

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Spectrographic analyses of stream-sediment samples from the
Mazatzal Wilderness Area and
Mazatzal Wilderness Contiguous Roadless Area,
Gila, Maricopa, and Yavapai Counties, Arizona

by

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reviewed for conformity with
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Studies Related to Wilderness

The Wilderness Act (Public Law 88-577, 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 Mazatzal Wilderness and Mazatzal Wilderness Contiguous Roadless Area in the Tonto and Coconino National Forests, Gila, Maricopa, and Yavapai Counties, Arizona. The Mazatzal Wilderness was established by Public Law 88-577, September 3, 1964. The Mazatzal Wilderness Contiguous Roadless Area (03016) was classified as a further planning area during the Second Roadless Area Review and Evaluation (RARE II) by the U.S. Forest Service, January 1979.

INTRODUCTION

The Mazatzal Wilderness and Mazatzal Wilderness Contiguous Roadless Area are 8 mi (13 km) west of Payson, Arizona, and comprise 451 sq mi (171 sq km) of mountainous terrain of which 321 sq mi (831 sq km) is the Mazatzal Wilderness and 130 sq mi (340 sq km) is the contiguous roadless area. The area is in the Tonto and Coconino National Forests in a region typical of the arid mountains of the Southwestern United States. Prominent physiographic features in the wilderness include the high crest of the Mazatzal Mountains and the deep canyon of the East Verde River. The Verde River, one of the main drainages in Arizona, borders the west side of the area (fig. 1)

A geochemical reconnaissance survey was undertaken in 1979-81 by S. P. Marsh and assistants. The purpose of the survey was to provide geochemical data that would aid in the preparation of a comprehensive report on the mineral-resource potential of the Mazatzal Wilderness and Mazatzal Wilderness Contiguous Roadless Area. Data was obtained from analyses of 473 stream-sediment samples. All sample localities were plotted on a 1:48,000 scale topographic map (Plate 1). Samples were numbered consecutively from 001 to 448 with the remaining 25 samples being nonconsecutive. All samples taken in the Mazatzal study were prefixed with a two letter designation, MZ.

FIELD METHODS

Stream-sediment samples were collected from first and second order stream drainages at a sample density of approximately 1 sample site per 2.5 sq km (1 sq mi), representing drainage areas as large as 8 sq km (3 sq mi). Of the 473 stream-sediment samples taken, 167 or 35 percent were from dry stream beds. Samples from dry drainages were taken from what was presumed to be the most recently active channel. In active and dry streams sediment samples were collected perpendicular to flow direction across the full width of the active

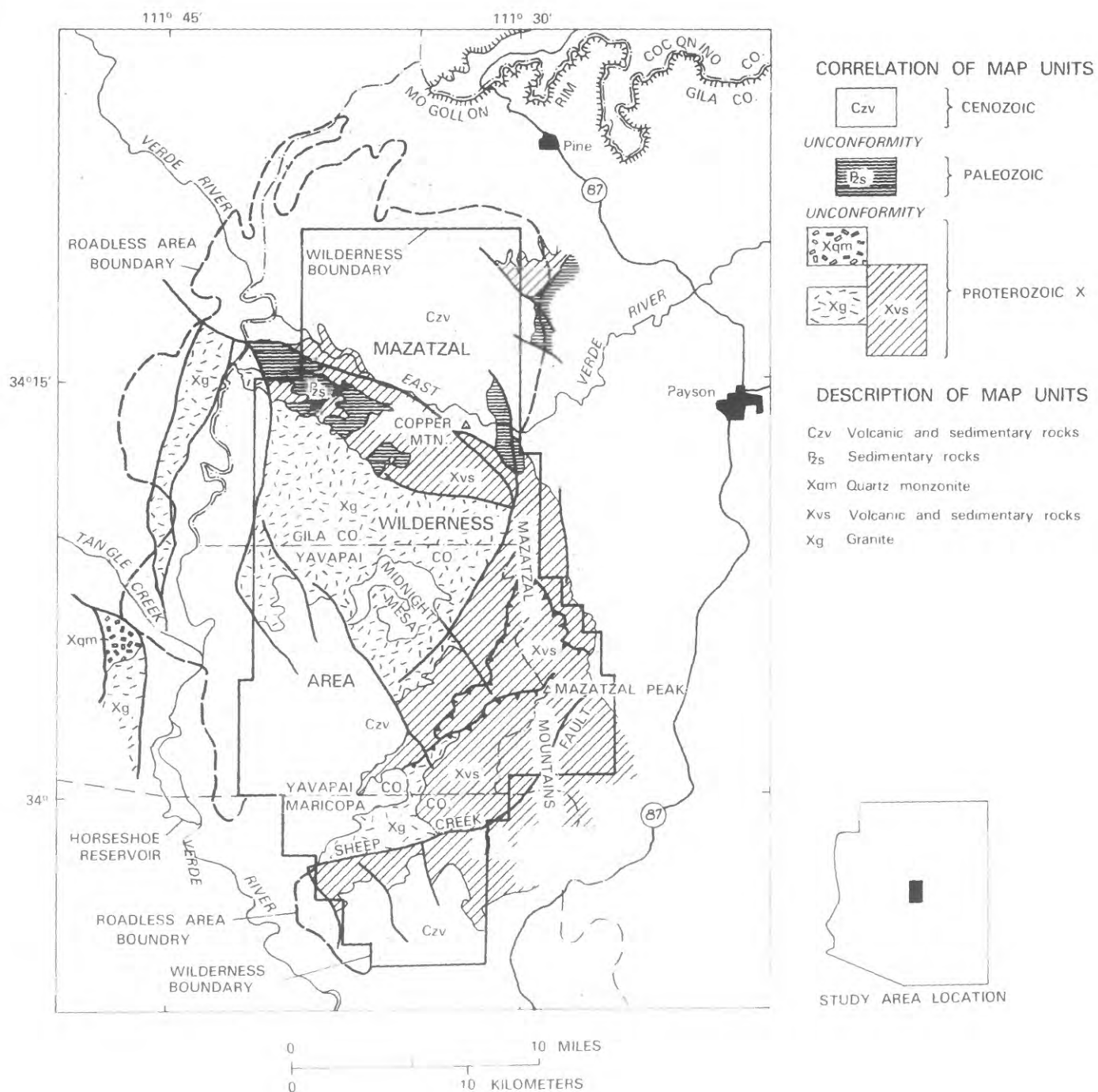


Figure 1. Map showing location and generalized geology of the Mazatzal wilderness Area.

stream channel in order to get an unbiased sample. Stream sediment samples were sieved on site through a 2 mm stainless steel screen and placed in an 11 x 15 cm cloth bag. The samples were air-dried where necessary.

ANALYTICAL METHODS

Dried stream-sediment samples were sieved through a 177 μm (80 mesh) stainless steel sieve and the -177 μm fraction was ground to a powder for analysis. Following preparation, the stream-sediment samples were analyzed by a semiquantitative emission spectrographic method described by Grimes and Marranzino (1968) for the analysis of geologic materials. The results of these analyses for 31 elements are given in table 2. Spectrographic results were obtained by visual comparison of spectra derived from the unknown against spectra obtained from standards made from pure oxides or carbonates based on a 10 mg sample weight using a 20x comparator. Standard concentrations are geometrically spaced over any given order of magnitude of concentration and are prepared in such a way that the range of concentrations normally found in naturally occurring samples are bracketted. When comparisons are made with sample films for semiquantitative use, reported values are rounded to 100, 50, 20, 10, and so forth. Those samples whose concentrations are estimated to fall between the above values are given values of 70, 30, 15, 7, and so forth (Grimes and Marranzino, 1968). The precision of the method is approximately plus or minus one reporting unit at the 83 percent confidence level and plus or minus two reporting units at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (magnesium, calcium, iron, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). Table 1 lists all elements analyzed and their lower limits of determination.

Analytical results, sample descriptions, and locations were entered into a computerized rock analysis storage system (RASS) (VanTrump and Miesch, 1977).

REFERENCES CITED

- Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.
- Motooka, J. M., and Grimes, D. J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analysis: U.S. Geological Survey Circular 738, 25 p.
- VanTrump, George, Jr., and Miesch, A. T., 1977, The U.S. Geological Survey RASS-STATPAC System for management and statistical reduction of Geochemical Data: Computers and Geosciences, v. 3, no. 3, p. 475-488.

Table 1.--Summary of elements analyzed, lower limits of detection, and analytical reference for samples from the Mazatzal Wilderness Area and Mazatzal Wilderness Contiguous Roadless Area (RARE II 03016), Gila, Maricopa, and Yavapai Counties, Arizona.

[D.C. arc/spectrographic analysis by M. S. Erickson and C. L. Forn.]

Column Designation	Lower Limit of Detection Sediment	Reference
Fe-pct.-s	0.05	Grimes and Marranzino (1968)
Mg-pct.-s	0.02	-----Do-----
Ca-pct.-s	0.05	-----Do-----
Ti-pct.-s	0.002	-----Do-----
Mn-ppm-s	10	-----Do-----
Ag-ppm-s	0.50	-----Do-----
As-ppm-s	200	-----Do-----
Au-ppm-s	10	-----Do-----
B-ppm-s	10	-----Do-----
Ba-ppm-s	20	-----Do-----
Be-ppm-s	1	-----Do-----
Bi-ppm-s	10	-----Do-----
Cd-ppm-s	20	-----Do-----
Co-ppm-s	5	-----Do-----
Cr-ppm-s	10	-----Do-----
Cu-ppm-s	5	-----Do-----
La-ppm-s	20	-----Do-----
Mo-ppm-s	5	-----Do-----
Nb-ppm-s	20	-----Do-----
Ni-ppm-s	5	-----Do-----
Pb-ppm-s	10	-----Do-----
Sb-ppm-s	100	-----Do-----
Sc-ppm-s	<5	-----Do-----
Sn-ppm-s	10	-----Do-----
Sr-ppm-s	100	-----Do-----
V-ppm-s	10	-----Do-----
W-ppm-s	50	-----Do-----
Y-ppm-s	10	-----Do-----
Zn-ppm-s	200	-----Do-----
Zr-ppm-s	<10	-----Do-----
Th-ppm-s	100	-----Do-----

Table 2.—Spectrographic analyses of stream sediment samples from the Mazatzal Wilderness and Mazatzal Wilderness Contiguous Roadless Area (RARE II 01016), Gila, Maricopa, and Yavapai Counties, Arizona. (The following qualifiers are used in reporting spectrographic data: —, no determination made; N, concentration less than the detection limit; <, detected, but present at a concentration less than the value reported; and >, elements present at a concentration greater than the upper calibration limit.)

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
M2001	34 16 59	111 38 55	7.0	3.0	10.0	.70	1,500	N	N	N	100	1,000
M2002	34 16 45	111 38 55	5.0	1.5	5.0	1.00	1,000	N	N	N	15	700
M2003	34 16 41	111 38 13	5.0	2.0	3.0	.30	1,000	N	N	N	30	700
M2004	34 16 7	111 37 58	7.0	1.5	5.0	.70	1,000	N	N	N	200	700
M2005	34 17 49	111 39 35	7.0	3.0	5.0	.50	1,500	N	N	N	30	700
M2006	34 18 14	111 40 54	7.0	2.0	5.0	.70	1,000	N	N	N	20	700
M2007	34 18 41	111 40 43	7.0	3.0	5.0	1.00	1,500	N	N	N	30	1,000
M2008	34 19 33	111 41 23	7.0	1.5	2.0	.50	1,000	N	N	N	30	700
M2009	34 19 6	111 40 43	7.0	2.0	3.0	.50	1,500	N	N	N	50	1,500
M2010	34 19 30	111 41 32	5.0	2.0	5.0	.50	1,000	N	N	N	30	1,500
M2011	34 20 7	111 41 36	7.0	3.0	7.0	.70	1,500	N	N	N	50	700
M2012	34 21 50	111 37 49	5.0	2.0	3.0	.70	1,500	N	N	N	20	1,500
M2013	34 21 44	111 39 29	7.0	1.5	2.0	.70	1,500	N	N	N	100	1,000
M2014	34 20 59	111 38 5	7.0	2.0	3.0	.70	1,500	N	N	N	50	1,000
M2015	34 21 19	111 39 52	7.0	2.0	5.0	.50	1,500	N	N	N	30	700
M2016	34 20 12	111 38 36	5.0	1.5	2.0	.50	1,000	N	N	N	50	700
M2017	34 19 54	111 39 46	7.0	3.0	7.0	1.00	1,500	N	N	N	20	700
M2018	34 19 59	111 38 50	7.0	2.0	3.0	.50	1,500	N	N	N	30	500
M2020	34 19 27	111 38 40	5.0	1.5	1.5	.50	1,000	N	N	N	50	700
M2021	34 18 31	111 39 58	7.0	1.5	3.0	.50	1,000	N	N	N	50	300
M2022	34 18 26	111 42 26	7.0	2.0	5.0	1.00	1,500	N	N	N	30	700
M2023	34 17 41	111 41 51	5.0	1.0	5.0	.50	1,000	N	N	N	30	500
M2024	34 16 11	111 40 26	7.0	1.5	5.0	.70	1,000	N	N	N	50	1,500
M2025	34 17 4	111 41 22	7.0	2.0	7.0	.70	1,000	N	N	N	100	1,000
M2026	34 16 5	111 40 28	7.0	2.0	7.0	.70	1,000	N	N	N	50	1,000
M2027	34 15 53	111 41 9	10.0	1.5	3.0	1.00	1,500	N	N	N	100	1,500
M2028	34 15 39	111 40 50	10.0	1.5	3.0	.70	1,500	N	N	N	200	700
M2029	34 15 32	111 41 33	10.0	1.0	1.5	.70	2,000	<.5	200	N	200	1,000
M2030	34 15 11	111 41 45	7.0	1.5	15.0	.50	1,000	N	N	N	100	500
M2031	34 14 5	111 42 10	7.0	2.0	7.0	.70	1,000	N	N	N	100	1,500
M2032	34 13 57	111 41 42	5.0	1.5	7.0	.70	1,000	N	N	N	50	1,000
M2033	34 13 29	111 41 36	10.0	2.0	7.0	.70	1,500	N	N	N	70	1,500
M2034	34 13 15	111 41 35	5.0	2.0	7.0	.50	1,500	N	<200	N	50	1,500
M2035	34 12 34	111 41 24	7.0	2.0	3.0	1.00	1,000	N	N	N	100	700
M2036	34 12 39	111 42 17	10.0	.5	.7	.70	1,000	N	N	N	100	700
M2037	34 13 37	111 42 18	10.0	.7	1.5	.70	1,000	N	N	N	100	700
M2038	34 13 5	111 42 27	20.0	.3	.7	.50	300	N	N	N	150	500
M2039	34 12 7	111 41 17	7.0	3.0	7.0	.50	1,500	N	N	N	50	700
M2040	34 11 37	111 41 31	10.0	3.0	7.0	1.00	1,000	N	N	N	50	1,000
M2041	34 11 34	111 42 56	7.0	1.0	2.0	.70	1,000	N	N	N	70	1,000
M2042	34 11 30	111 43 1	7.0	3.0	3.0	.70	1,500	N	N	N	50	1,000
M2043	34 11 5	111 43 15	20.0	.7	1.5	.50	300	N	N	N	150	5,000
M2044	34 10 42	111 42 10	7.0	2.0	5.0	.70	1,000	N	N	N	50	1,000
M2045	34 10 1	111 43 15	10.0	2.0	7.0	.70	1,000	N	N	N	50	1,000
M2046	34 9 27	111 43 12	10.0	2.0	7.0	1.00	1,000	N	N	N	70	700

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	Sc-ppm s
M2001	<1.0	N	N	70	1,500	100	30	N	<20	300	15	N	30
M2002	<1.0	N	N	50	200	70	30	N	<20	100	10	N	20
M2003	<1.0	N	N	30	700	50	50	N	N	100	N	N	20
M2004	<1.0	N	N	15	200	70	30	N	<20	50	20	N	20
M2005	N	N	N	70	1,000	150	30	N	<20	200	10	N	30
M2006	<1.0	N	N	50	700	70	30	N	<20	150	10	N	30
M2007	<1.0	N	N	70	1,000	100	30	N	20	200	15	N	30
M2008	<1.0	N	N	50	700	70	50	N	<20	150	<10	N	20
M2009	<1.0	N	N	70	700	150	50	N	<20	150	30	N	30
M2010	<1.0	N	N	20	200	50	70	N	20	50	20	N	15
M2011	<1.0	N	N	70	700	150	30	N	<20	150	20	N	30
M2012	<1.0	N	N	50	700	50	70	N	20	150	15	N	20
M2013	<1.0	N	N	70	500	70	30	N	<20	100	20	N	20
M2014	<1.0	N	N	70	1,000	100	50	N	<20	150	20	N	30
M2015	<1.0	N	N	50	700	70	50	N	<20	100	<10	N	20
M2016	<1.0	N	N	20	500	50	<20	N	N	100	<10	N	30
M2017	<1.0	N	N	70	1,500	150	30	N	<20	300	10	N	30
M2018	<1.0	N	N	70	1,500	150	20	N	<20	500	<10	N	30
M2020	<1.0	N	N	50	500	70	70	N	<20	100	10	N	30
M2021	<1.0	N	N	20	700	70	50	N	<20	150	<10	N	20
M2022	<1.0	N	N	70	700	100	30	N	<20	150	15	N	30
M2023	<1.0	N	N	50	300	50	50	N	<20	150	<10	N	20
M2024	<1.0	N	N	70	2,000	150	70	N	20	150	20	N	30
M2025	<1.0	N	N	70	700	100	50	N	20	150	20	N	30
M2026	<1.0	N	N	50	700	100	30	N	<20	150	<10	N	30
M2027	<1.0	N	N	70	200	150	20	N	<20	100	50	N	30
M2028	<1.0	N	N	70	500	100	20	N	N	70	70	N	30
M2029	<1.0	N	N	70	150	150	20	N	N	50	100	N	30
M2030	<1.0	N	N	50	150	70	20	N	N	30	30	N	20
M2031	1.0	N	N	30	700	100	50	N	<20	150	20	N	30
M2032	1.0	N	N	20	700	70	70	N	<20	700	30	N	20
M2033	<1.0	N	N	70	500	150	50	N	20	150	30	N	20
M2034	1.5	N	N	50	300	70	50	N	<20	150	30	N	15
M2035	1.0	N	N	50	500	70	50	N	<20	150	30	N	20
M2036	1.5	N	N	10	150	70	70	N	<20	<5	50	N	20
M2037	3.0	N	N	10	150	50	70	N	30	20	50	N	20
M2038	1.0	N	N	15	300	70	50	N	<20	15	30	N	15
M2039	<1.0	N	N	50	700	100	30	N	150	150	30	N	30
M2040	<1.0	N	N	70	2,000	150	20	N	<20	300	30	N	30
M2041	1.0	N	N	20	500	100	50	N	<20	150	30	N	15
M2042	1.5	N	N	50	500	70	50	N	20	150	30	N	30
M2043	1.0	N	N	70	1,500	150	20	N	<20	100	30	N	15
M2044	<1.0	N	N	50	500	100	30	N	<20	150	20	N	20
M2045	1.0	N	N	70	700	70	30	N	<20	150	20	N	20
M2046	<1.0	N	N	70	1,000	150	20	N	<20	200	15	N	20

Sample	Sn-ppm §	Sr-ppm §	V-ppm §	W-ppm §	Y-ppm §	Zn-ppm §	Zr-ppm §	Th-ppm §
MZ001	N	700	200	N	50	N	200	N
MZ002	N	700	300	N	20	N	70	N
MZ003	N	300	100	N	20	N	30	N
MZ004	N	200	200	N	70	N	200	N
MZ005	<10	500	200	N	30	N	70	N
MZ006	N	700	200	N	30	N	100	N
MZ007	N	1,000	200	N	30	N	200	N
MZ008	N	300	150	N	20	N	50	N
MZ009	N	700	200	N	30	N	100	N
MZ010	N	700	100	N	20	N	500	N
MZ011	N	1,000	300	N	50	N	70	N
MZ012	N	700	150	N	30	N	100	N
MZ013	N	500	300	N	30	N	150	N
MZ014	10	300	200	N	30	N	300	N
MZ015	N	500	200	N	20	N	100	N
MZ016	N	200	150	N	20	N	50	N
MZ017	N	300	200	N	30	N	100	N
MZ018	N	500	200	N	20	N	50	N
MZ020	<10	200	150	N	30	N	300	N
MZ021	N	200	200	N	20	N	50	N
MZ022	N	500	300	N	30	N	300	N
MZ023	N	500	200	N	20	N	30	N
MZ024	15	700	200	N	30	N	100	N
MZ025	<10	700	200	N	50	N	150	N
MZ026	N	1,000	300	N	30	N	70	N
MZ027	N	500	500	N	50	<200	100	N
MZ028	N	300	500	N	70	N	150	N
MZ029	N	100	300	N	70	200	70	N
MZ030	N	200	200	N	50	N	50	N
MZ031	N	1,000	300	N	70	<200	200	N
MZ032	N	700	200	N	30	N	100	N
MZ033	N	1,000	300	N	50	N	100	N
MZ034	N	700	150	N	50	N	100	N
MZ035	10	300	300	N	100	N	300	N
MZ036	N	<100	200	N	300	<200	>1,000	N
MZ037	N	200	200	N	200	200	>1,000	N
MZ038	N	N	500	N	200	<200	>1,000	150
MZ039	<10	700	150	N	20	<200	50	N
MZ040	10	700	500	N	30	N	100	N
MZ041	N	500	200	N	100	<200	500	N
MZ042	N	500	150	N	100	N	700	N
MZ043	N	N	500	N	200	<200	>1,000	100
MZ044	<10	700	200	N	30	<200	100	N
MZ045	10	700	300	N	70	N	300	N
MZ046	N	700	300	N	70	<200	300	N

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-pdm s	Aq-pdm s	As-pdm s	Au-pdm s	B-pdm s	Ba-pdm s
M2047	34 9 25	111 42 24	7.0	1.50	2.0	.70	1,000	N	N	N	100	1,000
M2048	34 9 37	111 41 41	7.0	1.50	5.0	.50	700	N	N	N	30	500
M2049	34 9 53	111 41 26	5.0	1.50	7.0	.50	1,000	N	N	N	50	700
M2050	34 8 40	111 42 30	7.0	2.00	5.0	1.00	1,000	N	<200	N	50	700
M2051	34 8 27	111 43 13	7.0	1.50	7.0	.70	1,500	N	N	N	50	1,000
M2052	34 8 47	111 43 35	15.0	1.50	3.0	.70	1,500	N	N	N	100	700
M2053	34 14 31	111 40 46	5.0	1.50	5.0	.30	700	N	N	N	50	300
M2054	34 14 16	111 39 59	7.0	2.00	5.0	.70	2,000	N	N	N	100	500
M2055	34 14 8	111 39 19	7.0	1.00	3.0	1.00	1,500	N	N	N	200	700
M2056	34 14 52	111 38 50	7.0	3.00	7.0	.70	1,500	N	N	N	70	700
M2057	34 14 50	111 38 45	7.0	1.50	2.0	.70	1,000	N	N	N	300	500
M2058	34 13 32	111 37 52	10.0	1.50	1.5	1.00	1,000	N	N	N	200	700
M2059	34 13 30	111 37 48	7.0	.70	.7	>1.00	1,500	N	N	N	200	500
M2060	34 12 48	111 38 20	5.0	.70	.7	.50	1,000	N	N	N	70	700
M2061	34 13 38	111 40 18	7.0	1.50	2.0	.70	1,000	N	N	N	100	1,000
M2062	34 13 25	111 40 42	7.0	1.50	7.0	.70	1,000	N	N	N	50	700
M2063	34 11 51	111 40 3	10.0	2.00	3.0	.70	1,000	N	N	N	70	1,000
M2064	34 10 34	111 39 25	7.0	1.50	1.0	.70	1,000	N	N	N	100	700
M2065	34 10 34	111 40 3	7.0	3.00	7.0	.70	1,000	N	<200	N	70	700
M2066	34 10 29	111 39 57	7.0	1.00	1.5	.70	1,000	N	N	N	100	700
M2067	34 10 23	111 39 51	7.0	1.50	7.0	.70	1,500	N	N	N	50	700
M2068	34 9 58	111 44 4	15.0	3.00	5.0	.70	1,000	N	N	N	70	1,000
M2069	34 7 40	111 44 36	7.0	3.00	7.0	.70	1,000	N	N	N	50	1,000
M2070	34 12 44	111 43 37	7.0	3.00	10.0	.70	1,000	N	N	N	70	700
M2071	34 11 45	111 45 0	3.0	.70	1.5	.50	700	N	N	N	20	700
M2072	34 12 51	111 44 46	5.0	3.00	7.0	.70	700	N	N	N	20	700
M2073	34 14 32	111 44 53	10.0	3.00	5.0	.70	1,000	N	N	N	50	700
M2074	34 8 2	111 43 45	15.0	.70	1.0	.50	1,000	N	N	N	70	700
M2075	34 7 59	111 43 46	10.0	2.00	2.0	1.00	1,000	N	N	N	70	700
M2076	34 8 36	111 41 6	10.0	3.00	7.0	1.00	1,000	N	N	N	50	700
M2077	34 9 2	111 38 29	3.0	.70	1.0	.30	700	N	N	N	100	500
M2078	34 9 16	111 39 22	7.0	1.50	1.0	.50	700	N	N	N	70	500
M2079	34 8 5	111 39 14	5.0	1.00	1.5	.50	1,000	N	N	N	100	700
M2080	34 7 57	111 39 12	5.0	2.00	5.0	.50	1,000	N	N	N	70	1,000
M2081	34 7 52	111 40 45	5.0	1.00	7.0	.50	1,000	N	N	N	50	700
M2082	34 7 55	111 40 46	7.0	2.00	3.0	.70	1,000	N	N	N	50	500
M2083	34 11 22	111 35 39	7.0	2.00	1.5	.30	1,000	N	N	N	100	700
M2084	34 10 51	111 36 56	7.0	1.50	1.5	.70	1,000	N	N	N	70	700
M2085	34 11 14	111 35 23	7.0	1.50	1.0	.50	1,500	N	N	N	200	1,000
M2086	34 12 32	111 35 32	15.0	1.00	1.5	>1.00	2,000	N	N	N	100	300
M2087	34 13 41	111 36 26	7.0	1.50	2.0	1.00	1,500	N	N	N	100	500
M2088	34 13 9	111 34 46	5.0	.70	.7	.30	1,500	N	N	N	100	700
M2089	34 12 46	111 34 55	5.0	1.00	1.0	.30	1,000	N	N	N	70	700
M2090	34 12 22	111 33 18	7.0	1.00	.5	.30	1,500	N	N	N	300	1,500
M2091	34 13 34	111 32 43	7.0	1.00	1.5	.50	2,000	N	N	N	300	700

Sample	Be-ppm s	Bt-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
M2047	1.5	N	N	20	200	70	30	N	<20	100	30	N	20
M2048	1.5	N	N	15	150	50	<20	N	<20	100	<10	N	15
M2049	1.5	N	N	20	700	50	<20	N	<20	100	<10	N	15
M2050	3.0	N	N	70	700	150	20	N	<20	150	30	N	20
M2051	1.0	N	N	30	700	100	50	N	<20	100	15	N	30
M2052	2.0	N	N	30	200	70	20	N	<20	70	30	N	15
M2053	1.5	N	N	15	200	30	<20	N	<20	100	15	N	15
M2054	<1.0	N	N	30	200	150	<20	N	N	70	70	N	20
M2055	1.0	N	N	20	500	70	30	N	<20	70	70	N	20
M2056	<1.0	N	N	70	700	100	30	N	<20	150	15	N	20
M2057	<1.0	N	N	20	200	70	20	N	<20	70	30	N	20
M2058	<1.0	N	N	20	200	70	20	N	<20	70	30	N	20
M2059	<1.0	N	N	30	70	100	20	N	<20	20	30	N	20
M2060	1.5	N	N	15	150	30	70	N	<20	30	20	N	7
M2061	1.0	N	N	30	300	70	70	N	<20	100	30	N	30
M2062	3.0	N	N	30	500	70	30	N	<20	150	50	N	15
M2063	1.5	N	N	50	500	150	50	N	<20	150	30	N	20
M2064	1.5	N	N	20	700	100	100	N	20	150	30	N	15
M2065	2.0	N	N	70	700	150	50	N	<20	150	10	N	30
M2066	1.0	N	N	15	300	50	50	N	<20	150	30	N	20
M2067	2.0	N	N	50	300	70	50	N	<20	150	15	N	20
M2068	1.5	N	N	50	500	100	100	N	20	150	50	N	30
M2069	<1.0	N	N	70	700	150	50	N	<20	150	10	N	30
M2070	1.5	N	N	30	500	70	30	N	<20	150	30	N	15
M2071	<1.0	N	N	15	200	30	<20	N	<20	100	<10	N	20
M2072	<1.0	N	N	50	700	70	30	N	N	150	10	N	20
M2073	<1.0	N	N	50	700	150	30	N	<20	150	10	N	30
M2074	1.5	N	N	20	500	100	100	N	<20	30	70	N	30
M2075	2.0	N	N	50	500	150	70	N	20	200	50	N	30
M2076	<1.0	N	N	70	1,500	150	20	N	<20	300	15	N	30
M2077	3.0	N	N	10	70	30	70	N	20	30	50	N	7
M2078	1.5	N	N	20	200	70	70	N	20	100	30	N	15
M2079	2.0	N	N	15	200	70	70	N	<20	100	30	N	15
M2080	3.0	N	N	30	300	70	70	N	<20	150	15	N	20
M2081	3.0	N	N	20	200	30	<20	N	N	100	<10	N	15
M2082	2.0	N	N	20	500	70	50	N	<20	150	20	N	20
M2083	<1.0	N	N	20	150	100	30	N	<20	70	20	N	20
M2084	<1.0	N	N	70	700	150	20	N	<20	150	30	N	20
M2085	1.0	N	N	20	500	70	50	N	<20	70	20	N	20
M2086	N	N	N	70	150	150	<20	N	N	100	15	N	20
M2087	N	N	N	70	150	150	30	N	N	70	20	N	30
M2088	<1.0	N	N	15	150	50	30	N	N	30	20	N	15
M2089	<1.0	N	N	15	200	50	30	N	N	50	20	N	20
M2090	<1.0	N	N	20	500	100	30	N	N	70	50	N	15
M2091	<1.0	N	N	20	150	100	30	N	N	50	30	N	15

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
M2047	N	300	200	N	100	N	300	N
M2048	N	300	100	N	50	N	100	N
M2049	10	200	150	N	50	N	70	N
M2050	<10	700	300	N	30	N	100	N
M2051	N	1,000	200	N	30	N	100	N
M2052	N	200	300	N	200	200	>1,000	N
M2053	N	200	150	N	30	N	100	N
M2054	<10	200	300	N	20	<200	30	N
M2055	<10	300	300	N	50	N	150	N
M2056	N	300	300	N	70	N	150	N
M2057	N	200	300	N	50	N	150	N
M2058	N	200	300	N	50	N	200	N
M2059	N	<100	300	N	150	N	300	N
M2060	N	100	100	N	70	N	300	N
M2061	N	500	200	N	70	N	300	N
M2062	N	700	200	N	30	N	150	N
M2063	N	700	200	N	100	N	300	N
M2064	15	300	200	N	150	N	700	N
M2065	<10	700	200	N	30	N	70	N
M2066	N	200	300	N	150	N	500	N
M2067	N	700	150	N	50	N	100	N
M2068	N	300	300	N	150	N	1,000	N
M2069	N	700	200	N	30	N	100	N
M2070	<10	1,000	150	N	70	N	200	N
M2071	N	200	100	N	15	N	150	N
M2072	N	700	150	N	20	N	70	N
M2073	N	500	300	N	30	N	100	N
M2074	20	<100	200	N	200	200	>1,000	N
M2075	10	700	200	N	200	<200	1,000	N
M2076	N	500	300	N	200	N	300	N
M2077	<10	N	50	N	150	N	500	N
M2078	N	200	200	N	150	N	300	N
M2079	10	200	200	N	150	<200	500	N
M2080	<10	700	200	N	70	N	150	N
M2081	N	200	100	N	50	N	100	N
M2082	N	500	200	N	150	N	300	N
M2083	N	300	300	N	30	N	100	N
M2084	10	<100	300	N	100	N	200	N
M2085	N	300	200	N	50	N	150	N
M2086	N	<100	1,000	N	30	300	50	N
M2087	N	200	300	N	30	N	50	N
M2088	N	200	100	N	30	N	300	N
M2089	N	300	100	N	20	N	200	N
M2090	<10	200	200	N	20	N	300	N
M2091	N	300	200	N	20	<200	100	N

Sample	Latitude	Longitude	Fe-pct. %	Mg-pct. %	Ca-pct. %	Ti-pct. %	Mn-ppm ppm	Ag-ppm ppm	As-ppm ppm	Au-ppm ppm	B-ppm ppm	Ba-ppm ppm
M2092	34 14 30	111 33 7	7.0	2.00	7.0	.70	1,000	N	N	N	20	700
M2093	34 14 38	111 33 21	7.0	3.00	7.0	.70	1,000	N	N	N	70	1,000
M2094	34 14 37	111 33 37	7.0	3.00	7.0	.70	1,500	N	N	N	50	700
M2095	34 14 25	111 33 46	7.0	2.00	7.0	.50	1,000	N	N	N	150	1,000
M2096	34 14 49	111 34 21	5.0	3.00	7.0	1.00	1,000	N	N	N	30	1,000
M2097	34 12 55	111 30 55	7.0	1.00	7.0	.30	1,500	N	N	N	100	700
M2098	34 11 39	111 41 25	7.0	1.50	3.0	.70	1,000	N	N	N	100	700
M2099	34 14 18	111 31 35	7.0	2.00	7.0	.50	1,000	N	N	N	30	700
M2100	34 14 15	111 31 29	7.0	2.00	7.0	.50	1,000	N	N	N	50	700
M2101	34 13 43	111 30 29	5.0	1.00	7.0	.30	1,000	N	N	N	200	700
M2102	34 12 49	111 29 1	7.0	5.00	5.0	.30	1,500	N	N	N	70	500
M2103	34 14 39	111 34 55	7.0	1.50	3.0	.70	1,000	N	N	N	300	1,000
M2104	34 13 14	111 31 58	7.0	1.50	2.0	.50	1,000	N	N	N	200	1,500
M2105	34 13 18	111 31 42	7.0	1.50	7.0	.50	1,500	N	N	N	100	700
M2106	34 12 43	111 30 15	7.0	2.00	7.0	.30	1,500	N	N	N	100	700
M2107	34 14 5	111 29 6	>20.0	.50	5.0	1.00	1,500	<.5	N	N	100	500
M2108	34 14 22	111 29 4	10.0	2.00	10.0	1.00	1,000	N	N	N	50	700
M2109	34 15 1	111 28 47	5.0	2.00	10.0	.70	1,000	N	N	N	30	700
M2110	34 15 6	111 28 44	7.0	2.00	10.0	.70	700	N	N	N	100	700
M2111	34 15 35	111 28 53	5.0	1.50	7.0	.50	1,000	N	N	N	20	300
M2112	34 16 16	111 27 46	5.0	2.00	7.0	.50	1,000	N	N	N	100	700
M2113	34 16 57	111 27 48	7.0	2.00	5.0	.70	1,000	N	N	N	150	700
M2114	34 15 32	111 37 1	7.0	1.50	1.0	.70	1,500	N	N	N	200	1,500
M2115	34 15 37	111 36 51	7.0	3.00	10.0	.50	1,000	N	N	N	200	1,500
M2116	34 15 31	111 35 54	7.0	3.00	5.0	.70	1,500	N	N	N	50	1,000
M2117	34 15 15	111 36 0	10.0	3.00	7.0	1.00	1,500	N	N	N	150	700
M2118	34 15 58	111 36 23	7.0	3.00	7.0	.50	700	N	N	N	20	300
M2119	34 16 13	111 36 6	5.0	3.00	3.0	.70	1,000	N	N	N	30	500
M2120	34 16 33	111 35 13	5.0	2.00	2.0	.30	1,000	N	N	N	20	300
M2121	34 16 22	111 35 9	5.0	3.00	10.0	.50	1,000	N	N	N	20	700
M2122	34 16 30	111 34 31	7.0	3.00	7.0	.70	1,000	N	N	N	20	700
M2123	34 16 35	111 33 53	3.0	1.50	3.0	.50	700	N	N	N	<10	300
M2124	34 16 42	111 32 44	7.0	3.00	7.0	1.00	1,000	N	N	N	50	1,000
M2125	34 16 55	111 32 16	10.0	3.00	7.0	.70	1,500	N	N	N	50	1,500
M2126	34 16 25	111 32 16	3.0	1.50	7.0	.50	1,000	N	N	N	100	700
M2127	34 17 54	111 31 55	5.0	1.50	2.0	.70	1,000	N	N	N	30	700
M2128	34 18 22	111 32 42	7.0	1.50	3.0	.70	1,500	N	N	N	100	1,000
M2129	34 19 15	111 32 37	7.0	3.00	2.0	.50	1,500	N	N	N	50	1,000
M2130	34 20 1	111 33 10	7.0	2.00	3.0	.70	1,500	N	N	N	50	1,500
M2131	34 20 0	111 33 14	7.0	3.00	2.0	.50	2,000	N	N	N	70	700
M2132	34 20 49	111 32 4	7.0	2.00	2.0	.70	1,500	N	N	N	70	1,000
M2133	34 19 57	111 31 52	5.0	1.00	1.5	.30	1,000	N	N	N	15	500
M2134	34 19 56	111 31 45	7.0	3.00	5.0	.70	1,000	N	N	N	50	1,500
M2135	34 19 18	111 31 44	7.0	2.00	7.0	.70	1,500	N	N	N	70	1,500
M2136	34 19 4	111 30 31	7.0	3.00	3.0	.70	1,000	N	N	N	70	700

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	Sc-ppm S
MZ022	N	N	N	30	1,000	50	30	N	<20	100	10	N	50
MZ093	<1.0	N	N	50	1,000	70	50	N	<20	150	20	N	30
MZ094	N	N	N	70	1,500	100	20	N	<20	150	10	N	30
MZ095	<1.0	N	N	50	500	70	30	N	<20	150	20	N	15
MZ096	<1.0	N	N	70	1,500	100	50	N	20	150	10	N	50
MZ097	<1.0	N	N	20	150	100	30	N	<20	20	30	N	30
MZ098	1.0	N	N	20	200	70	50	N	<20	100	30	N	20
MZ099	<1.0	N	N	30	700	50	30	N	<20	100	15	N	30
MZ100	<1.0	N	N	30	500	70	50	N	<20	100	15	N	20
MZ101	<1.0	N	N	20	150	30	30	N	<20	50	20	N	20
MZ102	N	N	N	70	>5,000	70	N	N	N	1,500	N	N	30
MZ103	<1.0	N	N	30	700	150	50	N	N	100	150	N	20
MZ104	<1.0	N	N	30	700	200	20	N	<20	70	30	N	30
MZ105	<1.0	N	N	20	700	150	50	N	<20	50	30	N	20
MZ106	<1.0	N	N	30	100	150	20	N	N	30	30	N	30
MZ107	10.0	N	N	70	1,500	70	<20	N	<20	150	N	N	15
MZ108	N	N	N	50	700	70	20	N	<20	100	15	N	20
MZ109	<1.0	N	N	50	700	100	50	N	<20	150	10	N	20
MZ110	<1.0	N	N	30	500	50	70	N	<20	100	15	N	20
MZ111	<1.0	N	N	30	500	50	30	N	N	150	<10	N	15
MZ112	<1.0	N	N	15	150	30	70	N	N	70	20	N	10
MZ113	<1.0	N	N	15	200	50	30	N	<20	100	30	N	15
MZ114	<1.0	N	N	20	150	70	30	N	<20	50	20	N	20
MZ115	<1.0	N	N	70	500	70	50	N	<20	150	15	N	20
MZ116	<1.0	N	N	70	1,000	150	30	N	20	150	30	N	30
MZ117	N	N	N	70	700	100	<20	N	<20	150	20	N	30
MZ118	N	N	N	20	700	70	<20	N	N	150	<10	N	30
MZ119	<1.0	N	N	50	1,000	70	70	N	<20	150	10	N	30
MZ120	<1.0	N	N	70	700	70	70	N	<20	150	10	N	20
MZ121	<1.0	N	N	30	700	70	30	N	<20	100	10	N	20
MZ122	<1.0	N	N	50	1,000	70	50	N	<20	200	10	N	30
MZ123	<1.0	N	N	15	200	30	<20	N	N	70	<10	N	20
MZ124	<1.0	N	N	70	700	150	30	N	<20	300	<10	N	30
MZ125	<1.0	N	N	70	1,000	100	70	N	20	150	10	N	30
MZ126	1.0	N	N	20	500	70	70	N	<20	100	20	N	20
MZ127	<1.0	N	N	20	200	50	100	N	<20	100	10	N	20
MZ128	<1.0	N	N	70	700	70	70	N	<20	150	20	N	30
MZ129	<1.0	N	N	70	1,500	100	50	N	<20	300	30	N	30
MZ130	<1.0	N	N	70	700	150	50	N	20	150	20	N	30
MZ131	<1.0	N	N	70	1,000	70	50	N	<20	300	20	N	20
MZ132	<1.0	N	N	50	700	100	70	N	20	150	20	N	30
MZ133	<1.0	N	N	15	200	30	<20	N	N	70	<10	N	15
MZ134	<1.0	N	N	70	700	150	30	N	<20	150	10	N	30
MZ135	<1.0	N	N	70	1,000	150	50	N	20	150	20	N	30
MZ136	<1.0	N	N	70	1,000	70	30	N	20	200	10	N	30

Sample	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
M2092	N	300	300	N	20	N	150	N
M2093	10	300	200	N	30	N	300	N
M2094	10	300	300	N	30	N	70	N
M2095	N	700	200	N	20	N	150	N
M2096	N	500	300	N	30	N	150	N
M2097	N	500	300	N	70	N	200	N
M2098	<10	200	200	N	70	N	200	N
M2099	N	500	200	N	20	N	70	N
M2100	N	500	300	N	30	N	100	N
M2101	N	200	200	N	30	N	300	N
M2102	N	200	150	N	15	N	70	N
M2103	30	300	300	N	30	N	300	N
M2104	N	300	300	N	30	N	150	N
M2105	N	200	300	N	30	N	300	N
M2106	N	200	300	N	20	N	30	N
M2107	N	<100	700	N	30	200	700	N
M2108	N	500	500	N	20	N	150	N
M2109	<10	500	200	N	30	N	300	N
M2110	N	200	300	N	30	N	150	N
M2111	N	300	200	N	20	N	50	N
M2112	N	200	200	N	50	N	200	N
M2113	<10	200	200	N	70	N	500	N
M2114	N	100	300	N	50	N	200	N
M2115	N	300	300	N	30	N	100	N
M2116	N	700	300	N	30	N	100	N
M2117	N	500	300	N	30	N	70	N
M2118	N	300	200	N	20	N	50	N
M2119	10	200	200	N	20	N	100	N
M2120	N	200	200	N	30	N	50	N
M2121	N	700	200	N	20	N	50	N
M2122	N	500	150	N	30	N	70	N
M2123	N	200	100	N	20	N	30	N
M2124	<10	1,000	200	N	30	N	100	N
M2125	<10	700	300	N	30	N	100	N
M2126	N	200	200	N	50	N	500	N
M2127	N	200	150	N	30	N	70	N
M2128	N	200	300	N	50	N	200	N
M2129	15	200	200	N	50	N	200	N
M2130	N	700	200	N	50	N	200	N
M2131	N	300	200	N	50	N	300	N
M2132	N	200	150	N	50	N	300	N
M2133	N	200	150	N	20	N	50	N
M2134	N	700	300	N	50	N	150	N
M2135	N	700	300	N	50	N	200	N
M2136	N	300	300	N	30	N	200	N

Sample	Latitude	Longitude	Fe-ppt. s	Mg-ppt. s	Ca-ppt. s	Ti-pct. s	Mn-pdm s	Ag-pdm s	As-pdm s	Au-pdm s	B-pdm s	Ba-pdm s
M2137	34 15 33	111 30 20	7.0	3.00	7.0	.70	1,500	N	N	N	50	1,500
M2138	34 16 33	111 29 14	7.0	2.00	7.0	.70	1,000	N	N	N	30	700
M2139	34 16 43	111 29 30	7.0	2.00	7.0	.50	1,500	N	N	N	50	1,000
M2140	34 17 16	111 30 15	10.0	3.00	7.0	.70	1,500	N	N	N	70	1,000
M2141	34 17 32	111 30 42	15.0	3.00	7.0	.70	1,500	N	N	N	50	700
M2142	34 18 29	111 30 48	7.0	3.00	5.0	.70	1,000	N	N	N	50	1,000
M2143	34 18 25	111 29 36	7.0	3.00	5.0	.70	1,000	N	N	N	100	1,000
M2144	34 17 57	111 29 11	7.0	2.00	5.0	.50	1,000	N	N	N	50	700
M2145	34 18 41	111 28 22	7.0	3.00	7.0	.70	1,000	N	N	N	30	700
M2146	34 18 40	111 28 25	10.0	3.00	7.0	.70	1,000	N	N	N	70	700
M2147	34 16 3	111 28 43	7.0	3.00	7.0	.70	1,500	N	N	N	30	700
M2148	34 19 38	111 28 8	10.0	3.00	7.0	.70	1,500	N	N	N	50	1,500
M2149	34 17 35	111 28 31	2.0	2.00	7.0	.30	1,000	N	N	N	70	500
M2150	34 17 55	111 28 36	7.0	2.00	7.0	.50	1,000	N	N	N	100	500
M2151	34 12 17	111 27 57	5.0	1.50	10.0	.30	1,000	N	N	N	100	700
M2152	34 17 33	111 27 4	5.0	1.50	7.0	.30	700	N	N	N	70	500
M2152	34 17 33	111 27 4	7.0	5.00	5.0	.30	1,000	N	N	N	50	700
M2154	34 11 57	111 27 38	5.0	1.00	10.0	.50	700	N	N	N	70	700
M2155	34 11 24	111 28 52	7.0	2.00	3.0	.30	1,500	N	N	N	100	1,000
M2156	34 17 0	111 35 19	7.0	3.00	5.0	.50	1,000	N	N	N	50	500
M2157	34 17 35	111 34 59	5.0	1.50	2.0	.50	700	N	N	N	20	700
M2158	34 18 14	111 35 23	7.0	3.00	3.0	.70	1,500	N	N	N	100	1,000
M2159	34 17 32	111 35 4	7.0	3.00	3.0	.50	1,500	N	N	N	70	1,000
M2160	34 19 9	111 35 43	7.0	3.00	7.0	.50	1,500	N	N	N	70	1,500
M2161	34 18 22	111 35 6	7.0	3.00	5.0	.70	1,500	N	N	N	50	700
M2162	34 22 14	111 34 55	5.0	1.50	1.5	.50	1,000	N	N	N	30	500
M2163	34 17 57	111 36 26	5.0	1.50	2.0	.70	1,500	N	N	N	70	1,000
M2164	34 22 10	111 34 53	7.0	3.00	5.0	.50	1,500	N	N	N	70	1,500
M2165	34 20 56	111 36 32	7.0	1.50	2.0	.70	1,500	N	N	N	70	1,000
M2166	34 21 52	111 36 30	2.0	1.50	1.5	.30	700	N	N	N	20	700
M2167	34 22 5	111 36 2	7.0	3.00	7.0	.70	1,000	N	N	N	20	1,000
M2168	34 15 7	111 44 38	7.0	2.00	3.0	.70	700	N	N	N	50	700
M2169	34 19 19	111 36 41	7.0	3.00	5.0	.50	1,500	N	N	N	20	700
M2170	34 12 5	111 29 44	5.0	1.00	10.0	.20	1,000	N	N	N	50	700
M2171	34 16 8	111 44 35	7.0	3.00	5.0	.70	1,000	N	N	N	70	700
M2172	34 12 3	111 29 49	7.0	1.50	1.5	.30	1,500	N	N	N	100	700
M2173	34 10 52	111 31 5	5.0	.70	1.0	.30	1,000	N	N	N	100	1,000
M2174	34 11 14	111 32 37	7.0	1.00	3.0	.30	1,500	N	N	N	50	700
M2175	34 11 35	111 33 53	5.0	1.00	.7	.30	1,500	N	N	N	300	1,500
M2176	34 11 36	111 34 50	7.0	1.50	1.5	.70	1,500	N	N	N	200	700
M2177	34 10 23	111 35 8	5.0	.50	.5	.30	1,000	N	N	N	100	700
M2178	34 10 48	111 35 21	7.0	1.00	.7	1.00	1,000	N	N	N	200	500
M2179	34 9 29	111 34 30	3.0	.30	.2	.30	1,000	N	N	N	70	700
M2180	34 8 57	111 34 40	5.0	1.00	.7	.30	1,000	N	N	N	100	700
M2181	34 8 34	111 33 32	3.0	.50	.3	.30	700	.5	N	N	50	700

Sample	Be-dpm s	Bi-dpm s	Cd-dpm s	Co-dpm s	Cr-dpm s	Cu-dpm s	La-dpm s	Mo-dpm s	Nb-dpm s	Ni-dpm s	Pb-dpm s	Sb-dpm s	Sc-dpm s
M2137	<1.0	N	N	50	700	100	70	N	20	150	15	N	30
M2138	<1.0	N	N	30	700	100	30	N	N	150	10	N	30
M2139	<1.0	N	N	70	1,000	100	50	N	<20	150	20	N	30
M2140	N	N	N	70	1,000	150	50	N	20	200	15	N	30
M2141	N	N	N	70	2,000	150	20	N	20	300	10	N	30
M2142	<1.0	N	N	70	1,000	100	50	N	20	300	15	N	30
M2143	<1.0	N	N	70	1,000	100	30	N	20	200	10	N	30
M2144	<1.0	N	N	70	700	100	50	N	<20	150	10	N	30
M2145	<1.0	N	N	70	2,000	100	50	N	20	200	10	N	50
M2146	<1.0	N	N	70	1,500	100	50	N	20	150	20	N	50
M2147	<1.0	N	N	70	700	100	50	N	<20	200	10	N	30
M2148	N	N	N	70	1,500	150	30	N	20	200	10	N	30
M2149	1.0	N	N	10	150	30	<20	N	N	50	20	N	10
M2150	<1.0	N	N	70	700	100	50	N	<20	150	15	N	20
M2151	<1.0	N	N	20	1,000	50	30	N	N	100	20	N	15
M2152	<1.0	N	N	15	150	20	30	N	N	70	15	N	10
M2152	N	N	N	70	3,000	100	N	N	N	1,000	<10	N	30
M2154	<1.0	N	N	20	500	50	50	N	<20	100	15	N	15
M2155	<1.0	N	N	30	1,000	70	50	N	<20	150	20	N	20
M2156	<1.0	N	N	50	1,000	70	20	N	<20	200	15	N	30
M2157	<1.0	N	N	15	200	30	<20	N	N	100	10	N	20
M2158	<1.0	N	N	70	1,000	100	30	N	<20	200	30	N	30
M2159	<1.0	N	N	70	700	100	50	N	<20	150	20	N	30
M2160	<1.0	N	N	70	1,500	100	50	N	<20	150	15	N	50
M2161	<1.0	N	N	70	1,000	100	30	N	<20	150	15	N	30
M2162	<1.0	N	N	20	300	30	<20	N	<20	150	10	N	15
M2163	<1.0	N	N	50	1,500	50	70	N	<20	150	20	N	20
M2164	<1.0	N	N	70	700	100	50	N	<20	150	20	N	30
M2165	<1.0	N	N	50	700	70	70	N	<20	150	20	N	20
M2166	<1.0	N	N	20	200	70	<20	N	<20	100	15	N	15
M2167	<1.0	N	N	50	1,000	70	30	N	<20	150	20	N	30
M2168	<1.0	N	N	70	700	100	30	N	<20	150	15	N	30
M2169	<1.0	N	N	50	700	70	50	N	<20	150	10	N	30
M2170	N	N	N	15	70	70	<20	N	N	15	20	N	15
M2171	<1.0	N	N	50	700	150	30	N	<20	150	10	N	30
M2172	<1.0	N	N	30	100	150	30	N	N	30	20	N	30
M2173	1.0	N	N	15	70	30	70	N	<20	15	30	N	10
M2174	<1.0	N	N	20	150	150	30	N	N	50	20	N	30
M2175	<1.0	N	N	15	700	70	50	N	N	30	30	N	15
M2176	<1.0	N	N	50	300	100	30	N	<20	100	20	N	20
M2177	2.0	N	N	10	50	150	100	N	<20	20	30	N	10
M2178	1.0	N	N	30	700	70	70	N	30	150	30	N	15
M2179	5.0	N	N	5	30	70	150	N	<20	<5	50	N	10
M2180	5.0	N	N	10	100	50	100	N	20	20	50	N	10
M2181	3.0	N	N	5	50	15	<20	N	<20	5	30	N	7

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
M2137	N	300	200	N	30	N	100	N
M2138	<10	300	300	N	30	N	100	N
M2139	10	200	200	N	30	N	150	N
M2140	<10	700	300	N	30	N	100	N
M2141	N	500	300	N	30	<200	100	N
M2142	N	500	300	N	50	N	200	N
M2143	<10	700	300	N	30	N	150	N
M2144	<10	200	200	N	30	N	150	N
M2145	N	300	300	N	30	N	150	N
M2146	N	300	300	N	50	N	200	N
M2147	N	700	300	N	20	N	100	N
M2148	<10	700	300	N	50	N	100	N
M2149	N	100	50	N	30	N	100	N
M2150	<10	300	300	N	50	N	150	N
M2151	N	200	200	N	30	N	150	N
M2152	N	<100	100	N	30	N	200	N
M2152	30	100	150	N	30	N	50	N
M2154	N	100	150	N	30	N	200	N
M2155	N	200	200	N	30	N	100	N
M2156	N	300	200	N	20	N	150	N
M2157	N	200	150	N	20	N	70	N
M2158	N	200	300	N	50	N	200	N
M2159	10	200	200	N	30	N	200	N
M2160	N	500	300	N	30	N	100	N
M2161	N	500	300	N	30	N	150	N
M2162	N	200	150	N	20	N	500	N
M2163	15	200	150	N	50	N	300	N
M2164	N	500	300	N	50	N	200	N
M2165	N	200	200	N	50	N	300	N
M2166	N	200	100	N	20	N	100	N
M2167	N	500	200	N	30	N	150	N
M2168	<10	200	200	N	30	N	100	N
M2169	N	500	200	N	30	N	100	N
M2170	N	<100	150	N	10	N	30	N
M2171	N	700	300	N	30	N	70	N
M2172	N	200	200	N	20	N	50	N
M2173	N	100	100	N	100	N	700	N
M2174	10	300	300	N	50	N	150	N
M2175	<10	200	150	N	200	N	100	N
M2176	N	200	200	N	30	N	150	N
M2177	N	<100	70	N	100	N	200	N
M2178	20	100	300	N	200	N	1,000	N
M2179	15	N	30	N	200	N	1,000	N
M2180	20	N	50	N	200	N	700	N
M2181	10	N	30	N	100	N	700	N

Sample	Latitude	Longitude	Fe-pct. %	Mg-pct. %	Ca-pct. %	Ti-pct. %	Mn-pptm %	Ag-pptm %	As-pptm %	Au-pptm %	B-pptm %	Ba-pptm %
M2182	34 7 9	111 43 22	7.0	2.00	7.0	.70	1,500	N	N	N	100	1,000
M2183	34 7 10	111 42 41	5.0	2.00	10.0	.70	1,000	7.0	N	N	20	500
M2184	34 6 37	111 43 19	7.0	2.00	2.0	1.00	1,500	N	N	N	50	700
M2185	34 6 32	111 42 8	10.0	3.00	7.0	.70	1,000	N	N	N	70	700
M2186	34 6 19	111 41 36	7.0	3.00	10.0	1.00	1,000	N	N	N	50	1,000
M2187	34 6 14	111 40 45	7.0	1.50	7.0	.70	1,000	N	N	N	50	700
M2188	34 6 24	111 40 52	7.0	2.00	7.0	.70	1,000	N	N	N	70	700
M2189	34 6 0	111 40 5	7.0	1.50	7.0	.50	1,000	N	N	N	30	700
M2190	34 7 6	111 39 11	7.0	3.00	5.0	.50	1,500	<.5	N	N	100	1,500
M2191	34 8 8	111 33 4	3.0	.70	.7	.30	1,000	N	N	N	50	700
M2192	34 8 14	111 33 7	5.0	.70	.5	.30	700	N	N	N	70	1,000
M2193	34 8 14	111 33 33	7.0	2.00	3.0	1.00	1,500	N	N	N	70	1,000
M2194	34 9 51	111 33 8	5.0	.50	.5	.30	700	N	N	N	30	700
M2195	34 8 21	111 34 17	7.0	3.00	5.0	.70	1,500	N	N	N	70	1,500
M2196	34 8 47	111 31 20	5.0	.50	.3	.30	1,000	N	N	N	200	1,000
M2197	34 8 41	111 31 17	5.0	.70	.5	.30	1,000	N	N	N	70	1,000
M2198	34 8 37	111 31 16	2.0	.70	.5	.30	1,000	N	N	N	100	1,500
M2199	34 9 29	111 32 34	3.0	.70	.5	.30	700	N	N	N	50	1,500
M2200	34 10 9	111 33 32	3.0	1.00	.7	.30	1,000	N	N	N	100	1,000
M2201	34 12 1	111 36 36	5.0	1.00	1.0	.50	1,000	N	N	N	100	700
M2202	34 12 5	111 36 41	10.0	1.50	1.5	1.00	1,500	N	N	N	100	500
M2203	34 5 26	111 43 14	15.0	1.50	3.0	1.00	700	N	N	N	100	700
M2204	34 5 48	111 43 50	7.0	3.00	3.0	.50	1,500	N	N	N	50	1,000
M2205	34 6 18	111 44 16	7.0	3.00	3.0	.70	1,500	N	N	N	70	1,500
M2206	34 6 55	111 44 42	7.0	3.00	7.0	1.00	1,500	N	N	N	50	1,000
M2207	34 6 36	111 45 7	10.0	1.50	3.0	.70	1,000	N	N	N	50	700
M2208	34 7 38	111 45 44	7.0	3.00	7.0	1.00	1,000	N	N	N	50	1,500
M2209	34 7 40	111 46 3	15.0	1.50	2.0	.50	700	N	N	N	100	1,000
M2210	34 7 36	111 46 3	5.0	3.00	7.0	.70	1,500	N	N	N	50	1,000
M2211	34 11 2	111 45 28	7.0	3.00	7.0	1.00	1,000	N	N	N	30	1,000
M2212	34 11 19	111 45 15	7.0	3.00	5.0	.70	1,000	N	N	N	50	700
M2213	34 7 2	111 38 27	5.0	.70	.7	.50	1,000	N	N	N	100	700
M2214	34 7 6	111 38 35	5.0	.70	.7	.50	1,000	N	N	N	70	700
M2215	34 6 21	111 39 31	5.0	2.00	3.0	.70	1,500	N	N	N	100	1,000
M2216	34 6 17	111 39 9	7.0	3.00	7.0	1.00	1,500	N	N	N	30	700
M2217	34 6 6	111 38 42	7.0	3.00	7.0	.70	1,000	N	N	N	50	1,000
M2218	34 6 11	111 37 39	7.0	3.00	7.0	1.00	1,000	N	N	N	30	1,500
M2219	34 6 16	111 37 41	7.0	3.00	7.0	.70	1,500	N	N	N	50	1,500
M2220	34 4 44	111 38 2	7.0	3.00	7.0	1.00	1,000	N	N	N	70	1,500
M2221	34 4 38	111 38 9	7.0	3.00	7.0	.70	1,000	N	N	N	50	1,000
M2222	34 4 55	111 38 13	10.0	3.00	7.0	.70	1,000	N	N	N	70	700
M2223	34 5 54	111 39 40	5.0	1.50	7.0	.70	1,000	N	N	N	50	700
M2224	34 5 12	111 41 13	15.0	1.50	5.0	.70	1,000	N	N	N	70	700
M2225	34 4 2	111 41 42	5.0	3.00	7.0	.70	1,000	N	N	N	20	700
M2226	34 4 10	111 41 39	7.0	3.00	7.0	1.00	1,000	N	N	N	100	500

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	Sc-ppm S
MZ182	1.0	N	N	50	500	100	100	N	<20	150	20	N	30
MZ183	<1.0	N	N	30	700	70	30	N	N	100	20	N	20
MZ184	1.5	N	N	50	500	150	100	N	<20	150	30	N	20
MZ185	<1.0	N	N	70	1,000	100	20	N	N	150	20	N	70
MZ186	1.0	N	N	70	700	100	50	N	<20	150	20	N	30
MZ187	1.0	N	N	50	500	70	50	N	<20	150	15	N	30
MZ188	2.0	N	N	30	500	150	30	N	<20	150	20	N	20
MZ189	1.5	N	N	20	500	100	50	N	<20	70	15	N	20
MZ190	1.0	N	N	30	700	70	70	N	20	150	20	N	20
MZ191	5.0	N	N	10	50	30	100	N	20	10	100	N	10
MZ192	3.0	N	N	10	50	50	100	N	<20	15	70	N	10
MZ193	1.0	N	N	70	500	150	70	N	<20	150	30	N	30
MZ194	3.0	N	N	<5	50	20	70	N	20	5	30	N	7
MZ195	1.0	N	N	50	500	100	100	N	20	150	30	N	30
MZ196	2.0	N	N	7	50	30	100	N	20	<5	30	N	10
MZ197	2.0	N	N	10	150	20	70	N	<20	15	30	N	7
MZ198	2.0	N	N	5	20	70	<20	N	<20	10	70	N	5
MZ199	2.0	N	N	5	50	20	70	N	<20	5	30	N	7
MZ200	5.0	N	N	7	100	20	100	N	30	20	50	N	7
MZ201	1.5	N	N	15	100	30	50	N	<20	30	30	N	15
MZ202	<1.0	N	N	70	150	150	30	N	<20	100	20	N	30
MZ203	1.0	N	N	70	2,000	150	20	N	<20	300	30	N	30
MZ204	<1.0	N	N	70	700	150	30	N	<20	150	20	N	30
MZ205	<1.0	N	N	70	700	150	50	N	<20	200	30	N	20
MZ206	<1.0	N	N	70	1,000	150	30	N	<20	300	20	N	30
MZ207	1.0	N	N	30	150	150	50	N	20	70	20	N	20
MZ208	<1.0	N	N	70	700	200	50	N	<20	200	10	N	30
MZ209	<1.0	N	N	50	700	70	20	N	N	100	15	N	30
MZ210	<1.0	N	N	50	500	150	70	N	<20	150	20	N	20
MZ211	<1.0	N	N	50	700	100	30	N	<20	200	15	N	30
MZ212	<1.0	N	N	50	300	100	50	N	<20	150	15	N	20
MZ213	2.0	N	N	10	150	50	150	N	30	70	30	N	10
MZ214	1.5	N	N	15	150	50	70	N	30	70	30	N	15
MZ215	1.0	N	N	50	500	100	70	N	20	150	20	N	15
MZ216	<1.0	N	N	70	1,000	150	30	N	<20	150	15	N	30
MZ217	1.0	N	N	70	700	150	50	N	<20	150	15	N	30
MZ218	1.0	N	N	70	1,500	200	50	N	<20	300	15	N	50
MZ219	1.0	N	N	70	2,000	150	30	N	20	300	20	N	50
MZ220	<1.0	N	N	70	1,000	200	50	N	20	150	20	N	30
MZ221	<1.0	N	N	50	500	100	50	N	<20	150	20	N	20
MZ222	<1.0	N	N	70	700	200	20	N	<20	150	15	N	30
MZ223	7.0	N	N	15	300	70	50	N	<20	100	15	N	15
MZ224	<1.0	N	N	70	1,000	70	30	N	<20	150	10	N	20
MZ225	<1.0	N	N	20	700	70	70	N	<20	100	10	N	20
MZ226	<1.0	N	N	70	300	100	30	N	<20	150	20	N	30

Sample	Sn-ppm §	Sr-ppm §	V-ppm §	W-ppm §	Y-ppm §	Zn-ppm §	Zr-ppm §	Th-ppm §
MZ182	<10	700	300	N	100	N	500	N
MZ183	N	700	200	N	30	N	50	N
MZ184	10	300	200	N	100	N	500	N
MZ185	10	700	300	N	50	N	300	N
MZ186	N	700	200	N	70	N	150	N
MZ187	N	500	200	N	30	N	100	N
MZ188	N	700	150	N	50	N	70	N
MZ189	<10	300	200	N	50	N	300	N
MZ190	<10	700	150	N	100	N	300	N
MZ191	10	N	50	N	200	<200	1,000	N
MZ192	10	<100	50	N	150	N	700	N
MZ193	N	700	300	N	100	N	300	N
MZ194	10	N	50	N	150	N	1,000	N
MZ195	<10	700	200	N	100	N	300	N
MZ196	100	N	50	N	200	N	>1,000	N
MZ197	N	<100	50	N	70	N	300	N
MZ198	N	N	50	N	100	N	300	N
MZ199	N	N	30	N	200	N	700	N
MZ200	10	N	30	N	150	N	300	N
MZ201	N	200	150	N	100	N	300	N
MZ202	N	200	700	N	70	N	100	N
MZ203	30	500	300	N	200	<200	700	N
MZ204	<10	700	200	N	30	N	200	N
MZ205	N	700	150	N	30	N	150	N
MZ206	N	700	200	N	30	N	100	N
MZ207	N	700	200	N	50	N	150	N
MZ208	<10	700	200	N	30	N	100	N
MZ209	<10	500	300	N	50	N	100	N
MZ210	N	700	150	N	20	N	70	N
MZ211	N	700	200	N	30	N	100	N
MZ212	N	700	200	N	30	N	150	N
MZ213	N	100	70	N	150	N	700	N
MZ214	N	<100	200	N	200	N	500	N
MZ215	<10	700	150	N	100	N	200	N
MZ216	N	700	200	N	30	N	70	N
MZ217	N	700	200	N	30	N	100	N
MZ218	15	700	300	N	30	<200	70	N
MZ219	15	1,000	200	N	20	N	100	N
MZ220	<10	700	200	N	70	N	200	N
MZ221	N	700	150	N	30	N	100	N
MZ222	<10	700	300	N	30	<200	70	N
MZ223	N	700	150	N	20	N	70	N
MZ224	10	500	500	N	30	<200	500	N
MZ225	N	700	200	N	30	N	100	N
MZ226	N	700	500	N	30	N	100	N

MAZATZAL SEDIMENTS--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppt. s	Ag-ppt. s	As-ppt. s	Au-ppt. s	R-ppt. s	Ba-ppt. s
M2227	34 3 41	111 40 53	10.0	3.00	7.0	.10	1,000	N	N	N	30	700
M2228	34 4 18	111 40 0	7.0	2.00	7.0	1.00	1,000	N	N	N	50	700
M2229	34 4 35	111 39 5	7.0	2.00	10.0	.70	1,000	N	N	N	30	700
M2230	34 3 46	111 39 40	7.0	3.00	10.0	.70	1,000	N	N	N	20	700
M2231	34 3 56	111 39 37	7.0	3.00	7.0	1.00	1,000	N	N	N	50	700
M2232	34 3 1	111 39 53	7.0	3.00	7.0	.70	1,000	N	N	N	30	700
M2233	34 3 16	111 42 40	7.0	3.00	7.0	1.00	1,000	N	N	N	70	1,000
M2234	34 2 4	111 41 42	5.0	3.00	7.0	.50	1,000	N	N	N	70	700
M2235	34 1 59	111 40 28	7.0	3.00	7.0	.70	1,500	N	N	N	50	1,000
M2236	34 1 55	111 40 30	7.0	3.00	7.0	1.00	1,000	N	N	N	70	700
M2237	34 0 40	111 40 8	10.0	3.00	5.0	1.00	1,000	N	N	N	50	1,000
M2238	34 1 37	111 38 42	5.0	2.00	5.0	1.00	1,000	N	N	N	30	700
M2239	34 1 47	111 38 30	7.0	2.00	3.0	.70	1,000	N	N	N	50	1,000
M2240	34 2 56	111 37 20	5.0	3.00	10.0	.50	1,000	N	N	N	30	700
M2241	34 3 26	111 36 34	7.0	3.00	5.0	1.00	1,000	N	N	N	50	1,500
M2242	34 3 38	111 36 7	7.0	3.00	5.0	.70	1,000	N	N	N	20	700
M2243	34 3 46	111 36 0	7.0	3.00	7.0	.70	1,000	N	N	N	50	700
M2244	34 4 1	111 35 24	7.0	1.50	2.0	.70	1,000	N	N	N	50	1,000
M2245	34 4 3	111 34 54	5.0	1.00	1.5	.50	1,000	N	N	N	30	700
M2246	34 4 19	111 34 33	7.0	1.50	1.0	1.00	1,000	N	N	N	50	700
M2247	34 4 17	111 34 24	5.0	.70	.5	.30	1,000	N	N	N	30	700
M2248	34 4 11	111 34 6	7.0	1.50	1.5	.70	1,000	N	N	N	50	1,500
M2249	34 4 30	111 33 30	5.0	.70	.5	.50	1,000	N	N	N	50	700
M2250	34 4 47	111 33 15	5.0	.70	.5	.30	1,000	<.5	N	N	50	1,500
M2251	34 4 47	111 33 20	5.0	1.50	1.5	.70	1,500	N	N	N	70	1,500
M2252	34 5 18	111 32 45	7.0	2.00	2.0	1.00	2,000	N	N	N	50	1,500
M2253	34 5 12	111 32 41	5.0	.70	.5	.30	1,500	N	N	N	70	1,000
M2254	34 6 51	111 35 20	7.0	1.50	1.5	.70	1,000	N	N	N	100	1,500
M2255	34 6 54	111 35 26	7.0	1.50	1.5	.70	1,500	N	N	N	70	1,000
M2256	34 6 1	111 36 22	5.0	1.50	1.5	.50	1,000	N	N	N	70	1,000
M2257	34 5 22	111 35 34	7.0	3.00	2.0	.70	1,000	N	N	N	50	1,500
M2258	34 5 25	111 35 33	7.0	2.00	3.0	.70	1,500	N	N	N	50	1,500
M2259	34 5 8	111 36 39	7.0	2.00	3.0	.70	1,500	N	N	N	50	1,500
M2260	34 4 58	111 36 40	7.0	3.00	3.0	.70	1,000	N	N	N	70	1,500
M2261	34 4 47	111 36 56	5.0	2.00	3.0	.50	1,000	N	N	N	30	1,000
M2262	34 10 54	111 38 59	5.0	1.50	1.0	.30	1,000	N	N	N	70	1,000
M2263	34 10 5	111 38 16	5.0	1.00	.5	.50	700	N	N	N	70	300
M2264	34 9 53	111 37 19	7.0	1.50	1.0	.70	1,000	N	N	N	100	700
M2265	34 13 8	111 46 8	7.0	3.00	5.0	.70	1,500	N	N	N	50	1,000
M2266	34 13 8	111 46 3	7.0	3.00	5.0	1.00	1,000	N	N	N	70	1,000
M2267	34 12 23	111 46 4	7.0	3.00	5.0	.70	1,500	N	N	N	70	1,500
M2268	34 5 46	111 31 53	7.0	1.00	1.0	.50	1,500	N	N	N	70	1,500
M2269	34 6 12	111 31 50	7.0	2.00	1.5	.70	1,000	N	N	N	50	1,500
M2270	34 2 51	111 32 51	5.0	1.50	1.0	.30	2,000	N	N	N	70	1,500
M2271	34 3 11	111 32 48	7.0	1.00	1.5	.50	2,000	N	N	N	100	1,500

Sample	Be-dpm s	Bi-dpm s	Cd-dpm s	Co-dpm s	Cr-dpm s	Cu-dpm s	La-dpm s	Mo-dpm s	Nb-dpm s	Ni-dpm s	Pb-dpm s	Sb-dpm s	Sc-dpm s
M2227	<1.0	N	N	70	1,500	150	30	N	<20	150	10	N	30
M2228	<1.0	N	N	70	700	150	30	N	<20	150	20	N	30
M2229	<1.0	N	N	50	700	70	30	N	<20	150	15	N	30
M2230	<1.0	N	N	50	700	70	30	N	<20	150	<10	N	20
M2231	<1.0	N	N	70	700	100	50	N	<20	150	15	N	30
M2232	<1.0	N	N	50	700	150	30	N	<20	150	15	N	30
M2233	1.0	N	N	70	1,500	100	30	N	<20	150	20	N	30
M2234	1.0	N	N	20	200	50	50	N	<20	100	15	N	15
M2235	<1.0	N	N	70	1,000	150	30	N	<20	150	10	N	30
M2236	<1.0	N	N	70	1,000	150	30	N	<20	200	10	N	30
M2237	<1.0	N	N	50	700	100	50	N	<20	150	20	N	30
M2238	<1.0	N	N	50	700	100	30	N	<20	150	15	N	30
M2239	<1.0	N	N	50	700	100	50	N	<20	150	10	N	20
M2240	<1.0	N	N	30	200	70	50	N	<20	100	10	N	15
M2241	<1.0	N	N	70	700	150	70	N	20	200	10	N	30
M2242	<1.0	N	N	30	500	100	70	N	<20	150	10	N	20
M2243	1.0	N	N	50	700	150	70	N	<20	150	30	N	30
M2244	1.5	N	N	30	500	100	100	N	<20	150	30	N	15
M2245	<1.0	N	N	30	200	70	70	N	<20	100	<10	N	15
M2246	5.0	N	N	20	150	100	150	N	<20	150	50	N	15
M2247	7.0	N	N	10	50	50	100	N	<20	15	30	N	10
M2248	3.0	N	N	50	300	150	70	N	<20	150	30	N	30
M2249	2.0	N	N	10	100	30	70	N	<20	30	30	N	10
M2250	5.0	N	N	15	50	30	100	N	<20	15	50	N	10
M2251	3.0	N	N	20	200	70	70	N	20	100	50	N	30
M2252	1.0	N	N	50	700	100	100	N	20	150	30	N	20
M2253	2.0	N	N	10	100	50	100	N	<20	20	30	N	10
M2254	1.5	N	N	20	500	100	150	N	<20	150	50	N	15
M2255	1.0	N	N	70	700	150	100	N	20	150	30	N	30
M2256	1.5	N	N	20	200	70	150	N	20	100	30	N	15
M2257	1.0	N	N	70	700	150	70	N	<20	200	15	N	20
M2258	1.0	N	N	50	700	100	50	N	<20	150	20	N	15
M2259	1.0	N	N	70	700	100	70	N	20	150	15	N	20
M2260	1.0	N	N	70	500	150	70	N	N	150	15	N	30
M2261	<1.0	N	N	30	200	70	70	N	N	150	<10	N	15
M2262	1.0	N	N	10	150	50	70	N	<20	50	30	N	10
M2263	1.5	N	N	10	150	20	70	N	20	50	20	N	7
M2264	1.0	N	N	30	500	70	70	N	20	150	30	N	20
M2265	<1.0	N	N	70	1,000	150	50	N	20	200	10	N	30
M2266	N	N	N	50	1,500	150	30	N	<20	150	<10	N	30
M2267	<1.0	N	N	70	700	150	30	N	<20	200	15	N	20
M2268	1.0	N	N	20	700	50	70	N	<20	150	20	N	15
M2269	3.0	N	N	30	300	100	150	N	20	100	50	N	20
M2270	1.0	N	N	20	150	70	100	N	<20	70	20	N	15
M2271	1.5	N	N	30	500	100	70	N	<20	100	20	N	20

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
M2227	<10	700	300	N	30	<200	150	N
M2228	10	700	300	N	50	N	150	N
M2229	<10	1,000	300	N	30	N	100	N
M2230	N	1,000	300	N	30	N	70	N
M2231	N	1,000	300	N	30	N	100	N
M2232	N	700	200	N	30	N	150	N
M2233	15	1,000	300	N	30	N	100	N
M2234	<10	1,000	150	N	30	N	150	N
M2235	N	1,000	300	N	30	N	100	N
M2236	N	700	300	N	30	N	150	N
M2237	N	700	300	N	30	N	150	N
M2238	10	700	300	N	30	N	100	N
M2239	N	1,000	200	N	20	N	100	N
M2240	N	1,000	100	N	20	N	70	N
M2241	N	700	200	N	30	N	100	N
M2242	N	700	150	N	30	N	70	N
M2243	N	700	300	N	70	N	300	N
M2244	N	700	200	N	70	N	300	N
M2245	N	700	150	N	30	N	70	N
M2246	N	200	100	N	100	N	300	N
M2247	N	N	70	N	100	N	300	N
M2248	N	700	200	N	70	N	150	N
M2249	N	<100	70	N	100	N	500	N
M2250	N	<100	50	N	100	N	700	N
M2251	10	300	200	N	100	N	700	N
M2252	20	700	200	N	100	N	300	N
M2253	N	<100	70	N	70	N	500	N
M2254	<10	300	150	N	150	N	500	N
M2255	N	500	300	N	100	N	300	N
M2256	N	500	100	N	100	N	200	N
M2257	<10	700	150	N	70	N	150	N
M2258	<10	1,000	200	N	50	<200	100	N
M2259	N	700	300	N	100	N	300	N
M2260	N	700	150	N	70	N	150	N
M2261	N	200	100	N	10	N	50	N
M2262	N	200	200	N	70	N	300	N
M2263	N	N	200	N	100	N	500	N
M2264	N	200	200	N	200	N	1,000	N
M2265	<10	500	300	N	50	N	100	N
M2266	N	500	500	N	30	N	100	N
M2267	N	700	200	N	30	N	150	N
M2268	N	200	100	N	70	N	700	N
M2269	<10	300	150	N	200	N	500	N
M2270	N	200	150	N	50	N	200	N
M2271	N	200	200	N	100	N	500	N

Sample	Latitude	Longitude	Fe-pct. %	Mg-pct. %	Ca-pct. %	Ti-pct. %	Mn-ppm ppm	Ag-ppm ppm	As-ppm ppm	Au-ppm ppm	B-ppm ppm	Ba-ppm ppm
M2272	34 3 11	111 32 54	5.0	.70	.7	.50	1,000	N	N	N	100	1,500
M2273	34 2 23	111 33 40	5.0	2.00	10.0	.30	1,500	N	N	N	70	1,000
M2274	34 1 54	111 33 45	5.0	1.00	.7	.30	1,000	N	N	N	70	1,500
M2275	34 2 39	111 33 22	7.0	1.50	3.0	.70	1,500	N	N	N	100	1,000
M2276	34 1 56	111 34 12	5.0	2.00	7.0	.50	1,000	N	N	N	70	1,500
M2277	34 1 41	111 34 25	7.0	3.00	10.0	.70	1,000	N	N	N	50	1,500
M2278	34 1 13	111 33 50	5.0	1.00	1.0	.50	1,500	N	N	N	70	1,500
M2279	34 1 27	111 33 49	5.0	.70	.5	.30	1,500	N	N	N	70	1,500
M2280	34 1 5	111 35 26	5.0	3.00	15.0	.50	1,000	N	N	N	50	1,500
M2281	34 1 55	111 36 5	7.0	3.00	3.0	.70	1,000	N	N	N	50	1,500
M2282	33 59 40	111 40 51	5.0	3.00	7.0	.50	1,500	N	N	N	100	1,000
M2283	34 0 5	111 37 54	7.0	2.00	7.0	.70	1,500	N	N	N	50	1,000
M2284	34 0 1	111 37 58	5.0	3.00	15.0	.50	1,000	N	N	N	50	1,500
M2285	34 0 8	111 38 8	7.0	3.00	7.0	.70	1,500	N	N	N	50	1,000
M2286	34 0 37	111 37 13	7.0	3.00	7.0	1.00	1,500	N	N	N	50	1,500
M2287	34 0 51	111 37 2	10.0	3.00	5.0	1.00	1,500	N	N	N	50	1,000
M2288	34 1 0	111 36 10	5.0	3.00	7.0	.50	1,000	N	N	N	50	1,500
M2289	34 0 48	111 36 1	10.0	3.00	7.0	1.00	1,500	N	N	N	50	1,500
M2290	33 59 35	111 37 15	7.0	2.00	7.0	.70	1,500	N	N	N	30	1,000
M2291	33 59 20	111 37 21	10.0	3.00	7.0	1.00	1,500	N	N	N	70	1,000
M2292	33 59 39	111 36 32	7.0	3.00	7.0	1.00	1,000	N	N	N	70	1,500
M2293	33 59 32	111 36 34	10.0	3.00	7.0	1.00	1,000	N	N	N	50	1,500
M2294	33 59 10	111 38 17	10.0	3.00	7.0	>1.00	1,000	N	N	N	50	1,000
M2295	33 59 5	111 38 14	7.0	3.00	10.0	.70	1,000	N	N	N	70	1,000
M2296	33 58 12	111 38 38	5.0	1.50	10.0	.30	700	N	N	N	50	700
M2297	33 57 27	111 38 51	7.0	2.00	7.0	.70	1,000	N	N	N	70	1,500
M2298	33 56 28	111 38 43	10.0	3.00	7.0	>1.00	1,500	N	N	N	70	1,500
M2299	33 55 31	111 38 8	7.0	3.00	7.0	.70	1,500	N	N	N	70	1,500
M2300	33 56 0	111 37 33	7.0	3.00	5.0	.50	1,500	N	N	N	70	1,000
M2301	33 56 38	111 37 30	7.0	2.00	3.0	.70	1,000	N	N	N	70	1,500
M2302	33 57 20	111 37 12	7.0	3.00	5.0	1.00	1,500	N	N	N	70	1,000
M2303	33 57 40	111 36 35	5.0	1.00	7.0	.30	1,500	N	N	N	70	700
M2304	33 58 21	111 36 39	5.0	2.00	10.0	.50	1,000	N	N	N	50	700
M2305	33 58 42	111 36 5	7.0	3.00	7.0	1.00	1,000	N	N	N	70	1,000
M2306	33 58 31	111 36 3	5.0	.50	.7	.50	1,000	N	N	N	50	1,000
M2307	33 58 49	111 35 24	5.0	.50	.7	.70	1,500	N	N	N	100	1,500
M2308	33 59 12	111 35 9	7.0	2.00	1.5	.70	1,500	N	N	N	70	1,000
M2309	33 59 29	111 34 31	3.0	.50	.5	.30	700	N	N	N	20	1,500
M2310	33 59 32	111 34 10	3.0	.30	.7	.50	1,000	N	N	N	50	1,500
M2311	33 59 59	111 33 28	2.0	1.00	.7	.30	1,500	N	N	N	50	1,500
M2312	33 59 47	111 34 4	7.0	2.00	2.0	1.00	1,500	N	N	N	70	1,500
M2313	33 59 43	111 33 41	7.0	1.00	1.5	1.00	1,500	N	N	N	50	1,500
M2314	34 0 16	111 32 55	5.0	.30	.5	.30	1,500	N	N	N	50	1,500
M2315	34 0 19	111 32 58	3.0	.70	.3	.30	1,500	N	N	N	30	1,500
M2316	33 59 48	111 32 49	5.0	.70	.5	.50	1,500	N	N	N	50	1,500

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	Sc-ppm s
M2272	3.0	N	N	10	100	>0	100	N	<20	15	30	N	15
M2273	1.0	N	N	15	150	70	70	N	<20	50	30	N	15
M2274	1.5	N	N	7	150	30	100	N	<20	30	30	N	10
M2275	1.5	N	N	20	200	70	100	N	<20	100	30	N	15
M2276	1.5	N	N	30	300	70	100	N	<20	150	20	N	20
M2277	<1.0	N	N	50	700	70	70	N	<20	150	20	N	15
M2278	3.0	N	N	15	150	70	150	N	<20	70	30	N	10
M2279	2.0	N	N	10	100	30	70	N	<20	15	30	N	10
M2280	<1.0	N	N	30	500	70	70	N	<20	150	15	N	20
M2281	<1.0	N	N	50	300	100	70	N	<20	150	20	N	20
M2282	1.0	N	N	20	150	70	100	N	<20	100	30	N	15
M2283	1.5	N	N	30	200	100	70	N	<20	150	30	N	20
M2284	1.0	N	N	50	300	70	50	N	<20	150	30	N	15
M2285	<1.0	N	N	70	500	100	50	N	<20	100	50	N	30
M2286	1.0	N	N	50	500	100	100	N	<20	150	50	N	20
M2287	<1.0	N	N	70	700	150	50	N	20	150	10	N	30
M2288	<1.0	N	N	50	500	100	100	N	<20	150	15	N	20
M2289	<1.0	N	N	70	1,000	150	70	N	<20	200	20	N	30
M2290	1.0	N	N	50	700	100	70	N	<20	100	30	N	20
M2291	1.0	N	N	70	1,500	150	30	N	20	200	30	N	30
M2292	<1.0	N	N	70	1,000	150	30	N	20	150	15	N	30
M2293	<1.0	N	N	70	1,500	150	50	N	<20	150	10	N	30
M2294	1.0	N	N	70	1,000	150	30	N	<20	150	15	N	30
M2295	1.5	N	N	50	1,000	100	30	N	<20	150	20	N	15
M2296	2.0	N	N	20	300	30	20	N	N	70	20	N	10
M2297	1.0	N	N	70	500	100	50	N	<20	150	30	N	20
M2298	<1.0	N	N	70	700	150	100	N	<20	150	30	N	30
M2299	<1.0	N	N	70	500	100	100	N	<20	150	30	N	20
M2300	<1.0	N	N	30	700	100	50	N	N	150	10	N	20
M2301	<1.0	N	N	70	700	100	50	N	<20	150	20	N	30
M2302	<1.0	N	N	50	700	150	70	N	<20	150	15	N	30
M2303	<1.0	N	N	20	30	100	70	N	N	5	50	N	20
M2304	<1.0	N	N	15	700	50	30	N	N	100	15	N	15
M2305	1.0	N	N	70	700	150	30	N	<20	150	15	N	20
M2306	3.0	N	N	10	70	50	300	N	20	<5	50	N	15
M2307	3.0	N	N	10	700	70	150	N	30	15	50	N	15
M2308	2.0	N	N	20	200	70	100	N	<20	100	30	N	20
M2309	3.0	N	N	5	50	15	70	N	20	<5	30	N	7
M2310	1.0	N	N	10	50	30	100	N	<20	10	30	N	7
M2311	2.0	N	N	7	200	30	70	N	<20	30	20	N	10
M2312	1.0	N	N	50	700	150	70	N	<20	150	20	N	20
M2313	1.0	N	N	20	150	70	150	N	20	15	20	N	15
M2314	2.0	N	N	7	100	30	100	N	<20	15	30	N	10
M2315	2.0	N	N	7	50	20	70	N	<20	10	30	N	10
M2316	1.5	N	N	10	150	50	100	N	<20	30	30	N	15

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
M2272	N	200	100	N	150	N	1,000	N
M2273	N	2,000	100	N	50	N	50	N
M2274	N	200	70	N	70	N	700	N
M2275	N	700	200	N	50	N	300	N
M2276	N	1,000	100	N	70	N	150	N
M2277	<10	2,000	200	N	70	N	300	N
M2278	N	300	100	N	100	N	500	N
M2279	10	<100	70	N	70	N	500	N
M2280	N	2,000	150	N	70	N	200	N
M2281	N	700	200	N	30	N	100	N
M2282	N	1,000	100	N	50	N	300	N
M2283	N	700	200	N	30	N	70	N
M2284	N	1,000	100	N	20	N	70	N
M2285	N	700	200	N	30	N	70	N
M2286	N	700	150	N	30	N	150	N
M2287	<10	700	300	N	30	N	150	N
M2288	N	1,000	200	N	30	N	100	N
M2289	<10	1,000	300	N	70	N	200	N
M2290	N	700	150	N	30	N	70	N
M2291	<10	700	300	N	30	N	150	N
M2292	N	700	200	N	30	N	100	N
M2293	<10	700	300	N	70	300	200	N
M2294	N	700	300	N	30	300	70	N
M2295	N	700	300	N	20	N	100	N
M2296	N	1,000	200	N	15	N	50	N
M2297	<10	1,000	200	N	30	<200	200	N
M2298	N	1,000	300	N	50	200	100	N
M2299	N	1,000	200	N	30	N	100	N
M2300	N	700	300	N	20	N	100	N
M2301	<10	700	300	N	30	N	100	N
M2302	N	700	300	N	50	<200	100	N
M2303	N	<100	150	N	20	N	30	N
M2304	N	700	150	N	20	N	50	N
M2305	<10	500	300	N	20	N	70	N
M2306	<10	100	70	N	300	N	>1,000	N
M2307	<10	N	100	N	200	N	>1,000	N
M2308	<10	500	200	N	150	N	300	N
M2309	N	100	50	N	200	N	>1,000	N
M2310	N	200	100	N	150	N	1,000	N
M2311	N	<100	70	N	70	N	200	N
M2312	<10	700	300	N	70	N	150	N
M2313	N	700	300	N	100	N	300	N
M2314	N	100	50	N	70	N	700	N
M2315	N	<100	70	N	70	N	300	N
M2316	N	100	100	N	70	N	700	N

MAZATLAL SEDIMENTS--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
M2317	33 59 20	111 32 21	3.0	.50	1.0	.30	1,500	N	N	N	70	1,000
M2318	33 59 24	111 32 15	3.0	.50	.5	.30	1,500	N	N	N	50	1,500
M2319	33 58 18	111 33 21	5.0	.70	1.5	.30	1,500	N	N	N	100	1,000
M2320	33 57 50	111 34 34	3.0	.70	2.0	.30	1,500	N	N	N	100	1,000
M2321	33 57 53	111 34 33	5.0	1.50	1.5	.50	1,500	N	N	N	70	1,500
M2322	33 58 9	111 35 13	3.0	.70	1.0	.50	1,000	N	N	N	50	1,500
M2323	34 6 5	111 30 25	5.0	.70	.5	.30	700	N	N	N	70	700
M2324	34 6 30	111 31 20	2.0	.50	.2	.30	500	N	N	N	50	500
M2325	34 6 9	111 30 24	3.0	.70	.2	.30	700	N	N	N	70	700
M2326	34 6 25	111 31 20	2.0	.70	.3	.30	700	N	N	N	70	1,500
M2327	33 56 17	111 36 47	7.0	2.00	5.0	.50	1,500	N	N	N	70	1,000
M2328	33 56 30	111 36 42	7.0	1.50	5.0	.70	1,500	N	N	N	100	1,500
M2329	33 56 46	111 36 44	10.0	1.50	7.0	.50	1,500	N	N	N	20	1,500
M2330	33 57 6	111 35 57	7.0	.05	.7	.01	300	N	N	N	100	300
M2330	33 57 6	111 35 57	7.0	1.50	1.0	.70	5,000	N	N	N	100	1,500
M2331	33 57 3	111 34 22	3.0	.70	1.5	.30	1,000	N	N	N	50	1,000
M2332	33 56 16	111 34 12	7.0	3.00	2.0	.70	1,000	N	N	N	50	1,500
M2333	33 57 31	111 35 10	7.0	1.50	2.0	.30	1,500	N	N	N	100	1,000
M2334	33 57 6	111 33 37	5.0	1.00	1.5	.50	1,000	N	N	N	70	1,500
M2335	33 57 10	111 33 49	7.0	1.00	5.0	.70	1,500	N	N	N	200	1,500
M2336	33 57 19	111 33 5	5.0	.70	1.5	.50	1,500	N	N	N	50	1,500
M2337	33 57 15	111 33 5	5.0	1.00	2.0	.30	1,000	N	N	N	50	1,500
M2338	33 56 37	111 34 27	7.0	2.00	2.0	.70	1,000	N	N	N	50	1,500
M2339	33 53 40	111 36 35	7.0	3.00	10.0	>1.00	2,000	N	N	N	70	1,500
M2340	33 53 55	111 35 27	7.0	2.00	7.0	.70	1,000	N	N	N	70	700
M2341	33 53 52	111 34 58	7.0	2.00	3.0	1.00	1,500	N	N	N	50	1,500
M2342	33 54 1	111 33 20	7.0	3.00	3.0	1.00	1,000	N	N	N	50	1,500
M2343	33 53 47	111 37 24	10.0	2.00	7.0	>1.00	2,000	N	N	N	70	1,500
M2344	33 54 36	111 37 59	10.0	3.00	5.0	1.00	1,500	N	N	N	50	1,500
M2345	33 55 37	111 37 1	7.0	3.00	5.0	1.00	1,000	N	N	N	20	1,500
M2346	33 55 0	111 37 26	15.0	3.00	3.0	>1.00	1,500	N	N	N	70	1,500
M2347	33 53 42	111 31 50	7.0	2.00	10.0	1.00	1,500	N	N	N	50	1,000
M2348	33 53 56	111 31 20	7.0	1.50	1.5	.70	1,000	N	N	N	70	1,000
M2349	33 54 11	111 30 38	7.0	2.00	5.0	1.00	1,000	N	N	N	50	1,500
M2350	33 54 5	111 30 5	10.0	3.00	3.0	>1.00	1,000	N	N	N	50	1,500
M2351	33 55 39	111 31 48	7.0	1.00	5.0	>1.00	1,500	N	N	N	50	1,500
M2352	33 55 40	111 31 52	7.0	1.50	2.0	1.00	1,000	N	N	N	50	1,000
M2353	33 55 29	111 31 45	10.0	2.00	5.0	>1.00	1,000	N	N	N	50	1,000
M2354	33 55 46	111 32 58	7.0	3.00	3.0	.70	1,000	N	N	N	50	1,500
M2355	33 56 4	111 33 28	7.0	2.00	7.0	.70	2,000	N	N	N	50	1,500
M2356	33 55 24	111 29 49	7.0	2.00	2.0	1.00	1,500	N	N	N	200	1,000
M2357	33 56 41	111 30 4	7.0	3.00	7.0	.70	1,500	N	N	N	30	1,500
M2358	33 57 30	111 29 59	7.0	1.50	1.5	.70	1,500	N	N	N	200	1,500
M2359	34 9 59	111 27 22	7.0	1.50	1.5	.70	1,500	N	N	N	50	1,500
M2360	34 10 37	111 27 45	10.0	2.00	2.0	.70	1,500	N	N	N	20	2,000

Sample	Be-pdm s	Rh-pdm s	Cd-pdm s	Co-pdm s	Cr-pdm s	Cu-pdm s	La-pdm s	Mo-pdm s	Nb-pdm s	Ni-pdm s	Pb-pdm s	Sb-pdm s	Sc-pdm s
MZ317	3.0	N	N	10	50	50	100	N	<20	20	30	N	15
MZ318	2.0	N	N	7	70	30	150	N	<20	15	30	N	15
MZ319	2.0	N	N	10	70	50	70	N	<20	10	30	N	10
MZ320	1.0	N	N	20	50	50	70	N	N	15	50	N	15
MZ321	1.0	N	N	20	700	150	70	N	<20	10	30	N	15
MZ322	5.0	N	N	7	150	50	150	N	<20	15	30	N	10
MZ323	2.0	N	N	15	70	20	100	N	<20	30	30	N	10
MZ324	1.5	N	N	10	50	30	<20	N	<20	10	10	N	7
MZ325	1.0	N	N	15	100	30	70	N	N	15	<10	N	10
MZ326	3.0	N	N	5	50	20	100	N	20	<5	50	N	5
MZ327	1.0	N	N	20	500	70	30	N	<20	100	20	N	15
MZ328	1.5	N	N	50	500	70	70	N	<20	100	30	N	20
MZ329	<1.0	N	N	50	150	200	50	N	N	30	70	N	30
MZ330	<1.0	N	N	N	<10	300	N	N	N	<5	30	N	N
MZ330	1.0	N	N	50	150	1,500	100	N	<20	70	100	N	20
MZ331	<1.0	N	N	7	100	30	<20	N	N	20	20	N	7
MZ332	<1.0	N	N	50	200	100	50	N	<20	150	20	N	20
MZ333	<1.0	N	N	50	100	300	20	N	N	20	30	N	30
MZ334	<1.0	N	N	20	150	50	70	N	<20	30	30	N	10
MZ335	<1.0	N	N	20	200	100	70	N	<20	30	70	N	15
MZ336	1.0	N	N	20	150	30	70	N	<20	30	30	N	10
MZ337	1.5	N	N	15	50	20	70	N	<20	10	50	N	5
MZ338	<1.0	N	N	50	300	100	70	N	<20	150	30	N	15
MZ339	<1.0	N	N	70	1,000	150	30	N	<20	150	30	N	30
MZ340	<1.0	N	N	30	200	70	30	N	<20	100	20	N	15
MZ341	<1.0	N	N	30	700	100	70	N	<20	100	20	N	20
MZ342	N	N	N	70	1,500	150	30	N	<20	200	20	N	20
MZ343	<1.0	N	N	70	700	150	70	N	<20	150	50	N	30
MZ344	<1.0	N	N	70	700	100	50	N	<20	150	15	N	30
MZ345	<1.0	N	N	70	700	150	50	N	<20	150	20	N	20
MZ346	N	N	N	100	3,000	150	20	N	<20	300	<10	N	20
MZ347	<1.0	N	N	20	500	100	100	N	<20	70	50	N	20
MZ348	1.0	N	N	20	200	70	50	N	<20	70	20	N	15
MZ349	<1.0	N	N	70	500	100	50	N	<20	150	15	N	20
MZ350	N	N	N	70	1,000	150	30	N	20	150	15	N	20
MZ351	<1.0	N	N	20	150	100	50	N	30	30	50	N	10
MZ352	<1.0	N	N	50	150	100	30	N	<20	100	20	N	20
MZ353	N	N	N	70	1,500	150	30	N	<20	150	10	N	30
MZ354	<1.0	N	N	50	500	150	50	N	<20	150	15	N	30
MZ355	<1.0	N	N	20	200	100	30	N	<20	70	50	N	20
MZ356	<1.0	N	N	50	500	100	70	N	<20	150	20	N	20
MZ357	<1.0	N	N	50	700	150	70	N	<20	150	30	N	30
MZ358	1.0	N	N	20	200	100	70	N	<20	100	150	N	20
MZ359	1.0	N	N	15	700	100	70	N	<20	50	70	N	20
MZ360	1.0	N	N	50	500	300	70	N	<20	70	50	N	30

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
M2317	N	300	100	N	50	N	200	N
M2318	N	100	70	N	70	N	500	N
M2319	N	700	100	N	100	N	300	N
M2320	N	700	150	N	20	N	70	N
M2321	N	200	150	N	70	<200	200	N
M2322	N	<100	100	N	100	N	700	N
M2323	N	<100	100	N	70	N	300	N
M2324	N	N	50	N	30	N	300	N
M2325	N	N	100	N	50	N	>1,000	N
M2326	N	N	30	N	150	N	>1,000	N
M2327	N	700	200	N	20	N	70	N
M2328	N	700	150	N	30	N	100	N
M2329	N	700	500	N	50	N	70	N
M2330	N	N	50	N	<10	N	<10	N
M2330	N	500	200	N	50	500	200	N
M2331	N	700	100	N	10	N	70	N
M2332	N	700	150	N	20	N	70	N
M2333	N	300	300	N	20	N	30	N
M2334	N	700	200	N	30	N	150	N
M2335	N	1,000	200	N	20	N	100	N
M2336	N	700	100	N	20	N	200	N
M2337	N	700	100	N	15	N	150	N
M2338	N	1,000	200	N	30	N	150	N
M2339	N	700	300	N	30	N	50	N
M2340	N	700	150	N	30	N	100	N
M2341	N	700	200	N	50	N	100	N
M2342	N	1,000	200	N	30	N	100	N
M2343	N	700	300	N	100	N	150	N
M2344	N	1,000	300	N	20	N	70	N
M2345	N	1,000	200	N	30	N	100	N
M2346	N	1,000	300	N	20	500	50	N
M2347	N	700	200	N	50	N	300	N
M2348	N	500	200	N	30	N	200	N
M2349	N	700	200	N	30	N	100	N
M2350	N	700	300	N	30	N	150	N
M2351	N	700	300	N	30	N	100	N
M2352	N	700	300	N	20	N	200	N
M2353	N	700	300	N	30	<200	100	N
M2354	N	700	200	N	30	N	100	N
M2355	N	700	200	N	20	N	70	N
M2356	N	700	300	N	30	N	200	N
M2357	N	1,000	300	N	30	N	100	N
M2358	N	200	200	N	30	200	100	N
M2359	N	200	200	N	50	N	150	N
M2360	N	300	300	N	50	N	150	N

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Aq-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
M2361	34 8 10	111 26 33	7.0	2.00	5.0	.50	1,500	.5	N	N	30	700
M2362	34 7 42	111 26 28	5.0	1.50	3.0	.50	1,500	.5	N	N	30	1,000
M2363	34 7 35	111 26 16	7.0	1.50	7.0	.50	1,500	N	N	N	100	1,000
M2364	34 7 15	111 26 17	7.0	2.00	2.0	.50	1,500	N	N	N	100	1,000
M2365	34 6 50	111 26 9	7.0	2.00	3.0	.70	1,500	N	N	N	100	700
M2366	34 6 8	111 25 26	7.0	2.00	5.0	.50	2,000	N	N	N	50	500
M2367	34 5 30	111 25 33	5.0	.50	.7	.70	1,500	N	N	N	20	700
M2368	34 5 33	111 26 39	5.0	1.00	.7	.50	1,500	N	N	N	30	700
M2369	34 5 18	111 27 54	7.0	1.50	3.0	.70	2,000	N	N	N	30	1,500
M2370	34 5 43	111 27 53	5.0	.70	1.0	.50	2,000	N	N	N	20	1,000
M2371	34 5 24	111 28 3	5.0	2.00	7.0	.50	1,500	N	N	N	50	1,500
M2372	34 6 29	111 29 32	5.0	1.50	.7	.50	1,500	N	N	N	70	1,000
M2373	34 6 35	111 29 32	5.0	1.50	1.0	.50	1,500	N	N	N	70	1,000
M2374	34 3 43	111 29 29	5.0	2.00	2.0	.70	1,500	N	N	N	70	1,500
M2375	34 4 23	111 29 50	7.0	3.00	7.0	.50	2,000	N	N	N	70	2,000
M2376	34 5 43	111 32 4	5.0	1.50	3.0	.50	1,500	N	N	N	50	1,500
M2377	34 4 55	111 31 2	3.0	1.50	1.5	.50	1,000	N	N	N	70	1,000
M2378	34 3 58	111 31 1	5.0	1.50	2.0	.50	2,000	N	N	N	50	1,500
M2379	34 2 19	111 31 11	5.0	2.00	5.0	.70	1,500	N	N	N	70	2,000
M2380	34 2 16	111 31 8	5.0	1.50	2.0	.50	5,000	N	N	N	50	2,000
M2381	34 1 24	111 31 48	5.0	1.50	2.0	.50	5,000	N	N	N	50	2,000
M2382	34 1 30	111 31 47	5.0	1.50	.3	.50	3,000	N	N	N	70	2,000
M2383	34 3 32	111 24 47	5.0	1.50	1.5	.50	1,500	<.5	N	N	70	1,500
M2384	34 2 59	111 25 59	5.0	1.00	.7	.50	1,500	<.5	N	N	70	1,500
M2385	34 3 2	111 25 59	7.0	.70	7.0	.50	1,000	N	N	N	100	1,000
M2386	34 1 40	111 25 7	1.0	1.50	20.0	.20	1,500	N	N	N	70	1,500
M2387	33 58 15	111 30 54	3.0	2.00	3.0	.30	1,500	N	N	N	30	1,000
M2388	34 1 25	111 25 8	5.0	1.00	7.0	.70	1,500	N	N	N	100	1,500
M2389	34 1 27	111 25 11	5.0	1.00	10.0	.70	2,000	N	N	N	100	1,500
M2390	33 58 18	111 30 19	5.0	1.50	5.0	.30	2,000	N	N	N	70	1,500
M2391	33 58 6	111 30 16	5.0	1.50	3.0	.50	3,000	1.0	N	N	100	1,500
M2392	33 58 19	111 29 59	5.0	1.50	5.0	.30	3,000	N	N	N	100	1,500
M2393	33 58 5	111 30 4	5.0	1.50	7.0	.50	2,000	N	N	N	100	1,500
M2394	33 59 30	111 29 0	5.0	1.00	2.0	.70	3,000	<1.0	N	N	70	3,000
M2395	33 59 24	111 28 51	5.0	1.50	1.5	.70	3,000	<1.0	N	N	100	2,000
M2396	34 0 54	111 27 51	5.0	1.50	2.0	.30	5,000	<1.0	N	N	100	3,000
M2397	34 2 30	111 25 20	5.0	1.50	20.0	.30	2,000	N	N	N	100	1,500
M2398	34 4 4	111 26 6	3.0	1.50	1.5	.50	1,500	N	N	N	70	1,500
M2399	34 8 17	111 36 10	5.0	2.00	2.0	.50	1,500	N	N	N	70	1,500
M2400	34 9 36	111 29 29	5.0	1.50	.7	.50	1,500	N	N	N	100	1,500
M2401	34 9 32	111 29 36	5.0	1.50	3.0	.30	2,000	N	N	N	50	1,500
M2402	34 6 5	111 46 25	10.0	1.50	1.0	.50	1,000	N	N	N	15	2,000
M2403	34 6 7	111 46 29	10.0	1.50	1.0	.70	1,000	N	N	N	20	2,000
M2404	34 6 41	111 46 22	20.0	1.50	1.5	.50	1,000	N	N	N	30	1,500
M2405	34 6 46	111 46 25	15.0	1.50	2.0	1.00	1,500	N	N	N	30	2,000

Sample	Be-dpm s	Bi-dpm s	Cd-dpm s	Co-dpm s	Cr-dpm s	Cu-dpm s	La-dpm s	Mo-dpm s	Nb-dpm s	Ni-dpm s	Pb-dpm s	Sb-dpm s	Sc-dpm s
M2361	<1.0	N	N	15	100	150	50	N	N	30	100	N	30
M2362	<1.0	N	N	10	100	150	50	N	<20	20	100	N	20
M2363	<1.0	N	N	15	150	300	70	N	<20	20	70	N	30
M2364	<1.0	N	N	20	150	200	70	N	<20	50	70	N	20
M2365	<1.0	N	N	30	300	70	50	N	N	70	30	N	30
M2366	<1.0	N	N	20	100	200	20	N	N	30	50	N	30
M2367	<1.0	N	N	10	150	50	100	N	<20	15	30	N	10
M2368	1.0	N	N	10	100	30	70	N	<20	15	50	N	15
M2369	1.0	N	N	50	500	100	70	N	<20	150	50	N	20
M2370	1.5	N	N	10	100	200	50	N	<20	20	50	N	10
M2371	<1.0	N	N	20	1,000	50	100	N	<20	150	50	N	15
M2372	<1.0	N	N	20	150	30	100	N	<20	15	30	N	20
M2373	<1.0	N	N	15	200	50	70	N	<20	15	50	N	15
M2374	<1.0	N	N	15	200	100	70	N	<20	30	100	N	15
M2375	1.0	N	N	20	1,000	50	100	N	<20	100	70	N	15
M2376	<1.0	N	N	10	200	30	100	N	<20	30	70	N	15
M2377	1.0	N	N	15	150	50	100	N	<20	20	50	N	10
M2378	<1.0	N	N	20	150	50	70	N	<20	20	70	N	15
M2379	1.0	N	N	15	200	50	150	N	<20	70	50	N	15
M2380	1.5	N	N	15	100	50	150	N	<20	15	100	N	15
M2381	1.5	N	N	10	70	50	150	<5	<20	10	100	N	15
M2382	1.5	N	N	7	70	30	150	<5	<20	<5	100	N	15
M2383	<1.0	N	N	15	150	50	70	N	<20	30	70	N	15
M2384	<1.0	N	N	15	100	50	70	N	<20	20	70	N	15
M2385	<1.0	N	N	15	100	50	70	N	<20	10	70	N	15
M2386	1.5	N	N	7	100	20	150	N	N	10	70	N	10
M2387	<1.0	N	N	20	150	50	70	N	N	20	50	N	15
M2388	<1.0	N	N	20	500	100	70	N	<20	30	50	N	20
M2389	<1.0	N	N	20	500	100	70	N	<20	30	50	N	30
M2390	<1.0	N	N	20	500	100	70	N	N	30	70	N	20
M2391	<1.0	N	N	30	500	150	70	N	<20	50	150	N	15
M2392	<1.0	N	N	20	200	100	70	N	<20	30	70	N	15
M2393	<1.0	N	N	15	150	100	70	N	N	30	70	N	15
M2394	2.0	N	N	15	200	70	150	N	<20	10	100	N	15
M2395	1.5	N	N	20	150	100	150	N	<20	30	70	N	15
M2396	1.5	N	N	15	700	70	150	N	<20	50	100	N	15
M2397	<1.0	N	N	15	100	70	100	N	<20	15	50	N	20
M2398	<1.0	N	N	15	150	50	70	N	N	20	70	N	15
M2399	2.0	N	N	15	150	50	150	N	20	15	100	N	15
M2400	1.0	N	N	20	200	70	100	N	<20	15	70	N	20
M2401	1.0	N	N	20	150	70	100	N	<20	15	70	N	15
M2402	2.0	10	N	30	150	70	150	N	<20	50	50	N	20
M2403	5.0	<10	N	30	200	100	200	N	30	100	70	N	20
M2404	5.0	<10	N	30	150	70	200	N	30	70	70	N	20
M2405	5.0	<10	N	50	300	100	200	N	50	100	50	N	20

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
M2361	N	700	300	N	30	N	70	N
M2362	N	300	200	N	30	N	50	N
M2363	N	300	300	N	20	N	50	N
M2364	N	150	150	N	30	N	50	N
M2365	N	300	300	N	50	N	150	N
M2366	N	500	300	N	30	N	30	N
M2367	N	<100	100	N	100	N	700	N
M2368	N	150	70	N	30	N	500	N
M2369	N	500	200	N	100	N	150	N
M2370	N	200	100	N	30	N	150	N
M2371	N	700	100	N	100	N	200	N
M2372	N	200	100	N	70	N	500	N
M2373	N	200	100	N	70	N	700	N
M2374	N	300	100	N	100	N	300	N
M2375	N	1,000	100	N	70	N	150	N
M2376	N	300	100	N	100	N	500	N
M2377	N	200	70	N	70	N	500	N
M2378	N	200	70	N	70	N	500	N
M2379	N	500	100	N	100	N	300	N
M2380	N	200	70	N	100	<200	500	N
M2381	N	200	50	N	100	N	500	N
M2382	N	200	50	N	100	N	1,000	N
M2383	N	300	100	N	70	N	200	N
M2384	N	700	100	N	30	N	200	N
M2385	N	1,500	150	N	30	N	50	N
M2386	N	700	70	N	30	N	100	N
M2387	N	1,000	100	N	20	N	70	N
M2388	N	700	150	N	50	N	100	N
M2389	N	700	100	N	50	N	100	N
M2390	N	700	150	N	30	N	100	N
M2391	N	500	100	N	50	N	150	N
M2392	N	700	100	N	30	N	100	N
M2393	N	2,000	150	N	30	N	100	N
M2394	N	200	70	N	100	N	300	N
M2395	N	300	100	N	100	N	200	N
M2396	N	300	70	N	100	N	300	N
M2397	N	700	150	N	30	N	100	N
M2398	N	200	100	N	50	N	200	N
M2399	20	200	70	N	300	<200	1,000	N
M2400	N	<100	100	N	70	N	300	N
M2401	N	300	150	N	100	N	300	N
M2402	N	300	200	N	70	N	>1,000	N
M2403	N	500	200	N	70	N	700	N
M2404	10	500	300	N	100	N	>1,000	N
M2405	N	700	300	N	70	N	500	N

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-pdm s	Aq-pdm s	As-pdm s	Au-pdm s	B-pdm s	Ba-pdm s
M2406	34 6 35	111 46 2	10.0	1.00	3.0	.20	700	N	N	N	20	2,000
M2407	34 6 27	111 45 42	20.0	1.50	1.5	.70	1,000	N	N	N	50	1,500
M2408	34 6 20	111 45 31	10.0	1.00	1.5	.30	700	N	N	N	20	2,000
M2409	34 6 8	111 45 18	10.0	1.50	1.5	.30	1,000	N	N	N	50	3,000
M2410	34 5 56	111 45 50	20.0	.70	.7	.30	700	N	N	N	50	1,500
M2411	34 5 54	111 45 46	5.0	1.50	1.0	.30	700	N	N	N	20	2,000
M2412	34 6 43	111 45 46	7.0	1.50	2.0	.30	1,500	N	N	N	10	2,000
M2413	34 6 47	111 45 47	15.0	2.00	2.0	.50	1,000	N	N	N	15	2,000
M2414	34 10 19	111 43 34	20.0	2.00	5.0	.50	2,000	N	N	N	20	3,000
M2415	34 10 21	111 43 31	15.0	2.00	5.0	.50	1,500	N	N	N	20	1,500
M2416	34 11 42	111 43 41	15.0	2.00	5.0	.70	1,000	N	N	N	20	2,000
M2417	34 11 45	111 43 36	15.0	2.00	5.0	.70	1,000	N	N	N	20	2,000
M2418	34 12 10	111 43 16	10.0	2.00	5.0	.50	1,000	N	N	N	20	2,000
M2419	34 11 11	111 43 52	15.0	2.00	5.0	.50	1,000	N	N	N	20	2,000
M2420	34 11 6	111 43 51	15.0	2.00	5.0	.70	1,000	N	N	N	20	2,000
M2421	34 10 47	111 43 37	15.0	2.00	2.0	1.00	1,000	N	N	N	20	2,000
M2422	34 13 5	111 43 8	15.0	.70	.7	.70	1,000	N	N	N	30	3,000
M2423	34 13 7	111 42 55	20.0	1.00	1.0	.30	3,000	N	N	N	30	3,000
M2424	34 13 7	111 42 47	15.0	1.50	1.0	.70	1,500	N	N	N	30	3,000
M2425	34 13 18	111 42 24	15.0	1.00	1.0	.50	1,500	N	N	N	30	700
M2426	34 13 26	111 42 22	10.0	1.50	5.0	.30	1,000	N	N	N	30	700
M2427	34 13 50	111 42 17	20.0	1.00	1.5	.70	1,000	N	N	N	30	1,000
M2428	34 14 20	111 42 31	10.0	.70	.7	.50	1,500	N	N	N	50	2,000
M2429	34 14 20	111 42 36	15.0	3.00	5.0	1.00	1,500	N	N	N	30	1,500
M2430	34 14 41	111 42 4	5.0	1.00	1.0	.50	700	N	N	N	50	700
M2431	34 9 14	111 43 54	20.0	1.00	.7	.50	1,500	N	N	N	70	700
M2432	34 8 28	111 43 44	15.0	2.00	3.0	.70	1,500	N	N	N	30	700
M2433	34 8 17	111 43 42	15.0	3.00	3.0	1.00	1,500	N	N	N	30	700
M2434	34 8 36	111 34 14	7.0	1.00	.5	.20	1,000	N	N	N	50	500
M2435	34 8 36	111 34 33	10.0	.50	.7	.30	1,000	N	N	N	50	700
M2436	34 8 21	111 33 8	7.0	.70	.5	.50	1,000	N	N	N	30	700
M2437	34 8 50	111 33 2	3.0	.70	.3	.30	1,000	N	N	N	30	700
M2438	34 8 54	111 32 57	3.0	.70	.3	.30	1,000	N	N	N	30	1,000
M2439	34 9 14	111 32 58	5.0	.70	.3	.50	700	N	N	N	50	700
M2440	34 9 18	111 32 40	5.0	.70	.3	.30	1,000	N	N	N	30	1,000
M2441	34 8 51	111 31 11	7.0	.70	.3	.30	1,000	N	N	N	50	1,000
M2442	34 8 27	111 32 5	5.0	.70	.3	.30	1,000	N	N	N	70	1,000
M2443	34 8 8	111 33 15	20.0	3.00	2.0	>1.00	1,500	N	N	N	30	1,000
M2444	34 7 53	111 32 34	5.0	.70	.5	.50	700	N	N	N	20	700
M2445	34 7 55	111 32 34	5.0	.70	.3	.30	700	2.0	N	N	20	500
M2446	34 7 52	111 32 36	5.0	.70	.3	.30	700	N	N	N	20	500
M2447	34 8 17	111 33 51	3.0	1.00	.7	.30	1,000	N	N	N	20	1,000
M2448	34 8 30	111 33 35	2.0	1.00	.5	.20	500	1.0	N	N	20	1,000
M2456	34 14 52	111 35 22	10.0	1.50	1.5	1.00	2,000	N	N	N	20	700
M2458	34 14 26	111 35 7	2.0	.70	.3	.20	700	N	N	N	50	700

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	Sc-ppm s
M2406	3.0	<10	N	15	50	50	150	N	<20	20	50	N	10
M2407	5.0	<10	N	50	200	100	150	20	30	100	100	N	20
M2408	5.0	<10	N	20	50	50	100	<5	30	20	50	N	15
M2409	5.0	<10	N	30	100	70	100	10	30	50	200	N	15
M2410	7.0	<10	N	50	100	50	100	10	20	30	50	N	15
M2411	5.0	<10	N	30	100	70	100	<5	20	50	30	N	10
M2412	5.0	<10	N	50	150	70	100	<5	20	50	50	N	15
M2413	3.0	<10	N	50	200	100	150	N	30	70	50	N	20
M2414	7.0	<10	N	50	500	70	200	<5	30	100	70	N	20
M2415	5.0	<10	N	50	300	70	70	N	50	100	50	N	20
M2416	7.0	<10	N	50	300	100	150	5	50	150	70	N	20
M2417	5.0	<10	N	50	300	70	200	5	30	150	5	N	20
M2418	5.0	<10	N	30	200	70	200	5	30	100	50	N	20
M2419	5.0	<10	N	30	300	70	200	5	20	100	50	N	20
M2420	3.0	<10	N	50	300	100	200	<5	30	100	50	N	20
M2421	5.0	<10	N	50	500	100	200	<5	50	100	50	N	20
M2422	5.0	<10	N	15	70	70	200	10	70	20	70	N	20
M2423	20.0	<10	N	15	70	50	200	5	50	15	50	N	15
M2424	7.0	<10	N	20	100	70	200	10	70	20	70	N	20
M2425	7.0	<10	N	20	100	70	500	10	70	30	70	N	30
M2426	7.0	<10	N	20	300	70	100	10	50	50	70	N	20
M2427	7.0	<10	N	30	200	70	150	20	70	50	100	N	30
M2428	10.0	<10	N	15	30	50	150	15	70	15	70	N	15
M2429	2.0	<10	N	50	500	70	100	5	30	100	50	N	30
M2430	10.0	N	N	15	50	50	150	7	50	20	70	N	10
M2431	5.0	<10	N	20	150	70	300	10	50	30	70	N	30
M2432	3.0	<10	N	30	200	70	200	<5	30	50	70	N	30
M2433	3.0	N	N	50	300	70	200	N	50	100	50	N	30
M2434	10.0	<10	N	15	30	20	100	<5	70	20	70	N	7
M2435	10.0	N	N	20	70	50	150	5	50	30	70	N	10
M2436	7.0	<10	N	15	20	50	150	7	50	20	100	N	15
M2437	7.0	<10	N	15	30	50	200	5	50	20	70	N	15
M2438	7.0	<10	N	15	30	30	300	5	50	20	50	N	10
M2439	7.0	<10	N	15	50	50	150	7	70	20	70	N	15
M2440	10.0	N	N	10	30	50	100	<5	30	15	50	N	7
M2441	10.0	<10	N	10	20	50	100	<5	50	20	70	N	7
M2442	7.0	<10	N	10	30	50	100	<5	50	20	100	N	10
M2443	2.0	<10	N	50	700	100	200	<5	30	100	50	N	30
M2444	10.0	<10	N	15	70	30	150	7	70	20	50	N	10
M2445	5.0	15	N	7	20	150	200	7	70	7	300	N	15
M2446	5.0	N	N	10	15	30	100	7	70	10	100	N	10
M2447	2.0	N	N	15	100	50	70	5	<20	30	70	N	10
M2448	2.0	N	N	10	30	70	50	N	<20	7	70	N	7
M2456	1.0	N	N	50	100	70	30	N	N	50	30	N	20
M2458	2.0	N	N	10	50	30	50	N	N	20	20	N	5

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
MZ406	N	300	150	N	50	N	700	N
MZ407	30	500	300	70	100	200	>1,000	<100
MZ408	N	300	100	N	70	N	700	N
MZ409	150	300	200	50	70	N	500	100
MZ410	N	300	500	50	200	200	>1,000	1,000
MZ411	N	500	100	N	30	N	150	N
MZ412	5	500	150	N	50	N	300	N
MZ413	N	500	200	N	70	N	300	N
MZ414	30	700	300	N	100	300	700	N
MZ415	<10	700	200	N	100	N	700	N
MZ416	7	500	300	N	100	200	500	N
MZ417	<10	500	150	N	70	200	700	N
MZ418	N	500	100	N	70	200	1,000	N
MZ419	15	500	100	N	100	<200	1,000	N
MZ420	10	500	100	N	70	200	700	N
MZ421	15	500	200	N	100	<200	700	N
MZ422	20	100	150	N	200	300	>1,000	<100
MZ423	10	100	150	N	100	N	1,000	N
MZ424	20	150	150	N	200	200	>1,000	N
MZ425	20	200	200	N	500	N	>1,000	150
MZ426	20	200	200	N	150	N	>1,000	<100
MZ427	30	300	150	N	500	N	>1,000	150
MZ428	15	200	100	N	300	N	>1,000	N
MZ429	10	700	200	N	70	N	300	N
MZ430	<10	200	150	N	100	N	500	N
MZ431	20	200	200	N	200	N	>1,000	<100
MZ432	15	500	200	N	70	N	300	N
MZ433	15	500	150	N	70	N	700	N
MZ434	15	<100	50	N	500	N	>1,000	<100
MZ435	15	100	70	N	150	<200	1,000	<100
MZ436	20	100	70	N	150	N	1,000	<100
MZ437	20	100	70	N	100	<200	1,000	100
MZ438	20	100	70	N	150	N	700	<100
MZ439	30	100	70	N	100	N	500	<100
MZ440	15	<100	50	N	100	N	1,000	N
MZ441	15	100	50	N	200	N	>1,000	<100
MZ442	50	<100	70	N	200	N	1,000	<100
MZ443	15	700	200	N	70	N	1,000	N
MZ444	10	100	100	N	200	N	>1,000	<100
MZ445	20	<100	50	N	200	200	700	100
MZ446	15	<100	50	N	150	N	700	N
MZ447	N	200	70	N	50	N	500	N
MZ448	N	<100	50	N	30	N	200	N
MZ456	N	200	300	N	50	N	300	N
MZ458	N	150	50	N	10	N	150	N

MAZATZAL SEDIMENTS--continued

Sample	Latitude	Longitude	Fe-pct. %	Mg-pct. %	Ca-pct. %	Ti-pct. %	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
MZ459	34 14 26	111 35 3	3.0	1.0	2.0	.30	700	N	N	N	30	1,000
MZ460	34 10 37	111 28 2	3.0	1.0	.7	.20	500	N	N	N	20	2,000
MZ461	34 10 27	111 27 43	5.0	1.0	.3	.30	500	N	N	N	15	1,500
MZ463	34 9 37	111 26 53	5.0	1.0	5.0	.20	700	<.5	N	N	20	1,000
MZ465	34 12 16	111 31 27	7.0	1.5	5.0	.30	1,000	N	N	N	20	700
MZ466	34 12 15	111 31 23	5.0	1.5	3.0	.20	700	N	N	N	30	1,500
MZ467	34 13 24	111 32 26	1.5	.5	.3	.15	1,000	N	N	N	50	500
MZ468	34 14 42	111 34 29	5.0	1.0	1.5	.30	700	N	N	N	30	1,500
MZ469	34 11 4	111 33 33	7.0	1.5	1.5	.30	1,500	N	N	N	20	1,000
MZ470	34 10 58	111 33 33	10.0	1.5	1.5	.30	1,500	N	N	N	30	1,500
MZ471	34 10 22	111 34 27	5.0	.7	.3	.20	500	N	N	N	30	1,500
MZ472	34 10 8	111 34 8	5.0	.5	.2	.20	500	N	N	N	10	1,500
MZ473	34 10 4	111 34 43	7.0	1.5	2.0	.30	1,000	N	N	N	50	1,500
MZ474	34 10 47	111 35 9	7.0	1.5	.7	.50	700	N	N	N	30	1,000
MZ475	34 11 43	111 33 36	7.0	1.5	.5	.30	1,500	N	N	N	200	1,500
MZ477	34 12 29	111 33 17	7.0	1.0	.5	.30	1,000	N	N	N	200	1,500
MZ478	34 12 30	111 33 22	5.0	1.0	.5	.20	1,000	1.5	N	N	100	2,000
MZ479	34 6 14	111 26 0	7.0	1.5	1.0	.30	1,000	N	N	N	15	500
MZ485	34 8 23	111 35 45	5.0	.7	.3	.50	700	<.5	N	N	20	1,500
MZ486	34 8 17	111 35 53	5.0	1.0	.7	.30	1,000	N	N	N	20	1,500
MZ500	34 5 32	111 44 37	7.0	1.0	1.5	.30	700	N	N	N	20	1,500
MZ501	34 5 12	111 44 25	10.0	1.0	2.0	.50	1,000	N	N	N	30	700
MZ502	34 5 16	111 44 26	15.0	1.5	.7	.70	1,000	N	N	N	30	1,000

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	Sc-ppm s
M2459	2.0	N	N	15	150	30	50	N	N	30	50	N	10
M2460	2.0	N	N	15	70	50	50	N	N	20	30	N	7
M2461	3.0	N	N	15	200	30	30	N	N	30	20	N	10
M2463	1.5	N	N	15	100	30	70	N	N	30	500	N	15
M2465	<1.0	N	N	20	20	70	50	N	N	20	20	N	15
M2466	1.5	N	N	20	50	50	20	N	N	15	30	N	15
M2467	2.0	N	N	10	20	20	30	N	N	10	15	N	5
M2468	1.0	N	N	15	70	30	50	N	N	20	20	N	10
M2469	1.0	N	N	30	50	70	70	N	N	20	20	N	20
M2470	1.0	N	N	30	70	70	30	N	N	20	30	N	20
M2471	3.0	N	N	10	50	20	30	<5	30	15	30	N	7
M2472	3.0	N	N	7	20	15	70	<5	20	7	30	N	5
M2473	2.0	N	N	20	50	70	100	N	20	15	50	N	15
M2474	3.0	N	N	20	100	50	50	N	30	20	30	N	10
M2475	1.5	N	N	20	150	50	100	N	N	20	50	N	15
M2477	1.5	N	N	15	150	50	30	N	N	20	50	N	15
M2478	1.5	N	N	15	150	50	30	N	N	15	30	N	10
M2479	1.5	N	N	20	30	70	50	N	N	15	20	N	20
M2485	5.0	N	N	10	50	30	100	5	50	15	50	N	7
M2496	3.0	N	N	20	100	50	100	N	20	50	50	N	10
M2500	1.5	10	N	10	100	50	70	15	<20	20	50	N	15
M2501	2.0	N	20	15	200	70	200	<5	30	30	100	N	20
M2502	2.0	N	N	20	500	70	200	7	30	50	70	N	30

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Tn-ppm s
MZ459	N	300	70	N	20	N	200	N
MZ460	N	150	70	N	15	N	150	N
MZ461	N	150	70	N	20	N	200	N
MZ463	N	200	70	N	15	N	70	N
MZ465	N	200	150	N	15	<200	50	N
MZ466	N	200	100	N	30	N	150	N
MZ467	N	100	20	N	20	N	100	N
MZ468	N	300	50	N	20	N	200	N
MZ469	N	200	200	N	20	N	150	N
MZ470	N	300	150	N	20	N	100	N
MZ471	<10	<100	30	N	150	N	500	N
MZ472	N	100	30	N	50	N	300	N
MZ473	N	200	200	N	50	N	200	N
MZ474	N	200	100	N	50	N	300	N
MZ475	N	200	100	N	20	200	100	N
MZ477	N	200	100	N	15	300	100	N
MZ478	50	200	100	N	15	N	100	N
MZ479	<10	200	150	N	15	N	70	N
MZ485	10	150	50	N	200	N	>1,000	N
MZ486	N	150	70	N	200	N	200	N
MZ500	N	200	100	150	50	N	700	<100
MZ501	N	200	200	N	150	N	1,000	<100
MZ502	N	200	300	N	200	N	>1,000	150