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Analytical results and sample locality map of stream-sediment and heavy-mineral-concentrate samples from the Mallard-Larkins Wilderness—Proposed, Clearwater and St. Joe National Forests, Clearwater and Shoshone Counties, Idaho

By

Harlan N. Barton,* R.T. Hopkins,*

B.H. Roushey,* and P.H. Briggs*

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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.

*U.S. Geological Survey, DFC, Box 25046, MS 973, Denver, CO 80225

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DATA DISKETTE

Tables 2 and 3 in binary format on one 5 1/4 inch IBM compatible diskette	[in pocket]
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STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 88-57, September 3, 1964) and related acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal lands to determine their mineral resource potential. 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 Mallard-Larkins Wilderness—Proposed, in the Clearwater and St. Joe National Forests, Clearwater and Shoshone Counties, Idaho.

INTRODUCTION

In October 1989, the U.S. Geological Survey conducted a reconnaissance geochemical survey of the Mallard-Larkins Wilderness—Proposed, Clearwater and Shoshone Counties, Idaho. The Mallard-Larkins Wilderness—Proposed comprises about 238 square miles (152,100 acres) straddling the border of Clearwater and Shoshone Counties. The study area lies about 40 miles west of Missoula, Montana with its eastern boundary abutting the Montana-Idaho border. Access to the east side of the study area is by Forest Service Road 257 southwest from Interstate Highway 90 at Superior, Montana. Access to the south side is by Forest Service Road 247 northeast from Headquarters, Idaho. Access to the majority of sites sampled in this study was by helicopter based at the Forest Service Cold Springs Work Center, approximately 3 miles west of the confluence of Kelly Creek with the North Fork of the Clearwater River.

Precambrian metasedimentary rocks underlie the major part of the study area. These rocks were intruded by Cretaceous plutonic rocks of the Idaho batholith which were subsequently intruded by Tertiary granite porphyry and gabbro. Three mining districts border the area: the St. Joe mining district (copper and gold) to the northeast; the Moose Creek (gold) to the southeast, and the Sliderock (copper) to the northwest (Nevins and Oakman, 1988).

Altitudes range from a maximum of 7,690 feet at Illinois Peak on the Bitterroot divide on the eastern boundary, down to 2,250 feet on the Little North Fork of the Clearwater River where it exits the study area at the western boundary. The rugged terrain is generally heavily forested except for the area above timberline along the Bitterroot divide.

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 a limited number of 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.

Sample Collection

Samples were collected at a total of 133 sites (plate 1). At all sites, both a stream-sediment sample and a heavy-mineral-concentrate sample were collected. Sampling density was about one sample site per 1.8 square miles. The area of the drainage basins sampled ranged from 0.2 to 2.0 square miles.

Stream-sediment samples

Stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) stream 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 50 feet 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.

Sample Preparation

Stream-sediment samples

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

Heavy-mineral-concentrate samples

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

Sample Analysis

Spectrographic Method

Stream-sediment and heavy-mineral-concentrate samples were analyzed for 35 and 37 elements, respectively, using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination for stream sediments are listed in table 1. Limits of determination for heavy-mineral concentrates are two reporting steps higher (approximately twice as high) due to the use of a smaller sample (5 mg instead of 10 mg). Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (iron, magnesium, calcium, titanium, sodium and phosphorous) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data are listed in tables 2 and 3 for stream-sediment and heavy-mineral-concentrate samples, respectively.

Inductively Coupled Plasma Method

In addition to emission spectroscopy, all stream-sediment samples were analyzed by a partial dissolution inductively coupled plasma atomic emission spectroscopy (ICP) method using the method described in Motooka (1988). Lower limits of determination in parts per million for elements by ICP are: silver 0.045, arsenic 0.600, gold 0.150, bismuth 0.600, cadmium 0.050, copper 0.050, molybdenum 0.090, lead 0.600, antimony 0.600, and zinc 0.050. Analytical results for stream-sediment samples by ICP are listed in table 2 along with the spectrographic data.

Gold Determination by Graphite Furnace Atomic Absorption

Gold in stream-sediment samples was determined by the graphite furnace flameless atomic absorption method of Mier (1980) which has a limit of determination of 0.002 ppm. The results are included in table 2 along with other analytical results, including gold determined by emission spectrography and ICP.

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 (Van Trump and Miesch, 1977).

DESCRIPTION OF DATA TABLES

Tables 2 and 3 list the analyses for stream-sediment and heavy-mineral-concentrate samples, respectively. For the two tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on plate 1. Columns in which the element headings show the letter "S" with the element symbol are emission spectrographic analyses, "A" indicates graphite furnace atomic absorption analyses, and "P" indicates inductively couple plasma analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination for that element. 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 front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in the tables in place of the analytical value. Because of the formatting used in the computer program that produced the data tables, 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.

DATA DISKETTE

The data of tables 2 and 3 are also stored on a diskette found in a pocket inside the back cover of this report. The diskette contains four files: (1) A readme file in ASC II; (2) a binary data file, TABLE2.STP, for stream-sediment samples; (3) a binary data file, TABLE3.STP, for heavy-mineral-concentrate samples; and (4) STP2DAT.EXE, authored by W.D. Grundy of the USGS, for conversion of TABLE2.STP and TABLE3.STP to any of several formats, including DBF, DIF, and ASC II. Although the programs in the STP2DAT.EXE file have been used by the U.S. Geological Survey, no warranty, expressed or implied, is made by the USGS as to the accuracy and functioning of the program and related material, nor shall the fact of distribution constitute any such warranty, and no responsibility is assumed by the USGS in connection therewith.

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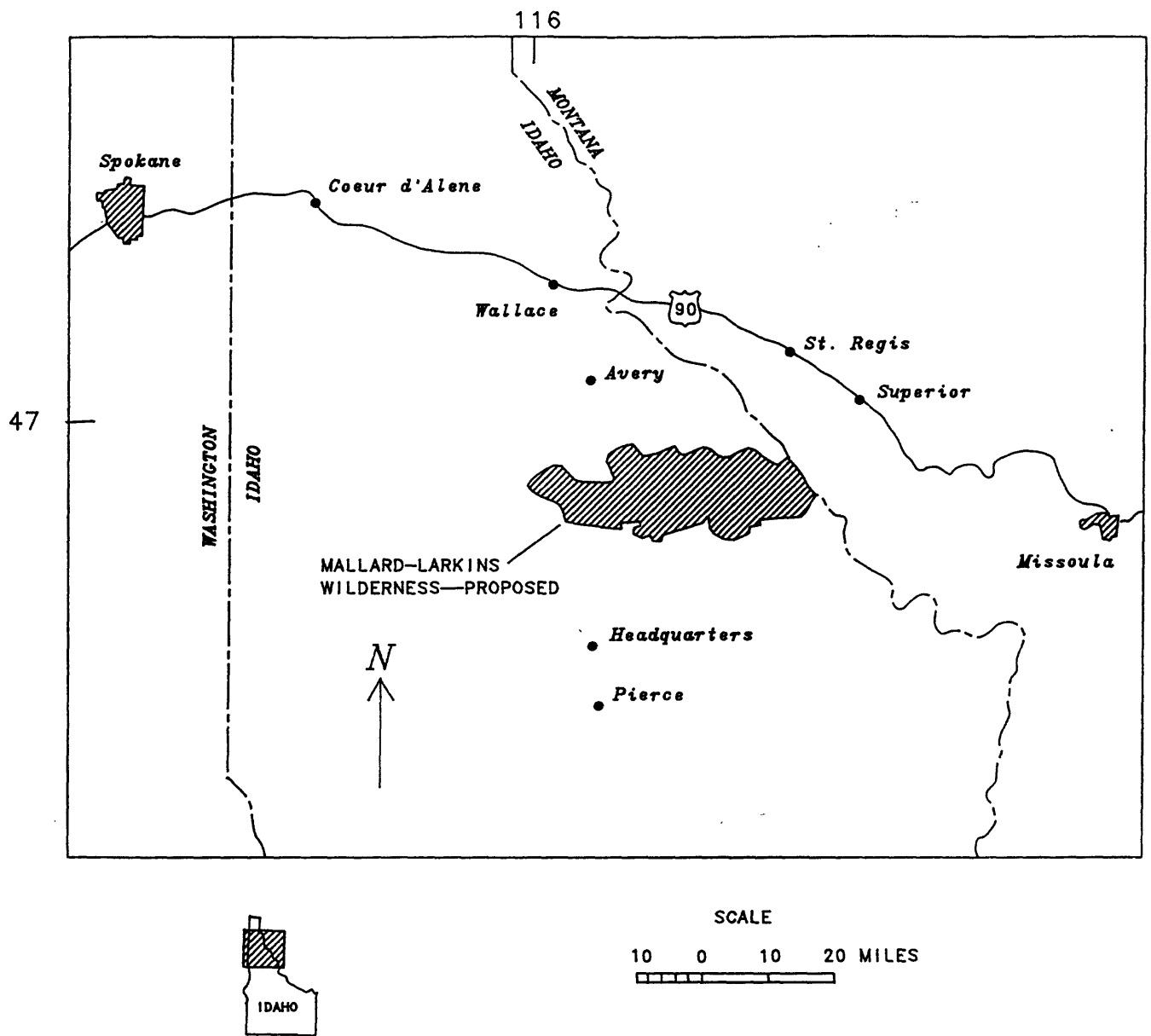


Figure 1. Index map showing location of the Mallard-Larkins Wilderness—Proposed, Clearwater and St. Joe National Forests, Clearwater and Shoshone Counties, Idaho.

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

[The spectrographic limits of determination for heavy-mineral-concentrate samples are based on a 5-mg sample, and are therefore two reporting intervals higher than the limits listed, except as noted]

Elements	Lower determination limit	Upper determination limit
Weight percent		
Calcium (Ca)	0.05	20
Iron (Fe)	.05	20
Magnesium (Mg)	.02	10
Sodium (Na)	.2	5
Phosphorus (P)	.2	10
Titanium (Ti)	.002	1
Parts per million		
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	10	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Gallium (Ga)	5	500
Germanium (Ge)	10	100
Lanthanum (La)	50	1,000
Manganese (Mn)	10	5,000
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
Thorium (Th)	100	2,000
Vanadium (V)	10	10,000
Tungsten (W)	20	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Palladium (Pd)*	5	1,000
Platinum (Pt)*	20	1,000

*Determined in heavy-mineral-concentrate samples only. Limits are for heavy-mineral-concentrate samples.

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.

Sample	LATITUDE	LONGITUD	FE	%-S MG	%-S CA	%-S TI	%-S MN	AG PPM-S	AS PPM-S	AU PPM-S	B PPM-S	BA PPM-S
ML001S	46 54 48	115 32 13	2.0	1.0	1.50	.30	700	N	N	N	<10	700
ML002S	46 54 52	115 32 14	2.0	1.0	1.50	.30	700	N	N	N	<10	700
ML003S	46 54 33	115 32 46	3.0	1.5	1.50	.30	700	N	N	N	<10	700
ML004S	46 54 31	115 34 28	3.0	1.0	1.50	.30	700	N	N	N	10	500
ML005S	46 54 31	115 34 22	3.0	1.5	1.50	.50	700	N	N	N	<10	700
ML006S	46 53 39	115 35 33	5.0	1.5	2.00	.50	1,000	N	N	N	<10	700
ML007S	46 55 11	115 14 49	3.0	.7	.30	.30	500	N	N	N	30	300
ML008S	46 55 19	115 14 44	2.0	.7	.15	.30	500	N	N	N	30	300
ML009S	46 55 35	115 14 52	2.0	.7	.30	.30	700	N	N	N	50	300
ML010S	46 56 10	115 14 38	3.0	.7	.15	.20	1,000	N	N	N	50	300
ML011S	46 56 14	115 14 33	3.0	1.0	.30	.30	700	N	N	N	50	300
ML012S	46 53 16	115 11 45	3.0	1.0	1.00	.30	500	N	N	N	30	700
ML013S	46 54 7	115 9 7	2.0	1.5	1.00	.20	200	N	N	N	30	700
ML014S	46 53 42	115 6 29	2.0	.7	.30	.30	200	N	N	N	20	700
ML015S	46 54 20	115 7 1	3.0	1.0	.70	.20	300	N	N	N	20	500
ML016S	46 54 59	115 7 11	3.0	1.0	.50	.30	300	N	N	N	30	500
ML017S	46 56 3	115 6 34	3.0	1.5	1.00	.20	300	N	N	N	30	500
ML018S	46 58 43	115 4 56	3.0	1.0	.20	.20	500	N	N	N	30	700
ML019S	46 58 8	115 4 13	2.0	1.0	.20	.20	500	N	N	N	30	700
ML020S	46 59 53	115 4 55	2.0	1.0	.20	.15	300	N	N	N	30	700
ML021S	47 0 32	115 7 52	3.0	1.5	1.50	.30	500	N	N	N	30	700
ML022S	47 0 30	115 7 58	1.5	.7	.15	.15	150	N	N	N	20	300
ML023S	46 56 31	115 12 30	2.0	1.5	.30	.20	300	N	N	N	30	700
ML024S	46 56 27	115 12 30	2.0	.7	.50	.20	500	N	N	N	30	300
ML025S	46 56 22	115 10 0	3.0	1.5	.70	.30	700	N	N	N	50	500
ML026S	46 55 58	115 8 53	1.5	.7	.15	.30	200	N	N	N	15	300
ML027S	46 55 43	115 8 31	2.0	1.0	.50	.20	500	N	N	N	30	500
ML028S	46 55 6	115 39 39	5.0	1.5	1.50	1.00	1,000	N	N	N	<10	500
ML029S	46 54 45	115 40 41	3.0	1.0	1.50	.50	700	N	N	N	<10	500
ML030S	46 54 18	115 41 52	3.0	1.0	1.50	.50	700	N	N	N	10	300
ML031S	46 56 3	115 42 36	5.0	1.5	1.50	.50	1,000	N	N	N	30	500
ML032S	46 56 46	115 42 8	5.0	1.5	1.50	.70	700	N	N	N	10	300
ML033S	46 57 2	115 41 45	5.0	2.0	5.00	.70	1,000	N	N	N	10	500
ML034S	46 58 7	115 40 27	5.0	1.5	3.00	.70	700	N	N	N	30	500
ML035S	46 58 13	115 40 32	5.0	1.5	3.00	.70	1,000	N	N	N	50	300
ML036S	47 3 7	115 22 54	3.0	.7	.50	.30	1,500	N	N	N	70	300
ML037S	47 3 3	115 24 17	2.0	.5	.15	.30	700	N	N	N	30	200
ML038S	47 2 28	115 25 34	3.0	.7	.15	.30	1,000	N	N	N	30	300
ML039S	47 2 28	115 25 43	3.0	.7	.50	.30	700	N	N	N	30	300
ML040S	47 2 37	115 25 23	3.0	.7	.30	.30	2,000	N	N	N	30	500
ML041S	47 2 57	115 27 3	7.0	1.0	1.00	.70	3,000	N	N	N	50	500
ML042S	47 3 0	115 32 37	3.0	.7	.30	.30	1,000	N	N	N	50	300
ML043S	47 3 0	115 32 26	5.0	1.0	1.5	.50	2,000	N	N	N	50	300
ML044S	47 1 11	115 32 54	2.0	.7	.50	.70	500	N	N	N	30	300
ML045S	47 1 12	115 32 50	3.0	.7	.70	.70	700	N	N	N	50	300

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	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	SB PPM-S
ML001S	1.0	N	N	15	30	10	100	N	<20	10	100	N
ML002S	1.5	N	N	15	50	7	100	N	<20	10	70	N
ML003S	1.5	N	N	20	100	20	200	N	<20	50	70	N
ML004S	1.5	N	N	20	50	20	150	N	<20	30	50	N
ML005S	1.5	N	N	20	50	20	200	N	<20	30	70	N
ML006S	1.5	N	N	20	100	20	300	N	<20	50	50	N
ML007S	1.5	N	N	15	70	20	50	N	<20	20	30	N
ML008S	1.5	N	N	20	50	20	50	<5	<20	20	30	N
ML009S	2.0	N	N	30	70	20	50	5	<20	20	30	N
ML010S	1.5	N	N	15	30	20	70	N	<20	20	30	N
ML011S	1.5	N	N	20	50	20	70	N	<20	30	50	N
ML012S	2.0	N	N	15	30	15	50	N	<20	20	30	N
ML013S	1.5	N	N	15	20	10	50	N	<20	15	30	N
ML014S	1.0	N	N	<10	30	7	70	N	20	7	20	N
ML015S	1.5	N	N	15	20	15	70	N	<20	15	30	N
ML016S	1.5	N	N	15	70	15	70	N	<20	20	30	N
ML017S	1.5	N	N	20	30	20	150	N	<20	15	30	N
ML018S	1.5	N	N	15	50	20	100	N	<20	20	30	N
ML019S	1.5	N	N	15	30	15	100	N	<20	20	30	N
ML020S	1.5	N	N	20	30	15	50	N	<20	20	30	N
ML021S	1.5	N	N	20	50	20	100	<5	20	20	50	N
ML022S	1.5	N	N	30	15	20	100	N	<20	30	50	N
ML023S	1.5	N	N	15	70	15	50	N	<20	20	30	N
ML024S	1.5	N	N	15	50	20	<50	N	<20	20	30	N
ML025S	1.5	N	N	20	70	20	50	N	20	20	30	N
ML026S	1.0	N	N	15	20	7	70	N	<20	10	10	N
ML027S	1.5	N	N	15	30	7	50	N	<20	10	20	N
ML028S	<1.0	N	N	30	100	15	200	N	<20	30	30	N
ML029S	1.0	N	N	30	100	30	100	N	<20	30	30	N
ML030S	1.0	N	N	20	70	15	100	N	<20	30	30	N
ML031S	<1.0	N	N	30	150	20	200	N	20	50	30	N
ML032S	<1.0	N	N	30	100	20	150	N	<20	30	30	N
ML033S	<1.0	N	N	50	150	30	100	N	<20	50	30	N
ML034S	<1.0	N	N	30	100	20	150	N	<20	50	30	N
ML035S	<1.0	N	N	30	100	20	150	N	20	30	30	N
ML036S	1.0	N	N	10	50	20	50	N	<20	10	15	N
ML037S	1.5	N	N	15	15	15	<50	N	<20	15	10	N
ML038S	1.5	N	N	20	50	20	<50	N	<20	20	20	N
ML039S	1.5	N	N	15	30	30	70	N	<20	20	20	N
ML040S	1.5	N	N	15	50	20	<50	N	<20	20	30	N
ML041S	1.0	N	N	15	100	15	<50	N	<20	15	50	N
ML042S	1.5	N	N	10	30	20	<50	N	N	20	30	N
ML043S	1.5	N	N	15	50	20	50	N	<20	20	30	N
ML044S	1.5	N	N	<10	50	15	<50	N	20	7	30	N
ML045S	1.5	N	N	10	20	7	70	N	<20	7	15	N

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--continued.

Sample	SC	PPM-S	SN	PPM-S	SR	PPM-S	V	PPM-S	W	PPM-S	Y	PPM-S	Zn	PPM-S	ZR	PPM-S	NA	%-S	P	%-S	GA	PPM-S	GE	PPM-S
ML001S	15	N	N	500	70	N	50	N	300	2.0	N	300	N	300	300	300	2.0	N	N	<.2	30	N	N	
ML002S	15	N	N	700	70	N	50	N	300	2.0	N	300	N	300	300	300	2.0	<.2	<.2	30	N	N		
ML003S	20	N	N	500	100	N	100	N	300	2.0	N	300	N	300	300	300	2.0	N	N	<.2	30	N	N	
ML004S	20	N	N	500	70	N	70	N	300	1.5	N	300	N	300	300	300	1.5	N	N	N	30	N	N	
ML005S	20	N	N	500	100	N	70	N	300	1.5	N	300	N	300	300	300	1.5	<.2	<.2	30	N	N		
ML006S	20	N	N	700	100	N	150	N	500	2.0	N	500	N	500	500	500	2.0	N	N	N	50	N	N	
ML007S	15	N	N	<100	70	N	50	N	200	1.5	N	200	N	200	200	200	1.5	N	N	N	30	N	N	
ML008S	15	N	N	N	70	N	30	N	150	1.5	N	150	N	150	150	150	1.5	N	N	N	30	N	N	
ML009S	10	N	N	<100	70	N	50	N	200	1.5	N	200	N	200	200	200	1.5	N	N	N	30	N	N	
ML010S	10	N	N	N	70	N	70	N	150	1.0	N	150	N	150	150	150	1.0	N	N	N	15	N	N	
ML011S	15	N	N	<100	70	N	50	N	200	1.0	N	200	N	200	200	200	1.0	N	N	N	30	N	N	
ML012S	15	N	N	100	70	N	50	N	150	1.0	N	150	N	150	150	150	1.0	N	N	N	30	N	N	
ML013S	15	N	N	<100	70	N	30	N	150	1.0	N	150	N	150	150	150	1.0	N	N	N	20	N	N	
ML014S	10	N	N	150	70	N	70	N	300	1.0	N	300	N	300	300	300	1.0	N	N	N	20	N	N	
ML015S	10	N	N	<100	70	N	50	N	150	1.0	N	150	N	150	150	150	1.0	N	N	N	20	N	N	
ML016S	15	N	N	<100	70	N	50	N	200	1.0	N	200	N	200	200	200	1.0	<.2	<.2	30	N	N		
ML017S	15	N	N	150	70	N	70	N	150	1.0	N	150	N	150	150	150	1.0	N	N	N	30	N	N	
ML018S	10	N	N	N	70	N	70	N	200	1.5	N	200	N	200	200	200	1.5	N	N	N	30	N	N	
ML019S	10	N	N	N	70	N	50	N	150	1.5	N	150	N	150	150	150	1.5	N	N	N	30	N	N	
ML020S	10	N	N	N	70	N	50	N	150	1.5	N	150	N	150	150	150	1.5	N	N	N	30	N	N	
ML021S	15	N	N	200	70	N	70	N	300	2.0	N	300	N	300	300	300	2.0	N	N	N	30	N	N	
ML022S	5	N	N	N	50	N	50	N	150	1.5	N	150	N	150	150	150	1.5	N	N	N	15	N	N	
ML023S	15	N	N	100	70	N	30	N	150	1.0	N	150	N	150	150	150	1.0	N	N	N	30	N	N	
ML024S	10	N	N	150	70	N	30	N	150	1.0	N	150	N	150	150	150	1.0	N	N	N	30	N	N	
ML025S	15	N	N	150	70	N	30	N	200	1.0	N	200	N	200	200	200	1.0	N	N	N	30	N	N	
ML026S	7	N	N	N	70	N	30	N	200	1.5	N	200	N	200	200	200	1.5	N	N	N	30	N	N	
ML027S	10	N	N	<100	70	N	50	N	200	1.0	N	200	N	200	200	200	1.0	N	N	N	20	N	N	
ML028S	20	N	N	300	100	N	70	N	300	1.5	N	300	N	300	300	300	1.5	N	N	N	30	N	N	
ML029S	20	N	N	500	100	N	70	N	200	2.0	N	200	N	200	200	200	2.0	N	N	N	30	N	N	
ML030S	20	N	N	500	100	N	100	N	300	1.0	N	300	N	300	300	300	1.0	N	N	N	30	N	N	
ML031S	20	N	N	300	100	N	100	N	300	1.0	N	300	N	300	300	300	1.0	N	N	N	30	N	N	
ML032S	20	N	N	300	100	N	70	N	300	1.5	N	300	N	300	300	300	1.5	<.2	<.2	30	N	N		
ML033S	30	N	N	300	150	N	70	N	300	1.0	N	300	N	300	300	300	1.0	N	N	N	30	N	N	
ML034S	30	N	N	500	150	N	70	N	700	1.5	N	700	N	700	700	700	1.5	<.2	<.2	50	N	N		
ML035S	30	N	N	300	150	N	100	N	300	1.0	N	300	N	300	300	300	1.0	N	N	N	30	N	N	
ML036S	15	N	N	100	70	N	70	N	200	.7	N	200	N	200	200	200	.7	N	N	N	20	N	N	
ML037S	7	N	N	N	70	N	50	N	150	.7	N	150	N	150	150	150	.7	N	N	N	15	N	N	
ML038S	15	N	N	N	70	N	70	N	150	.7	N	150	N	150	150	150	.7	N	N	N	30	N	N	
ML039S	15	N	N	N	70	N	100	N	200	.7	N	200	N	200	200	200	.7	N	N	N	20	N	N	
ML040S	15	N	N	<100	70	N	70	N	300	1.0	N	300	N	300	300	300	1.0	N	N	N	30	N	N	
ML041S	20	N	N	150	100	N	150	N	300	.7	N	300	N	300	300	300	.7	N	N	N	20	N	N	
ML042S	15	N	N	N	70	N	70	N	200	1.0	N	200	N	200	200	200	1.0	N	N	N	20	N	N	
ML043S	20	N	N	<100	100	N	100	N	200	1.0	N	200	N	200	200	200	1.0	N	N	N	20	N	N	
ML044S	7	N	N	200	70	N	50	N	300	2.0	N	300	N	300	300	300	2.0	N	N	N	20	N	N	
ML045S	7	N	N	<100	70	N	70	N	300	1.5	N	300	N	300	300	300	1.5	N	N	N	15	N	N	

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--continued.

Sample	TH	PPM-S	AU	PPM	AS/P	PPM	Bi/P	PPM	Cd/P	PPM	Sb/P	PPM	Zn/P	PPM	Cu/P	PPM	Pb/P	PPM	Ag/P	PPM	Mo/P	PPM	Au/P	PPM
ML001S	N		N		.63	N	N		.190	N	N		36.0		8.90		20.0		N		.340		N	
ML002S	N		N		.90	N	N		.200	N	N		34.0		9.30		13.0		N		.190		N	
ML003S	N		N		1.50	N	N		.110	N	N		46.0		17.00		6.3		N		1.100		N	
ML004S	N		N	.006	.89	N	N		.110	N	N		34.0		13.00		5.5		N		.620		N	
ML005S	N		N		.68	N	N		.130	N	N		39.0		13.00		6.6		N		.370		N	
ML006S	N		N		2.10	N	N		.099	N	N		49.0		20.00		6.5		N		1.100		N	
ML007S	N		N		3.70	N	N		.049	N	N		16.0		12.00		3.7		N		.750		N	
ML008S	N		N		6.20	N	N		.060	N	N		15.0		14.00		3.8		N		1.400		N	
ML009S	N		N		4.30	N	N		.110	N	N		18.0		16.00		6.5		.050		2.800		N	
ML010S	N		N	<.002	1.30	N	N		.035	N	N		17.0		15.00		3.2		N		.570		N	
ML011S	N		N		4.30	N	N		.280	N	N		29.0		12.00		8.9		N		.660		N	
ML012S	N		N	.150	1.50	N	N		.076	N	N		20.0		7.40		3.0		N		.490		N	
ML013S	N		N		.73	N	N		N	N	N		21.0		6.20		3.4		N		.190		N	
ML014S	N		N		.81	N	N		.064	N	N		11.0		3.70		3.7		N		.200		N	
ML015S	N		N		.98	N	N		.062	N	N		30.0		11.00		4.6		N		.360		N	
ML016S	N		N		2.00	N	N	.70	.061	N	N		23.0		9.10		5.7		N		.490		N	
ML017S	N		N		2.10	N	N	.63	.040	N	N		27.0		9.80		4.9		N		.210		N	
ML018S	N		N		4.20	N	N	.94	.040	N	N		20.0		8.90		6.0		N		.370		N	
ML019S	N		N		5.20	N	N	N	.063	N	N		23.0		7.60		4.0		N		.370		N	
ML020S	N		N	.008	4.20	N	N	.72	.082	N	N		32.0		11.00		9.6		N		.470		N	.22
ML021S	N		N	<.002	5.20	N	N	N	.054	N	N		21.0		9.70		13.0		.077		.740		N	
ML022S	N		N	.002	8.30	N	N	.71	.068	N	N		16.0		14.00		14.0		.160		.500		N	
ML023S	N		N		1.80	N	N	N	.072	N	N		39.0		12.00		8.5		N		.200		N	
ML024S	N		N		2.30	N	N	N	.190	N	N		37.0		12.00		10.0		N		.580		N	
ML025S	N		N	.004	3.50	N	N	N	.068	N	N		26.0		13.00		6.8		N		.320		N	
ML026S	N		N		3.10	N	N	1.60	.030	N	N		6.5		3.70		3.9		N		.160		N	
ML027S	N		N		1.50	N	N	N	.044	N	N		22.0		7.60		3.8		N		.220		N	
ML028S	N		N		.89	N	N	N	.120	N	N		40.0		11.00		6.3		N		.320		N	
ML029S	N		N		1.50	N	N	N	.160	N	N		74.0		24.00		7.5		N		.380		N	
ML030S	N		N		.92	N	N	N	.170	N	N		41.0		10.00		6.7		N		.320		N	
ML031S	N		N		1.20	N	N	N	.160	N	N		64.0		18.00		7.3		N		.420		N	
ML032S	N		N		.82	N	N	N	.170	N	N		66.0		19.00		7.9		N		.430		N	
ML033S	N		N		N	N	N	N	.130	N	N		47.0		23.00		5.6		N		.290		N	
ML034S	N		N		.84	N	N	N	.071	N	N		36.0		12.00		4.2		N		.300		N	
ML035S	N		N		.64	N	N	N	.074	N	N		24.0		13.00		3.1		N		.210		N	
ML036S	N		N		4.90	N	N	N	N	N	N		19.0		10.00		2.1		N		.480		N	
ML037S	N		N		4.50	N	N	N	.052	N	N		28.0		12.00		2.4		N		.510		N	
ML038S	N		N		4.70	N	N	N	.100	N	N		52.0		20.00		3.2		N		.500		N	
ML039S	N		N		8.20	N	N	N	.033	N	N		17.0		33.00		1.9		N		.500		N	
ML040S	N		N		5.40	N	N	N	.064	N	N		44.0		18.00		3.4		N		.630		N	
ML041S	N		N		1.30	N	N	N	N	N	N		33.0		14.00		4.8		N		.350		N	
ML042S	N		N	<.004	3.60	N	N	N	N	N	N		22.0		17.00		2.9		N		.150		N	
ML043S	N		N		3.20	N	N	N	N	N	N		26.0		15.00		2.8		N		.180		N	
ML044S	N		N		1.40	N	N	N	N	N	N		12.0		3.70		2.2		N		N		N	
ML045S	N		N		1.40	N	N	N	N	N	N		10.0		5.60		1.8		N		.099		N	

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	LATITUDE	LONGITUD	FE	%-S	MG	%-S	CA	%-S	TI	%-S	MN	PPM-S	AG	PPM-S	AS	PPM-S	AU	PPM-S	B	PPM-S	BA	PPM-S
ML046S	47 1 34	115 31 27	2.0	1.0	1.0	.70	.30	.500	N	N	N	N	N	N	N	N	N	N	30	30	300	300
ML047S	46 58 47	115 41 31	3.0	1.0	1.50	1.50	.50	700	N	N	N	N	N	N	N	N	N	N	70	70	500	500
ML048S	46 58 45	115 41 40	7.0	1.5	5.00	1.00	1,500	N	N	N	N	N	N	N	N	N	N	N	100	100	300	300
ML049S	46 58 23	115 46 34	3.0	1.0	1.50	.50	1,000	N	N	N	N	N	N	N	N	N	N	N	70	70	500	500
ML050S	47 0 44	115 48 24	5.0	1.5	2.00	>1.00	700	N	N	N	N	N	N	N	N	N	N	N	20	20	100	100
ML051S	46 59 57	115 48 22	3.0	1.5	2.00	.30	700	N	N	N	N	N	N	N	N	N	N	N	70	70	150	150
ML052S	47 0 54	115 44 0	7.0	1.0	1.50	1.00	1,500	N	N	N	N	N	N	N	N	N	N	N	100	100	500	500
ML053S	47 0 12	115 41 35	7.0	1.0	1.50	>1.00	1,500	N	N	N	N	N	N	N	N	N	N	N	30	30	500	500
ML054S	46 59 8	115 39 20	7.0	1.5	2.00	1.00	1,000	N	N	N	N	N	N	N	N	N	N	N	30	30	300	300
ML055S	46 59 36	115 38 51	5.0	.7	1.50	1.00	1,000	N	N	N	N	N	N	N	N	N	N	N	20	20	700	700
ML056S	47 1 33	115 34 50	3.0	1.0	.70	.30	700	N	N	N	N	N	N	N	N	N	N	N	30	30	300	300
ML057S	46 59 46	115 26 32	1.5	1.0	1.00	.70	200	N	N	N	N	N	N	N	N	N	N	N	50	50	500	500
ML058S	46 51 59	115 29 12	3.0	.7	.70	.50	700	N	N	N	N	N	N	N	N	N	N	N	50	50	300	300
ML059S	46 57 24	115 37 13	7.0	1.5	3.00	>1.00	1,500	N	N	N	N	N	N	N	N	N	N	N	20	20	500	500
ML060S	46 57 19	115 36 42	5.0	1.0	1.50	1.00	1,000	N	N	N	N	N	N	N	N	N	N	N	10	10	500	500
ML061S	46 59 36	115 37 55	3.0	1.0	1.50	.50	700	N	N	N	N	N	N	N	N	N	N	N	20	20	500	500
ML062S	46 59 14	115 35 7	5.0	1.0	2.00	.70	1,000	N	N	N	N	N	N	N	N	N	N	N	<10	<10	300	300
ML063S	46 57 15	115 35 27	5.0	1.5	2.00	1.00	1,000	N	N	N	N	N	N	N	N	N	N	N	20	20	500	500
ML064S	46 57 20	115 33 33	7.0	1.5	1.50	>1.00	1,500	N	N	N	N	N	N	N	N	N	N	N	20	20	150	150
ML065S	46 56 55	115 32 8	3.0	1.0	2.00	.70	700	N	N	N	N	N	N	N	N	N	N	N	20	20	500	500
ML066S	46 55 47	115 27 0	2.0	.7	1.00	.50	700	N	N	N	N	N	N	N	N	N	N	N	50	50	300	300
ML067S	46 55 44	115 27 3	3.0	.7	1.00	.50	1,000	N	N	N	N	N	N	N	N	N	N	N	50	50	700	700
ML068S	46 53 44	115 30 11	5.0	.7	.70	.50	1,000	N	N	N	N	N	N	N	N	N	N	N	20	20	500	500
ML069S	46 55 29	115 30 34	5.0	1.0	1.00	.50	1,000	N	N	N	N	N	N	N	N	N	N	N	50	50	700	700
ML070S	46 55 56	115 30 50	3.0	.7	.50	.30	700	N	N	N	N	N	N	N	N	N	N	N	10	10	500	500
ML071S	46 59 5	115 28 18	2.0	.7	.70	1.00	700	N	N	N	N	N	N	N	N	N	N	N	70	70	300	300
ML072S	46 57 45	115 29 41	3.0	.7	.70	>1.00	1,000	N	N	N	N	N	N	N	N	N	N	N	50	50	500	500
ML073S	46 55 9	115 26 29	2.0	.7	1.00	.30	700	N	N	N	N	N	N	N	N	N	N	N	30	30	500	500
ML074S	46 53 4	115 28 56	3.0	.7	.70	.50	1,000	N	N	N	N	N	N	N	N	N	N	N	50	50	300	300
ML075S	46 52 32	115 26 20	3.0	1.0	2.00	.30	1,500	N	N	N	N	N	N	N	N	N	N	N	70	70	500	500
ML076S	46 52 31	115 26 9	3.0	1.0	1.50	.50	700	N	N	N	N	N	N	N	N	N	N	N	70	70	500	500
ML077S	46 53 39	115 21 5	3.0	1.5	3.00	.70	1,000	N	N	N	N	N	N	N	N	N	N	N	50	50	700	700
ML078S	46 54 33	115 20 52	2.0	1.5	1.00	.30	500	N	N	N	N	N	N	N	N	N	N	N	100	100	500	500
ML079S	46 52 43	115 22 7	5.0	.3	.30	>1.00	300	N	N	N	N	N	N	N	N	N	N	N	20	20	500	500
ML080S	46 54 20	115 22 38	2.0	.3	.15	1.00	150	N	N	N	N	N	N	N	N	N	N	N	30	30	500	500
ML081S	46 54 25	115 22 36	5.0	.5	.70	1.00	200	N	N	N	N	N	N	N	N	N	N	N	15	15	500	500
ML082S	46 54 10	115 18 1	2.0	2.0	2.00	.50	500	N	N	N	N	N	N	N	N	N	N	N	15	15	300	300
ML083S	46 54 16	115 15 20	3.0	.7	.20	.50	700	N	N	N	N	N	N	N	N	N	N	N	30	30	300	300
ML084S	46 53 13	115 21 12	2.0	1.5	1.00	.30	300	N	N	N	N	N	N	N	N	N	N	N	15	15	500	500
ML085S	46 54 46	115 20 30	3.0	2.0	1.00	.30	700	N	N	N	N	N	N	N	N	N	N	N	30	30	500	500
ML086S	46 55 5	115 20 16	3.0	1.5	.70	.50	1,000	N	N	N	N	N	N	N	N	N	N	N	30	30	150	150
ML087S	46 56 21	115 18 7	3.0	.7	.30	.50	700	N	N	N	N	N	N	N	N	N	N	N	50	50	300	300
ML088S	46 55 22	115 20 49	2.0	2.0	1.00	.20	500	N	N	N	N	N	N	N	N	N	N	N	50	50	700	700
ML089S	46 56 16	115 22 25	2.0	1.0	.70	.20	500	N	N	N	N	N	N	N	N	N	N	N	30	30	500	500
ML090S	46 57 3	115 20 29	3.0	1.5	.70	.30	700	N	N	N	N	N	N	N	N	N	N	N	50	50	500	500

Table 2---Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	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	SB PPM-S
ML046S	1.0	N	N	10	20	10	50	N	<20	7	<10	N
ML047S	1.0	N	N	20	70	20	100	N	<20	30	50	N
ML048S	<1.0	N	N	30	150	20	200	N	20	50	50	N
ML049S	1.5	N	N	15	70	20	50	N	<20	15	50	N
ML050S	<1.0	N	N	30	70	20	50	N	<20	30	30	N
ML051S	<1.0	N	N	20	50	10	<50	N	N	50	15	N
ML052S	1.0	N	N	20	100	20	150	N	20	70	50	N
ML053S	1.5	N	N	20	70	20	500	N	20	30	50	N
ML054S	1.0	N	N	30	100	20	100	N	20	30	30	N
ML055S	1.0	N	N	20	70	20	100	N	<20	30	50	N
ML056S	1.5	N	N	<10	30	20	70	N	<20	15	15	N
ML057S	1.5	N	N	N	15	<5	70	N	20	<5	15	N
ML058S	2.0	N	N	15	20	20	50	N	<20	15	50	N
ML059S	<1.0	N	N	30	100	30	50	N	<20	30	30	N
ML060S	<1.0	N	N	20	50	10	150	N	<20	30	30	N
ML061S	1.5	N	N	20	70	20	150	N	<20	50	50	N
ML062S	1.0	N	N	20	70	20	150	N	<20	30	30	N
ML063S	1.0	N	N	20	70	10	<50	N	<20	30	30	N
ML064S	<1.0	N	N	20	100	<5	70	N	20	50	20	N
ML065S	1.5	N	N	15	50	10	70	N	<20	15	50	N
ML066S	1.5	N	N	<10	15	<5	70	N	<20	5	30	N
ML067S	1.5	N	N	15	50	7	50	N	<20	7	50	N
ML068S	1.5	N	N	20	50	15	300	N	<20	20	50	N
ML069S	2.0	N	N	20	70	20	70	N	<20	30	50	N
ML070S	2.0	N	N	15	50	15	50	N	<20	15	50	N
ML071S	1.5	N	N	<10	50	<5	70	N	30	<5	30	N
ML072S	1.5	N	N	15	50	7	50	N	20	7	50	N
ML073S	1.5	N	N	<10	15	<5	50	N	<20	5	20	N
ML074S	2.0	N	N	15	30	15	150	N	<20	15	50	N
ML075S	2.0	N	N	10	20	10	300	N	20	15	50	N
ML076S	2.0	N	N	15	70	15	200	N	<20	15	30	N
ML077S	1.0	N	N	15	70	7	200	N	20	10	20	N
ML078S	1.5	N	N	10	30	15	70	N	<20	15	30	N
ML079S	<1.0	N	N	<10	70	5	150	N	20	<5	20	N
ML080S	1.5	N	N	<10	15	<5	70	N	20	5	15	N
ML081S	1.0	N	N	N	70	<5	50	N	20	N	15	N
ML082S	1.5	N	N	10	30	7	70	N	<20	7	15	N
ML083S	1.5	N	N	15	50	20	<50	N	<20	15	20	N
ML084S	1.5	N	N	15	20	10	50	N	<20	10	20	N
ML085S	1.5	N	N	20	50	15	100	N	<20	20	20	N
ML086S	1.5	N	N	20	50	15	150	N	20	15	15	N
ML087S	1.5	N	N	20	70	20	70	N	20	20	15	N
ML088S	1.5	N	N	15	30	10	100	N	<20	15	20	N
ML089S	1.5	N	N	10	15	15	50	N	<20	15	15	N
ML090S	1.5	N	N	15	50	20	50	N	<20	20	15	N

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	SC	PPM-S	SN	PPM-S	SR	PPM-S	V	PPM-S	W	PPM-S	Y	ZN	PPM-S	ZR	PPM-S	NA	%-S	P	%-S	GA	PPM-S	GE	PPM-S	
ML046S	7		N		N			70		N	30		N	300		2.0	N		N	15		N		
ML047S	20		N		300		150		N		50		N	300		2.0	N		N	30		N		
ML048S	30		N		500		200		N		200		N	700		1.5	N		N	30		N		
ML049S	10		N		500		150		N		50		N	300		1.5	N		N	20		N		
ML050S	20		N		300		150		N		20		N	100		1.5	N		N	30		N		
ML051S	7		N		500			70		N	10		N	150		2.0	N		N	30		N		
ML052S	20		N		500		150		N		100		N	700		1.5	N		N	30		N		
ML053S	20		N		500		150		N		200		N	500		2.0	N		N	30		N		
ML054S	30		N		500		150		N		70		N	300		1.5	<.2			30		N		
ML055S	15		N		500		150		N		70		N	300		2.0	N		N	30		N		
ML056S	10		N					70		N	70		N	300		1.5	N		N	15		N		
ML057S	7		N		<100		100		N		70		N	300		2.0	N		N	20		N		
ML058S	10		N		150		70		N		30		N	100		2.0	N		N	20		N		
ML059S	20		N		500		150		N		50		N	300		2.0	N		N	30		N		
ML060S	20		N		500		150		N		100		N	500		1.5	<.2			20		N		
ML061S	20		N		500		150		N		100		N	500		1.5	<.2			30		N		
ML062S	20		N		500		150		N		150		N	300		1.5	N		N	30		N		
ML063S	20		N		300		200		N		30		N	500	1,000	2.0	N		N	30		N		
ML064S	20		N		150		150		N		50		N	200			.7	N		N	20		N	
ML065S	15		N		500		150		N		50		N	200			2.0	N		N	30		N	
ML066S	7		N		200			70		N	50		N	300		2.0	N		N	30		N		
ML067S	15		N		300		100		N		30		N	300		2.0	N		N	20		N		
ML068S	15		N		300		100		N		100		N	300		2.0	N		N	30		N		
ML069S	15		N		500		100		N		50		N	200		2.0	N		N	30		N		
ML070S	10		N		300		100		N		30		N	200		5.0	N		N	30		N		
ML071S	7		N		300			70		N	50		N	300		2.0	N		N	20		N		
ML072S	10		N		300		70		N		50		N	500		1.5	N		N	20		N		
ML073S	7		N		150		50		N		30		N	200		1.5	N		N	15		N		
ML074S	10		N		200		70		N		70		N	200		1.5	<.2			20		N		
ML075S	15		N		300		70		N		300		N	200		2.0	<.2			30		N		
ML076S	15		N		150			70		N	50		N	300		1.5	N		N	30		N		
ML077S	15		N		150		100		N		70		N	300		2.0	N		N	20		N		
ML078S	10		N		100		100		N		30		N	200		1.5	N		N	30		N		
ML079S	7		N				100		N		70		N	500		1.5	N		N	15		N		
ML080S	5		N		<100		70		N		50		N	300		1.5	N		N	15		N		
ML081S	7		N		150			70		N	50		N	700		2.0	N		N	15		N		
ML082S	10		N		100		70		N		50		N	200		3.0	N		N	20		N		
ML083S	10		N				70		N		30		N	150		1.0	<.2			20		N		
ML084S	10		N				70		N		30		N	200		1.5	N		N	15		N		
ML085S	10		N		<100		70		N		50		N	200		2.0	N		N	30		N		
ML086S	10		N				70		N		70		N	200		2.0	N		N	20		N		
ML087S	10		N				70		N		70		N	300		1.0	N		N	20		N		
ML088S	10		N		<100		70		N		70		N	300		1.5	N		N	20		N		
ML089S	7		N				70		N		30		N	300		1.5	N		N	15		N		
ML090S	10		N				70		N		30		N	200		2.0	N		N	30		N		

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	TH	PPM-S	AU	PPM	As/P	PPM	Bi/P	PPM	Cd/P	PPM	Sb/P	PPM	Zn/P	PPM	Cu/P	PPM	Pb/P	PPM	Ag/P	PPM	Mo/P	PPM	Au/P	PPM
ML046S	N		N		1.70	N	N		N	.054	N		8.4		6.40		1.6		N		N		N	
ML047S	N		N		N	N	N		.088		N		47.0		19.00		4.6		N		.390		N	
ML048S	N		N		N	N	N		.140		N		30.0		17.00		4.0		N		.220		N	
ML049S	N		N		.83	N	N		.070		N		42.0		12.00		7.9		N		.490		N	
ML050S	N		N		.70	N	N				N		21.0		9.10		2.5		N		.130		N	
ML051S	N		N		.60	N	N		.120		N		18.0		5.90		3.5		N		.130		N	
ML052S	N		N		1.30	N	N		.220		N		61.0		9.10		9.1		N		.350		N	
ML053S	N		N		N	N	N		.074		N		34.0		9.80		5.2		N		.190		N	
ML054S	N		N		.95	N	N		.180		N		41.0		20.00		7.0		N		.190		N	
ML055S	N		N		.96	N	N		.061		N		22.0		11.00		5.0		N		.160		N	
ML056S	N		N		2.20	N	N		.045		N		14.0		7.70		2.4		N		.140		N	
ML057S	N		N		N	N	N		N		N		9.9		3.10		1.7		N		.200		N	
ML058S	N		N		3.50	N	N		.230		N		53.0		14.00		24.0		.110		1.100		N	
ML059S	N		N		1.30	N	N		.110		N		45.0		28.00		8.4		.049		.810		N	
ML060S	N		N		N	N	N		.140		N		28.0		6.60		5.1		N		.170		N	
ML061S	N		N		1.30	N	N		.130		N		54.0		22.00		18.0		N		.230		N	
ML062S	N		N		1.20	N	N		.099		N		36.0		16.00		4.5		N		.200		N	
ML063S	N		N		.77	N	N		.170		N		23.0		8.20		5.1		N		.310		N	
ML064S	N		N		.71	N	N		.042		N		20.0		6.00		3.4		N		.190		N	
ML065S	N		N		1.90	N	N		.150		N		32.0		8.30		7.9		N		1.800		N	
ML066S	N		N		.68	N	N		.099		N		12.0		3.00		2.5		N		.100		N	
ML067S	N		N		.86	N	N		.140		N		31.0		8.30		5.3		N		.220		N	
ML068S	N		N		2.50	N	N		.120		N		45.0		12.00		12.0		.077		.710		N	
ML069S	N		N		9.30	N	N		.320		N		69.0		17.00		21.0		.071		1.500		N	
ML070S	N		N		3.30	N	N		.390		N		55.0		12.00		20.0		.068		1.400		N	
ML071S	N		N		N	N	N		.033		N		13.0		2.30		3.0		N		N		N	
ML072S	N		N		1.20	N	N		.047		N		25.0		4.80		5.0		N		.300		N	
ML073S	N		N		.62	N	N		.044		N		9.6		2.80		2.1		N		.110		N	
ML074S	N		N		1.90	N	N		.260		N		38.0		9.70		10.0		.053		.650		N	
ML075S	N		N		1.00	N	N		.053		N		24.0		6.60		4.4		N		.200		N	
ML076S	N		N		.93	N	N		.038		N		32.0		11.00		3.9		N		.110		N	
ML077S	N		N		2.00	N	N		.047		N		18.0		6.60		2.5		N		.170		N	
ML078S	N		N		3.60	N	N		.090		N		38.0		9.60		5.9		N		.120		N	
ML079S	N		N		N	N	N		.038		N		5.9		1.90		1.8		N		N		N	
ML080S	N		N		N	N	N		N		N		9.5		1.10		1.9		N		N		N	
ML081S	N		N		N	N	N		.043		N		5.2		.92		1.6		N		N		N	
ML082S	N		N		1.20	N	N		.067		N		8.1		4.20		2.7		N		.210		N	
ML083S	N		N		2.90	N	N		.082		N		21.0		11.00		5.0		.053		.770		N	
ML084S	N		N		N	N	N		N		N		16.0		4.90		2.5		N		.220		N	
ML085S	N		N		2.10	N	N		N		N		18.0		10.00		3.3		N		.190		N	
ML086S	N		N		3.40	N	N		.050		N		12.0		7.40		2.8		N		.310		N	
ML087S	N		N		5.20	N	N		N		N		23.0		13.00		2.3		N		.520		N	
ML088S	N		N		1.90	N	N		.035		N		18.0		5.70		2.9		N		.097		N	
ML089S	N		N		1.10	N	N		.048		N		24.0		6.70		3.7		N		.140		N	
ML090S	N		N		2.10	N	N		.059		N		18.0		10.00		3.5		N		.200		N	

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	LATITUDE	LONGITUD	FE	%-S	MG	%-S	CA	%-S	TI	%-S	MN	PPM-S	AG	PPM-S	AS	PPM-S	AU	PPM-S	B	PPM-S	BA	PPM-S
ML091S	46 58 2	115 20 17	3.0	3.0	2.00	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML092S	46 58 38	115 18 13	3.0	1.0	.50	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML093S	46 58 15	115 18 57	3.0	1.0	.30	.30	1,000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML094S	46 58 46	115 22 20	2.0	.7	.50	.50	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML095S	46 58 43	115 22 15	3.0	.7	.30	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML096S	46 57 26	115 22 33	2.0	1.5	1.50	.30	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML097S	46 57 51	115 23 2	3.0	1.0	.30	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML098S	47 1 2	115 22 7	3.0	.7	.30	.70	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML099S	47 1 37	115 22 21	3.0	.7	.50	1.00	1,500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML100S	46 59 49	115 19 1	5.0	1.5	1.50	1.00	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML101S	47 0 18	115 17 12	5.0	1.0	.30	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML102S	47 0 7	115 16 42	3.0	1.5	.70	.30	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML103S	46 53 56	115 3 2	1.0	.7	.20	.20	300	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML104S	46 54 35	115 2 27	2.0	1.0	.30	.20	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML105S	46 55 7	115 1 56	2.0	1.0	.30	.30	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML106S	47 3 44	115 26 15	3.0	.7	.30	.50	1,500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML107S	46 56 24	115 1 21	3.0	1.5	.30	.30	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML108S	46 56 23	115 1 29	3.0	1.0	.30	.30	300	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML109S	47 4 9	115 23 13	3.0	.5	.30	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML110S	47 3 35	115 19 47	3.0	.7	.20	.30	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML111S	47 3 53	115 18 55	5.0	1.5	.50	.30	1,000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML112S	47 4 1	115 17 56	3.0	1.0	.50	.30	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML113S	47 0 27	115 21 16	3.0	.7	.15	.30	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML114S	47 0 40	115 21 21	3.0	.7	.30	.30	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML115S	47 1 46	115 21 15	3.0	.7	.20	.30	1,000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML116S	47 2 5	115 20 47	3.0	.7	.30	.30	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML117S	47 2 31	115 20 27	3.0	.5	.30	.30	1,000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML118S	47 0 39	115 8 3	3.0	1.5	.50	.30	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML119S	47 1 42	115 8 51	3.0	.7	.20	.30	5,000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML120S	47 2 10	115 9 40	3.0	1.0	1.00	.30	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML121S	47 2 54	115 11 28	3.0	.7	.30	.50	1,000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML122S	47 3 0	115 11 40	5.0	1.0	.70	1.00	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML123S	47 3 19	115 12 42	5.0	1.5	1.50	1.00	1,000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML124S	47 3 59	115 13 0	3.0	.7	.50	.70	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML125S	47 2 5	115 15 32	3.0	1.0	.70	.70	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML126S	47 0 8	115 18 42	3.0	.7	.70	1.00	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML127S	47 0 12	115 14 48	3.0	1.5	1.00	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML128S	47 0 20	115 13 57	3.0	1.0	.70	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML129S	46 59 45	115 13 37	3.0	.7	.20	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML130S	46 59 45	115 13 31	3.0	1.0	.70	.50	700	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML131S	47 0 11	115 13 42	3.0	.7	.30	.30	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML132S	46 58 3	115 8 18	5.0	1.5	1.50	.70	1,000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ML133S	46 58 7	115 8 12	5.0	1.0	.30	.50	500	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	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	SB PPM-S
ML091S	1.5	N	N	15	70	7	100	N	<20	10	15	N
ML092S	1.5	N	N	20	70	20	100	N	20	30	15	N
ML093S	1.5	N	N	20	70	15	50	N	20	20	15	N
ML094S	1.5	N	N	10	20	10	70	N	<20	10	15	N
ML095S	1.5	N	N	15	30	10	70	N	<20	15	10	N
ML096S	1.5	N	N	<10	20	7	200	N	<20	7	10	N
ML097S	1.5	N	N	15	70	20	50	N	<20	20	15	N
ML098S	1.5	N	N	10	15	10	70	N	20	7	<10	N
ML099S	1.5	N	N	10	30	20	70	N	20	10	15	N
ML100S	1.0	N	N	20	100	10	100	N	20	20	15	N
ML101S	1.5	N	N	20	70	30	50	N	<20	30	15	N
ML102S	1.5	<10	N	15	70	20	70	N	<20	20	15	N
ML103S	1.5	N	N	<10	<10	15	50	N	<20	7	20	N
ML104S	1.5	N	N	15	10	15	150	N	<20	15	20	N
ML105S	1.5	N	N	20	15	20	200	N	<20	20	30	N
ML106S	1.5	N	N	15	100	20	70	N	<20	30	30	N
ML107S	1.5	N	N	20	50	20	150	N	<20	20	30	N
ML108S	2.0	N	N	20	30	20	50	N	<20	20	20	N
ML109S	1.5	N	N	10	15	15	N	N	<20	15	30	N
ML110S	1.5	N	N	20	30	20	70	N	<20	30	20	N
ML111S	2.0	N	N	20	50	50	100	N	20	30	20	N
ML112S	2.0	N	N	30	70	15	70	N	<20	20	20	N
ML113S	1.5	N	N	15	50	20	50	N	<20	30	15	N
ML114S	1.5	N	N	15	30	20	<50	N	<20	20	10	N
ML115S	1.5	N	N	10	20	10	<50	N	<20	15	<10	N
ML116S	1.5	N	N	15	30	20	50	N	<20	20	10	N
ML117S	1.5	N	N	10	15	15	<50	N	<20	20	<10	N
ML118S	1.5	N	N	20	30	20	100	N	20	20	30	N
ML119S	1.5	N	N	20	20	20	70	N	<20	20	20	N
ML120S	1.5	N	N	15	70	20	50	N	20	20	30	N
ML121S	1.0	N	N	15	15	20	<50	N	<20	15	15	N
ML122S	<1.0	N	N	20	70	20	70	N	20	20	15	N
ML123S	1.0	N	N	20	50	30	100	N	20	30	15	N
ML124S	1.5	N	N	20	50	15	150	N	<20	20	15	N
ML125S	1.5	N	N	20	70	20	70	N	<20	30	15	N
ML126S	<1.0	N	N	<10	50	7	150	N	20	7	10	N
ML127S	1.5	N	N	15	70	20	<50	N	<20	20	20	N
ML128S	1.5	N	N	15	30	20	50	N	20	20	15	N
ML129S	1.5	N	N	15	50	20	<50	N	<20	30	20	N
ML130S	1.5	N	N	15	30	20	50	N	<20	20	20	N
ML131S	1.5	N	N	15	30	20	<50	N	N	20	15	N
ML132S	1.0	N	N	20	70	300	50	N	20	30	30	N
ML133S	1.5	N	N	20	50	20	150	N	20	20	20	N

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	SC	PPM-S	SN	PPM-S	SR	PPM-S	V	PPM-S	W	PPM-S	Y	PPM-S	ZN	PPM-S	ZR	PPM-S	NA	%-S	P	%-S	GA	PPM-S	GE	PPM-S
ML091S	15	N	N	N	N	70	70	N	N	50	N	300	3.0	N	30	N	N	N	N	30	N	N		
ML092S	15	N	N	<100	<100	100	100	N	N	70	N	300	2.0	N	30	N	N	N	N	30	N	N		
ML093S	10	N	N	<100	<100	3,000	3,000	N	N	30	N	300	1.5	N	20	N	N	N	N	20	N	N		
ML094S	7	N	N	N	N	70	70	N	N	30	N	300	1.0	N	15	N	N	N	N	15	N	N		
ML095S	10	N	N	N	N	70	70	N	N	30	N	200	1.0	N	15	N	N	N	N	15	N	N		
ML096S	7	N	N	N	N	70	70	N	N	30	N	300	2.0	N	20	N	N	N	N	20	N	N		
ML097S	10	N	N	N	N	70	70	N	N	30	N	300	1.5	N	20	N	N	N	N	20	N	N		
ML098S	7	N	N	N	N	70	70	N	N	70	N	200	1.0	N	10	N	N	N	N	10	N	N		
ML099S	7	N	N	150	150	70	70	N	N	50	N	300	1.0	N	15	N	N	N	N	15	N	N		
ML100S	15	N	N	200	200	100	100	N	N	100	N	500	1.5	<.2	20	N	N	<.2	<.2	20	N	N		
ML101S	15	N	N	N	N	70	70	N	N	100	N	200	1.5	N	30	N	N	N	N	30	N	N		
ML102S	15	N	N	N	N	100	100	N	N	50	N	200	1.5	N	20	N	N	N	N	20	N	N		
ML103S	7	N	N	N	N	50	50	N	N	30	N	200	1.0	N	7	N	N	N	N	7	N	N		
ML104S	7	N	N	N	N	70	70	N	N	100	N	150	1.5	N	10	N	N	N	N	10	N	N		
ML105S	7	N	N	N	N	70	70	N	N	200	N	200	1.5	N	15	N	N	N	N	15	N	N		
ML106S	15	N	N	<100	<100	70	70	N	N	70	N	200	1.0	N	15	N	N	N	N	15	N	N		
ML107S	15	N	N	N	N	70	70	N	N	100	N	200	2.0	N	30	N	N	N	N	30	N	N		
ML108S	10	N	N	N	N	70	70	N	N	50	N	200	1.5	N	20	N	N	N	N	20	N	N		
ML109S	10	N	N	<100	<100	70	70	N	N	50	N	200	1.0	N	15	N	N	N	N	15	N	N		
ML110S	10	N	N	N	N	70	70	N	N	50	N	200	1.5	N	20	N	N	N	N	20	N	N		
ML111S	15	N	N	N	N	70	70	N	N	70	N	200	2.0	N	30	N	N	N	N	30	N	N		
ML112S	10	N	N	N	N	100	100	N	N	100	N	300	3.0	N	30	N	N	N	N	30	N	N		
ML113S	10	N	N	N	N	100	100	N	N	30	N	200	.7	N	20	N	N	N	N	20	N	N		
ML114S	10	N	N	N	N	70	70	N	N	30	N	200	1.0	N	20	N	N	N	N	20	N	N		
ML115S	7	N	N	N	N	70	70	N	N	30	N	200	.7	N	15	N	N	N	N	15	N	N		
ML116S	10	N	N	N	N	70	70	N	N	30	N	200	1.0	N	20	N	N	N	N	20	N	N		
ML117S	7	N	N	N	N	70	70	N	N	30	N	200	.7	N	7	N	N	N	N	7	N	N		
ML118S	10	N	N	N	N	100	100	N	N	50	N	300	2.0	N	20	N	N	N	N	20	N	N		
ML119S	7	N	N	N	N	70	70	N	N	50	N	150	1.5	N	15	N	N	N	N	15	N	N		
ML120S	15	N	N	200	200	70	70	N	N	30	N	200	2.0	N	20	N	N	N	N	20	N	N		
ML121S	7	N	N	N	N	70	70	N	N	30	N	300	1.0	N	20	N	N	N	N	20	N	N		
ML122S	15	N	N	<100	<100	100	100	N	N	50	N	300	1.5	N	30	N	N	N	N	30	N	N		
ML123S	15	N	N	150	150	150	150	N	N	50	N	200	2.0	N	30	N	N	N	N	30	N	N		
ML124S	10	N	N	<100	<100	100	100	N	N	50	N	300	2.0	N	30	N	N	N	N	30	N	N		
ML125S	15	N	N	N	N	100	100	N	N	50	N	200	2.0	<.2	30	N	N	<.2	<.2	30	N	N		
ML126S	15	N	N	100	100	100	100	N	N	100	N	300	2.0	N	20	N	N	N	N	20	N	N		
ML127S	15	N	N	150	150	100	100	N	N	50	N	200	2.0	N	30	N	N	N	N	30	N	N		
ML128S	10	N	N	<100	<100	100	100	N	N	50	N	300	1.5	N	20	N	N	N	N	20	N	N		
ML129S	10	N	N	100	100	100	100	N	N	30	N	200	1.0	N	30	N	N	N	N	30	N	N		
ML130S	15	N	N	150	150	100	100	N	N	50	N	300	1.0	N	20	N	N	N	N	20	N	N		
ML131S	15	N	N	N	N	150	150	N	N	30	N	150	1.0	N	15	N	N	N	N	15	N	N		
ML132S	15	N	N	150	150	100	100	N	N	50	N	300	1.5	N	30	N	N	N	N	30	N	N		
ML133S	10	N	N	N	N	100	100	N	N	50	N	300	1.5	N	20	N	N	N	N	20	N	N		

Table 2--Analytical results of stream-sediment samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	TH	PPM-S	AU	PPM	As/P PPM	Bi/P PPM	Cd/P PPM	Sb/P PPM	Zn/P PPM	Cu/P PPM	Pb/P PPM	Ag/P PPM	Mo/P PPM	Au/P PPM
ML091S	N	N	.75	.63	.037	N	N	N	7.7	4.90	2.0	N	.190	N
ML092S	N	N	1.80	.68	.099	N	N	N	15.0	10.00	3.5	N	.590	N
ML093S	N	N	2.50	.74	.110	N	N	N	22.0	10.00	4.0	N	.730	N
ML094S	N	N	1.30	.69	N	N	N	N	14.0	7.60	2.0	N	.180	N
ML095S	N	N	2.70	N	.033	N	N	N	14.0	7.20	2.0	N	.460	N
ML096S	N	N	1.40	N	N	N	N	N	7.3	2.80	1.8	N	N	N
ML097S	N	<.002	1.40	N	.040	N	N	N	21.0	10.00	2.1	N	.450	N
ML098S	N	N	N	.73	N	N	N	N	11.0	5.70	1.7	N	.220	N
ML099S	N	N	N	N	N	N	N	N	15.0	7.30	2.3	N	.170	N
ML100S	N	N	2.30	N	.035	N	N	N	14.0	8.50	3.2	N	.320	N
ML101S	N	N	6.50	N	.038	.62	N	N	12.0	23.00	3.0	N	.390	N
ML102S	N	N	2.70	N	N	N	N	N	13.0	14.00	3.3	N	.290	N
ML103S	N	N	1.70	N	N	N	N	N	20.0	10.00	3.1	N	.140	N
ML104S	N	N	5.10	N	N	.78	N	N	20.0	10.00	5.1	N	.260	N
ML105S	N	N	9.30	N	N	.80	N	N	19.0	12.00	4.8	N	.410	N
ML106S	N	N	2.00	N	N	N	N	N	32.0	12.00	5.0	N	.300	N
ML107S	N	N	5.60	.79	.054	N	N	N	32.0	13.00	11.0	.053	.300	N
ML108S	N	N	6.90	1.40	.045	N	N	N	24.0	9.80	6.5	.082	.310	.99
ML109S	N	N	4.00	N	.078	N	N	N	38.0	8.90	4.1	N	.320	N
ML110S	N	N	5.90	.72	.050	.68	N	N	15.0	16.00	3.8	N	.470	N
ML111S	N	.002	15.00	.84	.038	.77	N	N	9.6	59.00	3.3	N	.430	N
ML112S	N	N	13.00	.60	.051	N	N	N	8.0	8.10	3.9	N	.270	N
ML113S	N	N	5.70	.74	.031	N	N	N	22.0	18.00	2.2	N	.360	N
ML114S	N	N	1.90	N	N	.61	N	N	18.0	11.00	2.8	N	N	N
ML115S	N	N	2.30	N	N	N	N	N	11.0	6.30	2.0	N	.230	N
ML116S	N	N	3.60	.65	.033	N	N	N	12.0	12.00	2.7	N	.310	N
ML117S	N	N	2.60	N	.041	N	N	N	11.0	8.30	2.2	N	.120	N
ML118S	N	.006	2.70	N	.062	N	N	N	18.0	9.30	9.9	.065	.720	N
ML119S	N	.900	9.30	.94	.050	N	N	N	16.0	10.00	7.0	.055	.540	.28
ML120S	N	.004	3.20	N	.120	.67	N	N	40.0	13.00	12.0	.054	.400	N
ML121S	N	<.002	5.70	.76	.081	N	N	N	22.0	12.00	5.4	.052	.570	N
ML122S	N	.002	4.10	N	.037	N	N	N	12.0	22.00	3.5	N	.370	N
ML123S	N	.004	8.80	N	.059	N	N	N	16.0	18.00	5.9	.072	.730	N
ML124S	N	.016	9.70	.61	.120	N	N	N	21.0	7.10	7.6	.063	.310	N
ML125S	N	N	6.60	N	.110	N	N	N	14.0	14.00	4.7	N	.510	N
ML126S	N	N	2.40	N	N	N	N	N	3.9	4.00	2.6	N	N	N
ML127S	N	N	3.30	N	.110	N	N	N	14.0	11.00	3.7	.045	.230	N
ML128S	N	N	3.90	N	.057	N	N	N	17.0	12.00	4.5	N	.250	N
ML129S	N	N	5.40	N	.140	N	N	N	25.0	11.00	5.2	.047	.700	N
ML130S	N	<.002	4.50	.74	.090	N	N	N	33.0	9.00	6.7	.052	.310	N
ML131S	N	<.002	5.90	N	.079	N	N	N	36.0	13.00	7.1	.060	.290	N
ML132S	N	.012	8.30	1.10	.064	.79	N	N	27.0	370.00	7.9	.260	.390	N
ML133S	N	.012	5.60	.81	.050	N	N	N	14.0	12.00	6.7	.160	.420	1.30

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho

Sample	LATITUDE	LONGITUD	FE	%-S MG	%-S CA	%-S TI	%-S MN	PPM-S AG	PPM-S AS	PPM-S AU	PPM-S B	PPM-S BA	PPM-S BE	PPM-S
ML001C3	46 54 48	115 32 13	.50	1.50	7.00	>2.0	500	N	N	N	N	20	70	N
ML002C3	46 54 52	115 32 14	.50	1.50	15.00	>2.0	700	N	N	N	N	<20	N	N
ML003C3	46 54 33	115 32 46	.30	1.00	15.00	>2.0	500	N	N	N	N	N	N	N
ML004C3	46 54 31	115 34 28	.70	2.00	10.00	>2.0	500	N	N	N	N	30	N	N
ML005C3	46 54 31	115 34 22	.50	.70	15.00	>2.0	300	N	N	N	N	<20	N	N
ML006C3	46 53 39	115 35 33	.50	1.00	15.00	>2.0	300	N	N	N	N	50	70	N
ML007C3	46 55 11	115 14 49	.20	.30	.70	>2.0	200	N	N	N	N	700	70	N
ML008C3	46 55 19	115 14 44	.15	.70	.70	>2.0	300	N	N	N	1,500	70	N	N
ML009C3	46 55 35	115 14 52	.15	.15	.50	>2.0	200	N	N	N	N	50	N	N
ML010C3	46 56 10	115 14 38	.50	.30	.70	2.0	300	N	N	N	N	70	150	<2
ML011C3	46 56 14	115 14 33	.70	.20	2.00	>2.0	300	N	N	N	N	70	150	<2
ML012C3	46 53 16	115 11 45	.50	.30	5.00	>2.0	300	N	N	N	N	30	150	3
ML013C3	46 54 7	115 9 7	.50	.30	5.00	>2.0	100	N	N	N	N	<20	200	N
ML014C3	46 53 42	115 6 29	.30	.20	5.00	>2.0	200	N	N	N	N	<20	100	N
ML015C3	46 54 20	115 7 1	.50	.50	10.00	>2.0	300	N	N	N	N	<20	200	N
ML016C3	46 54 59	115 7 11	.50	.30	3.00	>2.0	200	N	N	N	N	20	300	N
ML017C3	46 56 3	115 6 34	.30	.30	5.00	>2.0	200	N	N	N	N	50	200	N
ML018C3	46 58 43	115 4 56	.15	.15	.70	>2.0	50	N	N	N	N	<20	50	5
ML019C3	46 58 8	115 4 13	.30	.30	1.00	>2.0	200	N	N	N	N	70	200	N
ML020C3	46 59 53	115 4 55	1.00	.50	1.00	>2.0	50	N	N	N	N	N	1,000	N
ML021C3	47 0 32	115 7 52	.30	.30	3.00	>2.0	50	15.0	N	300	N	<20	100	N
ML022C3	47 0 30	115 7 58	1.50	.50	10.00	>2.0	100	N	N	N	N	<20	300	15
ML023C3	46 56 31	115 12 30	.20	.30	3.00	>2.0	200	30.0	N	N	N	20	100	N
ML024C3	46 56 27	115 12 30	.50	.30	5.00	>2.0	300	10.0	N	N	N	30	70	N
ML025C3	46 56 22	115 10 0	.30	.20	1.50	>2.0	100	N	N	N	N	30	70	N
ML026C3	46 55 58	115 8 53	.20	.15	.70	>2.0	30	N	N	N	N	30	70	N
ML027C3	46 55 43	115 8 31	.70	.50	3.00	>2.0	200	N	N	N	N	100	100	N
ML028C3	46 55 6	115 39 39	.20	.10	7.00	>2.0	300	N	N	N	N	N	<50	N
ML029C3	46 54 45	115 40 41	.15	.15	15.00	>2.0	500	N	N	N	N	N	50	N
ML030C3	46 54 18	115 41 52	.20	.15	7.00	>2.0	500	N	N	N	N	N	N	N
ML031C3	46 56 3	115 42 36	.50	.15	7.00	>2.0	300	N	N	N	N	20	50	N
ML032C3	46 56 46	115 42 8	.20	.50	10.00	>2.0	300	N	N	N	N	30	<50	N
ML033C3	46 57 2	115 41 45	.30	.30	10.00	>2.0	300	N	N	N	N	N	N	N
ML034C3	46 58 7	115 40 27	.50	1.50	10.00	>2.0	500	N	N	N	N	50	N	N
ML035C3	46 58 13	115 40 32	.50	.15	5.00	>2.0	300	N	N	N	N	50	N	N
ML036C3	47 3 7	115 22 54	.70	.20	.70	1.5	500	N	N	N	N	30	70	<2
ML037C3	47 3 3	115 24 17	.70	.15	.70	2.0	500	N	N	N	N	50	<50	<2
ML038C3	47 2 38	115 25 34	1.50	.50	1.00	>2.0	1,500	N	N	N	N	50	70	<2
ML039C3	47 2 28	115 25 43	.50	.20	3.00	1.5	300	N	N	N	N	50	100	2
ML040C3	47 2 37	115 25 23	.20	.07	.30	.5	70	N	N	N	N	30	50	<2
ML041C3	47 2 57	115 27 3	1.00	.20	1.50	.5	300	N	N	N	N	50	70	2
ML042C3	47 3 0	115 32 37	1.50	.30	.15	.5	150	N	N	N	N	20	70	2
ML043C3	47 3 0	115 32 26	1.50	.30	.30	.7	200	N	N	N	N	30	100	2
ML044C3	47 1 11	115 32 54	.20	.10	.70	>2.0	50	N	N	N	N	70	<50	N
ML045C3	47 1 12	115 32 50	.30	.30	5.00	>2.0	100	N	N	N	N	100	50	N

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--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	PD	PPM-S	PT	PPM-S	SB	PPM-S
ML001C3		N	N	<20	50	<10	300	N	100	N	300	N	300	N	100	N	<10	70	70	N	N	N	N	N	N	
ML002C3		N	N	N	70	N	150	N	150	N	150	N	150	N	150	N	<10	70	70	N	N	N	N	N	N	
ML003C3		N	N	N	<20	N	300	300	300	300	300	300	300	300	100	100	N	150	150	N	N	N	N	N	N	
ML004C3		N	N	N	20	N	300	N	20	N	300	N	300	N	100	N	N	30	30	N	N	N	N	N	N	
ML005C3		N	N	<20	20	N	500	N	20	N	500	N	500	N	70	N	<10	50	50	N	N	N	N	N	N	
ML006C3		N	N	N	50	N	300	N	N	N	300	N	300	N	150	N	N	30	30	N	N	N	N	N	N	
ML007C3	150	N	N	N	300	N	150	N	N	N	150	N	150	N	500	N	N	N	N	N	N	N	N	N	N	
ML008C3		N	N	N	300	<10	100	N	300	N	100	N	300	N	300	N	N	N	N	N	N	N	N	N	N	
ML009C3		N	N	N	300	N	N	300	N	20	N	20	300	N	300	N	N	50	50	N	N	N	N	N	N	
ML010C3		N	N	N	<20	N	200	N	N	N	200	N	200	N	150	N	<10	N	N	N	N	N	N	N	N	
ML011C3	1,000	N	N	N	150	N	150	N	N	N	150	N	150	N	150	N	N	20	20	N	N	N	N	N	N	
ML012C3		N	N	N	200	N	<100	N	300	N	<100	N	300	N	300	N	N	30	30	N	N	N	N	N	N	
ML013C3	100	N	N	N	150	N	<100	N	N	N	<100	N	1,000	N	200	N	N	30	30	N	N	N	N	N	N	
ML014C3	70	N	N	N	70	N	<100	N	N	N	<100	N	100	100	100	N	N	5,000	5,000	N	N	N	N	N	N	
ML015C3	300	N	N	N	70	N	N	N	N	N	N	N	30	100	100	N	N	150	150	N	N	N	N	N	N	
ML016C3	500	N	N	N	300	N	<10	N	<10	N	<10	N	<10	300	300	<10	100	100	N	N	N	N	N	N	N	
ML017C3	700	N	N	N	150	N	N	N	N	N	N	N	<10	300	300	N	70	70	N	N	N	N	N	N	N	
ML018C3	700	N	N	N	300	N	<100	N	N	N	<100	N	300	300	300	N	50	50	N	N	N	N	N	N	N	
ML019C3	50	N	N	N	300	N	100	N	N	N	100	N	300	300	300	20	30	30	N	N	N	N	N	N	N	
ML020C3	N	N	N	N	200	N	<100	N	N	N	<100	N	N	300	300	30	N	N	N	N	N	N	N	N	N	
ML021C3		N	N	N	300	N	<100	N	<10	N	<100	N	N	300	300	<10	20	20	N	N	N	N	N	N	N	
ML022C3	200	N	N	N	300	<10	<100	N	300	N	<100	N	300	300	200	N	30	700	700	N	N	N	N	N	N	
ML023C3	150	N	N	N	300	N	<100	N	N	N	<100	N	N	200	200	N	1,000	1,000	N	N	N	N	N	N	N	
ML024C3	300	N	N	N	300	N	N	N	N	N	N	N	300	300	300	N	70	70	N	N	N	N	N	N	N	
ML025C3	500	N	N	N	500	N	N	N	N	N	N	N	N	300	300	N	50	50	N	N	N	N	N	N	N	
ML026C3	500	N	N	N	700	N	<100	N	N	N	<100	N	N	300	300	N	500	500	N	N	N	N	N	N	N	
ML027C3	200	N	N	N	150	N	100	N	N	N	100	N	N	200	200	N	20	20	N	N	N	N	N	N	N	
ML028C3	70	N	N	N	30	N	200	N	N	N	200	<10	<10	70	70	N	70	70	N	N	N	N	N	N	N	
ML029C3	N	N	N	N	70	N	<100	N	N	N	<100	N	N	100	100	N	70	70	N	N	N	N	N	N	N	
ML030C3	N	N	N	N	70	N	<100	N	N	N	<100	N	<10	100	100	N	30	30	N	N	N	N	N	N	N	
ML031C3		N	N	N	70	N	<100	N	N	N	<100	N	N	100	100	N	70	70	N	N	N	N	N	N	N	
ML032C3	N	N	N	N	50	N	<100	N	N	N	<100	N	N	100	100	N	50	50	N	N	N	N	N	N	N	
ML033C3	N	N	N	N	70	N	<100	N	N	N	<100	N	N	70	70	N	50	50	N	N	N	N	N	N	N	
ML034C3	N	N	N	N	30	N	<100	N	N	N	<100	N	N	100	100	N	50	50	N	N	N	N	N	N	N	
ML035C3	N	N	N	N	30	N	<100	N	N	N	<100	N	N	150	150	N	30	30	N	N	N	N	N	N	N	
ML036C3		N	N	N	<20	N	<100	N	N	N	<100	N	N	<50	<50	N	N	N	N	N	N	N	N	N	N	
ML037C3	N	N	N	N	<20	N	<100	N	N	N	<100	N	N	70	70	N	N	N	N	N	N	N	N	N	N	
ML038C3		N	N	N	<20	N	<100	N	N	N	<100	N	N	150	150	<10	N	N	N	N	N	N	N	N	N	
ML039C3	<20	N	N	N	N	<10	<100	N	N	N	<100	N	N	70	70	<10	N	N	N	N	N	N	N	N	N	
ML040C3		N	N	N	<20	N	<100	N	N	N	<100	N	N	N	N	<10	N	N	N	N	N	N	N	N	N	
ML041C3		N	N	N	<20	N	<100	N	N	N	<100	N	N	<50	<50	<10	<10	<20	<20	N	N	N	N	N	N	
ML042C3		N	N	N	70	<10	<100	N	N	N	<100	N	N	<50	<50	<10	<10	N	N	N	N	N	N	N	N	
ML043C3		N	N	N	700	N	<100	N	N	N	<100	N	N	<50	<50	<10	<10	N	N	N	N	N	N	N	N	
ML044C3		N	N	N	700	N	<100	N	N	N	<100	N	N	300	300	N	N	N	N	N	N	N	N	N	N	
ML045C3	30	N	N	<20	300	N	<100	N	N	N	<100	N	N	300	300	N	N	100	100	N	N	N	N	N	N	

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	SC PPM-S	SN PPM-S	SR PPM-S	V PPM-S	W PPM-S	Y PPM-S	ZN PPM-S	ZR PPM-S	NA	%-S P	%-S GA	PPM-S GE	PPM-S TH
ML001C3	15	30	N	200	200	N	500	N	>2,000	N	2.0	<10	N
ML002C3	15	70	<200	200	200	N	700	N	>2,000	N	5.0	N	N
ML003C3	<10	50	N	150	150	N	700	N	>2,000	N	10.0	N	N
ML004C3	10	20	N	200	200	N	500	N	>2,000	N	3.0	<10	N
ML005C3	20	30	N	150	150	N	700	N	>2,000	N	5.0	<10	N
ML006C3	20	<20	N	200	200	N	500	N	>2,000	N	7.0	<10	N
ML007C3	70	200	N	300	300	500	150	N	700	N	1.5	N	N
ML008C3	70	150	N	300	300	500	200	N	<.5	N	1.5	N	N
ML009C3	50	150	N	300	300	300	100	N	700	N	1.0	N	N
ML010C3	15	N	N	150	150	N	50	N	500	N	<.5	N	N
ML011C3	15	30	N	150	150	1,500	150	N	2,000	N	2.0	N	N
ML012C3	<10	100	N	300	300	50	500	N	2,000	.5	3.0	N	N
ML013C3	<10	70	N	200	200	300	500	N	>2,000	.7	2.0	<10	N
ML014C3	15	200	<200	150	150	N	500	N	>2,000	.5	5.0	<10	N
ML015C3	15	70	<200	150	150	N	500	N	>2,000	.7	7.0	<10	N
ML016C3	30	150	N	500	500	300	500	N	1,500	.5	2.0	<10	N
ML017C3	10	70	N	150	150	N	700	N	1,500	<.5	1.5	N	N
ML018C3	15	50	N	200	200	300	300	N	1,000	N	.7	N	N
ML019C3	15	70	N	200	200	N	500	N	1,500	.2	.7	<10	N
ML020C3	20	70	N	200	200	150	200	N	>2,000	N	2.0	N	N
ML021C3	15	150	N	300	300	200	700	N	2,000	<.5	2.0	N	N
ML022C3	30	200	N	300	300	50	500	N	>2,000	1.0	5.0	<10	N
ML023C3	30	200	N	300	300	300	700	N	>2,000	<.5	.5	N	N
ML024C3	20	200	N	200	200	300	1,000	N	2,000	<.5	.7	<10	N
ML025C3	30	150	N	300	300	300	300	N	>2,000	<.5	2.0	N	N
ML026C3	30	200	N	500	500	70	150	N	>2,000	<.5	1.5	N	N
ML027C3	15	20	N	200	200	70	300	N	>2,000	<.5	3.0	N	N
ML028C3	15	30	N	300	300	N	700	N	>2,000	N	2.0	N	N
ML029C3	15	50	N	200	200	N	700	N	>2,000	N	1.5	N	N
ML030C3	10	50	N	300	300	N	700	N	>2,000	N	1.0	N	N
ML031C3	10	20	500	200	200	N	300	N	>2,000	N	2.0	10	N
ML032C3	<10	20	200	200	200	N	500	N	>2,000	N	7.0	<10	N
ML033C3	10	<20	300	200	200	N	300	N	>2,000	N	5.0	10	N
ML034C3	10	30	N	200	200	N	500	N	>2,000	N	5.0	<10	N
ML035C3	<10	N	N	300	300	N	300	N	>2,000	N	3.0	<10	N
ML036C3	<10	N	N	50	50	N	30	N	500	N	<.5	N	N
ML037C3	<10	N	N	50	50	N	50	N	700	<.5	.7	N	N
ML038C3	10	N	N	100	100	N	50	N	700	1.0	<.5	N	N
ML039C3	<10	N	N	150	150	N	150	N	500	.5	.5	<10	N
ML040C3	<10	N	N	<20	<20	N	20	N	300	<.5	<.5	N	N
ML041C3	<10	N	<200	70	70	50	30	N	300	<.5	<.5	N	N
ML042C3	<10	N	N	70	70	300	50	N	500	N	15	15	N
ML043C3	<10	N	N	100	100	150	50	N	500	N	15	15	N
ML044C3	<10	100	N	200	200	100	200	N	>2,000	N	3.0	N	N
ML045C3	<10	100	N	300	300	150	200	N	2,000	<.5	3.0	10	N

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	LATITUDE	LONGITUD	FE	%-S MG	%-S CA	%-S TI	%-S MN	PPM-S AG	PPM-S AS	AU	PPM-S B	PPM-S BA	PPM-S BE
ML046C3	47 1 34	115 31 27	.70	.30	3.00	>2.0	200	N	N	N	30	70	N
ML047C3	46 58 47	115 41 31	.70	.70	7.00	>2.0	300	N	N	N	100	N	N
ML048C3	46 58 45	115 41 40	.70	.70	10.00	>2.0	300	N	N	N	70	N	N
ML049C3	46 58 23	115 46 34	.30	.30	2.00	>2.0	300	N	N	N	100	50	N
ML050C3	47 0 44	115 48 24	.70	.50	.50	2.0	70	N	N	N	70	N	N
ML051C3	46 59 57	115 48 22	.50	.70	.20	1.5	50	N	N	N	70	N	N
ML052C3	47 0 54	115 44 0	.50	.20	7.00	>2.0	300	N	N	N	N	N	N
ML053C3	47 0 12	115 41 35	.30	.15	7.00	>2.0	300	N	N	N	30	50	N
ML054C3	46 59 8	115 39 20	.20	.15	10.00	>2.0	300	N	N	N	50	N	N
ML055C3	46 59 36	115 38 51	.30	.20	10.00	>2.0	300	N	N	N	N	50	N
ML056C3	47 1 33	115 34 50	.50	.30	.50	>2.0	70	N	N	N	20	50	<2
ML057C3	46 59 46	115 26 32	.15	.15	.70	>2.0	30	N	N	N	50	N	N
ML058C3	46 51 59	115 29 12	1.50	3.00	5.00	2.0	500	N	N	N	20	100	N
ML059C3	46 57 24	115 37 13	.30	.15	7.00	>2.0	200	N	N	N	N	<50	N
ML060C3	46 57 19	115 36 42	.15	.10	15.00	>2.0	300	N	N	N	N	N	N
ML061C3	46 59 36	115 37 55	.20	.10	15.00	>2.0	300	N	N	N	N	N	N
ML062C3	46 59 14	115 35 7	.30	.07	10.00	>2.0	300	N	N	N	N	N	N
ML063C3	46 57 15	115 35 27	.50	.30	5.00	>2.0	300	N	N	N	30	<50	N
ML064C3	46 57 20	115 33 33	.50	.50	.70	>2.0	50	N	N	N	N	N	N
ML065C3	46 56 55	115 32 8	.70	3.00	7.00	>2.0	1,000	N	N	N	N	N	N
ML066C3	46 55 47	115 27 0	<.10	.05	.50	>2.0	<20	N	N	N	50	N	N
ML067C3	46 55 44	115 27 3	.15	.10	.70	>2.0	200	N	N	N	20	N	N
ML068C3	46 53 41	115 30 11	.15	.15	5.00	>2.0	300	N	N	N	N	<50	N
ML069C3	46 55 29	115 30 34	.20	.70	5.00	>2.0	500	N	N	N	300	70	N
ML070C3	46 55 56	115 30 50	--	--	--	--	--	--	--	--	--	--	--
ML071C3	46 59 5	115 28 18	.15	<.05	.30	>2.0	<20	N	N	N	N	N	N
ML072C3	46 57 45	115 29 41	.10	.07	.30	>2.0	30	N	N	N	20	<50	N
ML073C3	46 55 9	115 26 29	.20	.15	2.00	>2.0	70	N	N	N	<20	50	N
ML074C3	46 53 4	115 28 56	.50	1.50	3.00	>2.0	300	N	N	N	20	<50	N
ML075C3	46 52 32	115 26 20	.70	.30	10.00	>2.0	500	N	N	N	<20	N	N
ML076C3	46 52 31	115 26 9	.20	.50	3.00	>2.0	300	N	N	N	100	50	N
ML077C3	46 53 39	115 21 5	.15	.50	3.00	>2.0	150	N	N	N	20	N	N
ML078C3	46 54 33	115 20 52	.20	.50	5.00	>2.0	200	N	N	N	70	100	N
ML079C3	46 52 43	115 22 7	.10	<.05	.20	>2.0	<20	N	N	N	N	N	N
ML080C3	46 54 20	115 22 38	<.10	<.05	.15	>2.0	<20	N	N	N	N	N	N
ML081C3	46 54 25	115 22 36	.10	.05	.20	>2.0	<20	<1.0	N	N	30	N	N
ML082C3	46 54 10	115 18 1	.30	1.50	3.00	>2.0	70	3.0	N	N	70	N	N
ML083C3	46 54 16	115 15 20	.70	.30	.30	>2.0	200	N	N	N	150	100	N
ML084C3	46 53 13	115 21 12	.50	1.50	5.00	>2.0	200	N	N	N	100	<50	N
ML085C3	46 54 46	115 20 30	.70	.70	1.50	>2.0	200	N	N	N	70	100	<2
ML086C3	46 55 5	115 20 16	1.50	3.00	3.00	>2.0	300	N	N	N	70	N	<2
ML087C3	46 56 21	115 19 7	2.00	.50	1.50	>2.0	500	N	N	N	70	150	N
ML088C3	46 55 22	115 20 49	.70	2.00	3.00	>2.0	300	N	N	N	500	100	N
ML089C3	46 56 16	115 22 25	1.00	1.50	7.00	>2.0	500	N	N	N	700	200	N
ML090C3	46 57 3	115 20 29	1.00	1.50	1.00	>2.0	500	N	N	N	700	150	N

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--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	PD	PPM-S	PT	PPM-S	SB	PPM-S
ML046C3		N	N	N	<20	200	200	N	N	<100	N	150	N	<10	N	<50	<10	N	N	N	N	N	N	N	N	
ML047C3		N	N	N	N	50	50	N	N	200	N	150	N	<10	N	100	N	N	70	N	N	N	N	N	N	
ML048C3		N	N	N	N	70	70	N	N	200	N	150	N	70	N	50	N	N	70	N	N	N	N	N	N	
ML049C3		N	N	N	N	200	200	N	N	100	N	700	N	10	N	<20	10	N	<20	N	N	N	N	N	N	
ML050C3		N	N	N	N	70	70	N	N	N	N	50	N	<10	N	50	N	N	N	N	N	N	N	N	N	
ML051C3		N	N	N	N	20	20	N	N	N	N	<50	N	<10	N	<50	<10	N	N	N	N	N	N	N	N	
ML052C3		N	N	N	N	150	150	N	N	200	N	200	15	200	N	200	N	N	100	N	N	N	N	N	N	
ML053C3		N	N	N	N	30	30	N	N	300	N	150	N	150	N	150	N	N	50	N	N	N	N	N	N	
ML054C3		N	N	N	N	30	30	N	N	<100	N	200	10	200	N	<20	N	N	<20	N	N	N	N	N	N	
ML055C3		N	N	N	N	150	150	N	N	<100	N	150	N	<100	N	150	N	N	50	N	N	N	N	N	N	
ML056C3		N	N	N	N	150	150	N	N	100	N	200	N	200	N	200	N	N	N	N	N	N	N	N	N	
ML057C3		N	N	N	N	700	700	N	N	N	N	500	N	500	N	500	N	N	N	N	N	N	N	N	N	
ML058C3		N	N	N	N	150	150	N	N	<100	N	100	N	100	N	100	N	N	<20	N	N	N	N	N	N	
ML059C3		N	N	N	N	100	100	N	N	N	N	100	N	100	N	100	N	N	20	N	N	N	N	N	N	
ML060C3		N	N	N	N	<20	<20	N	20	<100	N	150	N	<100	N	150	N	N	<20	N	N	N	N	N	N	
ML061C3	200	N	N	N	N	<20	<20	N	N	<100	N	100	N	<100	N	100	N	N	100	N	N	N	N	N	N	
ML062C3		N	N	N	N	N	N	N	N	<100	N	70	N	<100	N	70	N	N	20	N	N	N	N	N	N	
ML063C3		N	N	N	N	150	150	N	N	N	N	100	N	100	N	100	N	N	20	N	N	N	N	N	N	
ML064C3		N	N	N	N	70	70	N	N	<100	N	70	N	<100	N	70	N	N	<20	N	N	N	N	N	N	
ML065C3		N	N	N	N	100	100	N	N	<100	N	300	N	<100	N	300	N	N	30	N	N	N	N	N	N	
ML066C3		N	N	N	N	500	500	N	<10	N	N	500	N	500	N	500	N	N	<20	N	N	N	N	N	N	
ML067C3		N	N	N	N	150	150	N	N	N	N	200	N	200	N	200	N	N	<20	N	N	N	N	N	N	
ML068C3		N	N	N	N	100	100	N	N	<100	N	150	50	150	N	150	N	N	20	N	N	N	N	N	N	
ML069C3		N	N	N	N	100	100	N	N	<100	N	200	N	<100	N	200	N	<10	20	N	N	N	N	N	N	
ML070C3		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ML071C3		N	N	N	N	500	500	N	N	N	N	500	N	500	N	500	N	N	<20	N	N	N	N	N	N	
ML072C3		N	N	N	N	300	300	N	N	N	N	150	N	150	N	150	N	N	30	N	N	N	N	N	N	
ML073C3	100	N	N	N	N	500	500	N	N	N	N	150	N	150	N	150	N	N	<20	N	N	N	N	N	N	
ML074C3		N	N	N	N	150	150	N	N	<100	N	200	N	<100	N	200	N	<10	N	N	N	N	N	N	N	
ML075C3		N	N	N	N	100	100	N	N	150	N	500	N	500	N	500	N	N	50	N	N	N	N	N	N	
ML076C3		N	N	N	N	300	300	N	N	<100	N	500	<10	500	N	500	N	N	30	N	N	N	N	N	N	
ML077C3	500	N	N	N	N	300	300	N	N	100	N	300	N	300	N	300	N	N	30	N	N	N	N	N	N	
ML078C3		N	N	N	N	150	150	N	N	100	N	300	<10	300	N	300	N	N	20	N	N	N	N	N	N	
ML079C3		N	N	N	N	500	500	N	N	N	N	500	<10	500	N	500	N	N	20	N	N	N	N	N	N	
ML080C3		N	N	N	N	700	700	N	N	N	N	300	N	300	N	300	N	N	20	N	N	N	N	N	N	
ML081C3		N	N	N	N	700	700	N	N	100	N	300	15	300	N	300	N	N	<20	N	N	N	N	N	N	
ML082C3	>2,000	N	N	N	<20	300	300	N	N	500	N	500	<10	500	N	500	N	N	200	N	N	N	N	N	N	
ML083C3		N	N	N	N	70	70	N	N	<100	N	200	N	200	N	200	N	N	N	N	N	N	N	N	N	
ML084C3	1,000	N	N	N	<20	300	300	N	N	200	N	300	10	300	N	300	N	N	70	N	N	N	N	N	N	
ML085C3		N	N	N	N	150	150	N	N	200	N	200	N	200	N	200	N	N	N	N	N	N	N	N	N	
ML086C3	200	N	N	N	50	100	100	N	N	700	N	150	N	<10	N	150	N	<10	<20	N	N	N	N	N	N	
ML087C3	150	N	N	N	200	30	30	N	N	300	N	150	N	<20	N	150	50	<20	<20	N	N	N	N	N	N	
ML088C3	300	N	N	N	20	300	300	N	N	200	N	300	N	300	N	300	N	N	20	N	N	N	N	N	N	
ML089C3	N	N	N	N	N	200	200	N	N	200	N	300	N	300	N	300	N	N	30	N	N	N	N	N	N	
ML090C3	N	N	N	N	<20	300	300	N	N	200	N	300	N	300	N	300	N	N	<20	N	N	N	N	N	N	

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	SC PPM-S	SN PPM-S	SR PPM-S	V PPM-S	W PPM-S	Y PPM-S	ZN PPM-S	ZR PPM-S	NA	%-S P	%-S GA	PPM-S GE	PPM-S TH
ML046C3	20	70	N	300	300	N	150	N	1,500	<.5	.7	15	N
ML047C3	15	N	500	300	300	N	200	N	>2,000	N	3.0	30	N
ML048C3	<10	N	700	300	300	N	300	N	>2,000	N	5.0	15	N
ML049C3	<10	50	N	300	300	200	200	N	>2,000	N	<.5	<10	N
ML050C3	<10	N	N	150	150	N	<20	N	500	N	N	15	N
ML051C3	<10	N	N	70	200	N	N	N	1,500	N	N	10	N
ML052C3	<10	70	500	200	200	N	500	N	>2,000	N	1.5	10	N
ML053C3	<10	50	N	200	200	N	500	N	>2,000	<.5	3.0	<10	N
ML054C3	<10	70	N	200	200	N	500	N	>2,000	N	10.0	N	N
ML055C3	15	20	N	200	200	N	700	N	>2,000	<.5	10.0	<10	N
ML056C3	10	<20	N	200	200	100	100	N	700	N	.5	<10	N
ML057C3	50	150	N	300	300	200	150	N	>2,000	N	.5	N	N
ML058C3	15	N	N	200	200	300	100	N	1,000	<.5	.7	20	N
ML059C3	<10	N	N	150	150	N	500	N	>2,000	N	7.0	<10	N
ML060C3	10	N	500	150	150	N	700	N	>2,000	N	15.0	N	N
ML061C3	<10	N	500	150	150	N	700	N	>2,000	N	15.0	N	N
ML062C3	<10	<20	<200	200	200	N	500	N	>2,000	N	7.0	N	N
ML063C3	10	N	N	200	200	N	300	N	>2,000	N	3.0	10	N
ML064C3	10	N	N	200	200	N	150	N	>2,000	N	.5	10	N
ML065C3	10	20	N	300	300	N	200	N	>2,000	N	.5	10	N
ML066C3	30	300	N	300	300	150	150	N	>2,000	N	.5	N	N
ML067C3	15	20	N	150	150	N	200	N	>2,000	N	2.0	<10	N
ML068C3	15	70	N	150	150	N	500	N	>2,000	N	5.0	<10	N
ML069C3	20	30	N	200	200	N	500	N	>2,000	N	7.0	<10	N
ML070C3	--	--	--	--	--	--	--	--	--	--	--	--	--
ML071C3	<10	150	N	200	200	150	70	N	700	N	<.5	N	N
ML072C3	20	<20	N	300	300	N	100	N	>2,000	N	<.5	<10	N
ML073C3	15	150	N	300	300	150	500	N	2,000	N	2.0	N	N
ML074C3	10	N	N	150	150	200	100	N	>2,000	N	1.5	10	N
ML075C3	10	70	N	150	150	N	700	N	2,000	N	7.0	15	N
ML076C3	15	100	N	150	150	150	500	N	>2,000	N	7.0	<10	N
ML077C3	15	300	N	200	200	500	500	N	700	.5	3.0	N	N
ML078C3	10	100	N	200	200	500	700	N	2,000	<.5	3.0	N	N
ML079C3	20	150	N	200	200	150	100	N	>2,000	N	.7	N	N
ML080C3	15	100	N	200	200	70	150	N	>2,000	N	<.5	N	N
ML081C3	50	150	N	300	300	<50	150	N	1,500	N	1.0	N	N
ML082C3	30	200	N	300	300	300	700	N	700	.7	.7	N	N
ML083C3	<10	N	N	150	150	70	70	N	1,000	.5	.5	N	N
ML084C3	20	150	N	300	300	300	700	N	700	.5	1.5	10	N
ML085C3	N	50	N	200	200	300	150	N	500	.5	1.5	<10	N
ML086C3	15	50	N	300	300	N	300	N	150	.7	1.5	N	N
ML087C3	<10	70	N	200	200	N	150	N	200	1.5	<.5	<10	N
ML088C3	10	150	N	300	300	500	700	N	1,000	1.0	1.5	<10	N
ML089C3	10	200	N	300	300	500	700	N	1,500	1.0	1.0	10	N
ML090C3	15	100	N	300	300	700	200	N	1,500	1.5	.7	<10	N

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	LATITUDE	LONGITUD	FE	%-S MG	%-S CA	%-S TI	%-S MN	PPM-S AG	PPM-S AS	AU	PPM-S B	PPM-S BA	PPM-S BE	PPM-S
ML091C3	46 58 2	115 20 17	1.00	3.00	3.00	>2.0	300	N	N	N	1,000	N	N	N
ML092C3	46 58 38	115 18 13	3.00	1.00	2.00	>2.0	1,000	N	N	N	700	150	N	N
ML093C3	46 58 15	115 18 57	1.50	.70	.70	>2.0	700	N	N	N	500	150	<2	<2
ML094C3	46 58 46	115 22 20	1.50	1.50	2.00	>2.0	700	N	N	N	500	200	<2	<2
ML095C3	46 58 43	115 22 15	1.50	1.50	1.50	>2.0	1,000	N	N	N	200	100	<2	<2
ML096C3	46 57 26	115 22 33	<.10	1.00	2.00	>2.0	150	N	N	N	150	100	N	N
ML097C3	46 57 51	115 23 2	1.00	.30	.70	2.0	700	N	N	N	150	150	<2	<2
ML098C3	47 1 2	115 22 7	.10	.20	.70	>2.0	200	<1.0	N	N	150	70	N	N
ML099C3	47 1 37	115 22 21	5.00	.50	1.00	>2.0	5,000	N	N	N	500	50	N	N
ML100C3	46 59 49	115 19 1	1.50	.70	1.50	>2.0	500	N	N	N	100	200	N	N
ML101C3	47 0 18	115 17 12	1.00	.70	.70	>2.0	700	N	N	N	150	150	N	N
ML102C3	47 0 7	115 16 42	1.00	.50	2.00	>2.0	300	N	N	N	200	200	N	N
ML103C3	46 53 56	115 3 2	.70	.50	1.50	>2.0	300	<1.0	N	N	200	150	N	N
ML104C3	46 54 35	115 2 27	.50	.50	.70	>2.0	100	<1.0	N	N	100	200	N	N
ML105C3	46 55 7	115 1 56	.10	.30	.50	>2.0	50	<1.0	N	N	150	100	N	N
ML106C3	47 3 44	115 26 15	3.00	.50	1.50	1.5	1,500	N	N	N	70	100	2	2
ML107C3	46 56 24	115 1 21	1.00	.70	3.00	>2.0	200	3.0	N	N	70	200	N	N
ML108C3	46 56 23	115 1 29	.30	.70	1.00	>2.0	70	N	N	N	100	150	N	N
ML109C3	47 4 9	115 23 13	5.00	.50	.70	>2.0	5,000	15.0	N	N	150	70	N	N
ML110C3	47 3 35	115 19 47	2.00	1.50	.70	>2.0	2,000	N	N	N	150	150	N	N
ML111C3	47 3 53	115 18 55	2.00	2.00	1.50	>2.0	500	10.0	N	100	150	150	N	N
ML112C3	47 4 1	115 17 56	2.00	1.00	1.00	>2.0	300	N	N	N	200	200	N	N
ML113C3	47 0 27	115 21 16	2.00	1.00	1.00	>2.0	200	N	N	N	300	200	N	N
ML114C3	47 0 40	115 21 21	1.50	.50	1.00	>2.0	700	N	N	N	700	70	N	N
ML115C3	47 1 46	115 21 15	2.00	.70	1.50	1.5	1,500	N	N	N	700	150	<2	<2
ML116C3	47 2 5	115 20 47	1.50	.70	1.00	>2.0	1,000	N	N	N	200	150	<2	<2
ML117C3	47 2 31	115 20 27	7.00	1.50	1.50	>2.0	>10,000	N	N	N	1,000	70	N	N
ML118C3	47 0 39	115 8 3	3.00	1.00	3.00	>2.0	700	N	N	N	100	70	N	N
ML119C3	47 1 42	115 8 51	5.00	1.00	2.00	>2.0	700	N	N	N	100	150	N	N
ML120C3	47 2 10	115 9 40	3.00	1.00	5.00	>2.0	1,000	10.0	N	70	100	100	<2	<2
ML121C3	47 2 54	115 11 28	3.00	.50	3.00	>2.0	1,500	3.0	N	30	50	100	N	N
ML122C3	47 3 0	115 11 40	.20	.15	.70	>2.0	50	<1.0	N	N	20	<50	N	N
ML123C3	47 3 19	115 12 42	.20	.70	3.00	>2.0	100	<1.0	N	N	70	<50	N	N
ML124C3	47 3 59	115 13 0	.20	.15	.30	>2.0	50	<1.0	N	N	70	N	N	N
ML125C3	47 2 5	115 15 32	2.00	.70	3.00	>2.0	700	N	N	N	100	200	N	N
ML126C3	47 0 8	115 18 42	.20	.30	.70	>2.0	300	N	N	N	300	70	N	N
ML127C3	47 0 12	115 14 48	1.00	.30	1.00	>2.0	1,000	N	N	N	200	100	N	N
ML128C3	47 0 20	115 13 57	1.00	.30	1.00	>2.0	1,000	N	N	N	30	100	N	N
ML129C3	46 59 45	115 13 37	3.00	.70	3.00	>2.0	1,500	N	N	N	500	70	N	N
ML130C3	46 59 45	115 13 31	2.00	.70	7.00	>2.0	2,000	N	N	N	30	200	N	N
ML131C3	47 0 11	115 13 42	3.00	.70	5.00	>2.0	1,500	N	N	N	100	200	<2	<2
ML132C3	46 58 3	115 8 18	1.50	.20	1.00	>2.0	300	30.0	N	200	50	150	N	N
ML133C3	46 58 7	115 8 12	.50	.20	1.00	>2.0	200	1.5	N	N	20	70	N	N

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--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	PD PPM-S	PT PPM-S	SB PPM-S
ML091C3	70	N	N	<20	200	N	500	N	150	10	<20	N	N
ML092C3	N	N	N	70	150	N	500	N	150	20	30	N	N
ML093C3	N	N	<20	<20	200	N	300	N	150	10	<20	N	N
ML094C3	N	N	N	200	200	N	500	N	200	<10	<20	N	N
ML095C3	N	N	N	150	150	N	700	N	150	<10	N	N	N
ML096C3	30	N	N	N	700	N	100	N	300	N	<20	N	N
ML097C3	N	N	N	<20	<20	N	150	N	70	<10	N	N	N
ML098C3	100	N	N	N	300	N	100	N	300	N	N	N	N
ML099C3	N	N	N	<20	<20	N	300	N	50	<10	30	N	N
ML100C3	N	N	50	200	200	N	200	N	200	<10	<20	N	N
ML101C3	N	N	30	200	200	N	300	N	200	<10	N	N	N
ML102C3	N	N	30	300	300	N	<100	N	200	10	N	N	N
ML103C3	1,500	N	<20	200	200	N	300	<10	500	N	70	N	N
ML104C3	2,000	N	30	300	300	N	100	N	500	<10	70	N	N
ML105C3	100	N	N	200	200	N	<100	N	500	N	20	N	N
ML106C3	N	N	N	<20	<20	<10	<100	N	50	<10	20	N	N
ML107C3	50	N	N	150	200	N	<100	20	300	15	1,000	N	N
ML108C3	100	N	<20	200	200	N	<100	N	500	10	30	N	N
ML109C3	N	N	N	30	300	<10	1,500	N	150	N	1,000	N	N
ML110C3	30	N	N	300	300	<10	700	N	200	<10	200	N	N
ML111C3	N	N	200	300	300	10	500	N	200	20	<20	N	N
ML112C3	100	N	300	300	300	<10	700	N	300	70	20	N	N
ML113C3	100	N	500	300	300	<10	700	N	300	70	20	N	N
ML114C3	N	N	N	N	N	N	150	N	50	N	N	N	N
ML115C3	700	N	N	20	20	N	150	N	<50	10	<20	N	N
ML116C3	N	N	N	70	70	N	150	N	70	<10	N	N	N
ML117C3	N	N	<20	50	50	N	700	N	100	20	30	N	N
ML118C3	N	N	50	200	200	N	500	N	200	20	500	N	N
ML119C3	100	N	100	300	300	20	700	N	200	100	50	N	N
ML120C3	N	N	N	150	150	30	150	N	100	N	20	N	N
ML121C3	700	N	30	300	300	N	700	N	200	10	70	N	N
ML122C3	N	N	N	1,000	1,000	N	150	N	300	<10	<20	N	N
ML123C3	N	N	N	700	700	N	150	N	300	N	30	N	N
ML124C3	N	N	N	1,000	1,000	<10	200	N	500	N	300	N	N
ML125C3	N	N	200	200	200	N	700	N	200	20	30	N	N
ML126C3	20	N	N	1,000	1,000	N	500	N	300	N	20	N	N
ML127C3	N	N	N	300	300	N	<100	N	200	10	<20	N	N
ML128C3	N	N	1,000	700	700	20	150	N	300	10	20	N	N
ML129C3	150	N	<20	150	150	N	500	N	150	<10	50	N	N
ML130C3	N	N	N	300	300	N	100	N	200	<10	100	N	N
ML131C3	150	N	N	100	100	N	200	N	100	<10	20	N	N
ML132C3	100	N	N	1,000	2,000	50	100	N	300	70	700	N	N
ML133C3	150	N	N	700	200	50	200	N	500	15	50	N	N

Table 3--Analytical results of heavy-mineral-concentrate samples from Mallard-Larkins Wilderness--Proposed, Clearwater and Shoshone Counties, Idaho.--Continued.

Sample	SC PPM-S	SN PPM-S	SR PPM-S	V PPM-S	W PPM-S	Y PPM-S	ZN PPM-S	ZR PPM-S	NA	%-S P	%-S GA	PPM-S GE	PPM-S TH
ML091C3	15	100	N	300	300	700	500	N	300	.7	.5	N	N
ML092C3	20	30	N	200	1,000	200	200	N	300	.5	3.0	<10	N
ML093C3	50	70	N	300	500	500	200	N	1,500	1.0	.7	10	N
ML094C3	15	70	N	300	300	150	300	N	1,500	.7	3.0	<10	N
ML095C3	20	<20	N	300	100	100	150	N	150	N	.5	N	N
ML096C3	50	200	N	300	1,500	500	500	N	500	1.0	2.0	N	N
ML097C3	N	N	N	100	70	N	70	N	500	.5	.5	N	N
ML098C3	30	100	N	300	300	300	150	N	500	N	.7	N	N
ML099C3	15	N	N	70	N	N	200	N	500	N	N	<10	N
ML100C3	10	50	N	200	100	100	150	N	700	.7	.5	15	N
ML101C3	10	70	N	300	70	200	200	N	200	.5	.5	N	N
ML102C3	30	70	N	300	200	200	500	N	1,000	.5	1.5	10	N
ML103C3	10	100	N	200	300	300	500	N	700	.5	.5	<10	N
ML104C3	<10	70	N	300	300	300	150	N	1,500	.7	1.0	N	N
ML105C3	10	70	N	300	300	300	500	N	1,500	.5	<.5	N	N
ML106C3	15	N	N	70	N	N	70	N	150	N	N	<10	N
ML107C3	10	100	N	200	200	50	700	N	1,500	1.0	1.0	<10	N
ML108C3	<10	70	N	200	200	70	300	N	1,500	1.0	.5	<10	N
ML109C3	30	N	N	100	300	<50	500	N	300	N	.7	<10	N
ML110C3	30	100	N	300	300	300	300	N	500	<.5	<.5	<10	N
ML111C3	20	70	N	300	300	300	200	N	500	<.5	.5	<10	N
ML112C3	20	100	N	300	500	500	300	N	1,000	1.0	.7	<10	N
ML113C3	30	100	N	300	300	300	300	N	1,000	1.0	.7	10	N
ML114C3	10	N	N	70	N	N	70	N	1,000	N	<.5	N	N
ML115C3	15	N	N	100	100	N	70	N	700	<.5	N	<10	N
ML116C3	<10	N	N	150	150	N	100	N	500	1.0	<.5	N	N
ML117C3	30	70	N	150	300	N	500	N	700	N	<.5	<10	N
ML118C3	30	100	<200	300	300	50	300	N	700	1.0	1.5	15	N
ML119C3	30	70	N	200	500	50	500	N	700	<.5	.5	10	N
ML120C3	30	<20	700	200	200	100	150	N	500	1.0	N	30	N
ML121C3	20	150	300	300	300	100	300	N	700	N	<.5	10	N
ML122C3	30	200	N	300	300	300	200	N	200	<.5	.7	N	N
ML123C3	20	200	N	300	200	200	700	N	700	.5	2.0	N	N
ML124C3	30	300	N	500	500	200	70	N	700	N	.5	N	N
ML125C3	70	100	N	300	1,500	500	500	N	500	.7	2.0	<10	N
ML126C3	30	200	N	500	500	300	300	N	700	N	1.5	N	N
ML127C3	30	200	N	300	1,500	500	700	N	200	N	1.5	N	N
ML128C3	50	150	N	300	300	300	300	N	300	N	.5	N	N
ML129C3	30	50	300	200	1,000	1,000	150	N	500	N	1.5	20	N
ML130C3	50	200	700	200	200	200	1,000	N	500	.5	<.5	50	N
ML131C3	30	N	700	150	N	N	300	N	500	<.5	<.5	30	N
ML132C3	50	700	N	300	200	200	500	N	150	N	<.5	N	N
ML133C3	30	200	N	300	300	150	500	N	200	N	.7	N	N