17-mi (5.2 m)-long north-south-trending fault block that is situated 1,500 ft (457 m) above the Smoke Creek Desert to the east. The rim provides good exposure of the thick sequences of volcanic rocks that underlie the wilderness study area.

The rocks of the study areas consist mostly of Tertiary basalt, andesite, and lahar with minor amounts of rhyolitic ash-flow tuff, rhyolite, and dacite. Surficial deposits consist of colluvium, alluvium, and talus, as well as aeolian, lacustrine, and fluvial deposits.

METHODS OF STUDY

Sample Media

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

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

Sample Collection

Heavy-mineral-concentrate samples were collected at 55 sites (plate 1) in the Skedaddle WSA and at 47 sites in the Dry Valley Rim WSA. At all but two of those sites, stream-sediment samples were also collected. Altered or mineralized stream cobbles, float and/or outcrops were sampled whenever encountered. In addition, 54 rock samples (SM prefix) were collected from predominantly unaltered, unmineralized outcrops to geochemically characterize the rock units of the two wilderness study areas. Seventeen water samples were collected in and near the Skedaddle WSA from hot and cold springs. Average sampling density was about one sample site per 2 mi^2 for the stream sediments and heavy-mineral concentrates in the Skedaddle WSA and about one sample site per 3 mi^2 in the Dry Valley Rim WSA. Average sampling density for rocks was about one sample site per 1 mi^2 in the Skedaddle WSA and about one sample site per 10 mi^2 in the Dry Valley Rim WSA. The area of the drainage basins sampled averaged 1 to 2 mi^2 but ranged from 0.25 mi^2 to 8 mi^2 in the Skedaddle WSA and from 0.3 mi^2 to 7 mi^2 in the Dry Valley Rim WSA.

Stream-sediment samples

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams as shown on USGS topographic maps (scale, 1:24,000). Each sample was composited from several localities within an area that may extend as much as 20 ft from the site plotted on the map.

Heavy-mineral-concentrate samples

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

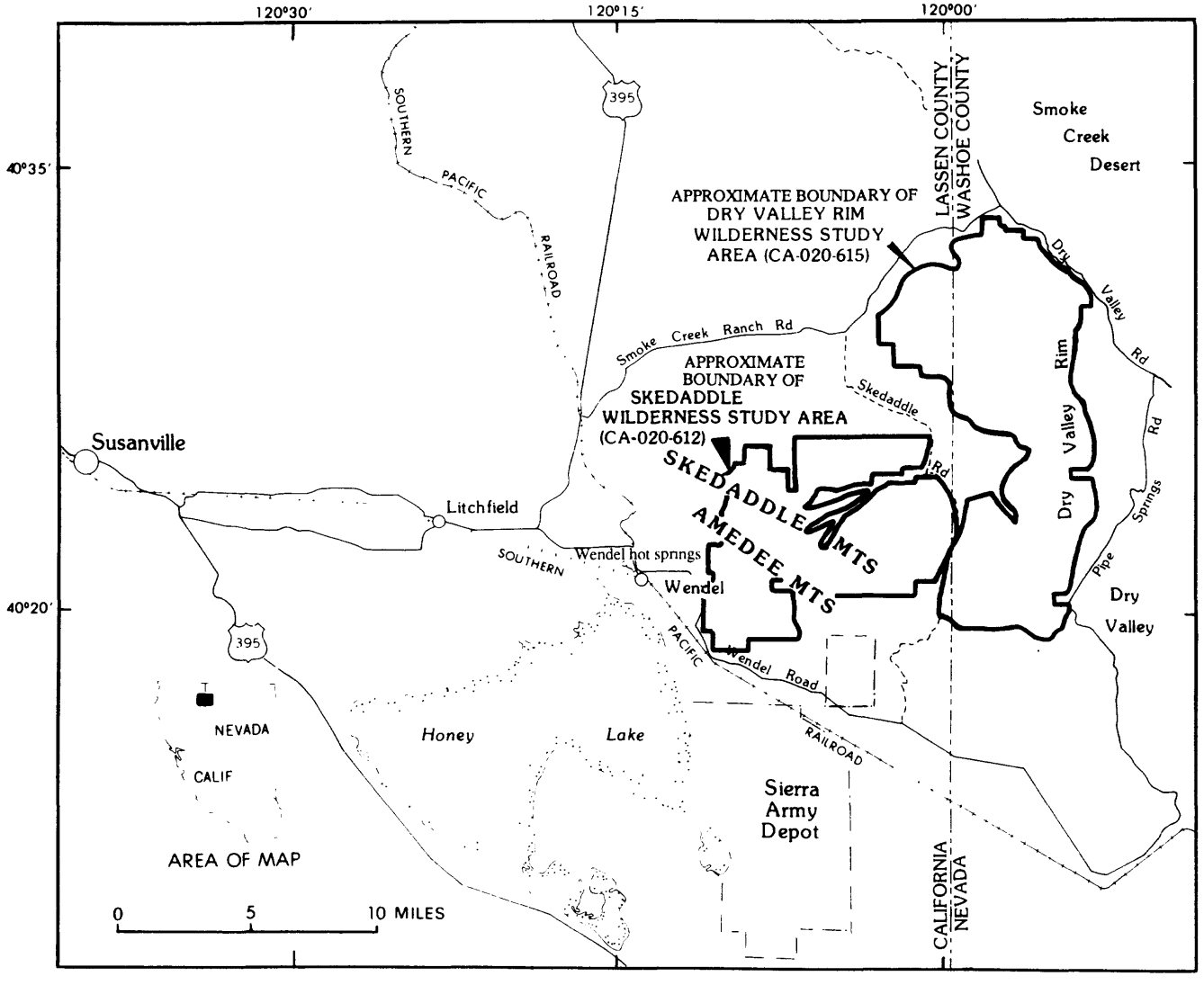

Figure 1. Location map of the Skedaddle (CA-020-612) and Dry Valley Rim (CA-020-615) Wilderness Study Areas, Lassen County, California, and Washoe County, Nevada.

Rock samples

Rock samples were collected as float, stream cobbles, or from outcrops or exposures in the vicinity of the plotted site location. Rock samples with a SM prefix were all collected from outcrops; most are unaltered and unmineralized. Rocks with a SK prefix are generally stream cobbles or float; most are altered or mineralized. Table 7A contains a description of rock samples from the Skedaddle WSA; table 7B contains rock descriptions from Dry Valley Rim WSA.

Water samples

Water samples were collected from hot and cold springs. A 1-l sample was taken at each site and stored in a new untreated plastic bottle. In addition, a 50-ml sample was filtered through a 0.45-micrometer filter, was acidified with reagent-grade concentrated nitric acid to less than pH 2, and was stored in an acid-rinsed polyethylene bottle. The pH of the water was determined in the lab using an Orion model 901 pH meter.

Sample Preparation

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

After air drying, bromoform (specific gravity 2.85) was used to remove the remaining quartz and feldspar from the heavy-mineral-concentrate samples that had been panned in the field. The resultant heavy-mineral sample was separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The strongly magnetic material, primarily magnetite, was not analyzed. The second fraction, largely ferromagnesian silicates and iron oxides, was saved for archival storage. The third fraction (the least magnetic material which may include the nonmagnetic ore-related minerals, zircon, sphene, etc.) was split using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.2 ampere to remove the magnetite and ilmenite, and a current of 0.6 ampere to split the remainder of the sample into paramagnetic and nonmagnetic fractions.

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

Sample Analysis

Spectrographic method

The heavy-mineral-concentrate, stream-sediment, and rock samples were analyzed for 31 elements using semiquantitative, direct-current arc emission spectrographic method. The analyses for heavy-mineral-concentrate samples were performed by analysts in the Branch of Exploration Geochemistry using the method of Grimes and Marranzino (1968); analyses for stream-sediment and rock samples were performed by analysts in the Branch of Analytical Chemistry using a modified method of Myers and others (1961) by Crock and others (1987). The elements analyzed and their lower limits of determination are listed in

table 1. For arsenic (As), gold (Au), cadmium (Cd), lanthanum (La), and thorium (Th), the lower limits of determination of the two analytical methods vary. The values in the parentheses are the limits of determination for Myers and others (1961). Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Analytical data for samples from the Skedaddle and Dry Valley Rim Wilderness Study Areas are listed in tables 3-6.

Chemical methods

Other methods of analyses were used on samples from the wilderness study areas. Concentrates were analyzed for gold (Au) using atomic absorption spectroscopy (AA). Stream sediments and rocks were analyzed for gold, tellurium (Te), thallium (Tl), and mercury (Hg) using atomic absorption spectroscopy, for arsenic (As), antimony (Sb), zinc (Zn), bismuth (Bi), and cadmium (Cd) using inductively coupled plasma-atomic emission spectroscopy (ICP) and for thorium (Th) and uranium (U) using delayed neutron activation analyses (DN). Selected stream sediments and rocks were analyzed for gold using flameless atomic absorption spectroscopy (FAA). Water samples were analyzed for fluoride (F^-), chloride (Cl^-), sulfate (SO_4^{2-}), and nitrate (NO_3^-) using ion chromatography (IC), for gold, arsenic, copper (Cu), molybdenum (Mo) and zinc (Zn) using flameless atomic absorption, for lithium (Li) using atomic absorption, for uranium (U) using laser-fluorescence, for pH using a pH electrode and for specific conductance using a conductivity bridge. For a more detailed summary of these other chemical methods used see table 2.

Analytical results for stream-sediment, heavy-mineral-concentrate, rock, and water samples are listed in tables 3, 4, 5, and 6, respectively.

ROCK ANALYSIS STORAGE SYSTEM

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

DESCRIPTION OF DATA TABLES

Tables 3-6 list the results of analyses for the samples of stream sediment, heavy-mineral concentrate, rock, and water, respectively. For the four tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location maps (plate 1). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "aa" indicates atomic absorption analyses; "dn" indicates delayed neutron

activation analyses; and "icp" indicates inductively coupled plasma-atomic emission spectroscopy; "faa" indicates flameless atomic absorption analyses; "ic" indicates ion chromatographic analyses; and "lf" indicates laser-fluorescence analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 1. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in tables 3-6 in place of an analytical value. Because of the formatting used in the computer program that produced tables 3-6, some of the elements listed in these tables (Fe, Mg, Ca, Ti, Ag, and Be) carry one or more nonsignificant digits to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros.

ACKNOWLEDGMENTS

A number of our colleagues also participated in the collection, preparation, and analysis of these samples: collection, T. A. Delaney and J. L. Jones; preparation, Robin Sanchez; and analyses, M. J. Malcolm.

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

[The values shown are the lower limits of determination assigned by the Grimes and Marranzino method, except for those values in parentheses, which are the lower values assigned by the Myers and others method. The spectrographic limits of determination for heavy-mineral-concentrate samples are based on a 5-mg sample, and are therefore two reporting intervals higher than the limits given for rocks.]

Elements	Lower determination limit		Upper determination limit
	Percent		
Iron (Fe)	0.05		20
Magnesium (Mg)	.02		10
Calcium (Ca)	.05		20
Titanium (Ti)	.002		1
	Parts per million		
Manganese (Mn)	10		5,000
Silver (Ag)	0.5		5,000
Arsenic (As)	200	(700)	10,000
Gold (Au)	10	(15)	500
Boron (B)	10		2,000
Barium (Ba)	20		5,000
Beryllium (Be)	1		1,000
Bismuth (Bi)	10		1,000
Cadmium (Cd)	20	(30)	500
Cobalt (Co)	5		2,000
Chromium (Cr)	10		5,000
Copper (Cu)	5		20,000
Lanthanum (La)	20	(30)	1,000
Molybdenum (Mo)	5		2,000
Niobium (Nb)	20		2,000
Nickel (Ni)	5		5,000
Lead (Pb)	10		20,000
Antimony (Sb)	100		10,000
Scandium (Sc)	5		100
Tin (Sn)	10		1,000
Strontium (Sr)	100		5,000
Vanadium (V)	10		10,000
Tungsten (W)	50		10,000
Yttrium (Y)	10		2,000
Zinc (Zn)	200		10,000
Zirconium (Zr)	10		1,000
Thorium (Th)	100	(200)	2,000

TABLE 2.--Chemical methods used

[AA = atomic absorption; ICP = inductively coupled plasma spectroscopy; FAA = flameless atomic absorption; IC = ion chromotography; DN = delayed neutron activation]; LF = laser fluorescence]

Element or constituent determined	Sample type	Method	Determination limit (micrograms/gram or ppm)	Analyst	Reference
Gold (Au)	concentrates	AA	0.05	C.D. Taylor	Thompson and others, 1968.
Gold (Au)	stream sediments rocks	AA	.1	J.G. Crock J.W. Groeneboer Tom McCollom	Modification of Thompson and others, 1968.
Gold (Au)	48 selected stream sediments and rocks	FAA	0.002 g/g	R.M. O'Leary	Meier, 1980.
Tellurium (Te)	stream sediments rocks	AA	.05	Roosevelt Moore	Unpublished laboratory procedure.
Thallium (Tl)	stream sediments rocks	AA	.05	Mike Doughten	Simon and others, 1977.
Mercury (Hg)	stream sediments rocks	AA	.02	H.W. Groeneboer Kay Kennedy	Koirtyohann and Khalil, 1976.
Arsenic (As)	stream sediments	ICP	5	Paul Briggs	Crock and others, 1987.
Antimony (Sb)	rocks	ICP	2	David L. Fey	
Zinc (Zn)		ICP	2		
Bismuth (Bi)		ICP	2		
Cadmium (Cd)		ICP	.1		
Thorium (Th)	stream sediments rocks	DN	--	R.B. Vaughn Dave McKown	Millard, 1976.
Uranium (U)	stream sediments rocks	DN	--		
pH	water	pH electrode	--	J.B. McHugh	Skougstad and others, 1979, p. 512.
Specific Conductance	water	Conductivity bridge	--	J.B. McHugh	Skougstad and others, 1979, p. 511.
Fluoride (F^-)	water	IC	.01 mg/L	W.H. Ficklin	Fishman and Pyen, 1979.
Chloride (Cl^-)	water	IC	.05 mg/L		
Sulfate (SO_4^{2-})	water	IC	.1 mg/L		
Nitrate (NO_3^-)	water	IC	.1 mg/L		
Gold (Au)	water	FAA	0.001 µg/L	J.B. McHugh	McHugh, 1984.
Arsenic (As)	water	FAA	1 µg/L	J.B. McHugh	Perkin-Elmer, 1977.
Copper (Cu)	water	FAA	1 µg/L		
Lithium (Li)	water	AA	2 µg/L		Perkin-Elmer, 1976.
Molybdenum (Mo)	water	FAA	1 µg/L		Perkin-Elmer, 1977.
Uranium (U)	water	LF	.1 µg/L		Scintrex Corp.,
Zinc (Zn)	water	FAA	1 µg/L		Perkin-Elmer, 1977.

TABLE 3A. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.

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

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
HH001S	41 0 0	120 52 15	5	1.5	.5	.70	2,000	20.0	N	N
HH002S	40 59 21	120 50 55	5	2.0	1.0	1.00	1,500	2.0	N	N
SK041	40 26 13	120 1 12	7	1.0	2.0	1.00	700	N	N	N
SK042	40 25 52	120 4 34	7	1.0	1.5	.70	700	N	N	N
SK043	40 25 15	120 7 45	5	1.0	2.0	.70	700	N	N	N
SK044	40 25 8	120 7 54	7	1.5	3.0	.70	700	N	N	N
SK045	40 22 55	120 4 51	7	1.5	2.0	.70	700	N	N	N
SK046	40 23 2	120 4 52	7	1.5	2.0	1.00	700	N	N	N
SK047	40 22 53	120 1 10	3	1.0	2.0	.50	700	N	N	N
SK048	40 19 51	120 2 30	5	1.0	3.0	.70	700	N	N	N
SK049	40 20 38	120 7 5	5	1.0	3.0	.70	700	N	N	N
SK050	40 20 44	120 7 18	3	1.0	1.5	.50	700	N	N	N
SK053	40 20 24	120 8 59	7	1.5	3.0	.70	700	N	N	N
SK054	40 20 25	120 9 2	3	1.0	3.0	.30	700	N	N	N
SK055	40 21 1	120 10 32	3	1.5	3.0	.30	700	N	N	N
SK056	40 24 37	120 9 4	7	1.0	2.0	1.00	700	N	N	N
SK057	40 21 40	120 8 53	3	1.0	1.5	.50	300	N	N	N
SK058	40 21 37	120 8 52	3	1.5	1.5	.70	1,000	N	N	N
SK109	40 24 17	120 2 39	3	.7	1.5	.50	300	N	N	N
SK128	40 25 48	120 6 32	5	1.5	3.0	.50	700	N	N	N
SK129	40 24 18	120 7 17	7	1.0	3.0	.50	700	N	N	N
SK130	40 24 17	120 7 45	3	.7	1.5	.30	700	N	N	N
SK131	40 23 29	120 7 13	3	.7	2.0	.20	500	N	N	N
SK132	40 23 52	120 3 7	3	.7	1.5	.50	500	N	N	N
SK133	40 23 12	120 1 23	3	.7	1.5	.50	300	N	N	N
SK134	40 20 48	120 1 24	3	1.0	2.0	.50	500	N	N	N
SK135	40 20 15	120 5 27	7	1.5	3.0	.70	700	N	N	N
SK136	40 20 20	120 6 15	3	1.5	3.0	.50	500	N	N	N
SK137	40 20 23	120 6 59	3	1.0	2.0	.30	500	N	N	N
SK138	40 20 32	120 7 8	3	1.0	3.0	.30	500	N	N	N
SK139	40 18 40	120 9 52	7	1.5	3.0	.50	700	N	N	N
SK140	40 19 12	120 10 59	5	1.5	3.0	.50	700	N	N	N
SK141	40 23 52	120 9 59	5	1.0	3.0	.50	500	N	N	N
SK149	40 20 24	120 5 59	3	1.0	2.0	.30	300	N	N	N
SK151	40 22 24	120 6 20	3	1.5	1.5	.30	500	N	N	N
SK153	40 21 42	120 14 43	1	.5	1.5	.15	150	N	N	N
SK155	40 18 10	120 11 40	2	1.5	3.0	.30	700	N	N	N
SK220	40 25 31	120 0 31	5	.7	1.5	.70	1,000	N	N	N
SK221	40 26 7	120 2 58	5	.7	1.5	.50	700	N	N	N
SK222	40 24 3	120 6 29	7	1.0	1.5	.70	700	N	N	N
SK223	40 23 53	120 5 40	10	1.5	1.5	1.00	700	N	N	N
SK224	40 22 57	120 4 13	5	.7	1.0	.50	1,000	N	N	N
SK225	40 22 57	120 3 56	5	.7	1.5	.50	1,000	N	N	N
SK226	40 22 10	120 5 28	3	1.0	1.5	.30	700	N	N	N
SK227	40 23 48	120 1 52	3	.7	1.5	.30	700	N	N	N

TABLE 3A. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
HH001S	<10	700	1.5	N	N	10	20	20	50	N	N	7
HH002S	10	1,000	1.0	N	N	10	50	10	50	N	N	10
SK041	15	500	1.5	N	N	20	70	30	<30	<5	<20	30
SK042	<10	700	<1.0	N	N	15	70	30	<30	<5	<20	30
SK043	<10	700	<1.0	N	N	15	100	30	<30	<5	<20	30
SK044	<10	700	1.5	N	N	20	150	30	30	<5	<20	50
SK045	<10	500	<1.0	N	N	15	30	30	<30	<5	<20	15
SK046	<10	500	N	N	N	30	70	30	N	<5	<20	30
SK047	<10	700	1.5	N	N	15	150	50	30	<5	<20	50
SK048	<10	700	1.0	N	N	15	30	20	<30	<5	<20	15
SK049	<10	700	1.5	N	N	15	30	20	30	<5	<20	15
SK050	<10	700	1.0	N	N	15	30	30	<30	<5	<20	15
SK053	<10	700	1.0	N	N	15	30	30	<30	<5	<20	15
SK054	<10	700	1.0	N	N	15	30	30	30	<5	<20	15
SK055	<10	500	<1.0	N	N	15	30	30	<30	<5	<20	20
SK056	<10	500	<1.0	N	N	20	50	20	<30	<5	<20	15
SK057	30	700	<1.0	N	N	10	50	20	<30	<5	<20	15
SK058	30	700	1.0	N	N	15	70	30	<30	<5	<20	30
SK109	10	700	1.5	N	N	10	70	30	30	<5	<20	20
SK128	10	700	1.0	N	N	15	150	30	30	<5	<20	30
SK129	<10	700	1.5	N	N	15	50	15	<30	<5	<20	15
SK130	<10	500	<1.0	N	N	15	30	30	30	<5	<20	15
SK131	15	700	1.5	N	N	10	30	20	30	<5	<20	10
SK132	<10	700	1.5	N	N	15	150	50	30	<5	<20	30
SK133	<10	700	1.5	N	N	15	150	30	30	<5	<20	20
SK134	<10	700	1.5	N	N	15	150	50	30	<5	<20	30
SK135	<10	700	<1.0	N	N	15	30	30	30	<5	<20	20
SK136	<10	700	<1.0	N	N	15	30	30	30	<5	<20	15
SK137	<10	700	<1.0	N	N	15	30	30	30	<5	<20	15
SK138	<10	500	<1.0	N	N	15	20	30	30	<5	<20	15
SK139	<10	700	<1.0	N	N	15	30	30	30	<5	<20	20
SK140	<10	700	1.5	N	N	15	30	30	30	<5	<20	15
SK141	<10	300	<1.0	N	N	15	30	30	N	<5	<20	15
SK149	<10	500	<1.0	N	N	15	30	30	<30	<5	<20	15
SK151	<10	500	N	N	N	15	70	50	N	<5	N	30
SK153	500	500	N	N	N	<5	30	300	N	<5	N	5
SK155	70	500	N	N	N	7	30	30	N	<5	N	15
SK220	N	700	1.0	N	N	15	70	30	N	<5	N	20
SK221	N	700	N	N	N	15	70	50	50	<5	N	30
SK222	N	500	<1.0	N	N	30	150	70	N	<5	N	50
SK223	N	500	N	N	N	30	70	70	N	<5	N	30
SK224	N	700	1.0	N	N	15	100	70	30	<5	N	30
SK225	<10	1,000	1.0	N	N	15	100	70	50	<5	N	30
SK226	<10	700	N	N	N	15	30	50	N	<5	N	15
SK227	<10	1,000	1.0	N	N	15	150	70	50	<5	N	30

TABLE 3A. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm ae
HH001S	20	N	20	N	200	100	N	30	N	150	N	--
HH002S	30	N	20	N	300	150	N	30	N	150	N	--
SK041	15	N	15	N	500	300	N	15	N	150	N	<.2
SK042	15	N	15	N	300	200	N	15	N	150	N	<.2
SK043	15	N	15	N	500	150	N	15	N	150	N	<.2
SK044	15	N	30	N	700	300	N	20	N	150	N	<.2
SK045	15	N	20	N	300	200	N	15	N	70	N	<.1
SK046	15	N	20	N	300	300	N	15	N	200	N	<.2
SK047	15	N	20	N	300	150	N	20	N	150	N	<.2
SK048	15	N	15	N	500	150	N	15	N	70	N	<.2
SK049	15	N	15	N	500	200	N	10	N	70	N	<.2
SK050	15	N	15	N	300	150	N	10	N	100	N	<.2
SK053	15	N	15	N	500	300	N	10	N	100	N	<.2
SK054	15	N	15	N	500	150	N	15	N	70	N	<.2
SK055	15	N	15	N	300	150	N	15	N	100	N	<.2
SK056	15	N	15	N	500	300	N	15	N	200	N	<.1
SK057	15	N	15	N	300	150	N	10	N	150	N	<.1
SK058	15	N	15	N	300	150	N	15	N	70	N	<.1
SK109	15	N	15	N	300	150	N	15	N	150	N	<.2
SK128	15	N	15	N	500	150	N	15	N	100	N	--
SK129	15	N	15	N	300	150	N	15	N	70	N	<.1
SK130	15	N	15	N	300	150	N	15	N	100	N	<.1
SK131	15	N	10	N	700	70	N	15	N	70	N	<.1
SK132	15	N	20	N	500	150	N	30	N	150	N	<.2
SK133	15	N	15	N	500	150	N	30	N	150	N	<.2
SK134	15	N	15	N	300	150	N	20	N	150	N	<.1
SK135	15	N	15	N	700	300	N	15	N	150	N	<.2
SK136	15	N	15	N	700	150	N	15	N	70	N	<.2
SK137	15	N	15	N	700	150	N	15	N	70	N	<.2
SK138	15	N	15	N	500	100	N	15	N	150	N	<.2
SK139	15	N	20	N	700	150	N	15	N	150	N	<.2
SK140	30	N	20	N	700	150	N	15	N	150	N	--
SK141	15	N	15	N	500	150	N	15	N	150	N	<.1
SK149	15	N	15	N	500	150	N	15	N	70	N	<.2
SK151	<10	N	15	N	500	150	N	10	N	50	N	<.1
SK153	<10	N	7	N	500	50	N	<10	N	30	N	<.1
SK155	20	N	10	10	700	150	N	10	N	100	N	<.1
SK220	15	N	10	10	300	300	N	<10	N	150	N	<.1
SK221	<10	N	15	N	500	200	N	10	N	70	N	--
SK222	10	N	15	N	300	300	N	10	N	70	N	<.1
SK223	<10	N	15	N	300	700	N	10	N	70	N	<.1
SK224	10	N	15	N	300	200	N	10	N	150	N	<.1
SK225	10	N	15	N	500	150	N	10	N	200	N	<.1
SK226	10	N	10	N	500	200	N	<10	N	70	N	<.1
SK227	10	N	15	N	500	150	N	15	N	200	N	<.1

TABLE 3A. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Hg-ppm aa	Te-ppm aa	Tl-ppm aa	As-ppm icp	Bi-ppm icp	Co-ppm icp	Sb-ppm icp	Zn-ppm icp	Th-ppm dn	U-ppm dn	Au-ppm faa
HH001S	3.40	--	--	28	<2	.3	5	45	--	--	--
HH002S	.23	--	--	7	<2	.2	<2	29	--	--	--
SK041	<.02	.021	.25	<5	<2	.1	<2	77	7.50	2.400	--
SK042	<.02	.018	.23	<5	<2	.3	<2	79	6.80	2.470	--
SK043	<.02	.016	.21	<5	<2	.5	<2	87	6.60	2.080	--
SK044	<.02	.015	.21	<5	<2	.5	<2	81	4.10	2.310	--
SK045	<.02	.018	.21	<5	<2	.2	<2	82	6.23	2.140	<.002
SK046	<.02	.010	.18	<5	<2	.9	<2	120	<19.00	<2.500	<.002
SK047	<.02	.013	.23	<5	<2	.4	<2	86	<5.50	2.630	--
SK048	<.02	.011	.25	<5	<2	.5	<2	64	<14.00	2.600	--
SK049	<.02	.033	.16	<5	<2	.4	<2	80	5.20	2.050	<.002
SK050	<.02	.200	.27	<5	<2	.3	<2	74	5.51	2.150	<.002
SK053	.60	.180	.20	<5	<2	.6	<2	110	<5.90	2.250	<.002
SK054	.05	.050	.25	<5	<2	.3	<2	53	5.20	2.300	.002
SK055	.02	.015	.29	<5	<2	.3	<2	55	5.74	2.010	--
SK056	<.02	.014	.22	<5	<2	.7	<2	150	5.56	2.140	<.002
SK057	1.30	.500	.45	12	<2	.2	<2	45	5.14	2.050	<.002
SK058	.95	.280	.52	8	<2	.5	<2	100	6.67	1.960	<.002
SK109	.02	.025	.25	<5	<2	.2	<2	70	6.85	2.150	--
SK128	.03	.021	.25	<5	<2	.5	<2	75	5.60	1.990	--
SK129	<.02	.012	.20	<5	<2	.3	<2	85	5.63	2.020	--
SK130	<.02	.017	.29	<5	<2	.3	<2	82	7.03	2.010	--
SK131	<.02	.011	.32	<5	<2	<.1	<2	54	6.70	2.770	N
SK132	.02	.013	.29	<5	<2	.3	<2	95	6.10	2.120	--
SK133	.04	.013	.29	<5	<2	.2	<2	72	5.90	2.220	--
SK134	.02	.018	.25	<5	<2	.4	<2	71	8.22	2.470	--
SK135	.03	.058	.34	<5	<2	.4	<2	100	9.40	1.600	<.002
SK136	<.02	.098	.27	<5	<2	.4	<2	67	<8.50	1.900	--
SK137	<.02	.120	.41	<5	<2	.2	<2	66	5.70	2.740	N
SK138	.02	.130	.30	<5	<2	.2	<2	64	<10.00	3.380	.008
SK139	<.02	.023	.33	<5	<2	.4	<2	84	6.65	1.930	--
SK140	.04	.094	.20	<5	<2	.3	<2	62	4.80	2.040	.004
SK141	<.02	.019	.28	<5	<2	.2	<2	57	5.74	2.540	--
SK149	<.02	.038	.33	<5	<2	.3	<2	58	8.90	2.150	<.002
SK151	<.02	<.010	.17	<5	<2	.3	<2	81	5.87	2.070	--
SK153	29.00	<.010	.46	34	<2	.2	<2	46	4.10	.893	<.002
SK155	13.00	<.010	.43	13	<2	.7	<2	56	23.60	4.620	<.002
SK220	.03	.016	.33	<5	<2	.8	<2	96	8.84	3.140	--
SK221	.03	.023	.35	5	<2	.6	<2	74	5.80	3.100	--
SK222	<.02	.015	.28	5	<2	1.2	<2	110	5.52	2.520	--
SK223	<.02	.014	.28	<5	<2	1.7	<2	120	6.81	2.740	--
SK224	<.02	.011	.33	<5	<2	.7	<2	110	7.62	2.750	--
SK225	.02	.013	.30	<5	<2	.6	<2	94	11.00	2.130	<.002
SK226	.02	.016	.25	<5	<2	.7	<2	99	8.68	2.290	<.002
SK227	.03	.016	.28	<5	<2	.9	<2	95	7.70	2.720	N

TABLE 3A. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
SK228	40 21 38	120 1 1	3	.7	1.5	.50	700	N	N	N
SK229	40 19 45	120 3 35	7	1.5	1.5	.70	1,000	N	N	N
SK230	40 20 34	120 7 33	5	1.0	1.5	.50	1,000	N	N	N
SK231	40 20 40	120 7 32	5	1.0	2.0	.30	700	N	N	N
SK232	40 18 31	120 8 8	3	1.0	1.5	.30	700	N	N	N
SK233	40 18 30	120 8 24	3	1.0	1.5	.30	700	N	N	N
SK234	40 19 23	120 10 59	5	1.5	3.0	.30	700	N	N	N
SK235	40 22 26	120 10 5	3	.7	1.5	.30	700	N	N	N
SK236	40 20 20	120 6 15	3	1.0	3.0	.30	700	N	N	N
SK237	40 20 23	120 6 59	5	1.5	2.0	.50	700	N	N	N
SK238	40 18 44	120 6 36	3	.7	1.5	.30	700	N	N	N

TABLE 3A. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	B-ppm s	Be-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
SK228	--	1,000	1.0	N	N	15	150	50	50	N	N	30
SK229	--	700	1.0	N	N	30	150	70	N	N	N	50
SK230	--	700	1.0	N	N	15	30	30	N	N	N	15
SK231	10	700	N	N	N	15	30	50	30	N	N	15
SK232	10	700	N	N	N	15	70	50	N	N	N	20
SK233	10	1,000	N	N	N	15	50	50	50	N	N	20
SK234	--	700	<1.0	N	N	15	30	50	N	N	<20	20
SK235	--	1,000	<1.0	N	N	15	70	30	N	N	<20	20
SK236	N	1,499	<1.0	N	N	15	70	30	30	N	<20	20
SK237	10	700	N	N	N	20	100	50	N	N	<20	30
SK238	--	1,000	N	N	N	10	50	70	N	N	N	15

TABLE 3A. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa
SK228	15	N	15	N	500	200	N	15	N	150	N	<.1
SK229	20	N	15	N	500	300	N	10	N	100	N	<.1
SK230	10	N	10	N	700	300	N	10	N	150	N	<.1
SK231	10	N	15	N	700	200	N	10	N	100	N	--
SK232	10	N	15	N	700	150	N	10	N	100	N	<.1
SK233	10	N	15	N	700	150	N	10	N	70	N	<.1
SK234	10	N	15	N	700	200	N	10	N	70	N	<.1
SK235	10	N	10	N	700	200	N	10	N	100	N	<.1
SK236	10	N	15	N	1,000	150	N	10	N	70	N	<.1
SK237	10	N	15	N	700	300	N	10	N	100	N	--
SK238	10	N	10	N	700	150	N	10	N	100	N	<.1

TABLE 3A. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Hg-ppm aa	Te-ppm aa	Tl-ppm aa	As-ppm icp	Bi-ppm icp	Co-ppm icp	Sb-ppm icp	Zn-ppm icp	Th-ppm dn	U-ppm dn	Au-ppm faa
SK228	.02	.016	.25	<5	<2	.5	<2	80	10.00	2.130	--
SK229	.02	.016	.20	<5	<2	1.4	<2	97	8.80	1.820	--
SK230	.02	.080	.34	5	<2	.6	<2	74	6.00	2.210	N
SK231	.02	.170	.36	<5	<2	.8	<2	83	11.00	2.200	<.002
SK232	.02	.014	.25	<5	<2	.7	<2	75	8.24	2.510	--
SK233	.02	.014	.36	<5	<2	.5	<2	58	8.23	2.630	--
SK234	.02	.012	.20	<5	<2	.5	<2	53	7.11	1.840	--
SK235	<.02	.010	.34	<5	<2	.2	<2	47	8.04	2.430	<.002
SK236	.04	.012	.22	<5	<2	.3	<2	66	5.83	1.930	N
SK237	.03	.240	.34	7	<2	.5	<2	76	12.00	1.700	N
SK238	.02	.078	.34	<5	<2	.8	<2	74	<13.00	3.500	<.002

TABLE 38. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.

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

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
DR026	40 32 47	119 55 47	3	.7	1.5	.3	700	N	N	N	<10
DR027	40 31 23	119 53 55	5	1.0	3.0	.7	700	N	N	N	N
DR029	40 27 14	119 54 8	3	2.0	3.0	.3	500	N	N	N	N
DR030	40 23 54	119 53 21	3	2.0	1.5	.3	500	N	N	N	N
DR031	40 23 27	119 53 11	3	1.5	1.5	.3	700	N	N	N	N
DR032	40 20 9	119 54 40	3	1.0	2.0	.3	700	N	N	N	<10
DR033	40 21 27	119 58 53	3	1.0	1.5	.3	700	N	N	N	10
DR034	40 23 9	119 56 53	5	1.5	2.0	.5	700	N	N	N	<10
DR035	40 25 2	119 56 39	7	1.5	1.5	.7	500	N	N	N	N
DR036	40 26 5	119 59 20	10	1.0	1.5	>1.0	500	N	N	N	<10
DR037	40 27 35	119 57 10	5	1.0	1.5	.3	700	N	N	N	<10
DR038	40 31 29	119 58 28	5	.7	2.0	.7	700	N	N	N	N
DR039	40 31 39	119 59 1	7	1.0	1.5	.7	500	N	N	N	N
DR040	40 31 27	120 1 50	3	.7	1.5	.5	500	N	N	N	N
DR110	40 32 55	119 56 47	3	1.0	3.0	.5	500	N	N	N	N
DR111	40 30 28	119 53 46	7	1.0	2.0	.7	700	N	N	N	N
DR112	40 29 28	119 56 29	3	1.0	2.0	.3	700	N	N	N	<10
DR113	40 29 26	119 56 26	5	1.5	1.5	.5	700	N	N	N	<10
DR114	40 25 55	119 53 14	5	2.0	3.0	.3	700	N	N	N	N
DR115	40 24 20	119 53 58	3	1.0	1.5	.3	700	N	N	N	<10
DR116	40 23 10	119 53 6	3	1.5	2.0	.3	500	N	N	N	N
DR117	40 20 38	119 54 25	3	.7	2.0	.3	700	N	N	N	N
DR118	40 21 5	119 58 43	3	1.0	1.5	.3	700	N	N	N	<10
DR119	40 23 21	119 58 51	7	1.5	3.0	1.0	700	N	N	N	<10
DR120	40 25 1	119 56 31	7	2.0	3.0	1.0	700	N	N	N	<10
DR121	40 26 23	119 58 13	5	1.5	1.5	.3	700	N	N	N	<10
DR122	40 26 59	119 58 35	5	.7	1.5	.3	700	N	N	N	<10
DR123	40 32 59	119 58 51	5	.7	2.0	.3	1,000	N	N	N	<10
DR124	40 31 41	119 59 37	3	1.0	1.5	.3	700	N	N	N	N
DR125	40 31 27	120 1 20	3	1.0	1.5	.3	700	N	N	N	N
DR126	40 29 18	120 2 52	2	1.0	1.5	.3	700	N	N	N	10
DR127	40 27 28	120 0 31	3	1.0	1.5	.3	700	N	N	N	<10
DR205	40 33 4	119 57 48	5	1.5	1.5	.5	1,000	N	N	N	<10
DR206	40 31 54	119 54 53	3	1.5	1.5	.5	1,000	N	N	N	<10
DR207	40 29 1	119 54 16	3	2.0	2.0	.3	700	N	N	N	<10
DR208	40 27 58	119 54 52	3	3.0	2.0	.3	1,000	N	N	N	N
DR209	40 24 56	119 53 19	2	2.0	1.5	.2	700	N	N	N	<10
DR210	40 21 39	119 53 57	3	1.5	1.5	.3	700	N	N	N	10
DR211	40 19 27	119 54 44	3	1.5	1.5	.3	1,000	N	N	N	<10
DR212	40 19 17	119 58 13	7	1.5	1.5	.7	700	N	N	N	<10
DR213	40 22 32	119 58 15	3	.7	1.5	.3	700	N	N	N	<10
DR215	40 26 46	119 57 55	5	1.5	1.5	.7	700	N	N	N	<10
DR216	40 31 25	119 58 32	2	1.0	2.0	.5	700	N	N	N	<10
DR217	40 32 54	119 59 44	2	1.5	1.5	.3	500	N	N	N	<10
DR218	40 30 11	120 1 59	2	1.0	1.5	.5	500	N	N	N	10
DR219	40 27 38	120 1 25	2	1.5	1.5	.3	700	N	N	N	<10

TABLE 3B. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
DR026	1,500	1.0	N	N	15	20	30	50	N	<20	15	15
DR027	1,000	<1.0	N	N	15	10	30	N	N	<20	7	10
DR029	500	N	N	N	20	150	70	N	N	N	30	N
DR030	500	N	N	N	20	100	70	N	N	N	30	N
DR031	500	N	N	N	15	70	70	N	N	<20	30	10
DR032	700	1.0	N	N	15	15	30	N	N	<20	7	15
DR033	1,000	1.0	N	N	15	70	50	30	N	<20	30	15
DR034	700	<1.0	N	N	30	300	30	N	N	<20	50	10
DR035	700	N	N	N	30	300	70	N	N	<20	50	10
DR036	500	N	N	N	50	70	50	N	N	<20	30	15
DR037	700	1.0	N	N	30	150	70	N	N	N	30	15
DR038	1,000	1.0	N	N	20	70	70	N	N	<20	30	15
DR039	700	1.0	N	N	30	200	70	N	N	<20	50	15
DR040	700	<1.0	N	N	15	150	50	N	N	<20	30	15
DR110	700	N	N	N	15	70	50	N	N	N	20	10
DR111	700	N	N	N	30	100	70	N	N	N	30	N
DR112	700	N	N	N	20	100	70	N	N	<20	30	10
DR113	700	N	N	N	30	150	70	70	N	N	50	15
DR114	700	N	N	N	20	150	100	N	N	N	50	<10
DR115	700	N	N	N	20	150	70	N	N	<20	50	<10
DR116	700	N	N	<30	15	70	70	N	N	N	30	<10
DR117	1,000	N	N	<30	15	30	30	N	N	N	15	10
DR118	700	<1.0	N	<30	20	150	70	<30	N	N	30	15
DR119	700	<1.0	N	<30	30	200	70	30	N	<20	50	15
DR120	700	N	N	<30	30	200	70	N	N	<20	50	10
DR121	700	<1.0	N	<30	20	150	70	N	N	<20	30	15
DR122	700	N	N	<30	15	30	30	N	N	<20	15	10
DR123	1,000	N	N	<30	20	70	50	N	N	<20	20	15
DR124	700	N	N	<30	20	150	50	N	N	N	30	15
DR125	700	<1.0	N	<30	15	150	50	N	N	N	30	15
DR126	300	<1.0	N	<30	15	100	30	30	N	<20	30	15
DR127	500	1.0	N	<30	15	70	30	30	N	<20	20	15
DR205	500	<1.0	N	<30	15	30	30	30	N	N	20	10
DR206	500	<1.0	N	<30	15	30	30	30	N	N	7	15
DR207	300	N	N	<30	15	70	50	<30	N	<20	30	<10
DR208	200	N	N	<30	15	70	70	N	N	N	30	<10
DR209	200	N	N	<30	15	150	70	N	N	<20	70	<10
DR210	500	1.5	N	<30	15	50	30	30	N	<20	20	15
DR211	700	1.5	N	<30	15	50	30	30	N	<20	20	15
DR212	300	1.0	N	<30	20	100	30	30	N	<20	30	15
DR213	300	1.0	N	<30	15	70	30	30	N	<20	30	15
DR215	300	1.0	N	<30	20	150	50	30	N	<20	30	15
DR216	500	1.5	N	<30	15	70	30	50	N	<20	30	15
DR217	300	<1.0	N	<30	15	50	30	N	N	<20	20	15
DR218	300	<1.0	N	<30	15	50	30	30	N	<20	30	15
DR219	500	1.0	N	N	15	70	30	30	N	<20	30	15

TABLE 3B. RESULTS OF ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Th-ppm dn	U-ppm dn
DR026	N	15	N	1,000	200	N	20	N	100	N	3.50	1.840
DR027	N	20	N	1,000	500	N	20	N	100	N	<1.80	1.230
DR029	N	20	N	700	200	N	10	N	50	N	<1.60	.486
DR030	N	15	N	500	150	N	10	N	50	N	2.70	.881
DR031	N	15	N	500	200	N	10	N	100	N	3.60	1.780
DR032	N	15	N	700	200	N	15	N	150	N	6.19	2.230
DR033	N	15	N	500	150	N	15	N	150	N	4.70	2.230
DR034	N	20	N	700	500	N	15	N	150	N	7.20	2.790
DR035	N	15	N	500	500	N	10	N	150	N	4.10	1.620
DR036	N	15	N	300	700	N	10	N	150	N	5.00	3.270
DR037	N	15	N	700	300	N	15	N	150	N	3.90	1.930
DR038	N	15	N	700	300	N	15	N	150	N	4.70	2.240
DR039	N	15	N	500	300	N	15	N	200	N	<9.60	2.200
DR040	N	10	N	500	200	N	15	N	150	N	5.80	2.550
DR110	N	15	N	1,000	300	N	15	N	100	N	<4.40	1.510
DR111	N	15	N	1,000	500	N	15	N	100	N	2.70	1.480
DR112	N	15	N	700	300	N	20	N	200	N	<5.70	1.940
DR113	N	15	N	700	300	N	30	N	150	N	--	--
DR114	N	15	N	1,000	200	N	15	N	100	N	--	--
DR115	N	15	N	700	150	N	15	N	150	N	4.20	1.850
DR116	N	15	N	700	200	N	15	N	70	N	4.81	1.400
DR117	N	10	N	700	200	N	15	N	150	N	7.20	1.990
DR118	N	10	N	500	150	N	15	N	150	N	5.94	2.380
DR119	N	20	N	700	500	N	20	N	150	N	<5.50	2.610
DR120	N	20	N	700	500	N	20	N	150	N	<2.10	1.400
DR121	N	15	N	500	300	N	20	N	150	N	5.00	1.980
DR122	N	10	N	700	150	N	20	N	150	N	8.30	2.250
DR123	N	15	N	700	200	N	30	N	150	N	4.90	2.090
DR124	N	15	N	500	150	N	20	N	150	N	6.60	2.190
DR125	N	15	N	500	150	N	20	N	200	N	5.40	2.580
DR126	N	10	N	300	150	N	20	N	300	N	10.00	1.700
DR127	N	7	N	200	100	N	20	N	150	N	7.70	2.400
DR205	N	15	N	500	150	N	20	N	70	N	<12.00	<1.900
DR206	N	15	N	500	150	N	20	N	70	N	3.40	1.290
DR207	N	15	N	300	150	N	15	N	30	N	--	--
DR208	N	15	N	300	150	N	10	N	30	N	<1.30	.372
DR209	N	7	N	300	100	N	<10	N	30	N	<2.10	.720
DR210	N	10	N	300	150	N	15	N	100	N	<16.00	<2.000
DR211	N	10	N	300	150	N	15	N	100	N	5.60	2.490
DR212	N	10	N	300	300	N	15	N	150	N	11.80	3.320
DR213	N	10	N	300	150	N	20	N	70	N	<5.00	2.440
DR215	N	15	N	300	300	N	15	N	150	N	7.38	2.210
DR216	N	10	N	300	150	N	15	N	100	N	<140.00	<25.000
DR217	N	7	N	150	70	N	10	N	50	N	7.30	1.810
DR218	N	7	N	300	150	N	20	N	150	N	8.62	2.110
DR219	N	7	N	300	150	N	30	N	150	N	8.51	2.370

TABLE 4A. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.

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

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
SK041	40 26 13	120 1 12	.7	.07	1.0	>2.0	300	N	N	N
SK042	40 25 52	120 4 34	.5	<.10	2.0	.3	100	N	N	N
SK043	40 25 15	120 7 45	.3	.10	1.0	2.0	200	N	N	N
SK044	40 25 8	120 7 54	.5	.10	2.0	>2.0	300	N	N	N
SK046	40 23 2	120 4 52	.7	.20	1.0	2.0	500	N	N	N
SK047	40 22 53	120 1 10	.7	.30	1.0	>2.0	500	N	N	N
SK048	40 19 51	120 2 30	.5	.10	3.0	>2.0	700	N	N	N
SK049	40 20 38	120 7 5	.7	.20	5.0	>2.0	700	N	N	N
SK050	40 20 44	120 7 18	.5	.05	3.0	>2.0	300	N	N	N
SK051	40 20 48	120 7 17	.7	.20	3.0	.5	200	N	N	N
SK052	40 20 52	120 7 23	.7	.07	2.0	2.0	300	N	N	N
SK053	40 20 24	120 8 59	.5	.10	2.0	>2.0	300	N	N	N
SK054	40 20 25	120 9 2	2.0	1.00	5.0	>2.0	2,000	N	N	N
SK055	40 21 1	120 10 32	1.5	1.00	5.0	>2.0	1,000	N	N	N
SK056	40 24 37	120 9 4	.3	.05	2.0	>2.0	300	N	N	N
SK057	40 21 40	120 8 53	.7	.20	2.0	>2.0	300	N	N	N
SK058	40 21 37	120 8 52	.7	.10	1.0	>2.0	200	N	N	N
SK109	40 24 17	120 2 39	.7	1.00	5.0	>2.0	700	N	N	N
SK128	40 25 48	120 6 32	1.5	.70	<.1	.5	1,500	N	500	N
SK129	40 24 18	120 7 17	.2	<.05	.3	1.0	150	N	N	N
SK131	40 23 29	120 7 13	1.0	.70	2.0	2.0	700	N	N	<20
SK132	40 23 52	120 3 7	1.0	.70	3.0	>2.0	700	N	N	N
SK133	40 23 12	120 1 23	1.0	.50	5.0	>5.0	1,000	N	N	N
SK134	40 20 48	120 1 24	.5	.05	2.0	>2.0	300	N	N	N
SK135	40 20 15	120 5 27	.7	.20	1.0	>2.0	500	N	N	N
SK137	40 20 23	120 6 59	1.0	.50	1.0	>2.0	500	N	N	N
SK138	40 20 32	120 7 8	.7	.10	1.5	>2.0	200	N	N	N
SK139	40 18 40	120 9 52	1.0	.50	5.0	>5.0	1,000	N	N	N
SK140	40 19 12	120 10 59	1.5	1.00	2.0	2.0	700	N	N	N
SK141	40 23 52	120 9 59	.5	.20	1.5	>2.0	500	N	N	N
SK149	40 20 24	120 5 59	.7	.30	1.5	>2.0	200	N	N	N
SK155	40 18 10	120 11 40	.7	.05	7.0	>2.0	1,500	N	N	N
SK220	40 25 31	120 0 31	.7	.15	1.0	>2.0	500	N	N	N
SK221	40 26 7	120 2 58	1.0	.20	2.0	>2.0	700	N	N	N
SK222	40 24 3	120 6 29	.5	<.10	1.0	.3	200	N	N	N
SK223	40 23 53	120 5 40	.3	.05	1.0	2.0	200	N	N	N
SK224	40 22 57	120 4 13	.5	.20	2.0	>2.0	300	N	N	N
SK225	40 22 57	120 3 58	.3	.05	2.0	>2.0	200	N	N	N
SK226	40 22 10	120 5 28	3.0	2.00	3.0	>2.0	1,500	N	N	N
SK227	40 23 48	120 1 52	.2	<.05	1.5	>2.0	200	N	N	N
SK228	40 21 38	120 1 1	.7	.30	2.0	>2.0	700	N	N	N
SK229	40 19 45	120 3 35	1.0	1.50	2.0	>2.0	700	N	N	N
SK230	40 20 34	120 7 33	1.5	1.00	2.0	>2.0	700	N	N	N
SK231	40 20 40	120 7 32	1.0	.15	1.0	>2.0	300	N	N	N
SK232	40 18 31	120 8 8	1.0	1.00	2.0	>2.0	700	N	N	N

TABLE 4A. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
SK041	20	500	<2	N	N	N	<20	N	100	N	N	20
SK042	N	700	<5	N	N	N	N	N	<100	N	N	<20
SK043	<20	500	3	N	N	N	N	500	150	N	N	20
SK044	20	300	<2	N	N	N	30	15	150	N	N	15
SK046	20	700	<2	N	N	N	<20	N	70	N	N	20
SK047	20	3,000	N	N	N	N	20	<10	200	N	<50	20
SK048	50	5,000	N	N	N	N	<20	20	500	N	<50	10
SK049	100	>10,000	N	N	N	N	20	15	500	N	<50	15
SK050	300	3,000	N	N	N	N	20	10	150	N	<50	20
SK051	20	1,500	N	N	N	10	N	10	N	N	N	<10
SK052	20	>10,000	N	N	N	<10	<20	<10	N	N	N	<10
SK053	20	>10,000	<2	N	N	<10	<20	<10	200	N	N	<10
SK054	100	10,000	N	N	N	10	30	10	500	N	<50	10
SK055	20	3,000	N	N	N	10	30	15	500	N	<50	15
SK056	30	200	N	N	N	N	N	N	200	N	N	10
SK057	200	>10,000	<2	N	N	N	70	10	150	N	N	15
SK058	200	>10,000	N	N	N	<10	50	10	100	N	<50	<10
SK109	70	1,500	N	N	N	N	70	10	500	N	<50	30
SK128	20	2,000	N	N	N	15	100	30	N	N	N	30
SK129	<20	150	2	N	N	N	N	N	N	N	N	20
SK131	20	500	<2	N	N	10	<20	<10	300	N	N	30
SK132	30	700	N	N	N	<10	100	20	500	N	<50	30
SK133	<50	500	N	N	N	N	N	<20	1,000	N	100	50
SK134	20	5,000	N	N	N	<10	N	100	200	N	N	10
SK135	50	10,000	N	N	N	<10	<20	<10	200	N	<50	20
SK137	20	5,000	<2	N	N	N	100	10	200	N	N	50
SK138	200	>10,000	N	N	N	<10	20	10	200	N	<50	<10
SK139	50	15,000	N	N	N	20	<50	20	700	N	150	70
SK140	50	5,000	N	<20	N	10	<20	1,500	100	N	<50	15
SK141	30	200	2	N	N	N	<20	<10	300	N	N	20
SK149	150	3,000	N	N	N	10	<20	10	100	N	N	20
SK155	50	200	N	N	N	N	N	15	1,500	N	100	N
SK220	50	>10,000	N	N	N	N	N	<10	300	N	<50	20
SK221	30	2,000	N	N	N	N	50	N	500	N	<50	30
SK222	<50	700	N	N	N	N	N	N	<100	N	N	50
SK223	<20	500	<2	N	N	N	N	N	150	N	N	20
SK224	20	200	N	N	N	N	N	30	200	N	N	100
SK225	20	500	N	N	N	N	N	N	200	N	N	10
SK226	<20	1,000	N	N	N	20	50	10	500	N	<50	30
SK227	50	700	N	N	N	N	N	N	200	<10	N	15
SK228	50	5,000	N	N	N	N	70	100	300	N	<50	30
SK229	70	7,000	N	N	N	N	50	30	500	<10	50	50
SK230	20	2,000	<2	N	N	N	<20	<10	300	N	<50	20
SK231	700	500	N	N	N	10	20	10	150	N	<50	10
SK232	20	>10,000	N	N	N	15	20	15	200	<10	50	20

TABLE 4A. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa
SK041	100	N	50	N	500	200	N	300	N	>2,000	N	N
SK042	N	N	N	N	1,000	50	N	70	N	2,000	N	N
SK043	20	N	100	N	500	150	N	500	N	>2,000	200	N
SK044	N	N	50	N	500	200	N	300	N	>2,000	N	N
SK046	N	<200	70	N	300	100	N	500	N	>2,000	N	N
SK047	N	N	50	<20	200	200	N	500	N	>2,000	200	N
SK048	200	N	30	20	200	300	N	500	N	>2,000	N	N
SK049	N	N	20	N	1,000	300	N	300	N	>2,000	N	N
SK050	100	N	30	N	1,000	300	N	200	N	>2,000	N	N
SK051	N	N	N	N	1,000	30	N	70	N	2,000	N	N
SK052	N	N	N	N	2,000	100	N	50	N	300	N	N
SK053	3,000	N	20	N	700	150	N	300	N	>2,000	N	N
SK054	<20	N	30	N	700	200	N	200	N	>2,000	N	N
SK055	3,000	N	<10	N	500	200	N	300	N	>2,000	N	N
SK056	N	300	70	N	200	150	N	500	N	>2,000	N	6.25
SK057	30	N	50	N	1,000	700	N	200	N	>2,000	N	N
SK058	50	N	<10	N	1,000	300	N	70	N	2,000	N	N
SK109	N	N	50	20	200	500	N	500	N	>2,000	<200	N
SK128	100	N	20	N	N	150	N	20	N	200	N	N
SK129	N	N	70	N	200	70	N	500	N	>2,000	N	N
SK131	N	N	50	N	700	100	N	300	N	>2,000	N	<33.00
SK132	700	N	50	20	200	300	N	500	N	>2,000	200	N
SK133	N	N	50	N	<500	500	N	1,000	N	N	N	N
SK134	200	N	30	<20	500	150	N	300	N	N	<200	N
SK135	<20	N	50	20	200	200	N	300	N	N	N	N
SK137	N	N	70	20	200	200	N	500	N	>2,000	N	N
SK138	70	N	<10	<20	2,000	200	N	150	N	>2,000	N	N
SK139	N	N	<20	N	500	300	N	500	N	>5,000	N	N
SK140	50,000	700	<10	N	700	100	N	100	N	>2,000	N	--
SK141	300	N	100	70	<200	200	N	500	N	>2,000	N	N
SK149	100	N	N	N	500	100	N	100	N	>2,000	N	8.05
SK155	50	N	<10	150	N	500	N	1,000	N	>2,000	500	N
SK220	20	N	70	N	700	200	N	700	N	>2,000	N	N
SK221	<50	N	70	<20	<200	500	N	700	N	>2,000	N	N
SK222	N	N	50	N	500	150	N	500	N	>5,000	N	N
SK223	N	N	100	N	200	150	N	500	N	>2,000	<200	N
SK224	<20	N	70	<20	200	200	N	700	N	>2,000	<200	N
SK225	<20	N	70	N	200	150	N	500	N	>2,000	<200	<36.00
SK226	N	N	50	N	200	300	N	500	N	>2,000	N	N
SK227	50	N	70	N	200	150	N	500	N	>2,000	300	<19.00
SK228	200	N	50	20	200	200	N	500	N	>2,000	N	N
SK229	70	N	30	50	<200	200	N	500	N	>2,000	200	N
SK230	<20	N	70	<20	<200	300	N	700	N	>2,000	N	--
SK231	150	N	<10	N	1,000	200	N	100	N	>2,000	N	N
SK232	300	N	20	<20	200	150	N	300	N	>2,000	N	N

TABLE 4A. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
SK233	40 18 30	120 8 24	.7	.70	5.0	>2.0	700	N	N	N
SK235	40 22 26	120 10 5	.5	.10	5.0	>2.0	300	N	N	N
SK236	40 20 20	120 6 15	1.0	1.00	5.0	2.0	500	N	N	N
SK237	40 20 23	120 6 59	.7	.10	2.0	>2.0	300	N	N	N
SK238	40 18 44	120 6 36	.7	.20	1.5	>2.0	300	20	N	N
SK235	40 22 26	120 10 5	.5	.10	5.0	>2.0	300	N	N	N
SK236	40 20 20	120 6 15	1.0	1.00	5.0	2.0	500	N	N	N
SK237	40 20 23	120 6 59	.7	.10	2.0	>2.0	300	N	N	N
SK238	40 18 44	120 6 36	.7	.20	1.5	>2.0	300	20	N	N
HH001C	41 0 0	120 52 15	3.0	.50	3.0	>2.0	7,000	1,000	N	>1,000
HH002C	40 59 21	120 50 55	1.0	.30	15.0	>2.0	500	3	N	<20

TABLE 4A. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
SK233	50	>10,000	N	N	N	10	20	30	300	N	50	30
SK235	30	1,500	N	N	N	N	N	<10	300	N	<50	10
SK236	20	1,500	N	N	N	10	20	20	200	N	<50	20
SK237	150	>10,000	N	N	N	10	50	15	100	N	<50	<10
SK238	20	>10,000	N	N	N	10	20	20	100	<10	<50	20
SK235	30	1,500	N	N	N	N	N	<10	300	N	<50	10
SK236	20	1,500	N	N	N	10	20	20	200	N	<50	20
SK237	150	>10,000	N	N	N	10	50	15	100	N	<50	<10
SK238	20	>10,000	N	N	N	10	20	20	100	<10	<50	20
HH001C	20	1,000	2	N	N	15	70	50	150	N	N	15
HH002C	70	500	2	N	N	<10	N	<10	200	N	50	<10

TABLE 4A. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Bb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa
SK233	<20	N	20	20	200	150	N	300	N	>2,000	<200	N
SK235	N	N	50	<20	<200	300	N	500	N	>2,000	N	N
SK236	<20	N	<10	N	500	150	N	200	N	>2,000	N	N
SK237	300	N	<10	50	1,000	300	N	100	N	>2,000	N	N
SK238	200	N	<10	50	500	100	N	200	N	>2,000	N	N
SK235	N	N	50	<20	<200	300	N	500	N	>2,000	N	N
SK236	<20	N	<10	N	500	150	N	200	N	>2,000	N	N
SK237	300	N	<10	50	1,000	300	N	100	N	>2,000	N	N
SK238	200	N	<10	50	500	100	N	200	N	>2,000	N	N
HW001C	2,000	200	20	200	500	150	N	100	N	>2,000	N	--
HW002C	100	N	70	N	500	150	N	200	N	>2,000	N	--

TABLE 4B. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.

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

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
DR026	40 32 47	119 55 47	.5	.05	5	.3	50	N	N	N
DR027	40 31 23	119 53 55	.7	.07	5	.5	100	N	N	N
DR029	40 27 14	119 54 8	1.5	1.00	7	.7	150	N	N	N
DR030	40 23 54	119 53 21	.7	.20	7	.2	100	N	N	N
DR031	40 23 27	119 53 11	.7	.20	7	>2.0	1,000	N	N	N
DR032	40 20 9	119 54 40	.7	.20	5	.5	100	N	N	N
DR033	40 21 27	119 58 53	.5	.20	3	>2.0	300	N	N	N
DR034	40 23 9	119 56 53	.3	.05	2	.7	50	N	N	N
DR035	40 25 2	119 56 39	.5	.10	3	.3	70	N	N	N
DR036	40 26 5	119 59 20	.3	.05	3	.3	70	N	N	N
DR037	40 27 35	119 57 10	.5	.07	3	1.5	70	N	N	N
DR038	40 31 29	119 58 28	.7	.10	3	2.0	100	N	N	N
DR039	40 31 39	119 59 1	.7	.15	5	>2.0	300	N	N	N
DR040	40 31 27	120 1 50	.7	.10	3	>2.0	300	N	N	N
DR110	40 32 55	119 56 47	3.0	1.00	3	>2.0	1,000	N	N	N
DR111	40 30 28	119 53 46	.5	.20	5	.3	300	N	N	N
DR112	40 29 28	119 56 29	1.0	.50	5	>2.0	200	N	N	N
DR113	40 29 26	119 56 26	1.5	.50	7	.5	500	N	N	N
DR115	40 24 20	119 53 58	.7	.15	3	>2.0	500	N	N	N
DR116	40 23 10	119 53 6	1.0	.30	3	.7	100	N	N	N
DR117	40 20 38	119 54 25	.7	.15	3	1.5	150	N	N	N
DR118	40 21 5	119 58 43	.5	.10	2	1.0	70	N	N	N
DR119	40 23 21	119 58 51	.7	.10	3	>2.0	150	N	N	N
DR120	40 25 1	119 56 31	1.0	.20	3	1.0	200	N	N	N
DR121	40 26 23	119 58 13	1.0	.10	5	.7	100	N	N	N
DR122	40 26 59	119 58 35	.7	.07	3	.3	100	N	N	N
DR123	40 32 59	119 58 51	.7	.15	3	1.5	150	N	N	N
DR124	40 31 41	119 59 37	.5	.15	3	>2.0	300	N	N	N
DR125	40 31 27	120 1 20	.5	.05	3	>2.0	200	N	N	N
DR126	40 29 18	120 2 57	2.0	.20	5	>2.0	500	N	N	N
DR127	40 27 28	120 0 31	1.0	.30	5	>2.0	500	N	N	N
DR205	40 33 4	119 57 48	1.0	.15	3	1.0	100	N	N	N
DR206	40 31 54	119 54 53	1.0	.20	3	1.0	150	N	N	N
DR207	40 29 1	119 54 16	3.0	.70	2	.5	300	N	N	N
DR208	40 27 58	119 54 52	2.0	.20	5	1.5	500	N	N	N
DR210	40 21 39	119 53 57	1.0	.20	2	1.5	150	N	N	N
DR211	40 19 27	119 54 44	1.0	.50	5	>2.0	1,000	N	N	N
DR212	40 19 17	119 58 13	.5	.05	2	1.0	100	N	N	N
DR213	40 22 32	119 58 15	.5	.10	2	>2.0	300	N	N	N
DR214	40 24 5	119 57 8	.7	.20	2	>2.0	200	N	N	N
DR215	40 26 46	119 57 55	.7	.10	3	.2	70	N	N	N
DR216	40 31 25	119 58 32	.5	.07	2	.5	70	N	N	N
DR217	40 32 54	119 59 44	1.0	.70	2	>2.0	200	N	N	N
DR218	40 30 11	120 1 59	.5	.20	2	1.0	70	N	N	N
DR219	40 27 38	120 1 25	1.0	.50	2	>2.0	200	N	N	N

TABLE 4B. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
DR026	<20	700	N	N	N	<10	N	N	N	N	N
DR027	20	500	N	N	N	<10	N	N	N	N	N
DR029	<20	1,500	N	N	N	10	20	30	<50	N	N
DR030	<20	1,000	N	N	N	10	N	10	<50	N	N
DR031	20	1,000	N	N	N	10	<20	10	500	10	70
DR032	20	1,000	N	N	N	10	N	<10	<50	N	N
DR033	30	5,000	N	N	N	10	N	100	300	10	50
DR034	20	700	N	N	N	<10	N	N	<50	N	N
DR035	<20	700	N	N	N	<10	N	15	N	N	N
DR036	<20	500	N	N	N	<10	N	30	N	N	N
DR037	<20	500	N	N	N	10	N	N	<50	N	N
DR038	<20	700	N	N	N	10	N	N	100	<10	<50
DR039	20	3,000	N	N	N	10	N	<10	150	<10	<50
DR040	<20	300	N	N	N	10	N	N	150	<10	<50
DR110	<20	700	N	N	N	15	N	15	200	<10	<50
DR111	<20	1,500	N	N	N	<10	N	N	N	N	N
DR112	20	500	N	N	N	<10	N	15	150	N	<50
DR113	<50	700	<5	N	N	N	N	300	500	N	N
DR115	<20	1,000	N	N	N	10	N	20	300	<10	50
DR116	<20	1,000	N	N	N	<10	N	10	<50	N	N
DR117	<20	700	N	N	N	<10	N	N	<50	N	N
DR118	<20	5,000	N	N	N	<10	N	10	<50	N	N
DR119	20	1,500	N	N	N	<10	N	N	150	N	50
DR120	<20	1,000	N	N	N	10	N	10	100	N	<50
DR121	<20	700	N	N	N	<10	N	<10	<50	N	N
DR122	<20	3,000	N	N	N	10	N	N	N	N	N
DR123	<20	700	N	N	N	<10	N	<10	100	N	N
DR124	20	1,500	N	N	N	<10	N	10	300	N	<50
DR125	20	200	N	N	N	<10	N	10	200	<10	<50
DR126	<20	5,000	N	N	N	10	50	N	200	N	N
DR127	20	5,000	2	N	N	10	20	<10	300	N	N
DR205	<20	700	N	N	N	<10	N	N	<50	N	N
DR206	<20	700	N	N	N	<10	N	N	<50	N	N
DR207	<50	700	N	N	N	20	<50	<20	<100	N	N
DR208	N	700	N	N	N	10	20	10	<50	N	N
DR210	50	5,000	<2	N	N	<10	N	20	100	N	N
DR211	20	3,000	N	N	N	10	20	20	500	15	70
DR212	<20	1,000	N	N	N	10	N	N	<50	N	N
DR213	20	2,000	N	N	N	10	N	<10	500	<10	50
DR214	20	1,000	N	N	N	10	<20	N	200	<10	50
DR215	<20	500	N	N	N	<10	N	N	100	N	N
DR216	<20	2,000	N	N	N	<10	N	N	<50	N	N
DR217	50	1,000	N	N	N	10	50	N	200	N	<50
DR218	<20	300	N	N	N	<10	<20	N	100	N	N
DR219	20	500	N	N	N	10	<20	<10	150	N	N

TABLE 4B. RESULTS OF ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
DR026	<10	N	N	N	N	1,000	30	N	50	N	>2,000	N
DR027	<10	N	N	N	N	1,000	20	N	50	N	>2,000	N
DR029	20	N	N	N	<20	700	70	N	50	N	>2,000	N
DR030	10	N	N	N	N	1,000	30	N	50	N	>2,000	N
DR031	20	30	N	<10	30	500	200	N	300	N	>2,000	N
DR032	N	7,000	N	N	<20	1,000	50	N	20	N	>2,000	N
DR033	20	30	N	20	20	500	200	N	300	N	>2,000	200
DR034	10	200	N	N	N	500	70	N	100	N	>2,000	N
DR035	10	50	N	N	N	700	50	N	20	N	2,000	N
DR036	<10	30	N	N	N	1,000	20	N	20	N	2,000	N
DR037	10	N	N	<10	N	700	70	N	150	N	>2,000	N
DR038	10	N	N	<10	N	700	100	N	100	N	>2,000	N
DR039	15	30	N	20	<20	700	150	N	150	N	>2,000	N
DR040	10	N	N	20	N	500	100	N	150	N	>2,000	N
DR110	20	N	N	50	<20	500	300	N	200	N	>2,000	<200
DR111	N	20	N	N	N	1,500	20	N	50	N	>2,000	200
DR112	10	N	N	N	<20	700	100	N	150	N	>2,000	N
DR113	30	N	N	<20	N	1,000	200	N	300	N	>5,000	N
DR115	20	50	N	20	70	300	150	N	300	N	>2,000	<200
DR116	10	N	N	N	N	1,000	50	N	50	N	>2,000	N
DR117	<10	1,500	N	N	N	1,000	70	N	100	N	>2,000	N
DR118	10	50	N	<10	N	500	70	N	150	N	>2,000	200
DR119	<10	<20	N	<10	N	500	100	N	150	N	>2,000	<200
DR120	10	<20	N	N	N	1,000	70	N	100	N	>2,000	N
DR121	<10	N	N	N	N	1,000	50	N	50	N	>2,000	N
DR122	<10	N	N	N	N	1,000	20	N	20	N	>2,000	N
DR123	<10	50	N	N	N	700	30	N	70	N	>2,000	N
DR124	15	N	N	50	<20	200	200	N	500	N	>2,000	<200
DR125	10	<20	N	20	<20	500	200	N	200	N	>2,000	N
DR126	20	N	N	50	<20	500	300	N	500	N	>2,000	N
DR127	20	N	N	50	<20	500	200	N	500	N	>2,000	N
DR205	<10	N	N	N	N	1,000	70	N	100	N	>2,000	N
DR206	<10	N	N	N	N	1,000	70	N	70	N	>2,000	N
DR207	50	150	N	30	N	700	200	N	300	N	>5,000	<500
DR208	30	N	N	30	N	700	100	N	100	N	>2,000	N
DR210	10	5,000	N	N	N	500	70	N	150	N	>2,000	<200
DR211	20	500	N	10	30	300	200	N	500	N	>2,000	<200
DR212	10	<20	N	N	N	1,000	50	N	50	N	>2,000	N
DR213	15	<20	N	20	30	300	200	N	500	N	>2,000	<200
DR214	10	N	N	<10	20	500	100	N	150	N	>2,000	<200
DR215	<10	N	N	N	100	1,500	20	N	<20	N	2,000	N
DR216	<10	N	N	N	N	1,000	50	N	50	N	>2,000	N
DR217	15	N	N	20	N	700	100	N	200	N	>2,000	N
DR218	<10	N	N	<10	N	700	70	N	100	N	>2,000	N
DR219	10	N	N	20	N	500	70	N	150	N	>2,000	N

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.

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

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
HH001R1	41 0 0	120 52 15	10.00	.20	.05	.200	150	20.0	N	N
HH001R2	41 0 0	120 52 15	5.00	.20	.07	.500	500	30.0	N	N
HH001R3	41 0 0	120 52 15	.50	.10	.07	.150	100	30.0	N	N
HH001R4	41 0 0	120 52 15	10.00	5.00	5.00	.500	1,000	N	N	N
SK043	40 25 15	120 7 45	5.00	3.00	5.00	.300	500	N	N	N
SK045A	40 22 55	120 4 51	2.00	.70	2.00	.150	300	N	N	N
SK045B	40 22 55	120 4 51	3.00	1.50	3.00	.150	300	N	N	N
SK045C	40 22 55	120 4 51	3.00	1.50	3.00	.300	300	N	N	N
SK045D	40 22 55	120 4 51	7.00	.30	1.50	.200	300	N	N	N
SK045E	40 22 55	120 4 51	3.00	1.50	3.00	.200	300	N	N	N
SK049A	40 20 38	120 7 5	3.00	.70	2.00	.200	150	N	N	N
SK049B	40 20 38	120 7 5	2.00	.30	3.00	.300	150	N	N	N
SK049C	40 20 38	120 7 5	3.00	.03	.10	.150	50	N	N	N
SK049D	40 20 38	120 7 5	1.50	.30	1.50	.200	100	N	N	N
SK049E	40 20 38	120 7 5	1.50	.15	1.50	.300	100	N	N	N
SK049F	40 20 38	120 7 5	.20	<.02	<.05	.070	<10	N	N	N
SK049G	40 20 38	120 7 5	3.00	.20	.70	.200	70	N	N	N
SK049H	40 20 38	120 7 5	2.00	.15	.70	.200	150	N	N	N
SK049I	40 20 38	120 7 5	3.00	<.02	.07	.003	300	N	N	N
SK051	40 20 48	120 7 17	3.00	1.00	3.00	.300	500	N	N	N
SK052	40 20 52	120 7 23	3.00	.70	1.00	.150	300	N	N	N
SK053A	40 20 24	120 8 59	1.50	.15	1.50	.200	100	N	N	N
SK053B	40 20 24	120 8 59	3.00	.20	2.00	.300	300	N	N	N
SK053C	40 20 24	120 8 59	3.00	1.50	2.00	.200	300	N	N	N
SK053D	40 20 24	120 8 59	.70	.20	.15	.300	50	N	N	N
SK053E	40 20 24	120 8 59	.70	.05	5.00	.150	30	N	N	N
SK056A	40 24 37	120 9 4	2.00	.70	1.50	.150	300	N	N	N
SK056B	40 24 37	120 9 4	2.00	.50	1.50	.150	300	N	N	N
SK056C	40 24 37	120 9 4	1.50	.50	2.00	.200	200	N	N	N
SK056D	40 24 37	120 9 4	3.00	1.50	3.00	.300	300	N	N	N
SK057	40 21 40	120 8 53	.70	.07	.15	.070	150	N	N	N
SK058	40 21 37	120 8 52	.70	.07	.10	.150	70	N	N	N
SK128A	40 25 48	120 6 32	5.00	2.00	5.00	.300	500	N	N	N
SK128B	40 25 48	120 6 32	5.00	1.50	3.00	.500	300	N	N	N
SK128C	40 25 48	120 6 32	7.00	1.50	3.00	.500	1,000	N	N	N
SK131A	40 23 29	120 7 13	.70	.15	.70	.070	700	N	N	N
SK131B	40 23 29	120 7 13	3.00	.70	3.00	.300	700	N	N	N
SK131C	40 23 29	120 7 13	2.00	.30	2.00	.300	500	N	N	N
SK132	40 23 52	120 3 7	7.00	1.50	3.00	.700	700	N	N	N
SK134	40 20 48	120 1 24	3.00	1.50	3.00	.300	500	N	N	N
SK135	40 20 15	120 5 27	.70	.02	.20	.200	50	N	N	N
SK136	40 20 20	120 6 15	.30	<.02	<.05	.150	N	N	N	N
SK137A	40 20 23	120 6 59	.20	<.02	<.05	.150	<10	N	N	N
SK137B	40 20 23	120 6 59	.20	<.02	<.05	.100	<10	N	N	N
SK138A	40 20 32	120 7 8	.30	<.02	<.05	.100	50	N	N	N

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
HH001R1	<10	700	1.0	N	N	N	10	5	N	10	N	<5
HH001R2	<10	700	1.5	N	N	<5	10	7	<20	5	N	<5
HH001R3	10	500	1.0	N	N	N	N	5	N	N	N	5
HH001R4	<10	700	N	N	N	30	100	50	<20	N	N	70
SK043	<10	700	<1.0	N	N	20	150	30	N	N	N	70
SK045A	10	1,500	1.0	N	N	7	<10	10	30	N	<20	<5
SK045B	<10	700	<1.0	N	N	15	<10	20	30	N	<20	<5
SK045C	<10	1,000	<1.0	N	N	15	<10	15	30	N	<20	7
SK045D	<10	700	1.0	N	N	20	<10	15	N	N	<20	<5
SK045E	<10	1,000	<1.0	N	N	15	<10	20	30	N	<20	15
SK049A	<10	500	<1.0	N	N	15	<10	15	30	N	<20	<5
SK049B	<10	3,000	<1.0	N	N	7	<10	15	30	N	<20	<5
SK049C	N	1,000	1.0	N	N	N	<10	20	50	5	<20	<5
SK049D	<10	300	1.0	N	N	<5	<10	7	<30	<5	<20	5
SK049E	<10	2,000	1.0	N	N	<5	<10	7	30	<5	<20	<5
SK049F	<10	300	N	N	N	<5	<10	7	<30	N	<20	<5
SK049G	<10	1,500	1.0	N	N	<5	<10	15	30	N	<20	<5
SK049H	<10	1,000	<1.0	N	N	<5	<10	10	30	N	<20	<5
SK049I	15	150	<1.0	N	N	<5	<10	<5	N	7	<20	<5
SK051	10	700	<1.0	N	N	15	20	30	30	N	<20	15
SK052	<10	500	<1.0	N	N	10	30	30	<30	N	<20	10
SK053A	<10	1,000	1.0	N	N	<5	<10	7	30	N	<20	<5
SK053B	<10	700	<1.0	N	N	5	<10	7	30	N	<20	<5
SK053C	<10	1,000	<1.0	N	N	7	30	7	30	N	<20	10
SK053D	10	3,000	<1.0	N	N	N	<10	7	<30	N	<20	<5
SK053E	10	1,500	<1.0	N	N	N	<10	7	30	<5	<20	<5
SK056A	<10	1,000	<1.0	N	N	7	<10	15	30	N	<20	<5
SK056B	<10	1,500	<1.0	N	N	5	15	15	30	N	<20	5
SK056C	15	1,500	<1.0	N	N	<5	15	10	30	<5	<20	<5
SK056D	15	1,500	<1.0	N	N	15	15	15	30	N	<20	10
SK057	10	700	<1.0	N	N	N	<10	7	<30	<5	<20	<5
SK058	20	500	N	N	N	<5	30	20	N	<5	<20	<5
SK128A	N	700	<1.0	N	N	15	150	30	50	N	<20	30
SK128B	N	1,000	<1.0	N	N	15	150	30	70	N	<20	50
SK128C	N	1,500	N	N	N	20	150	70	70	N	<20	50
SK131A	10	2,000	1.0	N	N	N	<10	<5	30	N	N	<5
SK131B	<10	1,500	1.0	N	N	10	<10	20	30	N	N	<5
SK131C	10	3,000	1.0	N	N	5	<10	15	50	<5	N	N
SK132	N	3,000	<1.0	N	N	20	100	70	50	N	<20	70
SK134	<10	2,000	N	N	N	15	10	50	30	<5	<20	20
SK135	<10	2,000	N	N	N	N	<10	7	30	N	<20	N
SK136	<10	1,500	N	N	N	N	<10	7	N	N	N	N
SK137A	N	700	N	N	N	N	<10	<5	30	N	N	N
SK137B	10	700	N	N	N	N	<10	<5	N	N	N	N
SK138A	N	1,500	N	10	N	N	<10	7	50	N	N	N

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm aa
HH001R1	10	N	10	N	100	150	N	20	N	100	N	25.0	2.40
HH001R2	20	N	15	N	100	100	N	30	N	150	N	2.0	3.40
HH001R3	N	N	5	N	<100	20	N	10	N	100	N	.1	1.60
HH001R4	10	N	20	N	500	200	N	20	N	70	N	2.6	4.00
SK043	10	N	30	N	700	150	N	15	N	70	N	<.1	<.02
SK045A	15	N	10	N	700	70	N	15	N	150	N	<.1	<.02
SK045B	15	N	15	N	700	150	N	15	N	70	N	<.1	<.02
SK045C	15	N	15	N	700	150	N	15	N	100	N	<.1	<.02
SK045D	15	N	15	N	500	150	N	10	N	70	N	<.1	<.02
SK045E	15	N	15	N	700	150	N	15	N	100	N	<.1	<.02
SK049A	15	N	15	N	700	150	N	15	N	70	N	<.1	<.02
SK049B	10	N	15	N	700	150	N	15	N	100	N	<.1	<.02
SK049C	20	N	15	N	1,000	50	N	<10	N	70	N	<.1	.56
SK049D	10	N	15	N	300	100	N	15	N	70	N	<.1	<.02
SK049E	15	N	15	N	500	150	N	10	N	100	N	<.1	1.20
SK049F	15	N	<5	N	300	50	N	<10	N	70	N	<.1	.27
SK049G	15	N	15	N	500	100	N	10	N	100	N	<.1	2.20
SK049H	15	N	10	N	700	70	N	15	N	150	N	<.1	.04
SK049I	N	N	N	N	N	<10	N	<10	N	15	N	<.1	<.02
SK051	10	N	15	N	700	150	N	10	N	100	N	<.1	<.02
SK052	10	N	15	N	700	150	N	<10	N	70	N	<.1	.56
SK053A	15	N	7	N	500	70	N	10	N	150	N	<.1	<.02
SK053B	15	N	20	N	700	150	N	50	N	150	N	<.1	<.02
SK053C	15	N	15	N	700	150	N	10	N	70	N	<.1	<.02
SK053D	15	N	15	N	150	50	N	20	N	150	N	<.1	.44
SK053E	15	N	<5	N	300	30	N	15	N	150	N	--	2.00
SK056A	10	N	7	N	700	70	N	<10	N	100	N	<.1	<.02
SK056B	15	N	7	N	700	50	N	15	N	150	N	<.1	<.02
SK056C	15	N	7	N	700	30	N	15	N	150	N	<.1	<.02
SK056D	15	N	20	N	700	150	N	15	N	100	N	<.2	.02
SK057	15	N	N	N	300	15	N	<10	N	100	N	<.1	<.02
SK058	30	N	7	N	300	70	N	<10	N	70	N	<.1	.18
SK128A	<10	N	30	N	700	200	N	30	N	100	N	<.1	<.02
SK128B	10	N	30	N	700	200	N	30	N	150	N	<.1	<.02
SK128C	10	N	30	N	1,500	300	N	30	N	200	N	<.1	<.02
SK131A	15	N	<5	N	300	<10	N	<10	N	70	N	<.1	<.02
SK131B	10	N	7	N	1,500	150	N	<10	N	100	N	<.2	<.02
SK131C	10	N	7	N	1,000	70	N	10	N	200	N	<.1	<.02
SK132	10	N	10	N	1,500	200	N	20	N	200	N	<.1	<.02
SK134	10	N	15	N	1,000	200	N	10	N	150	N	<.1	<.02
SK135	10	N	<5	N	500	15	N	<10	N	200	N	<.1	.05
SK136	10	N	<5	N	500	<10	N	N	N	70	N	<.1	.05
SK137A	15	N	<5	N	300	10	N	15	N	100	N	<.1	.03
SK137B	15	N	N	N	300	15	N	<10	N	70	N	<.1	.28
SK138A	10	N	<5	N	700	20	N	<10	N	70	N	<.1	.12

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Te-ppm aa	Tl-ppm aa	As-ppm icp	Bi-ppm icp	Cd-ppm icp	Sb-ppm icp	Zn-ppm icp	Th-ppm dn	U-ppm dn	Au-ppm faa
HH001R1	--	--	38.0	<2	<.1	6	18	--	--	--
HH001R2	--	--	190.0	<2	.4	30	35	--	--	--
HH001R3	79.000	<2.000	.3	3	43.0	--	--	--	--	--
HH001R4	21.000	<2.000	.1	<2	18.0	--	--	--	--	--
SK043	<.010	.069	<5.0	<2	<.1	<2	39	<1.60	.679	--
SK045A	<.010	.360	<5.0	<2	<.1	<2	22	8.41	2.990	--
SK045B	<.010	.250	<5.0	<2	<.1	<2	40	6.46	2.280	--
SK045C	<.010	.150	<5.0	<2	<.1	<2	46	4.00	2.190	--
SK045D	<.010	.110	<5.0	<2	<.1	<2	40	7.02	2.500	--
SK045E	<.010	.400	<5.0	<2	<.1	<2	25	4.00	1.760	--
SK049A	<.010	.360	6.0	<2	.2	<2	35	7.09	2.410	--
SK049B	<.010	.180	<5.0	<2	<.1	<2	32	7.58	2.660	--
SK049C	.660	.080	230.0	<2	1.0	<2	48	9.95	4.340	<.002
SK049D	<.010	.220	<5.0	<2	<.1	<2	14	3.80	.969	--
SK049E	1.400	.290	11.0	<2	<.1	<2	14	5.91	2.530	<.002
SK049F	.150	.680	15.0	<2	<.1	<2	<2	8.40	3.130	<.002
SK049G	3.600	.250	<5.0	<2	.2	<2	12	6.65	2.070	<.002
SK049H	.420	.400	11.0	<2	<.1	<2	23	10.80	3.350	--
SK049I	<.010	<.020	10.0	<2	.1	<2	3	<1.30	.351	--
SK051	.082	.350	<5.0	<2	.4	<2	49	6.41	2.190	--
SK052	1.600	.570	9.0	<2	.4	<2	50	7.82	2.170	.005
SK053A	<.010	.290	<5.0	<2	<.1	<2	11	9.41	4.620	--
SK053B	<.010	.220	<5.0	<2	.1	<2	81	13.60	2.330	--
SK053C	<.010	.410	<5.0	<2	.1	<2	61	8.52	2.770	--
SK053D	.890	.440	<5.0	<2	<.1	<2	3	10.50	2.890	<.002
SK053E	--	--	<5.0	<2	<.1	<2	10	6.90	3.560	--
SK056A	<.010	.130	<5.0	<2	.1	<2	24	6.35	2.480	--
SK056B	<.010	.320	<5.0	<2	.1	<2	39	6.67	2.520	--
SK056C	<.010	.380	<5.0	<2	.1	<2	41	8.50	2.960	--
SK056D	<.010	.320	<5.0	<2	.1	<2	42	7.14	2.660	--
SK057	.130	.440	6.0	<2	<.1	<2	11	6.80	2.820	.002
SK058	.550	.470	5.0	<2	<.1	<2	5	6.60	2.500	<.002
SK128A	<.010	.630	<5.0	<2	.7	<2	72	3.30	1.060	--
SK128B	<.010	.680	<5.0	<2	.7	<2	68	12.70	3.340	--
SK128C	<.010	.190	<5.0	<2	.2	2	58	3.30	1.070	--
SK131A	<.010	.500	<5.0	<2	<.1	<2	11	8.66	3.740	<.002
SK131B	<.010	.320	<5.0	<2	.2	<2	40	5.90	2.610	--
SK131C	<.010	.320	<5.0	<2	<.1	<2	40	10.90	2.850	--
SK132	<.010	.076	<5.0	<2	.4	<2	93	<2.70	.868	--
SK134	<.010	.380	<5.0	<2	<.1	<2	25	5.14	1.570	--
SK135	<.010	.230	<5.0	<2	<.1	<2	3	9.31	3.660	--
SK136	.400	.180	6.0	<2	<.1	<2	2	6.10	1.420	--
SK137A	.300	.570	<5.0	<2	<.1	<2	<2	9.81	3.640	--
SK137B	.800	.970	6.0	<2	<.1	<2	2	8.96	2.630	<.002
SK138A	1.800	.150	9.0	5	<.1	<2	<2	13.40	2.640	<.002

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
SK138B	40 20 32	120 7 8	15.00	.03	.15	.150	300	N	N	N
SK141	40 23 52	120 9 59	3.00	1.50	3.00	.300	1,000	N	N	N
SK143A	40 22 0	120 7 59	3.00	.30	1.50	.300	70	N	N	N
SK143B	40 22 0	120 7 59	3.00	.30	.15	.300	20	N	N	N
SK146	40 20 29	120 7 48	1.50	.15	1.50	.300	200	N	N	N
SK148A	40 20 23	120 8 26	5.00	.10	.70	.300	100	N	N	N
SK148B	40 20 23	120 8 26	.70	.15	1.00	.300	70	N	N	N
SK148C	40 20 23	120 8 26	2.00	.20	2.00	.500	200	N	N	N
SK148D	40 20 23	120 8 26	.70	.20	2.00	.200	70	N	N	N
SK153	40 21 42	120 14 43	.15	.50	>20.00	.015	70	N	N	N
SK154	40 18 30	120 10 51	.30	1.50	>20.00	.030	70	N	N	N
SK155	40 18 10	120 11 40	.70	.50	2.00	.150	300	N	N	N
SK224	40 22 57	120 4 13	5.00	1.50	3.00	.500	700	N	N	N
SK230	40 20 34	120 7 33	.70	.03	.30	.300	150	N	N	N
SK231	40 20 40	120 7 32	.07	<.02	.15	.200	30	N	N	N
SK235	40 22 26	120 10 5	5.00	1.50	3.00	.500	700	N	N	N
SK238A	40 18 44	120 6 36	.30	<.02	.05	.200	15	N	N	N
SK238B	40 18 44	120 6 36	.70	<.02	.05	.150	15	N	N	N
SK238C	40 18 44	120 6 36	3.00	.07	.15	.150	70	N	N	N
SM002A	40 22 16	120 9 46	3.00	2.00	3.00	.300	1,000	N	N	N
SM005A	40 22 49	120 9 33	.70	.15	.50	.030	500	N	N	N
SM017A	40 25 54	120 9 6	--	--	--	--	--	--	--	--
SM020A	40 25 45	120 8 52	7.00	3.00	7.00	.500	700	N	N	N
SM022A	40 19 56	120 7 39	3.00	2.00	3.00	.200	300	N	N	N
SM025A	40 22 5	120 8 15	3.00	2.00	5.00	.300	500	N	N	N
SM025B	40 22 4	120 8 15	3.00	1.00	3.00	.300	300	N	N	N
SM027A	40 23 11	120 8 57	3.00	1.50	3.00	.300	700	N	N	N
SM038A	40 23 27	120 9 57	3.00	1.50	3.00	.200	500	N	N	N
SM034A	40 19 32	120 10 32	5.00	2.00	7.00	.300	700	N	N	N
SM101A	40 27 33	120 4 6	5.00	3.00	7.00	.500	700	N	N	N
SM103A	40 22 15	120 9 16	3.00	1.50	3.00	.300	300	N	N	N
SM104A	40 22 52	120 8 26	3.00	3.00	5.00	.300	500	N	N	N
SM105A	40 22 30	120 7 15	3.00	1.00	3.00	.200	500	N	N	N
SM106A	40 22 41	120 7 5	3.00	1.50	3.00	.200	500	N	N	N
SM107A	40 23 2	120 6 19	3.00	2.00	3.00	.200	500	N	N	N
SM109A	40 20 7	120 9 42	1.50	.15	1.50	.150	300	N	N	N
SM110A	40 23 51	120 7 56	3.00	.70	3.00	.200	300	N	N	N
SM111A	40 23 49	120 7 19	5.00	2.00	5.00	.300	700	N	N	N
SM112A	40 17 12	120 1 42	7.00	3.00	7.00	.300	700	N	N	N
SM113A	40 17 1	120 1 15	5.00	5.00	7.00	.300	700	N	N	N
SM114A	40 16 36	120 1 45	7.00	5.00	7.00	.300	700	N	N	N
SM116A	40 21 21	120 2 29	3.00	1.50	3.00	.300	300	N	N	N
SM117A	40 21 11	120 3 8	7.00	3.00	7.00	.500	700	N	N	N
SM118A	40 21 23	120 3 28	5.00	3.00	7.00	.300	500	N	N	N
SM119A	40 20 25	120 6 48	3.00	1.50	5.00	.300	500	N	N	N

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
SK138B	N	1,000	N	N	N	<5	15	70	N	N	N	7
SK141	<10	3,000	N	N	N	20	10	30	50	N	N	15
SK143A	N	1,500	<1.0	N	N	7	70	30	30	N	N	30
SK143B	100	3,000	N	N	N	N	50	70	<30	N	N	<5
SK146	<10	3,000	1.0	N	N	N	<10	10	50	N	<20	N
SK148A	10	1,500	1.0	N	N	<5	10	70	30	30	<20	N
SK148B	<10	3,000	1.0	N	N	N	<10	<5	50	N	<20	N
SK148C	<10	1,500	1.0	N	N	7	<10	10	50	N	N	<5
SK148D	N	3,000	N	N	N	N	<10	20	30	N	N	<5
SK153	N	3,000	N	N	N	N	<10	5	30	N	N	<5
SK154	N	700	N	N	N	N	10	7	N	N	N	5
SK155	150	1,000	<1.0	N	N	<5	10	15	N	N	N	5
SK224	<10	3,000	1.0	N	N	15	70	70	50	N	<20	30
SK230	<10	2,000	N	<10	N	N	<10	7	30	N	N	N
SK231	N	500	N	N	N	N	15	<5	N	<5	N	N
SK235	10	1,500	1.0	N	N	20	100	70	50	N	<20	30
SK238A	30	1,000	N	N	N	N	<10	5	N	N	N	N
SK238B	N	1,000	N	N	N	N	<10	7	30	N	N	N
SK238C	N	1,000	N	N	N	N	<10	50	N	5	N	<5
SM002A	15	1,000	<1.0	N	N	15	70	70	<30	N	<20	30
SM005A	30	1,000	1.0	N	N	<5	<10	<5	<30	N	<20	<5
SM017A	--	--	--	--	--	--	--	--	--	--	--	--
SM020A	<10	700	<1.0	N	N	20	150	50	30	N	<20	70
SM022A	15	700	<1.0	N	N	15	30	30	30	N	<20	20
SM025A	15	700	<1.0	N	N	15	50	20	30	N	<20	15
SM025B	<10	700	1.5	N	N	15	30	30	30	N	<20	10
SM027A	20	700	<1.0	N	N	15	<10	15	30	N	<20	7
SM038A	20	1,000	<1.0	N	N	15	10	15	30	N	<20	7
SM034A	<10	700	<1.0	N	N	15	20	50	<30	N	<20	15
SM101A	<10	700	<1.0	N	N	30	70	30	<30	N	<20	50
SM103A	20	700	<1.0	N	N	15	30	50	30	N	<20	15
SM104A	15	700	<1.0	N	N	15	50	30	<30	N	<20	20
SM105A	10	700	<1.0	N	N	15	<10	15	30	N	<20	5
SM106A	15	700	<1.0	N	N	15	<10	15	<30	N	<20	5
SM107A	10	700	<1.0	N	N	15	<10	30	30	N	<20	7
SM109A	10	1,000	1.0	N	N	<5	<10	5	30	5	<20	<5
SM110A	10	700	<1.0	N	N	7	30	20	<30	N	<20	10
SM111A	<10	1,000	<1.0	N	N	15	50	30	30	N	<20	20
SM112A	<10	700	<1.0	N	N	20	30	30	30	N	<20	15
SM113A	<10	700	<1.0	N	N	20	200	30	50	N	<20	30
SM114A	<10	700	<1.0	N	N	20	150	50	30	N	<20	30
SM116A	10	2,000	<1.0	N	N	15	10	30	30	N	<20	15
SM117A	<10	700	<1.0	N	N	20	150	30	<30	N	<20	70
SM118A	<10	700	<1.0	N	N	20	150	20	<30	N	<20	70
SM119A	15	1,000	<1.0	N	N	15	20	15	30	N	<20	15

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm aa
SK138B	20	N	<5	N	1,000	100	N	<10	N	50	N	.2	1.10
SK141	15	N	15	N	1,000	150	N	15	N	150	N	<.1	<.02
SK143A	10	N	15	N	700	150	N	<10	N	100	N	<.1	.02
SK143B	15	N	10	N	2,000	150	N	<10	N	70	N	<.1	.47
SK146	10	N	7	N	700	70	N	30	N	200	N	<.1	.12
SK148A	10	N	7	N	1,500	150	N	<10	N	100	N	<.1	4.00
SK148B	10	N	<5	N	500	15	N	15	N	200	N	<.1	<.02
SK148C	<10	N	15	N	1,000	100	N	20	N	150	N	<.1	<.02
SK148D	10	N	7	N	700	70	N	10	N	150	N	<.2	.05
SK153	N	N	H	N	2,000	10	N	70	N	N	N	<.1	3.40
SK154	N	N	H	N	3,000	15	N	<10	N	20	N	<.1	<.02
SK155	10	N	5	N	700	30	N	<10	N	30	N	<.1	4.50
SK224	10	N	15	N	1,000	150	N	20	N	200	N	<.1	<.02
SK230	30	N	<5	N	1,000	70	N	<10	N	150	N	<.1	.18
SK231	20	N	<5	N	500	70	N	<10	N	50	N	<.1	<.02
SK235	<10	N	20	N	1,500	300	N	20	N	200	N	<.1	<.02
SK238A	N	N	N	N	< 100	15	N	N	N	150	N	<.1	<.02
SK238B	10	N	<5	N	300	20	N	<10	N	100	N	<.1	.30
SK238C	<10	N	<5	N	500	70	N	<10	N	30	N	<.1	.06
SM002A	15	N	15	N	700	150	N	15	N	70	N	<.1	--
SM005A	15	N	<5	N	150	<10	N	<10	N	30	N	<.1	--
SM017A	--	--	--	--	--	--	--	--	--	--	--	--	--
SM020A	10	N	30	N	700	200	N	20	N	100	N	<.1	--
SM022A	15	N	15	N	700	150	N	10	N	70	N	<.1	--
SM025A	10	N	20	N	500	150	N	15	N	100	N	<.1	--
SM025B	15	N	15	N	700	150	N	15	N	100	N	<.1	--
SM027A	10	N	15	N	500	150	N	15	N	100	N	<.1	--
SM030A	15	N	15	N	500	150	N	15	N	150	N	<.1	--
SM034A	15	N	30	N	700	150	N	15	N	70	N	<.1	--
SM101A	10	N	30	N	700	200	N	15	N	100	N	<.1	--
SM103A	15	N	15	N	700	150	N	15	N	150	N	<.1	--
SM104A	15	N	30	N	700	150	N	15	N	100	N	<.1	--
SM105A	15	N	7	N	700	70	N	15	N	70	N	<.1	--
SM106A	15	N	7	N	500	70	N	10	N	70	N	<.1	--
SM107A	15	N	15	N	700	150	N	15	N	100	N	<.1	--
SM109A	15	N	<5	N	500	15	N	15	N	150	N	<.1	--
SM110A	15	N	7	N	500	70	N	10	N	100	N	<.1	--
SM111A	10	N	20	N	700	150	N	15	N	150	N	<.1	--
SM112A	15	N	30	N	700	300	N	15	N	70	N	<.1	--
SM113A	15	N	30	N	700	200	N	15	N	70	N	<.1	--
SM114A	15	N	30	N	700	200	N	10	N	70	N	<.1	--
SM116A	15	N	15	N	700	150	N	15	N	150	N	<.1	--
SM117A	10	N	30	N	700	200	N	15	N	100	N	<.1	--
SM118A	10	N	30	N	700	150	N	15	N	70	N	<.1	--
SM119A	10	N	15	N	700	150	N	15	N	70	N	<.1	--

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Te-ppm aa	Tl-ppm aa	As-ppm icp	Bi-ppm icp	Cd-ppm icp	Sb-ppm icp	Zn-ppm icp	Th-ppm dn	U-ppm dn	Au-ppm faa
SK138B	11.000	<.100	150.0	2	1.9	2	20	4.30	1.940	.250
SK141	<.010	.140	<5.0	<2	<.1	<2	22	6.70	1.910	--
SK143A	.015	.230	<5.0	<2	<.1	<2	27	5.50	1.520	--
SK143B	1.800	.210	11.0	<2	.1	<2	3	7.38	2.250	.026
SK146	.250	.400	<5.0	<2	<.1	<2	28	7.39	3.060	<.002
SK148A	1.200	.210	58.0	3	.3	3	17	7.31	3.150	<.002
SK148B	.020	.520	<5.0	<2	<.1	<2	46	9.61	4.020	--
SK148C	.050	.350	<5.0	<2	<.1	<2	82	7.48	2.510	--
SK148D	<.010	.550	<5.0	<2	<.1	<2	55	8.96	3.970	--
SK153	.020	.030	31.0	<2	.1	<2	6	4.70	1.320	<.002
SK154	<.010	.044	8.0	<2	.3	3	7	<2.00	1.110	--
SK155	<.010	.520	12.0	<2	<.1	<2	21	3.30	1.380	<.002
SK224	<.010	.350	<5.0	<2	.2	<2	37	4.40	1.510	--
SK230	.500	.320	<5.0	3	<.1	<2	5	8.63	2.630	--
SK231	.025	<.020	<5.0	<2	<.1	<2	<2	3.90	1.680	--
SK235	<.010	.180	<5.0	<2	.3	<2	64	<2.70	1.310	--
SK238A	.350	.360	8.0	<2	<.1	<2	<2	<2.80	1.580	<.002
SK238B	.490	.300	10.0	<2	<.1	<2	<2	7.50	2.380	<.002
SK238C	1.400	.210	66.0	<2	.4	<2	20	5.50	2.140	<.002
SM002A	--	--	<5.0	<2	<.1	<2	43	--	--	--
SM005A	--	--	<5.0	<2	<.1	<2	10	--	--	--
SM017A	--	--	--	--	--	--	--	--	--	--
SM020A	--	--	<5.0	<2	.5	2	76	--	--	--
SM022A	--	--	<5.0	<2	.1	<2	37	--	--	--
SM025A	--	--	<5.0	<2	.2	<2	36	--	--	--
SM025B	--	--	<5.0	3	.4	<2	29	--	--	--
SM027A	--	--	<5.0	<2	.2	<2	32	--	--	--
SM030A	--	--	<5.0	<2	.2	<2	28	--	--	--
SM034A	--	--	<5.0	<2	.5	5	46	--	--	--
SM101A	--	--	<5.0	<2	.8	<2	67	--	--	--
SM103A	--	--	<5.0	<2	.3	<2	39	--	--	--
SM104A	--	--	<5.0	<2	.2	<2	27	--	--	--
SM105A	--	--	<5.0	<2	.3	<2	47	--	--	--
SM106A	--	--	<5.0	<2	.2	<2	22	--	--	--
SM107A	--	--	<5.0	<2	.1	<2	17	--	--	--
SM109A	--	--	22.0	<2	.2	<2	46	--	--	.002
SM110A	--	--	12.0	<2	.2	<2	56	--	--	--
SM111A	--	--	12.0	<2	.3	<2	55	--	--	--
SM112A	--	--	11.0	<2	.7	<2	48	--	--	--
SM113A	--	--	<5.0	<2	.6	<2	53	--	--	--
SM114A	--	--	<5.0	<2	.6	<2	54	--	--	--
SM116A	--	--	<5.0	<2	.2	<2	20	--	--	--
SM117A	--	--	16.0	<2	.6	<2	49	--	--	--
SM118A	--	--	<5.0	<2	.4	<2	31	--	--	--
SM119A	--	--	<5.0	<2	.2	<2	28	--	--	--

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
SM120A	40 24 40	120 8 6	7.00	5.00	7.00	.700	1,000	N	N	N
SM121A	40 25 0	120 6 27	7.00	5.00	7.00	.700	1,000	N	N	N
SM122A	40 24 10	120 5 17	7.00	1.50	7.00	.700	700	N	N	N
SM123A	40 19 8	120 5 11	7.00	1.50	7.00	.300	1,000	N	N	N
SM124A	40 22 38	120 11 14	7.00	2.00	7.00	.500	1,000	N	N	N
SM125A	40 24 29	120 8 36	7.00	2.00	7.00	.700	700	N	N	N
SM127A	40 25 52	120 9 15	7.00	3.00	7.00	.700	1,000	N	N	N
SM129A	40 25 59	120 43 4	7.00	3.00	7.00	.700	1,500	N	N	N
SM131A	40 28 42	120 5 18	7.00	5.00	7.00	.700	700	N	N	N
SM306A	40 22 3	120 8 58	3.00	1.00	3.00	.300	300	N	N	N
SM308A	40 22 59	120 8 22	3.00	1.50	3.00	.300	300	N	N	N
SM308A	40 22 59	120 8 22	2.00	.20	1.50	.150	200	N	N	N
SM310A	40 23 4	120 8 22	3.00	.20	3.00	.200	300	N	N	N
SM311A	40 23 21	120 7 33	3.00	1.00	3.00	.300	300	N	N	N
SM312A	40 23 14	120 7 44	3.00	.70	3.00	.150	300	N	N	N
SM313A	40 23 31	120 8 8	1.50	.70	1.50	.150	300	N	N	N
SM314A	40 23 57	120 7 33	3.00	1.50	3.00	.300	300	N	N	N
SM315A	40 22 45	120 3 15	3.00	2.00	3.00	.300	300	N	N	N
SM316A	40 22 22	120 3 9	3.00	1.50	2.00	.200	300	N	N	N
SM317A	40 22 7	120 3 31	3.00	1.50	3.00	.300	300	N	N	N
SM318A	40 25 56	120 6 54	3.00	7.00	5.00	.200	500	N	N	N
SM319A	40 25 49	120 6 48	5.00	5.00	5.00	.500	500	N	N	N
SM320A	40 24 39	120 8 7	3.00	3.00	5.00	.300	500	N	N	N
SM321A	40 22 19	120 10 48	3.00	2.00	3.00	.200	300	N	N	N
SM322A	40 23 22	120 9 59	3.00	1.50	3.00	.300	300	N	N	N
SM323A	40 22 36	120 11 12	3.00	1.50	3.00	.200	300	N	N	N
SM324A	40 21 58	120 11 9	3.00	1.50	5.00	.300	500	N	N	N
SM325A	40 21 15	120 17 4	3.00	1.50	3.00	.200	300	N	N	N

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
SM120A	N	700	N	N	N	30	300	70	N	N	<20	100
SM121A	N	1,000	1.0	N	N	30	200	70	30	N	<20	70
SM122A	<10	1,500	<1.0	N	N	20	20	50	<30	N	<20	15
SM123A	10	1,000	<1.0	N	N	15	15	50	<30	N	<20	10
SM124A	10	1,500	<1.0	N	N	15	<10	50	<30	N	N	7
SM125A	<10	1,000	<1.0	N	N	20	50	70	<30	N	<20	30
SM127A	<10	1,500	1.0	N	N	20	150	30	30	N	<20	70
SM129A	N	700	N	N	N	50	300	70	N	N	<20	100
SM131A	N	700	N	N	N	20	150	70	N	N	<20	70
SM306A	20	1,000	<1.0	N	N	7	15	20	30	N	<20	15
SM308A	15	700	<1.0	N	N	15	30	15	<30	N	<20	15
SM308A	15	1,500	<1.0	N	N	<5	<10	5	30	N	<20	<5
SM310A	<10	700	<1.0	N	N	7	<10	10	30	N	<20	<5
SM311A	15	1,000	<1.0	N	N	7	<10	7	30	N	<20	<5
SM312A	<10	700	1.5	N	N	7	<10	10	30	N	<20	<5
SM313A	15	1,000	1.5	N	N	<5	<10	<5	30	5	<20	<5
SM314A	10	700	1.5	N	N	15	<10	30	30	N	<20	7
SM315A	<10	1,000	1.5	N	N	15	50	30	30	N	<20	20
SM316A	<10	1,000	1.5	N	N	10	<10	20	30	N	<20	7
SM317A	<10	700	1.5	N	N	15	30	20	30	N	<20	20
SM318A	<10	300	1.5	N	N	15	300	50	N	N	<20	50
SM319A	N	2,000	1.5	N	N	15	200	30	30	N	<20	70
SM320A	<10	1,000	1.5	N	N	15	70	20	30	N	<20	20
SM321A	15	700	1.5	N	N	10	30	15	30	N	<20	15
SM322A	15	700	1.5	N	N	10	<10	10	30	N	<20	5
SM323A	10	1,500	1.5	N	N	15	<10	7	30	N	<20	7
SM324A	<10	700	1.5	N	N	15	<10	20	30	N	<20	5
SM325A	15	700	1.5	N	N	10	<10	20	30	N	<20	5

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm aa
SM120A	N	N	30	N	500	300	N	15	N	100	N	<.1	--
SM121A	N	N	30	N	500	300	N	30	N	150	N	<.1	--
SM122A	10	N	30	N	500	300	N	30	N	150	N	<.1	--
SM123A	10	N	15	N	500	150	N	20	N	150	N	<.1	--
SM124A	10	N	20	N	500	150	N	20	N	150	N	<.1	--
SM125A	10	N	30	N	700	300	N	30	N	150	N	<.1	--
SM127A	10	N	30	N	500	200	N	30	N	150	N	<.1	--
SM129A	N	N	50	N	300	300	N	30	N	150	N	<.1	--
SM131A	N	N	30	N	500	300	N	20	N	100	N	<.1	--
SM306A	15	N	10	N	500	70	N	15	N	150	N	<.1	--
SM308A	10	N	15	N	500	150	N	15	N	70	N	<.1	--
SM308A	15	N	7	N	500	15	N	15	N	150	N	<.1	--
SM310A	10	N	7	N	700	30	N	<10	N	70	N	<.1	--
SM311A	15	N	15	N	700	70	N	20	N	150	N	<.1	--
SM312A	10	N	7	N	700	70	N	10	N	70	N	<.1	--
SM313A	15	N	7	N	700	30	N	15	N	100	N	<.1	--
SM314A	10	N	15	N	700	150	N	15	N	70	N	<.1	--
SM315A	10	N	15	N	700	150	N	20	N	100	N	<.1	--
SM316A	10	N	10	N	700	150	N	15	N	70	N	<.1	--
SM317A	10	N	15	N	700	150	N	15	N	150	N	<.1	--
SM318A	<10	N	20	N	500	150	N	10	N	50	N	<.1	--
SM319A	10	N	30	N	700	150	N	20	N	100	N	<.1	--
SM320A	10	N	15	N	700	150	N	15	N	150	N	<.1	--
SM321A	15	N	15	N	700	100	N	15	N	100	N	<.1	--
SM322A	10	N	15	N	700	150	N	15	N	100	N	<.1	--
SM323A	10	N	15	N	700	150	N	15	N	100	N	<.1	--
SM324A	10	N	15	N	700	150	N	15	N	100	N	<.1	--
SM325A	15	N	15	N	700	150	N	15	N	100	N	<.1	--

TABLE 5A. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Te-ppm aa	Tl-ppm aa	As-ppm icp	Bi-ppm icp	Cd-ppm icp	Sb-ppm icp	Zn-ppm icp	Th-ppm dn	U-ppm dn	Au-ppm faa
SM120A	--	--	<5.0	<2	1.0	<2	50	--	--	--
SM121A	--	--	<5.0	4	1.0	<2	53	--	--	--
SM122A	--	--	<5.0	2	.8	<2	48	--	--	--
SM123A	--	--	<5.0	<2	.4	<2	33	--	--	--
SM124A	--	--	<5.0	<2	.9	<2	43	--	--	--
SM125A	--	--	<5.0	<2	1.0	<2	49	--	--	--
SM127A	--	--	<5.0	<2	1.0	<2	55	--	--	--
SM129A	--	--	<5.0	2	1.0	<2	74	--	--	--
SM131A	--	--	<5.0	<2	1.2	<2	65	--	--	--
SM306A	--	--	<5.0	<2	.3	<2	55	--	--	--
SM308A	--	--	<5.0	3	<.1	<2	23	--	--	--
SM308A	--	--	<5.0	<2	.1	<2	53	--	--	--
SM310A	--	--	<5.0	<2	.2	<2	34	--	--	--
SM311A	--	--	<5.0	<2	.3	<2	52	--	--	--
SM312A	--	--	<5.0	<2	<.1	<2	35	--	--	--
SM313A	--	--	<5.0	<2	<.1	<2	27	--	--	--
SM314A	--	--	<5.0	4	.4	<2	37	--	--	--
SM315A	--	--	14.0	<2	.1	<2	34	--	--	--
SM316A	--	--	<5.0	<2	.2	<2	40	--	--	--
SM317A	--	--	<5.0	<2	.3	<2	42	--	--	--
SM318A	--	--	<5.0	<2	.5	<2	34	--	--	--
SM319A	--	--	<5.0	3	1.1	2	86	--	--	--
SM320A	--	--	<5.0	<2	.6	<2	65	--	--	--
SM321A	--	--	<5.0	<2	.2	<2	26	--	--	--
SM322A	--	--	<5.0	3	.3	<2	34	--	--	--
SM323A	--	--	5.0	3	.4	5	47	--	--	<.002
SM324A	--	--	<5.0	4	.5	<2	47	--	--	--
SM325A	--	--	<5.0	<2	.5	<2	20	--	--	--

TABLE 5B. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.

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

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S	Be-ppm S
DR026A	40 32 47	119 55 47	7.0	1.50	3.00	.500	1,500	N	N	N	N	1,500	1.5
DR026B	40 32 47	119 55 48	1.5	.30	.70	.200	300	N	N	N	<10	3,000	1.5
DR027	40 31 23	119 53 55	3.0	.50	1.50	.500	700	N	N	N	N	2,000	1.5
DR028A	40 29 12	119 54 57	5.0	1.50	3.00	.300	700	N	N	N	N	300	N
DR028B	40 29 13	119 54 58	5.0	2.00	3.00	.300	700	N	N	N	N	700	N
DR028C	40 29 12	119 54 58	7.0	3.00	3.00	.500	1,000	N	N	N	N	700	N
DR028D	40 29 13	119 54 57	7.0	2.00	3.00	.500	1,000	N	N	N	N	500	N
DR031A	40 23 27	119 53 11	7.0	.30	.30	.300	300	N	N	N	<10	300	N
DR031B	40 23 28	119 53 11	7.0	1.50	3.00	.500	700	N	N	N	N	700	N
DR034	40 23 9	119 56 53	.5	<.02	.15	.150	30	N	N	N	N	700	N
DR037	40 27 35	119 57 10	.3	.20	>20.00	.050	2,000	N	N	N	N	700	2.0
DR114	40 25 55	119 53 14	7.0	.70	3.00	.700	700	N	N	N	N	1,500	1.5
DR119A	40 23 21	119 58 51	1.0	<.02	.15	.003	200	N	N	N	<10	300	1.5
DR119B	40 23 20	119 58 51	.2	<.02	.15	.200	150	N	N	N	<10	300	N
DR213	40 22 32	119 58 15	7.0	2.00	.30	.500	700	N	N	N	<10	1,500	1.0

TABLE 5B. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s
DR026A	N	N	15	<10	30	N	N	N	<5	<10	N	20	N	1,000	150
DR026B	N	N	<5	<10	15	70	N	<20	<5	20	N	5	N	300	70
DR027	N	N	5	<10	15	50	N	N	N	15	N	15	N	1,000	70
DR028A	N	N	20	70	70	N	N	N	20	<10	N	20	N	1,500	150
DR028B	N	N	20	70	70	N	N	N	20	N	N	20	N	1,000	200
DR028C	N	N	20	70	70	N	N	N	70	N	N	20	N	1,500	300
DR028D	N	N	20	70	100	N	N	N	30	N	N	20	N	1,000	300
DR031A	N	N	15	30	70	N	N	N	30	10	N	15	N	200	200
DR031B	N	N	20	100	70	30	N	N	50	<10	N	30	N	1,000	300
DR034	N	N	N	30	7	150	N	N	<5	<10	N	<5	N	500	100
DR037	N	N	15	<10	20	150	N	N	20	N	N	5	N	1,500	200
DR114	N	N	15	50	100	50	N	N	30	10	N	30	N	1,500	300
DR119A	N	N	<5	<10	7	N	N	N	5	<10	N	N	N	<100	20
DR119B	N	N	N	15	10	70	N	N	<5	N	N	5	N	150	30
DR213	N	N	20	70	50	50	N	N	30	10	N	20	N	1,500	200

TABLE 5B. RESULTS OF ANALYSES OF ROCK SAMPLES FROM THE DRY VALLEY RIM WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm aa	As-ppm icp	Bi-ppm icp	Cd-ppm icp	Sb-ppm icp	Zn-ppm icp	Th-ppm dn	U-ppm dn
DR026A	N	20	N	100	N	<.1	<.02	<5	<2	1.0	<2	86	3.00	1.220
DR026B	N	15	N	300	N	--	<.02	7	<2	.2	<2	48	16.00	5.190
DR027	N	20	N	150	N	--	<.02	<5	<2	.4	<2	54	8.73	3.750
DR028A	N	<10	N	30	N	<.1	<.02	<5	<2	1.3	<2	62	<2.20	.430
DR028B	N	<10	N	30	N	--	<.02	<5	<2	1.3	<2	52	1.90	.646
DR028C	N	10	N	70	N	--	<.02	<5	<2	.8	<2	65	<1.90	.695
DR028D	N	<10	N	30	N	<.1	<.02	<5	<2	1.1	<2	51	2.00	.270
DR031A	N	10	N	100	N	--	<.02	<5	<2	.9	<2	78	8.27	1.080
DR031B	N	15	N	100	N	--	<.02	<5	<2	.8	<2	75	<2.90	1.390
DR034	N	30	N	50	N	<.1	.04	<5	<2	<.1	<2	3	6.10	1.810
DR037	N	70	N	20	N	--	<.02	<5	<2	.9	<2	36	<200.00	134.000
DR114	N	30	N	150	N	--	<.02	<5	<2	1.0	<2	85	<3.00	1.910
DR119A	N	N	N	10	N	--	<.02	<5	<2	.1	<2	5	<2.60	1.490
DR119B	N	20	N	100	N	<.1	<.02	<5	<2	.1	<2	3	<3.10	2.590
DR213	N	20	N	150	N	--	<.02	<5	<2	.8	3	92	2.80	.947

TABLE 6. RESULTS OF ANALYSES OF WATER SAMPLES FROM THE SKEDADDLE WILDERNESS STUDY AREA, LASSEN COUNTY, CALIFORNIA, AND WASHOE COUNTY, NEVADA.

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

Sample	Latitude	Longitude	As-ppm aa	Li-ppm aa	Cu-ppm aa	U-ppm inst	Mo-ppm aa	Zn-ppm aa	SO4-- mg/L	NO3- mg/L	F- mg/L	Cl- mg/L	Ph	Sp cond
SK049	40 20 38	120 7 5	2.1	<4	1.1	.74	1.3	2	16.0	<.10	.14	6.6	8.6	390
SK136	40 20 32	120 7 8	4.7	<4	5.2	1.00	2.9	5	118.0	.33	.35	36.0	8.5	660
SK142	40 21 43	120 7 44	2.2	<4	7.1	.18	<1.0	30	5.2	<.10	.21	8.8	8.1	400
SK143	40 22 0	120 7 59	1.6	<4	1.9	<.10	<1.0	7	6.2	<.10	.08	1.3	8.0	175
SK144	40 21 33	120 8 51	3.1	<4	1.5	.16	2.1	5	122.0	<.10	.28	4.5	8.2	510
SK145	40 21 7	120 7 26	1.9	<4	2.4	.32	1.1	10	15.0	.61	.21	6.9	7.7	410
SK146	40 20 29	120 7 48	2.0	<4	2.7	.20	1.8	7	4.6	<.10	.42	6.4	7.9	510
SK147	40 20 39	120 8 40	1.0	<4	1.2	.60	2.7	6	57.0	<.10	.21	12.0	8.1	615
SK148	40 20 23	120 8 26	4.5	4	2.8	.10	1.1	7	103.0	<.10	.28	8.7	7.6	475
SK149	40 20 24	120 5 59	1.6	<4	1.3	.10	<1.0	5	5.4	<.10	.14	2.7	8.3	240
SK150	40 22 58	120 5 11	1.5	<4	1.4	.12	<1.0	5	3.2	2.60	.05	4.9	8.1	160
SK151	40 22 24	120 6 12	3.0	<4	1.0	<.10	<1.0	4	4.6	1.10	.05	3.3	8.3	190
SK152	40 21 45	120 14 43	300.0	140	3.1	<.10	60.0	10	27.0	1.60	2.60	208.0	8.7	1,420
SK153	40 21 42	120 14 43	300.0	135	3.8	<.10	49.0	9	257.0	.57	2.60	182.0	8.7	1,360
SK155	40 18 10	120 11 40	160.0	98	3.1	<.10	52.0	2	218.0	11.00	2.50	154.0	8.5	1,160
SK156	40 16 54	120 6 0	5.2	10	1.0	<.10	3.0	4	17.0	1.60	.10	13.0	8.6	300
SK226	40 22 10	120 5 28	2.1	4	1.8	.90	<1.0	18	6.3	6.30	.02	6.1	7.6	210

Table 7A. Description of rock samples from the Skedaddle Mountain WSA

Sk 043	Andesite	132	Basalt
045A	Dacite	141	Dacite
045B	Andesite	SM002A	Rhyolite
045C	Andesite	005A	Rhyolite
045D	Iron-stained andesite	017A	Basalt
045E	Diabase dike	020A	Basalt
049A	Weathered altered(?) andesite	022A	Andesite
049B	Less weathered altered(?) andesite	025A	Andesite
049C	Silicified andesite(?)	027A	Andesite
049D	Chalcedony	034A	Basaltic andesite
049E	Propylitically altered andesite	038A	Lahar clast
049F	Silicified andesite	101A	Basalt
049G	Iron-stained brecciated andesite	013A	Dacite
049H	Composite of altered volcanics	104A	Andesite
049I	Agate, opal, jasper, quartz	105B	Dacite
051	Oxidized basalt-andesite	106A	Andesite
052	Oxidized basalt-andesite	107A	Andesite
053A	Silicified andesite	109A	Dacite
053B	Banded andesite	110A	Dacite
053C	Andesite	111A	Andesite
053D	Tuff	112A	Basalt
053E	Altered andesite	113A	Basaltic andesite
056A	Andesite	114A	Basaltic andesite
056B	Andesite	116A	Andesite
056C	Andesite	117A	Basalt
056D	Basalt	118A	Basaltic andesite
057	Silicified volcanic	119A	Andesite
058	Silicified volcanic	306A	Lahar clast
128A	Vesicular basalt	308A	Dacite
128B	Vesicular basalt	308B	Dacite
128C	Andesite	310A	Dacite
131A	Tuff	311A	Andesite
131B	Dacite	312A	Dacite
131C	Basalt	313A	Dacite
134	Diabase	315A	Andesite
135	Silicified volcanic	316A	Dacite
136	Silicified volcanic	317A	Andesite
137A	Silicified volcanic	318A	Basalt
137B	Silicified brecciated volcanic	319A	Basalt
138A	Silicified brecciated volcanic	320A	Andesite
138B	Silicic, hematitic breccia	321A	Andesite
143A	Weathered porphyritic andesitic	322A	Andesite
143B	Argillic altered andesite	323A	Andesite
146	Silicified andesite(?)	324A	Andesite
148A	Silicified andesite(?) composite	325A	Andesite
148B	Porphyritic andesite	314A	Andesite
148C	Vesicular andesite	025B	Andesite
148D	Pink aphanitic volcanic	120A	Andesite
153	Tufa	121A	Basalt
154	Tufa	122A	Andesite
155	Siliceous sinter	123A	Andesite
224	Basalt	124A	Andesite
230	Andesite	126A	Basaltic andesite
231	Silicified andesite	127A	Lahar clast
235	Basalt	131A	Basalt
238A	Silicified andesite	SM129A	Basalt
238B	Silicified andesite breccia		
238C	Iron-stained volcanic		

Table 7B. Description of rock samples from the Dry Valley Rim WSA

DR	026A	Volcanic agglomerate
	026B	Intermediate volcanic, biotite rich
	027	Basalt
	028A	Iron-stained agglomerate
	028B	Porphyritic andesite
	028C	Diabase dike
	028D	Chabazite in vugs
	031A	Clay
	031B	Vesicular basalt
	034	Altered andesite
	037	Apatite
	114	Porphyritic, vesicular basalt
	119A	Chalcedony and opal
	119B	Altered andesite
	213	Diabase dike