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Analytical results, geochemical signatures, and sample locality map of lode gold, placer gold, and heavy-mineral concentrates from the Koyukuk-Chandalar mining district, Alaska

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INTRODUCTION

Geochemical studies of Alaskan gold deposits were begun in 1984 as a joint study by the U.S. Geological Survey and the State of Alaska Division of Geological and Geophysical Surveys. The objectives of the study are (1) to characterize the deposits, (2) to determine relationships of gold in placer deposits to possible lode sources, (3) to identify possible sources of gold in placer deposits, (4) to study processes of placer formation, (5) to contribute to existing knowledge of the principles of prospecting for placer deposits, and (6) to determine if minerals associated with placer deposits might suggest economic deposits of other metals. The purpose of this report is to release both the analytical data and gold signatures for lode and placer gold and also the analytical data of associated heavy-mineral concentrates. Gold signatures comprise the alloy proportions and ratios of gold, silver, and copper, and the content of trace elements (Antweiler and Campbell, 1976).

The Koyukuk-Chandalar district lies almost entirely within the Wiseman and Chandalar 1^{o} x 3^{o} quadrangles. A small portion of the Koyukuk district extends into the Bettles 1^{o} x 3^{o} quadrangle. Nearly all gold production in the Koyukuk-Chandalar district has come from Quaternary placer deposits that occur in a belt about 160 km in length (fig. 1). Devonian and Mississippian metasedimentary rocks comprise bedrock at most localities (Brosgé and Reiser, 1964, 1971; Dillon, 1982), but conglomerate of Jurassic age occurs at Tramway Bar in the Wiseman quadrangle (Brosgé and Reiser, 1971). The metasedimentary rocks are composed of conglomerate, sandstone, siltstone, shale, and recrystallized limestone that are interbedded with and intruded by coeval mafic and felsic volcanic and plutonic rocks (Dillon, 1982). Three or more episodes of metamorphism and multiple episodes of faulting (including some thrust faulting) complicate the geology (Dillon, 1982). Known gold-bearing veins postdate the latest Cretaceous metamorphism (Dillon, 1982).

SAMPLING AND ANALYTICAL PROCEDURE

Lode gold was obtained from six locations--sites A-G on the sample location map. Insufficient gold was recovered for analysis from site F but is included in this report because a heavy-mineral concentrate was collected at the site. Sites A-F are clustered near the center of the Chandalar 1^{o} x 3^{o} quadrangle and site G is located at Sukakpak Mountain in the west-central part of the Chandalar quadrangle (plate 1).

Placer gold and associated heavy-mineral concentrates from stream-sediment samples were obtained from most of the active claims in the Koyukuk-Chandalar mining district. At some localities, miners very generously provided us with ample amounts of gold for analysis. To determine whether differences in composition could be correlated with physical attributes, these samples were handled in various ways. Some were sieved into two or more size ranges; others were separated by color; and some were separated on the basis of physical characteristics, e.g., rounded, angular, blocky, delicate, etc. Self-explanatory, descriptive information is included in the analytical tables. Where no descriptive information is provided, the samples were generally small, and no sorting of individual grains was attempted prior to analysis.

A total of 460 emission spectrographic analyses using a technique described by Mosier (1975) were made on placer gold from 46 mines and prospects. These are the numbered sites on the sample location map (plate 1). Using the same technique, 28 emission spectrographic analyses were

made on the lode gold (lettered sites on sample location map). The elements analyzed and their lower limits of determination are listed in table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides, graphite, and 99.999 percent metallic gold. Pure Al_2O_3 was added to the standards and samples as a codistillation agent. 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. Standard concentrations are based on a 5-mg gold sample weight. Because of the nature of native gold, it is often difficult to weigh exact 5-mg samples and in many incidences there is less than 5 mg of gold available for analysis. Therefore, the reported concentration values are corrected to reflect a 5-mg sample weight by the following formula:

$$\text{reported concentration value} = \text{determined value} \times \frac{5}{\text{sample weight}} .$$

The trace-element content of natural gold varies greatly from grain to grain as well as from deposit to deposit which creates a problem in determining the precision of the analytical technique. However, studies using artificial melts show that the precision of the analytical method far exceeds the natural variance of trace elements in native gold (Mosier, 1975).

Heavy-mineral-concentrate samples were obtained at most sites by wet-sieving stream sediment through a stainless-steel screen with a mesh opening of 2 mm into a 14-in steel gold pan and by panning the minus-20-mesh material. In the laboratory, the panned concentrate was air dried and sieved through a 30-mesh (0.8-mm) sieve to remove most of the rock-forming minerals. The minus-30-mesh fraction was further separated using bromoform to remove the remaining minerals of a specific gravity less than 2.85. A nonmagnetic fraction of each sample was obtained using a Frantz Electromagnetic Separator with equivalent settings of 0.7 ampere and track settings of 5° forward slope and 10° side tilt. Relatively nonmagnetic fractions free of the dilutant minerals, magnetic iron oxides, garnet, amphibole, pyroxene, epidote, and other high-iron/low magnesium silicates were obtained by this procedure.

The heavy-mineral-concentrate samples were analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower and upper limits of determination are listed in table 2. As with the analytical method for gold, spectrographic results were obtained by visual comparison of spectra derived from sample against spectra obtained from standards made from pure oxides and carbonates with the same geometrical spacing of concentrations. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Analytical data for lode gold, placer gold, and heavy-mineral-concentrate samples from the Koyukuk-Chandalar mining district, Alaska, are listed in tables 3, 4, and 5, respectively.

DESCRIPTION OF DATA TABLES

The analytical results for lode and placer gold (tables 3 and 4) are given in weight percent and are presented by localities. The USGS-assigned sample number is given under sample. When sufficient gold was available from a particular site, multiple analyses were made and the results are listed in order of the decreasing gold fineness. For this study, fineness is defined as:

$$\text{fineness} = \frac{\text{Au}}{\text{Au} + \text{Ag}} \times 1{,}000 .$$

The gold value was determined by difference, that is:

$$\text{Au\%} = 100\text{-}(\text{Ag\%} + \text{X\%}),$$

where X% is the sum of elements other than gold and silver. If an element was not detected, two dashes (--) are entered in tables 3 and 4 in place of an analytical value. The actual weight in milligrams of the gold sample analyzed is given under Au-SW. The values under R = Au/Ag, Au/Cu, Ag/Cu, and R/Cu are self-explanatory alloy ratios that are part of the gold signature (Antweiler and Campbell, 1976). Because the sample weight often varies from the 5-mg weight designed for the method and because these are computer-generated data, the results listed in these tables often carry nonsignificant digits to the right of the significant digits. The analysts did not determine these values to the accuracy suggested by the extra mumbers.

Table 5 lists the results of the analyses for heavy-mineral-concentrate samples and are presented by localities. No analytical data on heavy-mineral concentrates were obtained from sites A, B, E, F, G, 3, 5, 6, 18, and 27. Values determined for the major elements (iron, magnesium, calcium, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). The USGS-assigned sample number corresponds to the lode and placer gold assigned number. Mercury was determined by an instrument technique modified from McNerney and others, 1972, and Vaughn and McCarthy, 1964. Mercury and thorium were not determined in localities 25, 26, 29, and 31. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 2. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in place of an analytical value.

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TABLE 1.--Lower limits of determination for the spectrographic analysis of gold based on a 5-mg sample

Element	Lower determination limit
	Percent
Silver (Ag)	0.001
Copper (Cu)	.0005
Zinc (Zn)	.005
Gallium (Ga)	.0002
Lead (Pb)	.0002
Arsenic (As)	.005
Antimony (Sb)	.002
Cadmium (Cd)	.0002
Bismuth (Bi)	.0002
Indium (In)	.0005
Mercury (Hg)	.002
Tellurium (Te)	.005
Nickel (Ni)	.0005
Cobalt (Co)	.0005
Tin (Sn)	.0005
Molybdenum (Mo)	.0005
Germanium (Ge)	.0005
Platinum (Pt)	.001
Palladium (Pd)	.0002
Barium (Ba)	.0005
Strontium (Sr)	.01
Zirconium (Zr)	.0005
Vanadium (V)	.001
Chromium (Cr)	.001
Yttrium (Y)	.0005
Lanthanum (La)	.002
Scandium (Sc)	.0005
Niobium (Nb)	.001
Boron (B)	.0005
Tantalum (Ta)	.005
Beryllium (Be)	.0001
Tungsten (W)	.005
Manganese (Mn)	.0001
Iron (Fe)	.001
Magnesium (Mg)	.0005
Calcium (Ca)	.001
Titanium (Ti)	.001
Silicon (Si)	.0002

TABLE 2.--Limits of determination for the spectrographic analysis of heavy-mineral concentrates based on a 5-mg sample

Elements	Lower determination limit	Upper determination limit
	Percent	
Iron (Fe)	.1	50
Magnesium (Mg)	.05	20
Calcium (Ca)	.1	50
Titanium (Ti)	.005	2
	Parts per million	
Manganese (Mn)	20	10,000
Silver (Ag)	1	10,000
Arsenic (As)	500	20,000
Gold (Au)	20	1,000
Boron (B)	20	5,000
Barium (Ba)	50	10,000
Beryllium (Be)	2	2,000
Bismuth (Bi)	20	2,000
Cadmium (Cd)	50	1,000
Cobalt (Co)	10	5,000
Chromium (Cr)	20	10,000
Copper (Cu)	10	50,000
Lanthanum (La)	50	2,000
Molybdenum (Mo)	10	5,000
Niobium (Nb)	50	5,000
Nickel (Ni)	10	10,000
Lead (Pb)	20	50,000
Antimony (Sb)	200	20,000
Tin (Sn)	20	2,000
Strontium (Sr)	200	10,000
Vanadium (V)	20	20,000
Tungsten (W)	100	20,000
Yttrium (Y)	20	5,000
Zinc (Zn)	500	20,000
Zirconium (Zr)	20	2,000
Thorium (Th)	200	5,000

Table 3.--Signatures of lode gold from the Koyukuk-Chandalar mining district, Bettles, Chandalar, and Wiseman quadrangles, Alaska.

[Fineness = $\frac{Au}{Au+Ag}$ x 1000; X = sum of elements other than gold and silver; %, percent; Au-SW, Au sample weight in millgrams analyzed; Valid Obs., number of analysis in which element was detected; N.D, not detected; A-F, lode gold localities]

Table 3.--Continued
St. Mary's Creek (locality A)
Quartz vein gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3037A	886.8394	87.9663	11.2245	.0204	.8092	--	--	.001	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3037A	--	--	--	--	.2041	--	.0014	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3037A	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3037A	--	--	--	--	--	--	.0006	.102	.0102	.0408

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3037A	.0204	.4082	2.45	7.837	4,310.3477	550	384.0129

Table 3.--Continued
Little Squaw Mine (locality B)
Plus 100-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3056XC	856.8162	81.6002	13.6364	.0114	4.7634	--	--	.0003
3056XE	850.7275	84.3244	14.7959	.0102	.8797	--	--	.0005
3056XB	838.4368	82.7547	15.9465	.0103	1.2988	--	--	.0005
3056XA	830.3765	82.7314	16.8998	.0117	.3688	--	--	.0035
3056XD	829.5498	81.9168	16.8317	.0099	1.2515	--	--	.0005

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3056XC	2.2727	--	--	--	--	.1705	--	--	--	--
3056XE	.3061	--	--	--	--	.1531	--	--	--	--
3056XB	.5144	--	--	--	--	.1029	--	--	--	--
3056XA	.1748	.002	--	--	--	.0583	--	--	--	--
3056XD	.4950	.002	--	--	--	.1485	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3056XC	--	--	--	--	--	--	--	--	--	--
3056XE	--	--	--	--	--	--	--	--	--	--
3056XB	--	--	--	--	--	--	--	--	--	--
3056XA	--	--	--	--	--	--	--	--	--	--
3056XD	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3056XC	--	--	--	--	--	--	--	.0001	2.2727	.0008	.0008
3056XE	--	--	--	--	--	--	--	.0002	.3061	.0007	.0007
3056XB	--	--	--	--	--	--	--	.0002	.5144	.0007	.0010
3056XA	--	--	--	--	--	--	--	.0006	.0816	.0006	.0008
3056XD	--	--	--	--	--	--	--	.0001	.4950	.0007	.0007

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3056XC	--	.0341	4.40	5.9840	7,180.8164	1,200.0000	526.5930
3056XE	--	.1020	4.90	5.6992	8,263.7852	1,449.9998	558.5176
3056XB	--	.1543	4.86	5.1895	8,043.7578	1,550.0000	504.4214
3056XA	--	.0350	4.29	4.8954	7,098.3516	1,450.0005	420.0261
3056XD	--	.0990	5.05	4.8668	8,273.6016	1,699.9995	491.5493

Table 3.--Continued
Little Squaw Mine (locality B)
Minus 100-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3056A	926.8367	91.5461	7.2266	.0195	1.2273	--	--	.0078	.2734

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3056A	--	--	--	--	.5859	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3056A	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3056A	--	--	--	--	--	--	--	.2734	.0027	.0059

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3056A	--	.0586	1.28	12.668	4,687.1602	370.0002	648.6013

Table 3.--Continued
Little Squaw Mine (locality B)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2564	865.654	86.2964	13.3929	.0179	.3107	--	--	.0004	.0893

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2564	.0018	--	--	--	.0625	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2564	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2564	--	--	.0009	--	--	--	.0004	.0893	.0009	.0009

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2564	.0018	.0446	5.6	6.4435	4,832.6016	750	360.8342

Table 3.--Continued
Summit Mine (locality C)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2603	880.5239	85.6961	11.6279	.0174	2.6760	--	--	.0017
AU2602	849.4150	84.6117	15.0000	.0150	.3883	--	--	.0007
AU2602	849.1218	84.4178	15.0000	.0150	.5822	--	--	.0070
AU2603	797.8130	78.9183	20.0000	.0150	1.0817	--	--	.0100

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2603	.6977	.0023	--	--	--	.0814	--	.001	--	--
AU2602	.1500	--	--	--	--	.1000	--	--	--	--
AU2602	.2000	--	--	.0005	--	.1000	--	--	--	--
AU2603	.6000	--	--	.0010	--	.1000	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
AU2603	--	--	--	--	--	--	.0023	--	.0035	--
AU2602	--	--	--	--	--	--	--	--	--	--
AU2602	--	--	--	--	--	--	--	--	--	--
AU2603	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2603	--	--	--	--	--	--	--	.0006	.6977	.0023	.0035
AU2602	--	--	--	--	--	--	--	.0001	.1000	.0010	.0010
AU2602	--	--	--	.0015	--	--	--	.0002	.1500	.0015	.0015
AU2603	--	--	--	--	--	--	--	.0002	.3000	.0020	.0030

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2603	.0017	1.1628	4.3	7.3699	4,913.2461	666.6667	422.5393
AU2602	.0005	.0200	5.0	5.6408	5,640.7813	1,000.0000	376.0520
AU2602	.0050	.1000	5.0	5.6279	5,627.8555	1,000.0000	375.1904
AU2603	.0005	.0500	5.0	3.9459	5,261.2188	1,333.3333	263.0610

D

Table 3.--Continued
Mikado Open Pit (locality D)
Plus 35-mesh gold from stockpiled ore

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3004XA	727.3296	67.3269	25.2404	.0036	7.4327	--	--	3.6058

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3004XA	.0841	.3606	--	.0601	--	.0601	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3004XA	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%
3004XA	--	--	--	.0012	--	--	--	.0012	.8413	.0036

Sample	Ca%	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3004XA	.006	.0012	2.4038	4.16	2.6674	18,671.992	7,000	739.7666

Table 3.--Continued
Mikado Open Pit (locality D)
Minus 35-mesh gold from stockpiled ore

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3004A	769.4485	76.2467	22.8459	.0020	.9074	--	--	.0261
3004B	700.8513	68.3322	29.1667	.0017	2.5012	--	--	.1667

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3004A	.0653	.0023	--	.0004	--	.0914	--	--	--	--
3004B	.5000	.0050	--	.0025	--	.1167	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3004A	--	--	--	--	--	--	--	--	--	--
3004B	--	--	--	--	.0008	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3004A	--	--	--	--	--	--	--	--	.0653	.0013	.0007
3004B	--	--	--	--	--	--	--	.0012	.8333	.0033	.0333

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3004A	--	.6527	3.83	3.3374	38,936.648	11,666.664	1,704.3130
3004B	.0033	.8333	3.00	2.3428	40,999.293	17,500.000	1,405.6897

Table 3.--Continued
Mikado Open Pit (locality D)
Gold from quartz vein

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3004YE	800.7646	78.4413	19.5167	.0558	2.0420	--	--	.0279
3004YC	784.5710	77.8184	21.3675	.0064	.8141	--	--	.0150
3004YB	777.0151	76.3053	21.8978	.0128	1.7969	--	--	.0128
3004YA	772.1697	75.3831	22.2420	.0089	2.3749	--	--	.3559
3004YD	740.2236	72.5318	25.4545	.0091	2.0136	--	--	.0018

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3004YE	.5576	--	--	.0004	--	.0929	--	--	--	--
3004YC	.2137	--	--	--	--	.1496	--	--	--	--
3004YB	.5474	--	--	--	--	.1277	--	--	--	--
3004YA	.3559	.089	--	.0125	--	.1246	--	--	--	--
3004YD	.5455	--	--	--	--	.1818	--	.0009	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3004YE	--	--	--	--	--	--	--	--	--	--
3004YC	--	--	--	--	--	--	--	--	--	--
3004YB	--	--	--	--	--	--	--	--	--	--
3004YA	--	--	--	--	--	--	--	--	--	--
3004YD	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3004YE	--	--	--	--	--	--	--	--	.9294	.0013	.0013
3004YC	--	--	--	--	--	--	--	--	.2137	.0011	.0011
3004YB	--	--	--	--	--	--	--	--	.9124	.0009	.0004
3004YA	--	--	--	--	--	--	--	--	.5338	.0012	.0036
3004YD	--	--	--	--	--	--	--	--	.9091	.0009	.0009

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3004YE	.0037	.3717	2.69	4.0192	1,406.714	350.0000	72.0773
3004YC	--	.2137	2.34	3.6419	12,139.668	3,333.3337	568.1365
3004YB	--	.1825	2.74	3.4846	5,973.613	1,714.2859	272.7952
3004YA	--	.8897	2.81	3.3892	8,473.066	2,500.0015	380.9492
3004YD	--	.3636	2.75	2.8495	7,978.500	2,800.0002	313.4412

Table 3.--Continued
Mikado Mine (locality E)
Gold from lower level Mikado Open Pit

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3005A	774.9968	76.5419	22.2222	.0093	1.2359	--	--	.0028	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3005A	--	--	--	--	.0926	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3005A	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3005A	--	--	--	--	--	--	.0093	.6481	.0093	.0016

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3005A	--	.463	.54	3.4444	8,266.5273	2,399.9995	371.9939

Table 3.--Continued
Sukakpak Mountain (locality G)
Gold from quartz-stibnite vein

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2974	915.9065	90.7625	8.3333	.0042	.9042	--	--	.0008	--
AU2967	908.2727	90.0173	9.0909	.0064	.8918	--	--	.0018	--
AU2972	899.0027	89.0123	10.0000	.0050	.9877	--	--	.0007	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2974	.0500	--	--	--	.2500	--	--	--	--	--
AU2967	.0545	--	--	--	.6364	--	--	--	--	--
AU2972	.0600	--	--	--	.2000	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2974	--	--	--	--	--	--	--	--	--	.0017
AU2967	--	--	--	--	--	--	--	--	--	--
AU2972	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2974	--	--	--	--	--	--	--	.0008	.0008	.0125
AU2967	--	--	--	--	--	--	--	.0009	.0009	.0091
AU2972	--	--	--	--	--	--	--	.0010	.0010	.0200

Sample	Ti%	Si%	Au-sw	F=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2974	--	.5833	6.0	10.8915	21,783.000	2,000.0000	2,613.9602
AU2967	--	.1818	5.5	9.9019	14,145.570	1,428.5710	1,556.0125
AU2972	--	.7000	5.0	8.9012	17,802.465	2,000.0005	1,780.2463

Table 3.--Continued
Sukakpak Mountain (locality G)
Gold from quartz-stibnite vein

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3145C	922.6941	84.7353	7.0994	.0071	8.1653	--	--	.0005
3145D	921.4077	84.0854	7.1721	.0102	8.7425	--	--	.0003
3145A	920.7483	82.4807	7.0994	.0304	10.4199	.0304	--	.0020
3145B	895.9128	83.7291	9.7276	.0097	6.5433	--	--	.0015

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3145C	--	3.0426	--	--	--	5.0710	--	--	--	--
3145D	--	3.0738	--	--	--	5.1230	--	--	--	--
3145A	--	5.0710	--	--	--	5.0710	--	--	--	--
3145B	--	1.4591	--	--	--	4.8638	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3145C	--	--	--	--	--	--	--	--	--	--
3145D	--	--	--	--	--	--	--	--	--	--
3145A	--	--	--	--	--	--	--	--	--	--
3145B	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3145C	.0051	--	--	--	--	--	--	--	.0020	.0015	.0152
3145D	.0051	--	--	--	--	--	--	--	.0009	.0015	.0154
3145A	.0051	--	--	--	--	--	--	--	.0051	.0020	.1014
3145B	.0029	--	--	--	--	--	--	--	.0010	.0010	.0097

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3145C	--	.0203	4.93	11.9356	11,935.582	1,000.0002	1,681.2126
3145D	--	.5123	4.88	11.7239	8,206.730	699.9998	1,144.2522
3145A	--	.1014	4.93	11.4180	2,710.868	233.3333	381.8455
3145B	--	.1946	5.14	8.6074	8,607.348	999.9998	884.8354

Table 4.--Signatures of placer gold from the Koyukuk-Chandalar mining district, Bettles, Chandalar, and Wiseman quadrangles, Alaska.

[Fineness = $\frac{Au}{Au+Ag}$ x 1000; X = sum of elements other than gold and silver; %, percent; Au-SW, Au sample weight in millgrams analyzed; Valid Obs., number of analysis in which element was detected; N.D, not detected; 1-46, placer gold localities]

Table 4.--Continued
Middle Fork Big Squaw Creek (locality 1)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3006A	768.7764	76.1102	22.8916	.006	.9982	--	--	.003	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3006A	--	--	--	--	.1205	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3006A	--	--	--	.0181	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3006A	--	--	--	--	--	--	.0012	.3012	.006	.1205

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3006A	--	.4217	.83	3.3248	12,634.297	3,800.0010	551.9192

Table 4.--Continued
Big Creek (locality 2)
Plus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3008XA	806.2563	80.2751	19.2901	.0154	.4347	--	--	.0309	--
3008XB	794.9170	78.7021	20.3046	.0127	.9933	--	--	.2538	.0254

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3008XA	.0031	--	.0023	--	.1543	--	--	--	--	--
3008XB	.0089	--	.0190	--	.1904	--	.0009	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3008XA	--	--	--	.0011	--	--	--	--	--	--
3008XB	--	--	--	.0019	--	--	--	--	.0006	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3008XA	--	--	--	--	--	--	.0008	.1080	.0077	.0015
3008XB	--	--	--	--	--	--	.0013	.3807	.0038	.0025

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3008XA	.0015	.1080	3.24	4.1615	5,201.8281	1,250	269.6626
3008XB	.0025	.0888	3.94	3.8761	6,201.7305	1,600	305.4353

Table 4.--Continued
Big Creek (locality 2)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3008C	899.3284	87.8977	9.8394	.0151	2.2630	--	--	.0007
3008B	877.6995	87.0139	12.1247	.0231	.8614	--	--	.0006
3008D	857.8948	84.3888	13.9785	.0323	1.6327	--	--	.0005
3008A	827.6121	78.8714	16.4286	.0143	4.7000	--	--	.0007
3008E	815.5505	80.4390	18.1925	.0352	1.3685	--	--	.0006

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3008C	--	--	--	--	--	1.5060	--	.0010	--	--
3008B	--	--	--	--	--	.3464	--	--	--	--
3008D	--	.0054	.0003	--	--	1.0753	--	.0008	--	--
3008A	--	--	--	--	--	.7143	--	.0043	.0029	--
3008E	.0047	.0059	.0023	--	--	.8216	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3008C	--	--	--	--	--	--	.0007	--	--	--
3008B	--	--	--	--	--	--	.0012	--	--	--
3008D	--	--	--	.0002	--	--	.0008	--	--	--
3008A	--	--	--	--	--	--	--	--	.0007	--
3008E	--	--	--	--	--	--	.0006	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3008C	--	--	--	--	--	--	--	.0015	.5020	.0151	.0050
3008B	--	--	--	--	--	--	--	.0017	.2309	.0081	.0012
3008D	--	--	--	--	--	--	--	.0011	.3226	.0054	.0161
3008A	--	--	--	--	--	--	--	.0143	2.8571	.0714	.0100
3008E	--	--	--	.0012	--	--	--	.0012	.3521	.0082	.0059

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3008C	.0151	.2008	4.98	8.9333	5,836.4063	653.3333	593.1697
3008B	.0173	.2309	4.33	7.1766	3,767.6995	525.0000	310.7454
3008D	.0108	.1613	4.65	6.0370	2,616.0537	433.3333	187.1485
3008A	.0100	1.0000	3.50	4.8009	5,520.9961	1,149.9995	336.0608
3008E	.0117	.1174	4.26	4.4215	2,284.4666	516.6667	125.5720

Table 4.--Continued
St. Mary's Creek (locality 3)
Plus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3007XF	842.9937	83.7438	15.5971	.0134	.6591	--	--	.0004
3007XA	823.9163	82.1335	17.5532	.0106	.3133	--	--	.0106
3007XG	816.8193	81.0744	18.1818	.0091	.7438	--	--	.0002
3007XD	810.1267	78.9183	18.4964	.0084	2.5853	--	--	.0006
3007XB	787.3164	77.2907	20.8791	.0077	1.8302	--	--	.0110
3007XH	769.0713	76.3203	22.9167	.0104	.7630	--	--	.0005
3007XE	756.0522	75.0421	24.2131	.0061	.7448	--	--	.0036
3007XC	681.7832	67.3362	31.4286	.0029	1.2353	--	--	.0286

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3007XF	.0089	--	--	--	--	.0891	--	--	--	--
3007XA	--	--	--	--	--	.0745	--	--	--	--
3007XG	.0045	.0027	--	--	--	.0636	--	--	--	--
3007XD	--	--	--	--	--	.0597	--	--	--	--
3007XB	--	--	--	--	--	.0769	--	--	--	--
3007XH	.0052	--	--	.0021	--	.1042	--	--	--	--
3007XE	--	--	--	--	--	.2421	--	--	--	--
3007XC	--	.0071	--	.0010	--	.1000	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3007XF	--	--	--	--	--	--	--	--	--	--
3007XA	--	--	--	--	--	--	--	--	--	--
3007XG	--	--	--	--	--	--	--	--	--	--
3007XD	--	--	--	--	--	--	.0024	--	--	--
3007XB	--	--	--	--	--	--	--	--	--	--
3007XH	--	--	--	--	--	--	--	--	--	--
3007XE	--	--	--	--	--	--	--	--	--	--
3007XC	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3007XF	--	--	--	--	--	--	--	.0018	.4456	.0062	.0027
3007XA	--	--	--	--	--	--	--	.0005	.1596	.0021	.0011
3007XG	--	--	--	--	--	--	--	.0091	.4545	.0091	.0091
3007XD	--	--	--	--	--	--	--	.0119	1.7900	.0084	.0239
3007XB	--	--	--	--	--	--	--	.0016	1.6484	.0055	.0022
3007XH	--	--	--	--	--	--	--	.0021	.3125	.0104	.0021
3007XE	--	--	--	--	--	--	--	.0009	.3632	.0061	.0006
3007XC	--	--	--	--	--	--	--	.0071	.7143	.0100	.0071

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3007XF	.0018	.0891	5.61	5.3692	6,264.031	1,166.667	401.6140
3007XA	.0011	.0532	4.70	4.6791	7,720.551	1,650.000	439.8374
3007XG	.0455	.1364	5.50	4.4591	8,918.176	2,000.000	490.4995
3007XD	.0835	.5967	4.19	4.2667	9,447.645	2,214.285	510.7825
3007XB	--	.0769	4.55	3.7018	10,047.793	2,714.287	481.2363
3007XH	.0010	.3125	4.80	3.3303	7,326.746	2,200.000	319.7124
3007XE	.0012	.1211	4.13	3.0992	12,396.969	4,000.002	511.9949
3007XC	.0714	.2857	3.50	2.1425	23,567.648	11,000.000	749.8794

Table 4.--Continued
St. Mary's Creek (locality 3)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3007A	844.5864	84.0726	15.4703	.0124	.4571	--	--	.0004	--
3007B	808.5750	80.1581	18.9769	.0083	.8650	--	--	.0008	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3007A	--	--	--	--	.1238	--	--	--	--	--
3007B	--	--	--	--	.1650	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3007A	--	--	--	--	--	.0006	--	--	--	--
3007B	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3007A	--	--	--	--	--	--	.0012	.1856	.0062	.0019
3007B	--	--	--	--	--	--	.0012	.4950	.0116	.0165

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3007A	.0012	.1238	4.04	5.4345	6,793.0664	1,249.9998	439.1035
3007B	.0017	.1650	3.03	4.2240	9,715.1602	2,300.0000	511.9465

Table 4.--Continued
Tobin Creek (locality 4)
Unsorted gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3016B	801.1907	79.5382	19.7368	.0033	.7250	--	--	.0055
3016D	796.0229	78.5212	20.1207	.0050	1.3580	.0050	--	.0151
3016C	795.3652	78.5731	20.2156	.0047	1.2113	--	--	.0135
3016A	772.0281	74.7852	22.0833	.0042	3.1314	.0125	--	.0250
3016E	769.6436	75.9341	22.7273	.0046	1.3386	.0046	--	.0139

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3016B	--	--	--	--	--	.1096	--	--	--	--
3016D	.0070	--	--	--	--	.1006	--	.0007	--	--
3016C	.0034	.0013	--	--	--	.0674	--	--	--	--
3016A	.0167	--	--	.0006	--	.1250	--	.0012	--	--
3016E	.0065	--	--	--	--	.0928	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3016B	--	--	--	--	--	--	--	--	--	--
3016D	--	--	--	--	.0007	--	--	--	--	--
3016C	--	--	--	--	.0003	--	--	--	--	--
3016A	--	--	--	--	.0017	--	--	--	--	.0004
3016E	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3016B	--	--	--	--	--	--	--	.0008	.0548	.0022	.0005
3016D	--	--	--	--	--	--	--	.0030	.5030	.0101	.0020
3016C	--	--	--	--	--	--	--	.0010	.1011	.0047	.0020
3016A	.0025	--	--	.0008	--	--	--	.0058	1.6667	.0083	.0058
3016E	--	--	--	--	--	--	--	.0019	.2783	.0046	.0019

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3016B	--	.5482	4.56	4.0299	24,179.609	6,000.0000	1,225.1008
3016D	.0015	.7042	4.97	3.9025	15,610.035	4,000.0005	775.8191
3016C	.0010	1.0108	7.42	3.8867	16,657.496	4,285.7148	823.9907
3016A	.0042	1.2500	6.00	3.3865	17,948.461	5,300.0000	812.7605
3016E	.0019	.9276	5.39	3.3411	16,371.406	4,900.0000	720.3423

Table 4.--Continued
Tobin Creek (locality 4)
Plus 35-mesh gold

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%	AS%
AU2976	830.027	82.7676	16.9492	.0059	.2832	--	--	.0059	--

SAMPLE	SB%	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%	MO%
AU2976	.0017	--	.0006	--	.0424	--	--	--	--	--

SAMPLE	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%	LA%
AU2976	--	--	--	--	--	--	--	--	--	--

SAMPLE	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2976	--	--	--	--	--	--	.0013	.0847	.0059	.0017

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2976	.0059	.1271	5.9	4.8833	13,952.254	2,857.1433	823.1829

Table 4.--Continued
Tobin Creek (locality 4)
Minus 35-mesh gold

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%	AS%
AU2508	831.1421	82.0356	16.6667	.0111	1.2978	--	--	.0033	--
AU2508	817.8303	81.6253	18.1818	.0136	.1929	--	--	.0005	--
AU2508	810.7126	80.8107	18.8679	.0066	.3214	--	--	.0019	--

SAMPLE	SB%	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%	MO%
AU2508	.0056	--	--	--	.0333	--	--	--	--	--
AU2508	--	--	.0005	--	.0455	--	--	--	--	--
AU2508	--	--	.0005	--	.0660	--	--	--	--	--

SAMPLE	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%	LA%
AU2508	--	--	--	--	--	.0006	--	--	--	--
AU2508	--	--	--	--	--	.0005	--	--	--	--
AU2508	--	--	--	--	--	.0005	--	--	--	--

SAMPLE	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2508	--	--	--	--	--	--	.0006	.1111	.0111	.0022
AU2508	--	--	--	--	--	--	.0005	.0636	.0027	.0014
AU2508	--	--	--	--	--	--	.0007	.0943	.0047	.0019

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2508	.0078	1.1111	4.5	4.9221	7,383.203	1,499.9993	442.9924
AU2508	.0006	.0636	5.5	4.4894	5,985.852	1,333.3335	329.2217
AU2508	.0028	.1415	5.3	4.2830	12,237.043	2,857.1421	648.5635

Table 4.--Continued
Tobin Creek (locality 5)
Unsorted gold recovered from depth of 5 ft in test hole

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3018A	814.6677	81.2142	18.4758	.0081	.3100	--	--	--
3018D	795.6204	78.3926	20.1375	.0069	1.4699	--	--	.4912
3018B	787.4856	78.3714	21.1497	.0054	.4790	--	--	.0054
3018E	775.8726	77.2712	22.3214	.0078	.4074	--	--	.0006
3018C	765.5071	76.2415	23.3546	.0106	.4039	--	--	.0005

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3018A	--	.0023	--	--	--	.1155	--	--	--	--
3018D	.1473	.1965	--	.0069	--	.0982	--	.0005	--	--
3018B	--	.0054	--	--	--	.1085	--	--	--	--
3018E	--	--	--	--	--	.1116	--	--	--	--
3018C	--	--	--	--	--	.0531	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3018A	--	--	--	--	--	--	--	--	--	--
3018D	--	--	--	--	.0029	--	--	--	--	--
3018B	--	--	--	--	--	--	--	--	--	--
3018E	--	--	--	--	--	--	--	--	--	--
3018C	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3018A	--	--	--	--	--	--	--	.0006	.0577	.0081	.0012
3018D	.0049	--	--	.0008	--	--	--	.0010	.1965	.0098	.0049
3018B	--	--	--	--	--	--	--	.0002	.0217	.0054	.0011
3018E	--	--	--	--	--	--	--	.0006	.1674	.0056	.0022
3018C	--	--	--	--	--	--	--	.0011	.1062	.0106	.0021

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3018A	.0012	.1155	4.33	4.3957	10,047.355	2,285.7144	543.8130
3018D	.0069	.2947	5.09	3.8929	11,400.523	2,928.5725	566.1333
3018B	.0004	.3254	4.61	3.7056	14,451.688	3,900.0017	683.3057
3018E	--	.1116	4.48	3.4617	9,890.711	2,857.1445	443.1035
3018C	.0074	.2123	4.71	3.2645	7,181.949	2,199.9998	307.5178

Table 4.--Continued
Tobin Creek (locality 5)
Gold-coated quartz pebble

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3018XA	785.7883	73.7872	20.1149	.0082	6.0979	--	--	.0002	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3018XA	--	--	--	--	.0821	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3018XA	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3018XA	--	--	--	--	--	--	.0016	.2463	.0041	.0041

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3018XA	.0041	5.7471	6.09	3.6683	8,987.2773	2,449.9998	446.7961

Table 4.--Continued
Tobin Creek (locality 5)
Unsorted gold recovered from shallow hole test pit

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3018YD	786.7979	77.0718	20.8845	.0061	2.0437	--	--	.8600
3018YA	776.9780	77.1237	22.1374	.0038	.7389	--	--	.0023
3018YB	770.9653	76.0842	22.6028	.0068	1.3130	--	--	.0137
3018YC	770.7876	76.4264	22.7273	.0091	.8464	--	--	.0130
3018YE	756.2983	75.2550	24.2494	.0058	.4956	--	--	.0081

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3018YD	.1229	.0123	--	.0246	--	.1229	--	.0009	--	--
3018YA	.0076	--	--	--	--	.1527	--	.0011	--	--
3018YB	.0068	--	--	--	--	.1370	--	.0014	--	--
3018YC	--	--	--	--	--	.0649	--	.0006	--	--
3018YE	--	.0023	--	--	--	.1155	--	.0017	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3018YD	--	--	--	--	.0037	--	--	--	--	--
3018YA	--	--	--	--	.0015	--	--	--	--	--
3018YB	--	--	--	--	.0014	--	.0014	--	--	.0007
3018YC	--	--	--	--	.0006	--	--	--	--	--
3018YE	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3018YD	--	--	--	.0010	--	--	--	.0025	.2457	.0184	.0061
3018YA	.0038	--	--	.0015	--	--	--	.0011	.1527	.0153	.0023
3018YB	--	--	--	--	--	--	--	.0068	.4110	.0205	.0068
3018YC	--	--	--	--	--	--	--	.0009	.0909	.0130	.0019
3018YE	--	--	--	--	--	--	--	.0008	.1155	.0115	.0023

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3018YD	.0025	.6143	4.07	3.6904	12,547.293	3,400.0010	600.7937
3018YA	.0115	.3817	6.55	3.4839	20,206.406	5,800.0000	912.7720
3018YB	.0137	.6849	3.65	3.3661	11,108.297	3,300.0020	491.4578
3018YC	.0019	.6494	3.85	3.3628	8,406.902	2,499.9995	369.9038
3018YE	.0012	.2309	4.33	3.1034	13,034.164	4,200.0000	537.5042

Table 4.--Continued
Eightmile Creek (locality 6)
Unsorted gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3038B	941.6936	93.5770	5.7940	.0161	.6290	--	--	.0008	--
3038D	928.2449	92.0466	7.1154	.0144	.8380	--	--	.0096	--
3038C	887.0947	88.3206	11.2410	.0090	.4384	--	--	.0004	--
3038A	863.6633	85.7836	13.5417	.0208	.6747	--	--	.0007	--
3038E	856.0425	83.2510	14.0000	.0150	2.7490	--	--	.0010	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3038B	--	--	--	--	.1609	--	.0075	--	--	--
3038D	.0144	--	.0019	--	.0962	--	.0048	.0010	--	--
3038C	.0090	--	--	--	.1349	--	.0045	--	--	--
3038A	--	--	.0016	--	.2083	--	--	--	--	--
3038E	--	--	.0010	--	2.0000	--	.0100	.0005	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3038B	--	--	--	--	--	--	--	--	--	--
3038D	--	--	--	--	--	--	--	--	--	--
3038C	--	--	--	--	--	.0018	--	--	--	--
3038A	--	--	--	--	--	--	--	--	--	--
3038E	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3038B	--	--	--	--	--	--	.0016	.3219	.0075	.0054
3038D	--	--	--	--	--	--	.0019	.4808	.0096	.0096
3038C	--	--	--	--	--	--	.0009	.1799	.0045	.0018
3038A	--	--	--	--	--	--	.0016	.3125	.0073	.0156
3038E	--	--	--	--	--	--	.0015	.5000	.0100	.0070

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3038B	--	.1073	4.66	16.1507	5,814.2500	360.0000	1,003.4961
3038D	.0014	.1923	5.20	12.9363	6,381.8984	493.3333	896.9155
3038C	.0018	.0899	5.56	7.8570	9,821.2500	1,249.9998	873.6985
3038A	.0021	.1042	4.80	6.3348	4,117.6133	650.0000	304.0698
3038E	.0030	.2000	5.00	5.9465	5,550.0664	933.3333	396.4333

Table 4.--Continued
Garnet Creek (locality 7)
Plus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3009XC	875.0205	87.1531	12.4481	.0104	.3988	--	--	.0052	--
3009XE	871.6479	86.8794	12.7932	.0107	.3275	--	--	.0160	--
3009XD	861.5605	85.8138	13.7890	.0120	.3972	--	--	.0018	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3009XC	.0052	--	.0007	--	.2075	--	--	--	--	--
3009XE	.0053	--	.0011	--	.2132	--	--	--	--	--
3009XD	.0060	--	.0004	--	.1799	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3009XC	--	--	--	--	--	--	--	--	--	--
3009XE	--	--	--	--	--	--	--	--	--	--
3009XD	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3009XC	--	--	--	--	--	--	.0007	.0519	.0073	.0052
3009XE	--	--	--	--	--	--	.0002	.0213	.0021	.0032
3009XD	--	--	--	--	--	--	.0006	.0600	.0084	.0060

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3009XC	.0010	.1037	4.82	7.0013	8,401.5547	1,199.9998	674.9246
3009XE	.0011	.0533	4.69	6.7911	8,149.2813	1,199.9998	637.0022
3009XD	.0024	.1199	4.17	6.2234	7,156.8711	1,150.0000	519.0291

Table 4.--Continued
Garnet Creek (locality 7)
Plus 35-mesh gold (high silver-high mercury)

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%	AS%
3009XA	635.6482	61.5741	35.2941	.2353	3.1318	--	--	.0006	--
3009XB	537.7566	52.0117	44.7080	.1825	3.2803	--	--	.0002	--

SAMPLE	SB%	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%	MO%
3009XA	--	--	.0118	--	2.3529	--	.0035	--	--	--
3009XB	.0018	--	.0027	--	2.7372	--	.0009	--	--	--

SAMPLE	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%	LA%
3009XA	--	--	--	--	--	--	--	--	--	--
3009XB	--	--	--	--	--	--	--	--	--	--

SAMPLE	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
3009XA	--	--	--	--	--	--	.0024	.3529	.0176	.0353
3009XB	--	--	--	--	--	--	.0018	.1825	.0091	.0639

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
3009XA	.0018	.1176	4.25	1.7446	261.6899	150	7.4145
3009XB	.0064	.0912	5.48	1.1634	285.0239	245	6.3752

Table 4.--Continued
Garnet Creek (locality 7)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3009A	867.0305	85.3881	13.0952	.0595	1.5167	--	--	.0036	--
3009C	866.4048	85.9792	13.2576	.0253	.7633	--	--	.0006	--
3009B	795.8950	79.1575	20.2997	.0954	.5428	--	--	.0004	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3009A	.0024	--	--	--	1.1905	--	--	--	--	--
3009C	.0038	--	--	--	.3788	--	--	--	--	--
3009B	.0027	--	--	--	.2725	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3009A	--	--	--	--	--	--	--	--	--	.006
3009C	--	--	--	--	--	--	--	--	--	--
3009B	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3009A	--	--	--	--	--	--	.0024	.1190	.0060	.0060
3009C	--	--	--	--	--	--	.0013	.1263	.0189	.0631
3009B	--	--	--	--	--	--	.0010	.1362	.0027	.0041

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3009A	.0024	.1190	4.20	6.5205	1,434.5198	220.0000	109.5451
3009C	.0189	.1263	3.96	6.4853	3,404.7737	525.0000	256.8171
3009B	.0005	.0272	3.67	3.8994	830.0227	212.8571	40.8884

Table 4.--Continued
Lake Creek (locality 8)
Unsorted gold (1983), recovered by placer mining

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3057D	993.3821	98.7497	.6579	.1410	.5924	--	--	.0003	--
3057C	986.4868	98.2976	1.3465	.0898	.3559	--	--	.0006	--
3057B	931.2039	92.2883	6.8182	.0239	.8935	--	--	.0006	--
3057E	927.2141	92.0034	7.2222	.0222	.7743	--	--	.0008	--
3057A	913.7371	90.9926	8.5903	.0551	.4171	--	--	.0006	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3057D	--	--	--	--	.2820	--	--	--	--	--
3057C	--	--	--	--	.1346	--	--	--	--	--
3057B	--	--	--	--	.1196	--	.0006	--	--	--
3057E	--	--	--	--	.3333	--	--	--	--	--
3057A	.0033	--	--	--	.2203	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3057D	--	--	--	--	--	--	--	--	--	--
3057C	--	--	--	--	--	--	--	--	--	--
3057B	--	--	--	.0036	--	--	--	--	--	--
3057E	--	--	--	--	--	.0006	--	--	--	--
3057A	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3057D	--	--	--	--	--	--	.0005	.0658	.0047	.0028
3057C	--	--	--	--	--	--	.0003	.0628	.0018	.0018
3057B	--	--	.006	--	--	--	.0012	.5981	.0084	.0084
3057E	--	--	--	--	--	--	.0008	.1667	.0111	.0111
3057A	--	--	--	--	--	--	.0002	.0551	.0033	.0022

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3057D	.0014	.0940	5.32	150.0996	700.4648	4.6667	1,064.7063
3057C	.0013	.0628	5.57	73.0023	1,095.0349	15.0000	813.2456
3057B	.0036	.1196	4.18	13.5356	3,857.6521	285.0000	565.7893
3057E	.0056	.2222	4.50	12.7389	4,140.1563	325.0000	573.2527
3057A	--	.0771	4.54	10.5925	1,652.4268	156.0000	192.3595

Table 4.--Continued
Lake Creek (locality 8)
Unsorted gold (1982), recovered by panning in field

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%	Sb%	Cd%
AU2586	899.6064	89.608	10	.05	.392	--	--	.002	--	.007	--

Sample	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%	Ge%	Pt%	Pd%	Ba%
AU2586	--	--	.1	--	--	--	--	--	--	--	--	--

Sample	Sr%	Zr%	V%	Cr%	Y%	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%
AU2586	--	--	--	--	--	--	--	--	.005	--	--	--	.001	.1

Sample	Mg%	Ca%	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2586	.007	.01	.01	.1	5	8.9608	1,792.1599	200	179.216

Table 4.--Continued
Magnet Creek (locality 9)
Rounded, well-worn gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%	Sb%
AU2542	899.2708	89.276	10	.005	.724	--	--	.0005	--	.05

Sample	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%	Ge%
AU2542	--	--	--	.5	--	--	--	--	--	--

Sample	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%	Sc%
AU2542	--	--	--	--	--	--	--	--	--	--

Sample	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%	Ti%
AU2542	--	--	--	--	--	.0005	.05	.007	.01	.001

Sample	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2542	.1	5	8.9276	17,855.203	2,000.0005	1,785.5203

Table 4.--Continued
Magnet Creek (locality 9)
Somewhat angular, bright-yellow grains

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2540	978.6404	97.4838	2.1277	.0106	.3885	--	--	.0005	--
AU2540	897.1111	88.9714	10.2041	.0020	.8245	--	--	.0031	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2540	--	--	--	--	.3191	--	--	--	--	--
AU2540	.0612	--	--	--	.5102	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2540	--	--	--	--	--	--	--	--	--	--
AU2540	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2540	--	--	--	--	--	--	.0002	.0319	.0021	.0016
AU2540	--	--	--	--	--	--	.0051	.1020	.0102	.0255

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2540	.0011	.0213	4.7	45.8174	9,163.480	200	4,306.8359
AU2540	.0031	.1020	4.9	8.7192	43,595.973	5,000	4,272.4023

Table 4.--Continued
Gold Creek (locality 10)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2538	870.0413	83.6846	12.5	.0167	3.8154	--	--	.0417	.8333

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2538	--	--	--	--	.5833	--	.0071	.0833	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2538	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2538	--	--	--	--	--	--	.0417	1.6667	.0417	.0833

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2538	.1667	.25	.6	6.6948	5,021.0742	750	401.686

Table 4.--Continued
Gold Creek (locality 10)
Bright yellow gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2779	939.8511	92.6936	5.9322	.0169	1.3742	--	--	.0042	.0042
AU2537	929.6650	92.5242	7.0000	.0100	.4759	--	--	.0020	--
AU2781	910.3079	90.6183	8.9286	.0089	.4531	--	--	.0013	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2779	.0127	--	.0017	--	.1271	--	.0212	.0008	--	.0042
AU2537	.0050	--	--	--	.3000	--	.0008	--	--	--
AU2781	.0179	--	--	--	.1786	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2779	--	--	--	--	--	.0004	--	.0169	--	--
AU2537	--	--	--	--	--	--	--	--	--	--
AU2781	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2779	--	--	.0008	--	--	--	.0254	.5085	.0085	.0212
AU2537	--	--	--	--	--	--	.0030	.0700	.0050	.0050
AU2781	--	--	--	--	--	--	.0009	.1339	.0045	.0134

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2779	.0059	.5932	5.9	15.6255	5,468.926	350	921.9043
AU2537	.0050	.0700	5.0	13.2177	9,252.414	700	1,321.7734
AU2781	.0045	.0893	5.6	10.1493	10,149.250	1,000	1,136.7161

Table 4.--Continued
Gold Creek (locality 10)
Red colored gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2536	929.0708	91.6898	7.0000	.0150	1.3102	--	--	.0007	--
AU2536	902.5098	89.0136	9.6154	.0029	1.3710	--	--	.0067	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2536	.0200	--	--	--	1.0000	--	--	--	--	--
AU2536	.0577	--	--	--	.4808	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2536	--	--	--	--	--	--	--	--	--	--
AU2536	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2536	--	--	--	--	--	--	.0015	.2000	.0070	.0150
AU2536	--	--	.0008	--	--	--	.0048	.2885	.0192	.0192

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2536	.0010	.0500	5.0	13.0985	6,112.652	466.6667	873.236
AU2536	.0096	.4808	5.2	9.2574	30,858.051	3,333.3335	3,209.237

Table 4.--Continued
Linda Creek (locality 11)
Unsorted nugget-gold, recovered 1982

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2770	961.3721	95.7229	3.8462	.0769	.4309	--	--	.0015	--
AU2762	944.0620	93.7606	5.5556	.0056	.6839	--	--	.0022	--
AU2531	938.6255	93.2524	6.0976	.0061	.6500	--	--	.0012	--
AU2531	914.8293	91.0267	8.4746	.0042	.4987	--	--	.0004	--
AU2767	903.7549	88.5863	9.4340	.0066	1.9797	--	--	.0007	--
AU2531	899.2012	89.2074	10.0000	.0030	.7926	--	--	.0007	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2770	.0015	--	--	--	.2308	--	--	--	--	--
AU2762	.0333	--	--	--	.3333	--	--	--	--	--
AU2531	--	--	--	--	.1829	--	--	--	--	--
AU2531	.0127	--	--	--	.2542	--	--	--	--	--
AU2767	.0066	--	--	--	1.8868	--	--	--	--	--
AU2531	--	--	--	--	.1000	--	.001	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2770	--	--	--	--	--	--	--	--	--	--
AU2762	--	--	--	--	--	--	--	--	--	--
AU2531	--	--	--	--	--	--	--	--	--	--
AU2531	--	--	--	--	--	--	--	--	--	--
AU2767	--	--	--	--	--	--	--	--	--	--
AU2531	--	--	--	--	--	.0005	--	.0015	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2770	--	--	--	--	--	--	.0012	.0769	.0015	.0015
AU2762	--	--	--	--	--	--	.0017	.2222	.0022	.0222
AU2531	--	--	--	--	--	--	.0061	.2439	.0122	.0061
AU2531	--	--	--	--	--	--	.0025	.1271	.0059	.0059
AU2767	--	--	--	--	--	--	.0003	.0472	.0019	.0009
AU2531	--	--	.0008	--	--	--	.0050	.3000	.0200	.0100

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2770	.0005	.0385	6.5	24.8880	1,244.398	50.0000	323.5435
AU2762	.0056	.0556	4.5	16.8769	16,876.914	1,000.0002	3,037.8455
AU2531	.0085	.1829	4.1	15.2934	15,293.406	1,000.0002	2,508.1189
AU2531	.0008	.0847	5.9	10.7411	21,482.305	2,000.0007	2,534.9119
AU2767	.0005	.0283	5.3	9.3902	13,414.500	1,428.5713	1,421.9370
AU2531	.0500	.3000	5.0	8.9207	29,735.813	3,333.3333	2,973.5813

Table 4.--Continued
Linda Creek (locality 11)
Minus 35-mesh gold, recovered 1982

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2774	946.2031	94.2243	5.3571	.0089	.4185	--	--	.0003	--
AU2532	933.4097	92.5665	6.6038	.0094	.8297	--	--	.0005	--
AU2768	930.1365	92.4556	6.9444	.0139	.6000	--	--	.0014	--
AU2532	929.6138	92.4515	7.0000	.0070	.5485	--	--	.0005	--
AU2532	906.5422	89.8153	9.2593	.0093	.9255	--	--	.0009	--
AU2771	894.4207	88.2453	10.4167	.0208	1.3380	--	--	.0010	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2774	--	--	--	--	.1786	--	--	--	--	--
AU2532	.0066	--	--	--	.6604	--	--	--	--	--
AU2768	.0069	--	--	--	.2083	--	--	--	--	--
AU2532	.0100	--	--	--	.3000	--	--	--	--	--
AU2532	.0185	--	--	--	.6481	--	--	--	--	--
AU2771	.0031	--	--	--	1.0417	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2774	--	--	--	--	--	--	--	--	--	--
AU2532	--	--	--	--	--	--	--	--	--	--
AU2768	--	--	--	--	--	--	--	--	--	--
AU2532	--	--	--	--	--	.0005	--	--	--	--
AU2532	--	--	--	--	--	--	--	--	--	--
AU2771	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2774	--	--	--	--	--	--	.0012	.1250	.0089	.0027
AU2532	--	--	--	--	--	--	.0009	.0472	.0047	.0047
AU2768	--	--	--	--	--	--	.0014	.2778	.0042	.0097
AU2532	--	--	--	--	--	--	.0015	.1500	.0050	.0030
AU2532	--	--	--	--	--	--	.0014	.1389	.0065	.0065
AU2771	--	--	--	--	--	--	.0016	.2083	.0031	.0052

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2774	.0036	.0893	2.8	17.5885	10,553.129	600.0002	1,969.9182
AU2532	.0009	.0943	5.3	14.0172	9,812.051	700.0000	1,485.8250
AU2768	.0069	.0694	3.6	13.3136	6,656.801	500.0000	958.5798
AU2532	.0010	.0700	5.0	13.2074	13,207.359	1,000.0000	1,886.7656
AU2532	.0028	.0926	5.4	9.7000	9,700.047	1,000.0000	1,047.6052
AU2771	.0010	.0521	4.8	8.4715	4,235.773	500.0000	406.6343

Table 4.--Continued
Linda Creek (locality 11)
Minus 35-mesh gold, recovered 1983

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3011A	935.7610	92.1708	6.3274	.0031	1.5018	--	--	.0009	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3011A	.0221	--	--	--	.6637	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3011A	--	--	--	--	--	.0221	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3011A	--	--	--	--	--	--	.0066	.4425	.031	.0664

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3011A	.0221	.2212	1.13	14.5669	29,758.004	2,042.8577	4,703.0117

Table 4.--Continued
Linda Creek (locality 11)
Plus 35-mesh gold, recovered 1983

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3011XB	948.6682	94.4718	5.1118	.0120	.4164	--	--	.0002
3011XA	946.5940	94.1878	5.3140	.0085	.4982	--	--	.0002
3011XD	926.1794	92.2797	7.3551	.0074	.3652	--	--	.0004
3011XE	907.3708	90.3620	9.2246	.0067	.4134	--	--	.0003
3011XC	860.2124	84.9239	13.8004	.0159	1.2757	--	--	.0002

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3011XB	--	--	--	--	--	.2396	--	--	--	--
3011XA	--	--	.0004	--	--	.2415	--	--	--	--
3011XD	--	.0111	--	--	--	.2229	--	--	--	--
3011XE	--	.0401	--	--	--	.2005	--	--	--	--
3011XC	.0053	--	--	--	--	1.0616	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3011XB	--	--	--	--	--	--	--	--	--	--
3011XA	--	--	--	--	--	--	--	--	--	--
3011XD	--	--	--	--	--	--	--	--	--	--
3011XE	--	--	--	--	--	--	--	--	--	--
3011XC	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3011XB	--	--	--	--	--	--	--	.0016	.1198	.0016	.0016
3011XA	--	--	--	--	--	--	--	.0024	.1812	.0024	.0012
3011XD	--	--	--	--	--	--	--	.0011	.0743	.0022	.0074
3011XE	--	--	--	--	--	--	--	.0013	.0936	.0027	.0267
3011XC	--	--	--	--	--	--	--	.0011	.1062	.0074	.0021

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3011XB	--	.0399	6.26	18.4810	7,885.246	426.6665	1,542.5515
3011XA	--	.0604	4.14	17.7244	11,141.074	628.5715	2,096.5491
3011XD	.0011	.0371	6.73	12.5463	12,420.852	990.0000	1,688.7339
3011XE	.0013	.0401	3.74	9.7958	13,518.156	1,380.0000	1,465.4463
3011XC	.0016	.0743	4.71	6.1537	5,333.219	866.6667	386.4534

Table 4.--Continued
Linda Creek, (locality 11)
Minus 20-mesh gold, recovered 1983

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3169C	948.8245	92.7030	5.0000	.0150	2.2970	--	--	.0010	--
3169B	947.2437	89.7755	5.0000	.0150	5.2245	--	--	.0005	--
3169A	932.0938	88.8019	6.4695	.0092	4.7286	--	--	.0018	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3169C	.01	--	--	--	2.0000	--	--	--	--	--
3169B	--	--	--	--	5.0000	--	--	--	--	--
3169A	--	--	--	--	4.6211	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3169C	--	--	--	--	--	--	--	--	--	--
3169B	--	--	--	--	--	--	--	--	--	--
3169A	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3169C	--	--	--	--	--	--	.0010	.1000	.0050	.0100
3169B	--	--	--	--	--	--	.0010	.1000	.0050	.0015
3169A	--	--	--	--	--	--	.0005	.0462	.0018	.0009

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3169C	.0050	.1500	5.00	18.5406	6,180.1992	333.3333	1,236.0403
3169B	.0015	.1000	5.00	17.9551	5,985.0313	333.3333	1,197.0061
3169A	.0008	.0462	5.41	13.7262	9,608.3633	699.9998	1,485.1782

Table 4.--Continued
Linda Creek (locality 11)
Plus 20-mesh gold, recovered 1983

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3169XA	951.1992	90.5743	4.6468	.0139	4.7788	--	--	.0005	--
3169XC	906.4370	86.5003	8.9286	.0089	4.5712	--	--	.0002	--
3169XB	815.6589	76.6407	17.3210	.0231	6.0383	--	--	.0002	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3169XA	--	--	--	--	4.6468	--	--	--	--	--
3169XC	--	--	--	--	4.4643	--	--	--	--	--
3169XB	--	--	--	--	5.7737	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3169XA	--	--	--	--	--	--	--	--	--	--
3169XC	--	--	--	--	--	--	--	--	--	--
3169XB	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3169XA	--	--	--	--	--	--	.0009	.0651	.0019	.0019
3169XC	--	--	--	--	--	--	.0004	.0268	.0027	.0009
3169XB	--	--	--	--	--	--	.0012	.1155	.0058	.0017

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3169XA	.0014	.0465	5.38	19.4916	6,497.1992	333.3333	1,398.1968
3169XC	.0045	.0625	5.60	9.6880	9,688.0313	1,000.0000	1,085.0596
3169XB	.0017	.1155	4.33	4.4247	3,318.5405	749.9998	191.5904

Table 4.--Continued
Sheep Creek (locality 12)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3013G	916.4089	90.9930	8.3000	.0300	.7070	--	--	.0010
3013D	906.0784	89.7663	9.3049	.0224	.9288	--	--	.0017
3013C	898.3621	89.0027	10.0694	.0231	.9279	--	--	.0008
3013A	896.0117	88.5255	10.2740	.0342	1.2006	--	--	.0006
3013B	893.5317	88.2871	10.5198	.0124	1.1931	--	--	.0124
3013E	889.8428	88.1227	10.9091	.0227	.9682	--	--	.0011
3013F	882.9795	87.3996	11.5830	.0097	1.0174	--	--	.0048

Sample	As%	Se%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3013G	--	.0070	--	--	--	.3000	--	--	--	--
3013D	--	.0168	--	--	--	.5605	--	--	--	--
3013C	--	.0081	--	--	--	.5787	--	--	--	--
3013A	.0046	.0057	--	.0002	--	.5708	--	--	--	--
3013B	.0062	.1238	--	.0062	--	.6188	--	--	--	--
3013E	--	.0057	--	--	--	.5682	--	--	--	--
3013F	--	.1931	--	--	--	.4826	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3013G	--	--	--	--	--	--	--	--	--	--
3013D	--	--	--	--	--	--	--	--	--	--
3013C	--	--	--	--	--	--	--	--	--	--
3013A	--	--	--	--	--	--	.0342	--	--	--
3013B	--	--	--	--	--	--	--	--	--	--
3013E	--	--	--	--	--	--	--	--	--	--
3013F	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3013G	--	--	--	--	--	--	--	.0050	.2000	.0070	.0500
3013D	--	--	--	--	--	--	--	.0022	.1682	.0078	.0336
3013C	--	--	--	--	--	--	--	.0023	.1736	.0081	.0116
3013A	--	--	--	--	--	--	--	.0023	.3425	.0080	.0799
3013B	--	--	--	--	--	--	--	.0025	.1856	.0087	.0866
3013E	--	--	--	--	--	--	--	.0023	.2273	.0080	.0080
3013F	--	--	--	--	--	--	--	.0068	.1931	.0068	.0193

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3013G	.0070	.1000	5.00	10.9630	3,033.0999	276.6667	365.4336
3013D	.0034	.1121	4.46	9.6472	4,003.5735	415.0000	430.2634
3013C	.0058	.1157	4.32	8.8389	3,844.9138	435.0000	381.8396
3013A	.0034	.1142	4.38	8.6165	2,584.9421	300.0000	251.6009
3013B	.0062	.1238	4.04	8.3925	7,133.5938	849.9998	678.1111
3013E	.0114	.1136	4.40	8.0779	3,877.3987	480.0000	355.4280
3013F	.0048	.0965	5.18	7.5455	9,054.5977	1,199.9998	781.7139

Table 4.--Continued
Sheep Creek (locality 12)
Plus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3012XF	937.7878	93.2419	6.1856	.0074	.5725	--	--	.0022	--
3012XC	932.8208	92.7762	6.6815	.0056	.5423	--	--	.0011	--
3012XA	928.8943	92.3100	7.0662	.0089	.6238	--	--	.0009	--
3012XB	928.8545	92.3343	7.0724	.0082	.5933	--	--	.0008	--
3012XG	927.8828	92.1736	7.1640	.0074	.6625	--	--	.0007	--
3012XD	860.2112	85.2779	13.8581	.0078	.8640	--	--	.0006	--
3012XE	852.3171	84.0905	14.5705	.0046	1.3390	--	--	.0008	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3012XF	--	--	--	--	.3682	--	--	--	--	--
3012XC	--	--	--	--	.3341	--	--	--	--	--
3012XA	--	--	--	--	.4472	--	--	--	--	--
3012XB	--	--	--	--	.4112	--	--	--	--	--
3012XG	--	--	--	--	.5170	--	--	--	--	--
3012XD	--	--	--	--	.2217	--	--	--	--	--
3012XE	--	--	--	--	.2301	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3012XF	--	--	--	--	--	--	--	--	--	--
3012XC	--	--	--	--	--	--	--	--	--	--
3012XA	--	--	--	--	--	--	--	--	--	--
3012XB	--	--	--	--	--	--	--	--	--	--
3012XG	--	--	--	--	--	--	--	--	--	--
3012XD	--	--	--	--	--	--	.0033	.0022	--	--
3012XE	--	--	--	--	--	--	.0077	.0031	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3012XF	--	--	--	--	--	--	.0011	.1105	.0052	.0022
3012XC	--	--	--	--	--	--	.0011	.1114	.0078	.0022
3012XA	--	--	--	--	--	--	.0018	.0894	.0063	.0063
3012XB	--	--	--	--	--	--	.0012	.0822	.0058	.0016
3012XG	--	--	--	--	--	--	.0007	.0739	.0022	.0015
3012XD	--	.0009	--	--	--	--	.0022	.1109	.0078	.0078
3012XE	--	.0015	--	--	--	--	.0023	.1534	.0077	.0077

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3012XF	.0022	.0736	6.79	15.0741	12,662.250	840.0000	2,047.0637
3012XC	.0011	.0780	4.49	13.8855	16,662.605	1,200.0000	2,493.8374
3012XA	.0004	.0626	5.59	13.0636	10,320.258	789.9998	1,460.5127
3012XB	--	.0822	6.08	13.0556	11,227.848	859.9998	1,587.5652
3012XG	.0074	.0517	6.77	12.8663	12,480.297	969.9998	1,742.0952
3012XD	.1663	.3326	4.51	6.1537	10,988.664	1,785.7141	792.9421
3012XE	.4601	.4601	3.26	5.7713	18,275.676	3,166.6672	1,254.2888

Table 4.--Continued
Hammond River (locality 13)
Unsorted gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2604	929.1816	91.8443	7.0000	.0200	1.1557	--	--	.0070
AU2604	929.0051	91.5985	7.0000	.0300	1.4015	--	--	.0020
AU2604	928.6128	91.0570	7.0000	.0300	1.9430	--	--	.0070
AU2830	925.7864	90.9609	7.2917	.0521	1.7474	--	--	.0104
AU2826	924.7932	91.5709	7.4468	.0532	.9823	--	--	.0160
AU2832	924.7339	91.4931	7.4468	.0319	1.0601	--	--	.0016
AU2648	902.0339	86.8642	9.4340	.0472	3.7018	--	--	.0283
AU2604	899.1458	89.1528	10.0000	.0200	.8472	--	--	.0010
AU2604	898.0762	88.1126	10.0000	.0200	1.8874	--	--	.0070
AU2818	897.5991	87.6553	10.0000	.0300	2.3447	--	--	.0300
AU2814	897.5059	87.5665	10.0000	.0200	2.4335	--	--	.0300
AU2649	896.1892	86.3290	10.0000	.0300	3.6710	--	--	1.0000
AU2648	895.7769	85.9480	10.0000	.0150	4.0520	--	--	.1000
AU2648	844.6367	81.5480	15.0000	.0300	3.4520	--	--	.0500

Sample	As%	Se%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2604	.0050	.0020	--	.0007	--	.7000	--	.0010	.0010	--
AU2604	.0050	.0020	--	--	--	.7000	--	.0010	.0010	--
AU2604	.0050	.0030	--	.0005	--	1.5000	--	.0010	.0010	--
AU2830	--	.0021	--	--	--	1.0417	--	--	.0010	--
AU2826	--	.0021	--	.0004	--	.7447	--	--	--	--
AU2832	.0053	.0021	--	--	--	.7447	--	.0021	.0011	--
AU2648	.0094	--	--	.0004	--	2.8302	--	.0019	--	.0028
AU2604	--	--	--	--	--	.7000	--	--	--	--
AU2604	.0070	.0030	--	.0015	--	1.5000	--	.0008	--	--
AU2818	--	.0100	--	.0020	--	2.0000	--	--	--	--
AU2814	.0040	--	--	--	--	2.0000	--	--	--	--
AU2649	.6000	.0100	--	.0100	--	1.0000	--	.0250	.0250	.0100
AU2648	.2000	.0030	--	.0005	--	3.0000	--	.0015	--	.0050
AU2648	.0050	.0070	--	.0050	--	3.0000	--	.0010	--	.0030

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
AU2604	--	--	--	--	--	--	--	--	--	--
AU2604	--	--	--	--	--	--	.0005	--	--	--
AU2604	--	--	--	--	--	--	.0005	--	--	--
AU2830	--	--	--	--	--	--	--	--	--	--
AU2826	--	--	--	--	.0011	--	--	--	--	--
AU2832	--	--	--	--	--	--	--	--	--	--
AU2648	--	--	--	--	--	--	.0005	--	--	--
AU2604	--	--	--	--	--	--	--	--	--	--
AU2604	--	--	--	--	--	--	--	--	--	--
AU2818	--	--	--	--	--	--	--	--	--	--
AU2814	--	--	--	--	--	--	.0005	--	--	--
AU2649	--	--	.05	--	--	--	.0250	--	.005	.003
AU2648	--	--	--	--	--	--	--	--	--	--
AU2648	--	--	--	--	--	--	.0010	--	--	--

Table 4.--Continued
Hammond River (locality 13)
Unsorted gold

SAMPLE	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2604	--	--	--	--	--	--	--	.0020	.2000	.0070	.0070
AU2604	--	--	--	--	--	--	--	.0100	.3000	.0150	.0200
AU2604	--	--	--	--	--	--	--	.0150	.2000	.0100	.0100
AU2830	--	--	--	--	--	--	--	.0016	.1042	.0031	.0052
AU2826	--	--	--	--	--	--	--	.0213	.0745	.0032	.0074
AU2832	--	--	--	--	--	--	--	.0053	.1596	.0032	.0074
AU2648	--	--	--	--	--	--	--	.0028	.5660	.0028	.0066
AU2604	--	--	--	--	--	--	--	.0005	.0500	.0030	.0020
AU2604	--	--	--	--	--	--	--	.0030	.2000	.0200	.0200
AU2818	--	--	--	--	--	--	--	.0100	.1500	.0050	.0070
AU2814	--	--	--	--	--	--	--	.0050	.2000	.0070	.0070
AU2649	.02	--	--	--	--	--	.003	.0150	.6000	.0050	.0200
AU2648	--	--	--	--	--	--	--	.0050	.6000	.0050	.0070
AU2648	--	--	--	--	--	--	--	.0200	.2000	.0050	.0150

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2604	.0030	.2000	5.0	13.1206	4,592.2148	350.0000	656.0308
AU2604	.0150	.3000	5.0	13.0855	3,053.2830	233.3333	436.1833
AU2604	.0100	.1500	5.0	13.0081	3,035.2334	233.3333	433.6047
AU2830	.0052	.5208	4.8	12.4746	1,746.4495	140.0000	239.5130
AU2826	.0053	.0532	4.7	12.2967	1,721.5327	140.0000	231.1774
AU2832	.0213	.0745	4.7	12.2862	2,866.7844	233.3333	384.9683
AU2648	.0142	.1887	5.3	9.2076	1,841.5220	200.0000	195.2013
AU2604	.0007	.0700	5.0	8.9153	4,457.6406	500.0000	445.7639
AU2604	.0050	.1000	5.0	8.8113	4,405.6328	500.0000	440.5632
AU2818	.0007	.1000	5.0	8.7655	2,921.8433	333.3333	292.1843
AU2814	.0100	.1500	5.0	8.7566	4,378.3242	500.0000	437.8325
AU2649	.0150	.2000	5.0	8.6329	2,877.6331	333.3333	287.7632
AU2648	.0100	.1000	5.0	8.5948	5,729.8672	666.6667	572.9866
AU2648	.0100	.1000	5.0	5.4365	2,718.2666	500.0000	181.2178

Table 4.--Continued
Gold Bottom Gulch (locality 14)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2498	911.7400	89.8272	8.6957	.0609	1.4771	--	--	.0261	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2498	--	--	.0006	--	.4348	--	.0017	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2498	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2498	--	--	--	--	--	--	.0087	.0609	.0026	.0026

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2498	.0087	.8696	5.75	10.3301	1,475.7332	142.8572	169.7093

Table 4.--Continued
Bench on Swift Creek (locality 15)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3001B	898.1692	88.2020	10.0000	.0060	1.7980	--	--	.0400
3001C	880.9258	86.9230	11.7493	.0261	1.3277	--	--	.0039
3001A	877.6179	85.4465	11.9154	.0223	2.6381	--	--	.0557

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3001B	.1000	.0400	--	.0060	--	1.0000	--	.0020	--	--
3001C	.0914	--	--	--	--	.6527	--	.0026	--	--
3001A	.1114	.0334	--	.0056	--	1.6704	--	.0011	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3001B	--	--	--	--	--	--	--	--	--	--
3001C	--	--	--	--	--	--	--	--	--	--
3001A	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3001B	--	--	--	--	--	--	--	.0200	.4000	.0100	.0200
3001C	--	--	--	--	--	--	--	.0091	.3916	.0091	.0091
3001A	--	--	--	--	--	--	--	.0334	.5568	.0111	.0223

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3001B	.0140	.1400	2.50	8.8202	14,700.332	1,666.6665	1,470.0332
3001C	.0013	.1305	3.83	7.3981	3,329.150	450.0000	283.3477
3001A	.0033	.1114	4.49	7.1711	3,836.551	535.0000	321.9836

Table 4.--Continued
Swift Creek (locality 16)
Plus 35-mesh gold

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%	AS%
AU2639	941.8816	92.0805	5.6818	.0341	2.2377	--	--	.0002	.0045
AU2639	932.7532	91.5981	6.6038	.0283	1.7981	--	--	.0009	.0066
AU2836	929.1277	91.7690	7.0000	.0500	1.2310	--	--	.0005	.0100
AU2829	925.1836	92.0878	7.4468	.0213	.4654	--	--	.0011	--
AU2639	923.0364	91.2522	7.6087	.0217	1.1391	--	--	.0005	.0054
AU2639	921.1162	90.8200	7.7778	.0333	1.4022	--	--	.0056	.0056
AU2639	921.0588	91.1539	7.8125	.0313	1.0336	--	--	.0016	--
AU2838	919.1885	90.4784	7.9545	.0227	1.5670	--	--	.0080	.0080

SAMPLE	SB%	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%	MO%
AU2639	--	--	--	--	1.1364	--	--	--	--	--
AU2639	--	--	--	--	.9434	--	.0009	--	--	--
AU2836	--	--	--	--	1.0000	--	--	--	--	--
AU2829	.0021	--	--	--	.1596	--	--	--	--	--
AU2639	--	--	--	--	.7609	--	--	--	--	--
AU2639	.0033	--	--	--	1.1111	--	--	--	--	--
AU2639	.0031	--	--	--	.7813	--	--	--	--	--
AU2838	--	--	--	--	.7955	--	--	.0011	--	--

SAMPLE	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%	LA%
AU2639	--	--	--	--	--	--	--	--	--	--
AU2639	--	--	--	--	--	--	--	--	--	--
AU2836	--	--	--	--	--	--	--	--	--	--
AU2829	--	--	--	--	--	--	--	--	--	--
AU2639	--	--	--	--	--	--	--	--	--	--
AU2639	--	--	--	--	--	--	--	--	--	--
AU2639	--	--	--	--	--	--	--	--	--	--
AU2838	--	--	--	--	--	--	--	--	--	--

SAMPLE	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2639	--	--	.0011	--	--	--	.0057	.2273	.0170	.0080
AU2639	--	--	.0019	--	--	--	.0094	.2830	.0189	.0142
AU2836	--	--	--	--	--	--	.0015	.1500	.0020	.0070
AU2829	--	--	--	--	--	--	.0016	.1064	.0053	.0032
AU2639	--	--	--	--	--	--	.0054	.2174	.0076	.0109
AU2639	--	--	--	--	--	--	.0022	.1111	.0056	.0078
AU2639	--	--	--	--	--	--	.0023	.1563	.0047	.0031
AU2838	--	--	.0011	--	--	--	.0170	.3409	.0114	.0170

SAMPLE	TI%	SI%	AU-SN	R=AU/AG	AU/CU	AG/CU	R/CU
AU2639	.0080	.7955	4.4	16.2062	2,701.0264	166.6667	475.3806
AU2639	.0189	.4717	5.3	13.8706	3,236.4666	233.3333	490.0935
AU2836	--	.0100	5.0	13.1099	1,835.3799	140.0000	262.1970
AU2829	.0053	.1596	4.7	12.3661	4,328.1250	350.0000	581.2058
AU2639	.0005	.1087	4.6	11.9931	4,197.6016	350.0000	551.6851
AU2639	.0056	.1111	4.5	11.6769	2,724.6013	233.3333	350.3059
AU2639	.0031	.0469	3.2	11.6677	2,916.9248	250.0000	373.3665
AU2838	.0034	.3409	4.4	11.3744	3,981.0486	350.0000	500.4746

Table 4.--Continued
Swift Creek (locality 16)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2640	969.4182	95.0975	3.0000	.0300	1.9025	--	--	.0020
AU2640	935.2781	91.9587	6.3636	.0455	1.6776	--	--	.0027
AU2839	933.6638	91.2250	6.4815	.0185	2.2935	--	--	.0139
AU2837	928.9146	91.4730	7.0000	.0200	1.5270	--	--	.0005
AU2640	907.1067	88.7730	9.0909	.0273	2.1361	--	--	.0006
AU2844	906.2214	89.4759	9.2593	.0185	1.2648	--	--	.0037
AU2640	897.4905	87.5520	10.0000	.0200	2.4480	--	--	.0200
AU2640	892.2771	88.1181	10.6383	.0160	1.2436	--	--	.0032

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2640	--	.0050	--	.0015	--	.7000	--	--	--	--
AU2640	--	.0018	--	.0004	--	1.3636	--	--	--	--
AU2839	.0139	.0019	--	.0046	--	1.3889	--	--	--	--
AU2837	.0500	--	--	--	--	.7000	--	--	--	--
AU2640	--	--	--	--	--	1.8182	--	--	--	--
AU2844	--	--	--	.0009	--	.5556	--	--	--	--
AU2640	.0050	.0100	--	.0020	--	1.5000	--	--	--	--
AU2640	--	--	--	--	--	1.0638	--	--	.0032	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
AU2640	--	--	--	--	--	--	--	--	--	--
AU2640	--	--	--	--	--	--	--	--	--	--
AU2839	--	--	--	--	--	--	--	--	--	--
AU2837	--	--	--	--	--	--	.0005	--	--	--
AU2640	--	--	--	--	--	--	--	--	--	--
AU2844	--	--	--	--	--	--	.0009	--	--	--
AU2640	--	--	--	--	--	--	--	--	--	--
AU2640	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2640	--	--	--	--	--	--	--	.0020	.1500	.0070	.0030
AU2640	--	--	--	--	--	--	--	.0045	.1818	.0064	.0045
AU2839	--	--	--	--	--	--	--	.0028	.1852	.0046	.0093
AU2837	--	--	--	.001	--	--	--	.0150	.2000	.0100	.0200
AU2640	--	--	--	--	--	--	--	.0018	.0909	.0064	.0045
AU2844	--	--	--	--	--	--	--	.0093	.2778	.0093	.0093
AU2640	--	--	--	.001	--	--	--	.0050	.1500	.0100	.0200
AU2640	--	--	--	--	--	--	--	.0011	.0745	.0053	.0021

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2640	.0020	1.0000	5.0	31.6992	3,169.9167	100.0000	1,056.6392
AU2640	.0027	.0636	5.5	14.4507	2,023.0918	140.0000	317.9143
AU2839	.0019	.6481	5.4	14.0747	4,926.1484	350.0000	760.0347
AU2837	.0100	.5000	5.0	13.0676	4,573.6484	350.0000	653.3787
AU2640	.0045	.1818	5.5	9.7650	3,255.0098	333.3333	358.0510
AU2844	.0093	.3704	2.7	9.6634	4,831.6992	500.0000	521.8232
AU2640	.0050	.7000	5.0	8.7552	4,377.6016	500.0000	437.7600
AU2640	.0213	.0532	4.7	8.2831	5,522.0703	666.6667	519.0747

Table 4.--Continued
Swift Creek (locality 16)
Gold with visible mineral contaminants

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2641	931.7539	90.1599	6.6038	.0189	3.2363	--	--	.0142	.0066
AU2641	928.6221	91.0693	7.0000	.0500	1.9307	--	--	.0007	.0050
AU2641	928.1543	90.4308	7.0000	.0300	2.5692	--	--	.3000	.0050
AU2641	926.0618	87.6735	7.0000	.0300	5.3265	--	--	.1000	.0050

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2641	.0066	--	.0028	--	2.8302	--	.0014	.0009	.0019	--
AU2641	.0020	--	--	--	1.5000	--	--	--	--	--
AU2641	.0050	--	.0007	--	2.0000	--	.0010	.0010	.0015	--
AU2641	.0050	--	.0050	--	5.0000	--	--	--	.0150	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2641	--	--	--	--	--	--	--	--	--	--
AU2641	--	--	--	--	--	.002	--	--	--	--
AU2641	--	--	--	--	--	--	--	--	--	--
AU2641	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2641	--	--	--	--	--	--	.0047	.1415	.0094	.0066
AU2641	--	--	--	--	--	--	.0050	.2000	.0070	.0070
AU2641	--	--	--	--	--	--	.0050	.1000	.0050	.0050
AU2641	--	--	--	--	--	--	.0015	.1000	.0030	.0050

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2641	.0019	.1887	5.3	13.6528	4,778.4766	350.0000	723.5977
AU2641	.0020	.1500	5.0	13.0099	1,821.3860	140.0000	260.1980
AU2641	.0100	.1000	5.0	12.9187	3,014.3599	233.3333	430.6228
AU2641	.0070	.0500	5.0	12.5248	2,922.4497	233.3333	417.4929

Table 4.--Continued
Vermont Creek (locality 17)
Unsorted gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2601	951.7886	93.1226	4.7170	.0283	2.1604	--	--	.0660
AU2817	947.6968	90.5972	5.0000	.0500	4.4029	.015	--	.0050
AU2601	942.6313	92.7560	5.6452	.0081	1.5988	--	--	.0008
AU2601	936.7415	90.9272	6.1404	.0044	2.9325	--	--	.0009
AU2475	930.0508	89.4933	6.7308	.0288	3.7760	--	--	.0048
AU2975	928.9946	91.5840	7.0000	.0300	1.4160	--	--	.0300
AU2601	928.5349	90.9501	7.0000	.0200	2.0499	--	--	.0020
AU2475	927.5603	89.6320	7.0000	.0200	3.3680	--	--	.0050
AU2475	927.4731	89.5160	7.0000	.0300	3.4840	--	--	.0070
AU2601	924.5898	91.4989	7.4627	.0224	1.0384	--	--	.0022
AU2977	907.2546	87.3415	8.9286	.0089	3.7299	--	--	.0004
AU2475	902.5757	87.3995	9.4340	.0189	3.1665	--	--	.0028
AU2823	900.7297	85.5991	9.4340	.0142	4.9670	--	--	.0094
AU2813	898.7961	85.3950	9.6154	.0288	4.9897	--	--	.0019
AU2475	891.5852	85.6647	10.4167	.0208	3.9186	--	--	.0021

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2601	--	.0472	--	.0009	--	1.8868	--	--	--	--
AU2817	--	--	.01	--	--	3.0000	--	.0008	.0020	.002
AU2601	--	--	--	--	--	1.2097	--	--	--	--
AU2601	--	--	--	--	--	1.7544	--	--	--	--
AU2475	.0962	.0096	--	.0067	--	2.8846	--	.0019	.0014	--
AU2975	.0100	.0030	--	.0010	--	1.0000	--	--	--	--
AU2601	.0050	--	--	--	--	1.5000	--	.0008	--	--
AU2475	.0040	.0020	--	--	--	3.0000	--	.0010	--	--
AU2475	.0040	.0070	--	.0030	--	3.0000	--	--	--	--
AU2601	.0149	--	--	--	--	.7463	--	.0007	--	--
AU2977	--	--	--	--	--	2.6786	--	--	--	--
AU2475	.0142	--	--	--	--	2.8302	--	.0028	.0019	--
AU2823	--	.0094	--	--	--	4.7170	--	--	--	--
AU2813	--	.0017	--	--	--	4.8077	--	--	--	--
AU2475	.0052	--	--	--	--	3.1250	--	.0009	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
AU2601	--	--	--	--	--	--	--	--	--	--
AU2817	--	--	--	--	--	--	--	--	--	--
AU2601	--	--	--	--	--	--	--	--	.0004	--
AU2601	--	--	--	--	--	--	--	--	--	--
AU2475	--	--	--	--	--	--	--	--	--	--
AU2975	--	--	--	--	--	--	--	--	--	.005
AU2601	--	--	--	--	--	--	--	--	--	--
AU2475	--	--	--	--	--	--	--	--	--	--
AU2475	--	--	--	--	--	--	--	--	--	--
AU2601	--	--	--	--	--	--	--	--	--	--
AU2977	--	--	--	--	--	--	--	--	--	--
AU2475	--	--	--	--	--	--	--	--	--	--
AU2823	--	--	--	--	--	--	--	--	--	--
AU2813	--	--	--	--	--	--	--	--	--	--
AU2475	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Vermont Creek (locality 17)
Unsorted gold

SAMPLE	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2601	--	--	--	--	--	--	--	.0019	.0943	.0028	.0028
AU2817	--	--	--	--	--	--	--	.0050	.6000	.0030	.0050
AU2601	--	--	--	--	--	--	--	.0040	.2419	.0081	.0024
AU2601	--	--	--	--	--	--	--	.0044	.2632	.0175	.0061
AU2475	--	--	--	.001	--	--	--	.0288	.4808	.0144	.0240
AU2975	.015	--	--	--	--	--	--	.0030	.2000	.0050	.0070
AU2601	--	--	--	--	--	--	--	.0050	.3000	.0100	.0050
AU2475	--	--	--	--	--	--	--	.0150	.2000	.0100	.0100
AU2475	--	--	--	.001	--	--	--	.0050	.2000	.0100	.0070
AU2601	--	--	--	--	--	--	--	.0037	.2239	.0052	.0037
AU2977	--	--	--	--	--	--	--	.0018	.1339	.0045	.0027
AU2475	--	--	--	--	--	--	--	.0028	.1887	.0047	.0047
AU2823	--	--	--	--	--	--	--	.0019	.1415	.0047	.0019
AU2813	--	--	--	--	--	--	--	.0014	.0962	.0019	.0014
AU2475	--	--	--	--	--	--	--	.0104	.5208	.0073	.0104

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2601	.0009	.0283	5.3	19.7420	3,290.333	166.6667	697.5508
AU2817	.0050	.7000	5.0	18.1194	1,811.943	100.0000	362.3887
AU2601	.0024	.1210	6.2	16.4311	11,501.750	700.0000	2,037.4534
AU2601	.0044	.8772	5.7	14.8081	20,731.406	1,400.0007	3,376.2576
AU2475	.0005	.1923	5.2	13.2961	3,102.433	233.3333	460.9329
AU2975	.0070	.1000	5.0	13.0834	3,052.800	233.3333	436.1143
AU2601	.0020	.2000	5.0	12.9929	4,547.508	350.0000	649.6440
AU2475	.0010	.1000	5.0	12.8046	4,481.602	350.0000	640.2285
AU2475	.0100	.2000	5.0	12.7880	2,983.867	233.3333	426.2666
AU2601	.0004	.0149	6.7	12.2609	4,086.949	333.3333	547.6514
AU2977	.0062	.8929	5.6	9.7823	9,782.250	1,000.0000	1,095.6123
AU2475	.0005	.0943	5.3	9.2644	4,632.176	500.0000	491.0105
AU2823	.0009	.0660	5.3	9.0735	6,049.000	666.6667	641.1941
AU2813	.0005	.0481	5.2	8.8811	2,960.358	333.3333	307.8772
AU2475	.0073	.2083	4.8	8.2238	4,111.906	500.0000	394.7429

Table 4.--Continued
Webster Gulch (locality 18)
Unsorted gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3058D	883.2502	87.1190	11.5156	.0149	1.3653	--	--	.0015	--
3058B	882.7676	87.6662	11.6422	.0184	.6917	--	--	.0002	--
3058C	880.8010	86.1839	11.6633	.0101	2.1528	--	--	.0002	--
3058E	878.9392	87.3566	12.0321	.0134	.6113	--	--	.0013	--
3058A	877.5801	87.4221	12.1951	.0938	.3827	--	--	.0005	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3058D	.0013	--	--	--	1.1144	--	--	--	--	--
3058B	.0025	--	--	--	.6127	--	--	--	--	--
3058C	--	--	--	--	2.0284	--	--	--	--	--
3058E	.0033	--	--	--	.4679	--	--	--	--	--
3058A	.0469	--	--	--	.1876	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3058D	--	--	--	--	--	--	--	--	--	--
3058B	--	--	--	--	--	--	--	--	--	--
3058C	--	--	--	--	--	--	--	--	--	--
3058E	--	--	--	--	--	--	--	--	--	--
3058A	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3058D	--	--	--	--	--	--	.0015	.0743	.0037	.0015
3058B	--	--	--	--	--	--	.0006	.0368	.0012	.0009
3058C	--	--	--	--	--	--	.0010	.0507	.0030	.0015
3058E	--	--	--	--	--	--	.0003	.0201	.0013	.0013
3058A	--	--	--	--	--	--	.0005	.0188	.0009	.0009

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3058D	.0037	.1486	6.73	7.5653	5,863.1133	775.0000	509.1450
3058B	.0061	.0123	4.08	7.5301	4,769.0391	633.3333	409.6350
3058C	.0071	.0507	4.93	7.3893	8,497.7344	1,150.0000	728.5886
3058E	.0020	.1003	7.48	7.2603	6,534.2734	900.0002	543.0708
3058A	.0188	.0141	5.33	7.1686	931.9197	130.0000	76.4174

Table 4.--Continued
Thompson Pup (locality 19)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3003A	843.6682	79.3625	14.7059	.0294	5.9316	.5882	--	.0051

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3003A	--	.0588	--	--	--	2.9412	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3003A	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%
3003A	--	--	--	--	--	--	--	.0147	.5882	.0294

Sample	Ca%	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3003A	.2059	--	1.4706	.17	5.3967	2,698.3259	500	183.4862

Table 4.--Continued
Thompson Pup (locality 20)
Plus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3002XB	925.6682	90.1084	7.2358	.0163	2.6559	--	--	.0008
3002X6	921.3530	90.1157	7.6923	.0202	2.1920	--	--	.0002
3002XF	905.5693	88.9617	9.2767	.0236	1.7616	--	--	.0003
3002XC	895.6873	87.0770	10.1411	.0176	2.7819	--	--	.0002
3002XE	895.1604	87.2311	10.2163	.0240	2.5525	--	--	.0002
3002XA	789.4331	77.1871	20.5882	.0069	2.2247	--	--	.0002
3002XD	777.1528	76.0883	21.8182	.0182	2.0935	--	--	.0003

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3002XB	.0057	--	--	--	--	1.6260	--	.0006	--	--
3002X6	--	--	--	--	--	2.0243	--	.0015	--	--
3002XF	--	--	--	--	--	1.5723	--	--	--	--
3002XC	--	--	--	--	--	2.6455	--	--	--	--
3002XE	--	--	--	--	--	2.4038	--	--	--	--
3002XA	--	--	--	--	--	1.9608	--	--	--	--
3002XD	.0182	.0032	--	--	--	.9091	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3002XB	--	--	--	--	--	--	--	--	--	--
3002X6	--	--	--	--	--	--	--	--	--	--
3002XF	--	--	--	--	--	--	--	--	--	--
3002XC	--	--	--	--	--	--	--	--	--	--
3002XE	--	--	--	--	--	--	--	--	--	--
3002XA	--	--	--	--	--	--	--	--	--	--
3002XD	--	--	--	--	.0009	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3002XB	--	--	--	--	--	--	--	.0122	.8130	.0122	.0057
3002X6	--	--	--	--	--	--	--	.0010	.0709	.0020	.0010
3002XF	--	--	--	--	--	--	--	.0011	.0786	.0047	.0008
3002XC	--	--	--	--	--	--	--	.0018	.0882	.0018	.0004
3002XE	--	--	--	--	--	--	--	.0012	.0601	.0024	.0006
3002XA	--	--	--	--	--	--	--	.0010	.0490	.0098	.0010
3002XD	--	--	--	--	--	--	--	.0091	.5455	.0182	.0127

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3002XB	.0008	.1626	6.15	12.4532	5,541.664	445.0000	765.8706
3002X6	--	.0709	4.94	11.7150	4,451.715	380.0000	578.7227
3002XF	.0016	.0786	3.18	9.5898	3,771.975	393.3333	406.6062
3002XC	--	.0265	5.67	8.5865	4,937.266	575.0000	486.8574
3002XE	--	.0601	4.16	8.5384	3,628.814	425.0000	355.1968
3002XA	--	.1961	5.10	3.7491	11,247.262	3,000.0010	546.2954
3002XD	.0127	.5455	2.75	3.4874	4,184.855	1,199.9993	191.8060

Table 4.--Continued
Thompson Pup (locality 20)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3002B	921.2871	91.2847	7.7991	.0214	.9162	--	--	.0002
3002G	857.4844	81.8180	13.5983	.0105	4.5837	.0105	--	.0523
3002F	853.1138	84.2157	14.5000	.0300	1.2842	--	--	.0050
3002A	837.7227	80.9921	15.6892	.0293	3.3188	--	--	.0147
3002D	833.5029	82.2717	16.4343	.0199	1.2941	--	--	.0005
3002C	817.5386	80.7907	18.0312	.0195	1.1781	--	--	.0002
3002E	782.0774	76.7457	21.3849	.0204	1.8694	--	--	.0015

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3002B	--	.0053	--	--	--	.7479	--	--	--	--
3002G	.0073	.1046	--	.0052	--	3.1381	--	--	--	--
3002F	--	.0018	--	.0010	--	1.0000	--	--	--	--
3002A	--	.0029	--	.0022	--	2.9326	--	--	--	--
3002D	--	.0017	--	.0005	--	.9960	--	.0005	--	--
3002C	--	--	--	--	--	.9747	--	--	--	--
3002E	.0051	.0031	--	.0007	--	1.5275	--	.0005	.0005	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3002B	--	--	--	--	--	--	--	--	--	--
3002G	--	--	--	--	--	--	--	--	--	--
3002F	--	--	--	--	--	--	--	--	--	--
3002A	--	--	--	--	--	--	--	--	--	--
3002D	--	--	--	--	--	--	--	--	--	--
3002C	--	--	--	--	--	--	--	--	--	--
3002E	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3002B	--	--	--	--	--	--	--	.0075	.0748	.0032	.0021
3002G	--	--	--	--	--	--	--	.0105	1.0460	.0157	.0209
3002F	--	--	--	--	--	--	--	.0015	.0700	.0100	.0100
3002A	--	--	--	--	--	--	--	.0022	.2199	.0073	.0044
3002D	--	--	--	--	--	--	--	.0020	.1494	.0070	.0100
3002C	--	--	--	--	--	--	--	.0015	.0975	.0068	.0049
3002E	--	--	--	--	--	--	--	.0031	.1527	.0305	.0509

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3002B	.0004	.0534	4.68	11.7044	4,272.1250	365.0000	547.7683
3002G	.0052	.1569	4.78	6.0168	7,821.7969	1,299.9998	575.2029
3002F	.0050	.1500	5.00	5.8080	2,807.1914	483.3333	193.5994
3002A	.0006	.1026	3.41	5.1623	2,761.8291	535.0000	176.0343
3002D	.0070	.0996	5.02	5.0061	4,130.0391	825.0002	251.3065
3002C	.0049	.0682	5.13	4.4806	4,144.5664	925.0000	229.8553
3002E	.0015	.0713	4.91	3.5888	3,768.2168	1,050.0000	176.2091

Table 4.--Continued
Faye Creek (locality 21)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2492	842.4153	83.5281	15.625	.0094	.8469	--	--	.0016	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2492	--	--	--	--	.625	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2492	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2492	--	--	--	--	--	--	.0062	.0938	.0047	.0094

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2492	.0031	.0938	1.6	5.3458	8,909.6680	1,666.6665	570.2190

Table 4.--Continued
Archibald Creek (locality 22)
Approximate size: plus 20-mesh

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%	AS%
AU2821	973.1492	95.3759	2.6316	.0263	1.9925	--	--	.0088	--
AU2584	949.1091	93.2495	5.0000	.0700	1.7505	--	--	.0200	--
AU2584	948.6960	92.4583	5.0000	.0500	2.5417	.01	--	.0700	.010
AU2584	948.2532	91.6240	5.0000	.0700	3.3760	--	--	.0150	.010
AU2825	944.9265	93.2478	5.4348	.0217	1.3174	--	--	.0109	--
AU2584	932.2546	90.8757	6.6038	.0660	2.5205	--	--	.0066	--
AU2805	928.2400	90.5473	7.0000	.0200	2.4527	--	--	.1500	--
AU2809	927.1777	89.1245	7.0000	.0150	3.8755	--	--	.0100	.005
AU2816	906.1426	86.2009	8.9286	.0179	4.8705	--	--	.0446	--
AU2584	846.3987	82.6553	15.0000	.0150	2.3447	--	--	.0050	--

SAMPLE	SB%	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%	MO%
AU2821	.0088	--	.0026	--	1.7544	--	.0013	.0009	--	--
AU2584	--	--	--	--	1.5000	--	--	--	--	--
AU2584	.2000	--	.0500	--	1.0000	--	.0100	.0020	--	--
AU2584	.0030	--	--	--	3.0000	--	.0020	--	--	--
AU2825	.0022	--	--	--	1.0870	--	.0016	--	--	--
AU2584	.0017	--	--	--	1.8868	--	.0019	--	--	--
AU2805	.0070	--	.0070	--	2.0000	--	--	--	.007	--
AU2809	.0050	--	.0015	--	3.0000	--	--	--	--	--
AU2816	.0446	--	.0089	--	4.4643	--	.0009	--	--	--
AU2584	.0030	--	--	--	2.0000	--	--	--	--	--

SAMPLE	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%	LA%
AU2821	--	--	--	--	--	--	--	--	--	--
AU2584	--	--	--	--	--	--	--	--	--	--
AU2584	--	--	--	--	.01	.0007	.002	--	--	--
AU2584	--	--	--	--	--	--	--	--	--	--
AU2825	--	--	--	--	--	--	--	--	--	--
AU2584	--	--	--	--	--	--	--	--	--	--
AU2805	--	--	--	--	--	--	--	--	--	--
AU2809	--	--	--	--	--	--	--	--	--	--
AU2816	--	--	--	--	--	--	--	--	--	--
AU2584	--	--	--	--	--	--	--	--	.0007	--

Table 4.--Continued
Archibald Creek (locality 22)
Approximate size: plus 20-mesh

SAMPLE	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2821	--	--	--	--	--	--	.0018	.0877	.0044	.0061
AU2584	--	--	--	--	--	--	.0030	.0500	.0030	.0015
AU2584	--	--	.002	--	--	--	.0300	.6000	.0200	.0250
AU2584	--	--	--	--	--	--	.0150	.2000	.0030	.0070
AU2825	--	--	--	--	--	--	.0016	.1630	.0022	.0033
AU2584	--	--	--	--	--	--	.0066	.4717	.0047	.0019
AU2805	--	--	--	--	--	--	.0020	.1500	.0070	.0020
AU2809	--	--	--	--	--	--	.0150	.5000	.0150	.0070
AU2816	--	--	--	--	--	--	.0027	.1786	.0062	.0062
AU2584	--	--	--	--	--	--	.0030	.2000	.0050	.0030

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2821	.0018	.0877	5.7	36.2428	3,624.2825	100.0000	1,377.2273
AU2584	.0030	.1000	5.0	18.6499	1,332.1357	71.4286	266.4272
AU2584	.3000	.1500	5.0	18.4917	1,849.1660	100.0000	369.8330
AU2584	.0010	.0500	5.0	18.3248	1,308.9143	71.4286	261.7830
AU2825	.0022	.0217	4.6	17.1576	4,289.4023	250.0000	789.2502
AU2584	.0066	.0660	5.3	13.7612	1,376.1182	100.0000	208.3836
AU2805	.0007	.1000	5.0	12.9353	4,527.3633	350.0000	646.7664
AU2809	.0020	.3000	5.0	12.7321	5,941.6328	466.6667	848.8047
AU2816	.0062	.0893	5.6	9.6545	4,827.2500	500.0000	540.6521
AU2584	.0100	.1000	5.0	5.5104	5,510.3516	1,000.0000	367.3569

Table 4.--Continued
Archibald Creek (locality 22)
Approximate size: minus 20-mesh, plus 35-mesh

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2802	971.3743	96.0395	2.8302	.0660	1.1304	--	--	.0019
AU2796	954.5813	93.8272	4.4643	.1339	1.7085	--	--	.0089
AU2581	952.1716	92.1671	4.6296	.0648	3.2032	--	--	.0065
AU2788	927.7681	89.9100	7.0000	.0300	3.0900	--	--	.0050
AU2798	924.4648	89.9913	7.3529	.0368	2.6558	--	--	.0037
AU2581	915.8921	90.7458	8.3333	.4167	.9209	.0167	--	.0167
AU2581	904.3577	87.5520	9.2593	.0139	3.1888	--	--	.0093
AU2581	903.5586	88.3870	9.4340	.0189	2.1790	--	--	.0094
AU2581	860.8640	84.3711	13.6364	.0182	1.9925	--	--	.0064
AU2794	838.1738	82.6511	15.9574	.0106	1.3915	--	--	.0053

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%
AU2802	--	.0019	--	--	--	.9434	--	--	--
AU2796	.0045	.0045	--	--	--	.0893	--	.0009	.0009
AU2581	.0046	.0028	--	--	--	.6481	--	.0028	.0014
AU2788	.0050	.0020	--	--	--	2.0000	--	.0015	.0015
AU2798	.0037	.0015	--	--	--	2.2059	--	.0015	.0006
AU2581	--	.0042	.0042	.0012	--	.0250	--	.0008	--
AU2581	.0037	.0019	--	--	--	2.7778	--	.0019	.0008
AU2581	.0038	.0017	--	--	--	.9434	--	.0028	.0009
AU2581	--	.0016	--	--	--	1.8182	--	--	--
AU2794	.0053	.0021	--	--	--	1.0638	--	--	--

Sample	Sn%	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%
AU2802	--	--	--	--	--	--	--	--	--	--
AU2796	--	--	--	--	--	--	--	--	--	.0004
AU2581	--	--	--	--	--	--	--	--	--	--
AU2788	--	--	--	--	--	.0015	--	--	--	.0005
AU2798	--	--	--	--	--	--	--	--	--	--
AU2581	.0017	--	--	--	--	--	--	--	--	--
AU2581	--	--	--	--	--	--	--	--	--	--
AU2581	--	--	--	--	--	--	--	--	--	--
AU2581	--	--	--	--	--	--	--	--	--	--
AU2794	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Archibald Creek (locality 22)
Approximate size: minus 20-mesh, plus 35-mesh

SAMPLE	Y%	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2802	--	--	--	--	--	--	--	--	.0014	.0943	.0019	.0002
AU2796	--	--	--	--	--	--	--	--	.0179	.5357	.0089	.0089
AU2581	--	--	--	--	.0009	--	--	--	.0463	.5556	.0065	.0093
AU2788	--	--	--	--	.0010	--	--	--	.0100	.3000	.0150	.0070
AU2798	--	--	--	--	--	--	--	--	.0051	.3676	.0037	.0015
AU2581	--	--	--	--	--	--	--	--	.0001	.0125	.0012	.0017
AU2581	--	--	--	--	--	--	--	--	.0028	.1852	.0028	.0028
AU2581	--	--	--	--	--	--	--	--	.0283	.1887	.0094	.0189
AU2581	--	--	--	--	--	--	--	--	.0273	.0636	.0045	.0064
AU2794	--	--	--	--	--	--	--	--	.0053	.2128	.0032	.0074

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2802	.0005	.0189	5.3	33.9339	1,454.3123	42.8572	513.8569
AU2796	.0009	.8929	5.6	21.0173	700.5769	33.3333	156.9292
AU2581	.0019	1.8519	5.4	19.9081	1,422.0073	71.4286	307.1536
AU2788	.0100	.7000	5.0	12.8443	2,997.0000	233.3333	428.1428
AU2798	.0022	.0221	6.8	12.2388	2,447.7629	200.0000	332.8958
AU2581	.0017	.4167	6.0	10.8895	217.7898	20.0000	26.1348
AU2581	.0009	.1852	5.4	9.4556	6,303.7422	666.6665	680.8040
AU2581	.0094	.9434	5.3	9.3690	4,684.5117	500.0000	496.5583
AU2581	.0009	.0455	5.5	6.1872	4,640.4141	750.0000	340.2969
AU2794	.0011	.0745	4.7	5.1795	7,769.1992	1,499.9998	486.8701

Table 4.--Continued
Archibald Creek (locality 22)
Approximate size: minus 35-mesh, plus 60-mesh

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%
AU2582	949.0581	93.1514	5.0000	.1500	1.8486	--	--	.0500
AU2582	927.4016	89.4210	7.0000	.0700	3.5790	.0100	--	.0200
AU2582	926.5654	88.3230	7.0000	.0500	4.6770	--	--	1.0000
AU2807	912.4993	89.0235	8.5366	.1220	2.4399	.0366	--	.0610
AU2803	907.8989	89.6150	9.0909	.0455	1.2941	--	--	.0064
AU2795	898.3667	88.3930	10.0000	.0600	1.6070	--	--	.0200
AU2797	897.5264	87.5860	10.0000	.0300	2.4140	--	--	.0500
AU2582	897.4626	87.5251	10.0000	.0500	2.4749	--	--	.1500
AU2799	893.1963	87.1146	10.4167	.0313	2.4688	--	--	.0104
AU2582	793.2749	76.7469	20.0000	.0200	3.2531	--	--	.0200

SAMPLE	AS%	SB%	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%
AU2582	--	.0018	--	--	--	.7000	--	.0008	--	--
AU2582	.0150	.0100	--	--	--	2.0000	--	.0030	.001	--
AU2582	.1500	.0020	--	.0070	--	3.0000	--	.0020	--	.001
AU2807	.0061	.0037	.0006	--	--	1.8293	--	.0010	--	.001
AU2803	--	.0027	--	--	--	.9091	--	.0014	--	--
AU2795	--	.0100	--	.0010	--	1.0000	--	--	--	--
AU2797	.0040	.0030	--	--	--	2.0000	--	.0030	.001	--
AU2582	.0050	.0020	--	.0015	--	2.0000	--	.0010	--	--
AU2799	--	.0031	--	--	--	2.0833	--	--	--	--
AU2582	--	.0018	--	--	--	2.0000	--	.0008	--	--

SAMPLE	MO%	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%
AU2582	--	--	--	--	--	--	.0005	--	--	--
AU2582	--	--	--	--	--	--	.0005	--	--	.0005
AU2582	--	--	--	--	--	--	--	--	--	--
AU2807	--	--	--	--	--	--	--	--	--	--
AU2803	--	--	--	--	--	--	--	--	--	--
AU2795	--	--	--	--	--	--	--	--	--	--
AU2797	--	--	--	--	--	--	--	--	--	--
AU2582	--	--	--	--	--	--	--	--	--	--
AU2799	--	--	--	--	--	--	--	--	--	--
AU2582	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Archibald Creek (locality 22)
Approximate size: minus 35-mesh, plus 60-mesh

SAMPLE	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2582	--	--	--	.0015	--	--	--	.0100	.2000	.0250	.0070
AU2582	--	--	--	.0070	--	--	--	.0150	.6000	.0200	.0070
AU2582	--	--	--	--	--	--	--	.0020	.3000	.0050	.0050
AU2807	--	--	--	--	--	--	--	.0037	.2439	.0037	.0037
AU2803	--	--	--	--	--	--	--	.0027	.1818	.0045	.0018
AU2795	--	--	--	--	--	--	--	.0060	.4000	.0040	.0030
AU2797	--	--	--	--	--	--	--	.0070	.2000	.0070	.0070
AU2582	--	--	--	--	--	--	--	.0050	.2000	.0050	.0050
AU2799	--	--	--	--	--	--	--	.0052	.2083	.0052	.0104
AU2582	--	--	--	--	--	--	--	.0030	.2000	.0050	.0015

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2582	.0020	.7000	5.0	18.6303	621.0095	33.3333	124.2019
AU2582	.1000	.7000	5.0	12.7744	1,277.4431	100.0000	182.4919
AU2582	.0030	.1500	5.0	12.6176	1,766.4600	140.0000	252.3514
AU2807	.0018	.1220	4.1	10.4285	729.9932	70.0000	85.5135
AU2803	.0018	.1364	5.5	9.8577	1,971.5300	200.0000	216.8683
AU2795	.0030	.1000	2.5	8.8393	1,473.2168	166.6667	147.3217
AU2797	.0020	.1000	5.0	8.7586	2,919.5332	333.3333	291.9534
AU2582	.0004	.0500	5.0	8.7525	1,750.5020	200.0000	175.0502
AU2799	.0073	.1042	4.8	8.3630	2,787.6655	333.3333	267.6157
AU2582	.0010	1.0000	5.0	3.8373	3,837.3445	1,000.0000	191.8672

Table 4.--Continued
Archibald Creek (locality 22)
Approximate size: minus-60 mesh, plus 100-mesh

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2808	928.7559	91.2535	7.0000	.0300	1.7465	.01	--	.0100	.005
AU2806	928.5859	91.0200	7.0000	.0700	1.9800	--	--	.0200	.010
AU2583	928.5688	90.9962	7.0000	.1000	2.0038	.02	--	.0100	.005
AU2800	898.9629	88.9735	10.0000	.0500	1.0265	--	--	.0300	--
AU2804	898.6113	88.6306	10.0000	.0300	1.3694	--	--	.0070	--
AU2583	897.4194	87.4843	10.0000	.0700	2.5157	--	--	.0150	.005
AU2583	897.3337	87.4030	10.0000	.0500	2.5970	--	--	.0100	--
AU2583	896.3118	86.4430	10.0000	.1000	3.5570	--	--	.0100	.005
AU2583	896.2756	86.4097	10.0000	.0300	3.5904	--	--	.0100	.005
AU2810	865.6716	84.7955	13.1579	.0395	2.0466	--	--	.2632	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2808	--	--	--	--	.7000	--	.0050	.0015	--	--
AU2806	.0020	--	--	--	1.0000	--	.0050	.0015	.0015	--
AU2583	.0018	--	--	--	1.5000	--	.0030	--	--	--
AU2800	.0070	--	.0010	--	.7000	--	.0010	--	--	--
AU2804	.0020	--	--	--	1.0000	--	.0015	.0008	--	--
AU2583	.0020	--	.0007	--	2.0000	--	.0020	--	--	--
AU2583	.0020	--	--	--	1.0000	--	.0010	--	--	--
AU2583	.0050	--	--	--	3.0000	--	.0030	--	--	--
AU2583	.0020	--	--	--	3.0000	--	.0008	--	--	--
AU2810	.0053	--	--	--	1.3158	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2808	--	--	--	--	--	--	--	--	--	--
AU2806	--	--	--	--	--	--	--	--	--	--
AU2583	--	--	--	--	--	--	--	--	--	--
AU2800	--	--	--	--	--	--	--	--	--	--
AU2804	--	--	--	--	--	--	--	--	--	--
AU2583	--	--	--	--	--	--	--	--	--	--
AU2583	--	--	--	--	--	--	--	--	--	--
AU2583	--	--	--	--	--	--	--	--	--	--
AU2583	--	--	--	--	--	--	--	--	.0005	.01
AU2810	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Archibald Creek (locality 22)
Approximate size: minus-60 mesh, plus 100-mesh

SAMPLE	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2808	--	--	--	--	--	--	.0500	.6000	.0200	.0100
AU2806	--	--	--	--	--	--	.0100	.6000	.0050	.0050
AU2583	--	--	--	--	--	--	.0050	.2000	.0030	.0030
AU2800	--	--	--	--	--	--	.0030	.1500	.0030	.0015
AU2804	--	--	--	--	--	--	.0150	.2000	.0030	.0050
AU2583	--	--	--	--	--	--	.0030	.3000	.0030	.0050
AU2583	--	--	--	--	--	--	.0200	.5000	.0070	.0050
AU2583	--	--	--	--	--	--	.0070	.3000	.0100	.0070
AU2583	--	--	--	--	--	--	.0070	.3000	.0100	.0100
AU2810	--	--	--	--	--	--	.0053	.2632	.0079	.0132

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2808	.0050	.3000	5.0	13.0362	3,041.7830	233.3333	434.5405
AU2806	.1000	.1500	5.0	13.0029	1,300.2859	100.0000	185.7551
AU2583	.0030	.1500	5.0	12.9995	909.9622	70.0000	129.9946
AU2800	.0300	.0500	5.0	8.8973	1,779.4700	200.0000	177.9470
AU2804	.0050	.1000	5.0	8.8631	2,954.3547	333.3333	295.4355
AU2583	.0100	.1000	5.0	8.7484	1,249.7759	142.8572	124.9776
AU2583	.0020	1.0000	5.0	8.7403	1,748.0601	200.0000	174.8060
AU2583	.0100	.1000	5.0	8.6443	864.4297	100.0000	86.4430
AU2583	.0050	.2000	5.0	8.6410	2,880.3215	333.3333	288.0322
AU2810	.0018	.1316	1.9	6.4445	2,148.1526	333.3333	163.2596

Table 4.--Continued
Archibald Creek (locality 22)
Minus 100-mesh

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2497	901.8848	88.3856	9.6154	.0192	1.999	--	--	.0067	.0673

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2497	.0048	--	--	--	1.4423	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2497	--	--	--	--	--	.001	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2497	--	--	--	--	--	--	.0067	.2885	.0096	.0067

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2497	.0019	.1442	5.2	9.1921	4,596.0508	500	477.9893

Table 4 .--Continued
Archibald Creek (locality 22)
Rounded, well-worn gold grains

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2486	953.0789	94.7910	4.6667	.0333	.5423	--	--	.0003	--
AU2490	928.3547	90.7031	7.0000	.0200	2.2969	--	--	.0100	.005
AU2486	909.5129	89.7439	8.9286	.0417	1.3275	--	--	.0001	--
AU2490	871.6775	86.3500	12.7119	.0169	.9381	--	--	.0008	--
AU2494	846.0378	84.1087	15.3061	.0204	.5852	--	--	.0204	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2486	--	--	--	--	.3333	--	--	--	--	--
AU2490	--	--	--	--	.7000	--	.003	.001	--	--
AU2486	.003	--	--	--	1.1905	--	--	--	--	--
AU2490	--	--	--	--	.8475	--	--	--	--	--
AU2494	--	--	.0051	--	.3061	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2486	--	--	--	--	--	--	--	--	--	--
AU2490	--	--	--	.001	--	.0005	--	--	.0004	--
AU2486	--	--	--	--	--	--	--	--	--	--
AU2490	--	--	--	--	--	--	--	--	--	--
AU2494	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2486	--	--	--	--	--	--	.0007	.1333	.0013	.0047
AU2490	--	--	.001	--	--	--	.0100	.5000	.0200	.0150
AU2486	--	--	--	--	--	--	.0012	.0595	.0006	.0012
AU2490	--	--	--	--	--	--	.0013	.0254	.0017	.0013
AU2494	--	--	--	--	--	--	.0020	.0714	.0031	.0020

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2486	.0020	.0333	7.5	20.3124	2,843.7300	140.0000	609.3708
AU2490	.0100	1.0000	5.0	12.9576	4,535.1563	350.0000	647.8794
AU2486	--	.0298	8.4	10.0513	2,153.8547	214.2858	241.2317
AU2490	.0008	.0424	5.9	6.7929	5,094.6484	750.0000	400.7791
AU2494	.0015	.1531	4.9	5.4951	4,121.3242	750.0000	269.2595

Table 4.--Continued
Archibald Creek (locality 22)
Angular gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2485	946.5884	94.2691	5.3191	.0213	.4117	--	--	.0053
AU2491	941.8892	90.0467	5.5556	.0278	4.3978	--	--	.8333
AU2744	930.0854	92.3833	6.9444	.0694	.6722	--	--	.0014
AU2496	912.7446	88.6496	8.4746	.0424	2.8758	--	--	.0085
AU2750	906.2627	89.0480	9.2105	.0263	1.7414	--	--	.0007
AU2485	905.3665	86.9736	9.0909	.0273	3.9355	--	--	.0182
AU2496	897.4485	87.5118	10.0000	.0500	2.4882	--	--	.0070

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2485	--	.0053	--	--	--	.1596	--	--	--	--
AU2491	.0417	.0056	--	.0019	--	1.9444	.0417	--	--	--
AU2744	--	.0028	--	--	--	.4167	--	--	--	--
AU2496	--	.0025	--	--	--	2.5424	--	.0008	--	--
AU2750	--	--	--	--	--	1.3158	--	--	--	--
AU2485	--	--	--	.0005	--	2.7273	--	--	--	--
AU2496	.1000	.0030	--	.0007	--	2.0000	--	.0020	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
AU2485	--	--	--	--	--	--	--	--	--	--
AU2491	.0278	--	--	--	.1389	--	.0139	--	.0014	.0278
AU2744	--	--	--	--	--	--	--	--	--	--
AU2496	--	--	--	--	--	--	.0004	--	--	--
AU2750	--	--	--	--	--	--	--	--	--	--
AU2485	--	--	--	--	.0009	--	.0005	--	--	--
AU2496	--	--	--	--	--	--	.0005	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2485	--	--	--	--	--	--	--	.0106	.1064	.0053	.0074
AU2491	--	--	--	--	--	--	--	.0833	.8333	.0139	.0417
AU2744	--	--	--	--	--	--	--	.0014	.0972	.0042	.0028
AU2496	--	--	--	--	--	--	--	.0042	.1695	.0059	.0085
AU2750	--	--	--	--	--	--	--	.0013	.0921	.0066	.0092
AU2485	--	--	--	.0018	--	--	--	.0045	.4545	.0273	.0182
AU2496	--	--	--	--	--	--	--	.0030	.2000	.0070	.0050

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2485	.0160	.0745	4.7	17.7226	4,430.6523	250.0000	832.9629
AU2491	.0417	.2778	1.8	16.2084	3,241.6797	200.0000	583.5024
AU2744	.0069	.0694	3.6	13.3032	1,330.3206	100.0000	191.5662
AU2496	.0059	.0847	5.9	10.4606	2,092.1299	200.0000	246.8713
AU2750	.0263	.2632	3.8	9.6681	3,383.8262	350.0000	367.3870
AU2485	.0182	.6364	5.5	9.5671	3,189.0332	333.3333	350.7937
AU2496	.0100	.1000	5.0	8.7512	1,750.2358	200.0000	175.0236

Table 4.--Continued
Archibald Creek (locality 22)
White gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2487	872.2988	79.6925	11.6667	.0083	8.6408	--	--	.0017	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2487	--	--	.0008	--	8.3333	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2487	--	--	--	--	--	.0008	--	--	.0333	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2487	--	--	--	--	--	--	.0033	.1667	.0033	.0025

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2487	.0033	.0833	3	6.8308	9,563.1016	1,400.0002	819.6943

Table 4.--Continued
Archibald Creek (locality 22)
Gold with visible mineral contaminants

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2822	928.7466	91.2411	7.000	.0200	1.7589	--	--	.0300	--
AU2815	928.1008	90.3585	7.000	.0500	2.6415	--	--	.0100	.2000
AU2824	927.7241	89.8513	7.000	.0300	3.1488	--	--	.0100	--
AU2585	927.2576	89.2300	7.000	.0300	3.7700	--	--	.0200	--
AU2585	927.0012	88.8920	7.000	.0500	4.1080	--	--	.0100	.0050
AU2820	904.5083	89.3593	9.434	.0472	1.2067	--	--	.0472	.0094
AU2812	898.5925	88.6120	10.000	.1000	1.3880	--	--	.0200	.0040
AU2585	897.5872	87.6440	10.000	.0500	2.3560	--	--	.0100	.0050
AU2585	897.5061	87.5671	10.000	.0700	2.4329	.01	--	.0300	.0040
AU2585	897.5012	87.5620	10.000	.0500	2.4380	--	--	.0200	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2822	.0100	--	.0030	--	1.5000	--	.0008	--	--	--
AU2815	.0030	--	--	--	2.0000	--	.0150	.0070	--	--
AU2824	.0018	--	--	--	3.0000	--	.0010	--	--	--
AU2585	.0050	--	--	--	3.0000	--	--	--	--	--
AU2585	.0020	--	--	--	3.0000	--	.0050	.0020	--	--
AU2820	.0017	--	.0047	--	.9434	--	.0014	.0008	--	--
AU2812	.0050	--	--	--	1.0000	--	.0020	.0010	--	--
AU2585	.0030	--	--	--	2.0000	--	.0050	--	--	--
AU2585	.0020	--	.0004	--	2.0000	--	.0020	--	--	--
AU2585	.0020	--	--	--	2.0000	--	.0020	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2822	--	--	--	--	--	--	--	--	--	--
AU2815	--	--	--	--	--	--	--	--	--	--
AU2824	--	--	--	--	--	--	--	--	--	--
AU2585	--	--	--	--	--	--	--	--	--	--
AU2585	--	--	--	--	--	--	--	--	--	--
AU2820	--	--	--	--	--	--	--	--	--	--
AU2812	--	--	--	--	--	--	--	--	--	--
AU2585	--	--	--	--	--	--	--	--	--	--
AU2585	--	--	--	--	--	--	--	--	--	--
AU2585	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Archibald Creek (locality 22)
Gold with visible mineral contaminants

SAMPLE	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2822	--	--	--	--	--	--	.0020	.1500	.0050	.0150
AU2815	--	--	--	--	--	--	.0020	.3000	.0020	.0020
AU2824	--	--	--	--	--	--	.0010	.0700	.0020	.0010
AU2585	--	--	--	--	--	--	.0030	.2000	.0050	.0020
AU2585	--	--	--	--	--	--	.0100	.5000	.0070	.0070
AU2820	--	--	--	--	--	--	.0019	.0943	.0047	.0028
AU2812	--	--	--	--	--	--	.0020	.2000	.0020	.0020
AU2585	--	--	--	--	--	--	.0020	.2000	.0050	.0030
AU2585	--	--	--	--	--	--	.0030	.2000	.0050	.0050
AU2585	--	--	--	--	--	--	.0020	.2000	.0070	.0050

SAMPLE	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2822	.0030	.0200	5.0	13.0344	4,562.0586	350.0000	651.7224
AU2815	.0005	.0500	5.0	12.9084	1,807.1702	140.0000	258.1672
AU2824	.0020	.0300	5.0	12.8359	2,995.0417	233.3333	427.8630
AU2585	.0050	.5000	5.0	12.7471	2,974.3330	233.3333	424.9048
AU2585	.0100	.5000	5.0	12.6989	1,777.8398	140.0000	253.9771
AU2820	--	.0472	5.3	9.4721	1,894.4180	200.0000	200.8083
AU2812	--	.0500	5.0	8.8612	886.1199	100.0000	88.6120
AU2585	.0030	.0700	5.0	8.7644	1,752.8799	200.0000	175.2880
AU2585	.0015	.1000	5.0	8.7567	1,250.9585	142.8572	125.0959
AU2585	.0500	.1000	5.0	8.7562	1,751.2400	200.0000	175.1240

Table 4.--Continued
Smith Creek (locality 23)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2573	984.5925	95.8565	1.5000	.0300	2.6435	--	--	.3000
AU2572	979.0071	97.1557	2.0833	.0729	.7609	--	--	.0208
AU2789	952.7144	93.2779	4.6296	.0648	2.0925	--	--	.0278
AU2572	948.9761	92.9936	5.0000	.0500	2.0064	--	--	.0150
AU2572	948.7517	92.5640	5.0000	.0700	2.4360	--	--	.0070
AU2782	932.9785	91.9283	6.6038	.0472	1.4679	--	--	.0094
AU2791	929.6003	90.6196	6.8627	.0686	2.5176	.0294	--	.0098
AU2572	929.1746	91.8345	7.0000	.0500	1.1655	--	--	.0500
AU2786	928.8401	91.3700	7.0000	.0700	1.6300	--	--	.0070
AU2784	928.4612	90.8490	7.0000	.0700	2.1510	.0100	--	.5000
AU2572	928.3301	90.6700	7.0000	.0500	2.3300	--	--	1.0000
AU2573	926.8296	88.6670	7.0000	.0500	4.3330	--	--	2.5000

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2573	.005	.0150	--	.0050	--	1.0000	--	.0015	.001	--
AU2572	--	--	--	.0005	--	.2083	--	--	--	--
AU2789	--	--	--	--	--	.2778	--	--	--	--
AU2572	.007	--	--	.0004	--	1.5000	--	--	--	--
AU2572	--	--	--	.0070	--	2.0000	--	--	--	--
AU2782	--	.0047	--	--	--	.9434	--	.0009	--	--
AU2791	--	.0069	--	.0005	--	1.9608	--	--	--	--
AU2572	--	.0050	--	.0020	--	.5000	--	.0015	--	--
AU2786	--	.0050	--	--	--	.7000	--	--	--	--
AU2784	.005	.0070	--	.0150	--	.7000	.007	.0070	.002	--
AU2572	--	.0500	.001	.0150	--	.7000	--	--	--	--
AU2573	--	.0100	.001	.0070	--	1.0000	--	.0010	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
AU2573	--	--	--	--	--	.015	--	--	--	--
AU2572	--	--	--	--	--	--	--	--	--	--
AU2789	--	--	--	--	--	--	--	.0019	.0019	--
AU2572	--	--	--	--	--	--	--	--	--	--
AU2572	--	--	--	--	--	--	--	--	--	--
AU2782	--	--	--	--	--	--	--	--	--	--
AU2791	--	--	--	--	--	--	--	--	--	--
AU2572	--	--	--	--	--	--	--	--	--	--
AU2786	--	--	--	--	--	--	--	--	--	--
AU2784	--	--	--	--	--	--	.0005	--	.0005	--
AU2572	--	--	--	--	--	--	--	--	--	--
AU2573	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Smith Creek (locality 23)

SAMPLE	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2573	.0020	--	--	.0010	--	--	--	.0150	.5000	.0250	.0250
AU2572	.0021	--	--	--	--	--	--	.0208	.3125	.0208	.0260
AU2789	--	--	--	.0008	--	--	--	.0185	.1852	.0139	.0185
AU2572	.0020	--	--	--	--	--	--	.0050	.3000	.0100	.0100
AU2572	.0020	--	--	--	--	--	--	.0100	.2000	.0100	.0250
AU2782	--	--	--	--	--	--	--	.0094	.2830	.0066	.0189
AU2791	--	--	--	--	--	--	--	.0147	.2941	.0098	.0245
AU2572	.0020	--	--	--	--	--	--	.0200	.3000	.0100	.0250
AU2786	--	--	--	.0010	--	--	--	.0050	.3000	.0100	.0250
AU2784	--	--	--	--	--	--	--	.0500	.6000	.0150	.0070
AU2572	.0020	--	--	--	--	--	--	.0070	.3000	.0200	.0250
AU2573	.0020	--	--	--	--	--	--	.0100	.5000	.0200	.0250

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2573	.0030	.7000	5.0	63.9043	3,195.2168	50.0000	2,130.1448
AU2572	.0031	.0729	4.8	46.6347	1,332.4211	28.5714	639.5620
AU2789	.5556	.9259	5.4	20.1480	1,439.1453	71.4286	310.8552
AU2572	.0070	.1000	5.0	18.5987	1,859.8718	100.0000	371.9744
AU2572	.0050	.1000	5.0	18.5128	1,322.3430	71.4286	264.4688
AU2782	.0028	.1415	5.3	13.9206	1,948.8799	140.0000	295.1162
AU2791	.0005	.0980	5.1	13.2046	1,320.4578	100.0000	192.4096
AU2572	.0500	.1500	5.0	13.1192	1,836.6899	140.0000	262.3843
AU2786	.0070	.5000	5.0	13.0529	1,305.2859	100.0000	186.4694
AU2784	.0050	.1500	5.0	12.9784	1,297.8430	100.0000	185.4061
AU2572	.0100	.1500	5.0	12.9529	1,813.3999	140.0000	259.0571
AU2573	.0070	.2000	5.0	12.6667	1,773.3398	140.0000	253.3343

Table 4.--Continued
Smith Creek (locality 24)
Collected in 1982

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2787	990.2126	98.3639	.9722	.0694	.6639	--	--	.0014
AU2790	989.9033	98.0408	1.0000	.0500	.9592	--	--	.0007
AU2753	989.7471	96.5313	1.0000	.0700	2.4687	--	--	.0010
AU2792	981.2273	96.7936	1.8519	.0278	1.3545	--	--	.0065
AU2484	979.7461	95.4718	1.9737	.0395	2.5545	--	--	.0658
AU2785	978.5806	97.2037	2.1277	.1064	.6686	--	--	.0032
AU2576	970.9285	94.5212	2.8302	.0472	2.6486	.0142	--	.0028
AU2783	969.2959	94.7063	3.0000	.1000	2.2937	--	--	.1000
AU2484	968.3059	95.4737	3.1250	.0521	1.4013	--	--	.0010
AU2484	949.1152	93.2615	5.0000	.0500	1.7385	--	--	.0070
AU2576	933.1658	92.2047	6.6038	.0472	1.1915	--	--	.0094
AU2743	931.5061	91.5375	6.7308	.0481	1.7317	--	--	.0067
AU2576	931.4673	91.4820	6.7308	.0192	1.7872	--	--	.0096
AU2576	928.7727	91.2771	7.0000	.0300	1.7229	--	--	.0150
AU2484	928.3369	90.6788	7.0000	.0300	2.3211	--	--	.0020
AU2746	922.8071	90.9587	7.6087	.0761	1.4326	--	--	.0326
AU2484	904.3977	89.2454	9.4340	.0189	1.3207	--	--	.0047
AU2755	897.8179	87.8643	10.0000	.0200	2.1357	--	--	.0007
AU2576	895.3193	89.0927	10.4167	.0729	.4906	--	--	.0313
AU2749	888.2124	88.2836	11.1111	.0333	.6053	--	--	.0006

Sample	As%	Se%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2787	--	.0278	--	--	--	.4167	--	--	--	--
AU2790	--	--	--	--	--	.7000	--	--	--	--
AU2753	--	--	--	--	--	.7000	--	--	--	--
AU2792	.0185	.0139	--	.0006	--	.2778	--	.0185	.0028	--
AU2484	--	.0092	--	.0039	--	.9211	--	--	--	--
AU2785	--	.0106	--	.0032	--	.3191	--	--	--	--
AU2576	.0066	--	--	--	--	1.8868	--	.0014	.0009	--
AU2783	.0050	--	--	.5000	--	.7000	.05	.0010	--	--
AU2484	--	.0018	--	--	--	1.0417	--	--	--	--
AU2484	--	--	--	--	--	1.5000	--	.0015	--	--
AU2576	.0038	.0019	--	--	--	.6604	--	.0028	.0019	--
AU2743	--	.0019	--	--	--	1.4423	--	--	--	.0067
AU2576	.0038	.0019	--	.0007	--	1.4423	--	--	--	--
AU2576	--	--	--	.0100	--	.5000	--	.0030	.0015	--
AU2484	--	.0018	--	--	--	2.0000	--	--	--	--
AU2746	--	.0543	--	.0033	--	1.0870	--	--	--	--
AU2484	--	--	--	.0004	--	.9434	--	--	--	--
AU2755	--	.0020	--	--	--	1.0000	--	--	--	--
AU2576	.0073	.0031	--	.0021	--	.3125	--	.0031	.0016	--
AU2749	--	--	--	--	--	.5556	--	--	--	--

Table 4.--Continued
Smith Creek (locality 24)
Collected in 1982

SAMPLE	MO%	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%
AU2787	--	--	--	--	--	--	--	--	--	--
AU2790	--	--	--	--	--	--	--	--	--	--
AU2753	--	--	--	--	--	--	--	--	--	--
AU2792	--	--	--	--	--	--	.0006	--	--	--
AU2484	--	--	--	--	.0013	--	.0013	--	.0005	--
AU2785	--	--	--	--	--	--	--	--	--	--
AU2576	--	--	--	--	--	--	--	--	--	--
AU2783	--	--	--	--	--	--	--	.0005	.0005	.0007
AU2484	--	--	--	--	--	--	.0005	--	--	--
AU2484	--	--	--	--	--	--	--	--	--	--
AU2576	--	--	--	--	--	--	--	--	--	--
AU2743	--	--	--	--	--	--	--	--	--	--
AU2576	--	--	--	--	--	--	--	--	--	--
AU2576	--	--	--	--	--	--	.0005	--	--	--
AU2484	--	--	--	--	--	--	--	--	.0004	--
AU2746	--	--	--	--	--	--	--	--	--	--
AU2484	--	--	--	--	.0014	--	--	--	--	--
AU2755	--	--	--	--	--	--	--	--	--	--
AU2576	--	--	--	--	--	--	--	--	--	--
AU2749	--	--	--	--	--	--	--	--	--	--

SAMPLE	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2787	--	--	--	--	--	--	--	.0014	.0694	.0042	.0042
AU2790	--	--	--	--	--	--	--	.0015	.1000	.0030	.0010
AU2753	--	--	--	--	--	--	--	.0200	.1500	.0200	.0070
AU2792	--	--	--	.0014	--	--	--	.0139	.2778	.0093	.0185
AU2484	--	--	--	.0026	--	--	--	.0026	.1316	.0263	.0132
AU2785	--	--	--	--	--	--	--	.0016	.1064	.0053	.0032
AU2576	--	--	--	--	--	--	--	.0283	.5660	.0142	.0094
AU2783	--	--	--	--	--	--	--	.0070	.6000	.0070	.0200
AU2484	--	--	--	--	--	--	--	.0073	.0729	.0052	.0073
AU2484	--	--	--	--	--	--	--	.0030	.1000	.0020	.0030
AU2576	--	--	--	--	--	--	--	.0189	.2830	.0094	.0047
AU2743	--	--	--	--	--	--	--	.0019	.1442	.0048	.0067
AU2576	--	--	--	--	--	--	--	.0019	.1923	.0096	.0067
AU2576	--	--	--	.0008	--	--	--	.0200	.6000	.0200	.0150
AU2484	--	--	--	--	--	--	--	.0010	.0700	.0030	.0100
AU2746	--	--	--	--	--	--	--	.0016	.1087	.0054	.0076
AU2484	--	--	--	--	--	--	--	.0094	.1415	.0028	.0094
AU2755	--	--	--	--	--	--	--	.0030	.1000	.0030	.0020
AU2576	--	--	--	--	--	--	--	.0005	.0208	.0021	.0010
AU2749	--	--	--	--	--	--	--	.0001	.0033	.0011	.0002

Table 4.--Continued
Smith Creek (locality 24)
Collected in 1982

SAMPLE	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2787	--	.0694	3.6	101.1743	1,416.4407	14.0000	1,456.9109
AU2790	.0030	.1000	5.0	98.0408	1,960.8159	20.0000	1,960.8159
AU2753	.0007	1.5000	5.0	96.5313	1,379.0186	14.2857	1,379.0186
AU2792	.0185	.6481	5.4	52.2685	3,484.5696	66.6667	1,881.6672
AU2484	.0197	1.3158	3.8	48.3724	2,418.6204	50.0000	1,225.4346
AU2785	.0032	.1064	4.7	45.6858	913.7151	20.0000	429.4463
AU2576	.0047	.0660	5.3	33.3975	2,003.8499	60.0000	708.0269
AU2783	.0020	.2000	5.0	31.5688	947.0627	30.0000	315.6877
AU2484	.0031	.2083	4.8	30.5516	1,833.0942	60.0000	586.5901
AU2484	.0020	.0700	5.0	18.6523	1,865.2300	100.0000	373.0459
AU2576	.0066	.1415	5.3	13.9624	1,954.7397	140.0000	296.0034
AU2743	.0010	.0673	5.2	13.5999	1,903.9800	140.0000	282.8770
AU2576	.0029	.0962	5.2	13.5916	4,757.0664	350.0000	706.7642
AU2576	.0070	.5000	5.0	13.0396	3,042.5713	233.3333	434.6531
AU2484	.0030	.2000	5.0	12.9541	3,022.6282	233.3333	431.8040
AU2746	.0016	.0543	4.6	11.9546	1,195.4575	100.0000	157.1173
AU2484	--	.1887	5.3	9.4600	4,730.0039	500.0000	501.3806
AU2755	.0050	1.0000	5.0	8.7864	4,393.2148	500.0000	439.3215
AU2576	.0010	.0313	4.8	8.5529	1,221.8425	142.8571	117.2968
AU2749	--	.0111	4.5	7.9455	2,648.5090	333.3333	238.3659

Table 4.--Continued
Smith Creek (locality 24)
Collected 1983

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3039B	985.4485	96.7471	1.4286	.0476	1.8243	--	--	.0019	--
3039A	972.9668	96.2874	2.6753	.0923	1.0374	--	--	.0046	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3039B	.0019	--	--	--	1.4286	--	--	--	--	--
3039A	--	--	--	--	.6458	--	.0065	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3039B	--	--	--	--	--	--	--	--	--	--
3039A	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3039B	--	--	--	--	--	--	.0014	.1905	.0067	.0019
3039A	--	--	--	--	--	--	.0018	.1845	.0065	.0018

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3039B	.0010	.1429	5.25	67.7230	2,031.6899	30	1,422.1829
3039A	.0014	.0923	5.42	35.9916	1,043.7549	29	390.1484

Table 4.--Continued
Smith Creek (locality 24)
White gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3015WD	980.7925	49.7687	.9747	.2924	49.2566	--	--	24.3665
3015WC	980.5657	57.6159	1.1419	.2447	41.2422	--	--	20.3915
3015WA	980.3755	53.7169	1.0753	.1792	45.2079	--	--	22.4014
3015WB	976.1812	44.3541	1.0823	.2165	54.5637	--	--	27.0563
3015WE	917.7996	23.1235	2.0710	.2219	74.8055	--	--	36.9823

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3015WD	--	..	--	.0487	--	.0975	--	.0005	--	24.3665
3015WC	--	.	--	.0408	--	.0816	--	.0004	--	20.3915
3015WA	--	..	--	.0448	--	.0896	--	--	--	22.4014
3015WB	--	.	--	.0541	--	.1082	--	--	--	27.0563
3015WE	--	.0?	--	.0444	--	.2219	--	--	--	36.9823

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
3015WD	--	--	--	--	--	--	--	--	--	--
3015WC	--	--	--	--	--	--	--	--	--	--
3015WA	--	--	--	--	--	--	--	--	--	--
3015WB	--	--	--	--	--	--	--	--	--	--
3015WE	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%
3015WD	--	--	--	--	--	--	--	.0003	.0049	.0010
3015WC	--	--	--	--	--	--	--	.0006	.0082	.0008
3015WA	--	--	--	--	--	--	--	.0004	.0090	.0009
3015WB	--	--	--	--	--	--	--	.0003	.0054	.0011
3015WE	--	--	--	--	--	--	--	.0740	.0444	.0030

Sample	Ca%	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3015WD	.0005	--	.0292	5.13	51.0627	170.2090	3.3333	174.6344
3015WC	.0006	--	.0245	6.13	50.4551	235.4570	4.6667	206.1931
3015WA	.0004	--	.0179	5.58	49.9567	299.7402	6.0000	278.7583
3015WB	.0005	--	.0108	4.62	40.9832	204.9159	5.0000	189.3422
3015WE	.0074	.0022	.1479	3.38	11.1654	104.2101	9.3333	50.3186

Table 4.--Continued
Union Gulch (locality 25)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2478	906.7332	90.018	9.2593	.0093	.7228	--	--	.0009	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2478	--	--	--	--	.5556	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2478	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2478	--	--	--	--	--	--	.0006	.0926	.0028	.0037

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2478	.0019	.0556	2.7	9.7219	9,721.9375	1,000	1,049.9690

Table 4.--Continued
Mascot Creek (locality 26)
Nuggets coated with iron and manganese oxides

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2609	944.8025	93.0255	5.4348	.0761	1.5397	--	--	.0022	--
AU2609	944.7986	93.0185	5.4348	.1087	1.5467	--	--	.0022	--
AU2609	943.5771	92.9074	5.5556	.0794	1.5371	--	--	.0079	--
AU2609	943.0815	92.0504	5.5556	.0794	2.3940	--	--	.0040	--
AU2609	941.5828	92.4816	5.7377	.0820	1.7807	--	--	.0041	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2609	.0033	--	--	--	1.0870	--	.0033	.0054	--	--
AU2609	.0033	--	--	--	1.0870	--	.0022	.0033	--	--
AU2609	.0040	--	--	--	.7937	--	.0056	.0056	--	--
AU2609	.0040	--	--	--	1.5873	--	.0024	.0040	--	--
AU2609	.0041	--	--	--	1.2295	--	.0025	.0041	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2609	--	--	--	.0054	--	.0005	--	--	--	--
AU2609	--	--	--	.0033	--	--	--	--	--	--
AU2609	--	--	--	.0079	--	.0006	--	--	--	--
AU2609	--	--	--	.0040	--	.0004	--	--	--	--
AU2609	--	--	--	.0057	--	.0004	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2609	--	--	--	--	--	--	.0652	.2174	.0033	.0109
AU2609	--	--	--	--	--	--	.0652	.2174	.0033	.0163
AU2609	--	--	--	--	--	--	.0476	.4762	.0040	.0198
AU2609	--	--	--	--	--	--	.0476	.3968	.0024	.0198
AU2609	--	--	--	--	--	--	.0492	.2459	.0041	.0205

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2609	.0054	.0543	4.6	17.1167	1,222.6218	71.4286	224.9626
AU2609	.0022	.0326	4.6	17.1154	855.7703	50.0000	157.4617
AU2609	.0056	.0794	6.3	16.7233	1,170.6331	70.0000	210.7139
AU2609	.0040	.2381	6.3	16.5691	1,159.8352	70.0000	208.7704
AU2609	.0057	.1230	6.1	16.1182	1,128.2747	70.0000	196.6421

Table 4.--Continued
Mascot Creek (locality 26)
Minus 35-mesh gold; some grains coated with iron and manganese oxides

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2819	977.2583	95.4944	2.2222	.1111	2.2833	--	--	.0078
AU2831	975.9788	95.2266	2.3438	.0391	2.4297	--	--	.1563
AU2610	971.5242	93.0491	2.7273	.0273	4.2236	.0182	--	.0091
AU2519	949.2847	93.5893	5.0000	.0500	1.4107	--	--	.0200
AU2833	947.1396	93.3220	5.2083	.0729	1.4696	--	--	.0052
AU2765	946.0151	92.2297	5.2632	.0526	2.5071	--	--	.0789
AU2827	934.7275	91.7974	6.4103	.0192	1.7923	.0128	--	.0192
AU2519	933.0193	91.9885	6.6038	.0283	1.4077	--	--	.0189
AU2610	928.1858	90.4742	7.0000	.0300	2.5259	.0150	--	.0200
AU2610	928.0669	90.3125	7.0000	.0500	2.6875	--	--	.0050
AU2610	927.5723	89.6480	7.0000	.0200	3.3520	.0100	--	.0200
AU2760	920.6118	90.5961	7.8125	.0781	1.5914	--	--	.0313
AU2835	913.1631	90.6539	8.6207	.0345	.7254	--	--	.0034
AU2519	906.4846	89.7538	9.2593	.0185	.9869	--	--	.0185
AU2520	905.7219	80.0572	8.3333	.1111	11.6094	--	--	.0556
AU2610	895.8657	86.0298	10.0000	.0700	3.9702	.0100	--	.0200
AU2758	858.8845	84.5333	13.8889	.1944	1.5778	--	--	.0194

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2819	--	.0022	--	--	--	1.1111	--	.0022	.0022	--
AU2831	--	.0078	--	.0039	--	.7813	--	.0016	.0039	--
AU2610	--	--	--	.0009	--	1.3636	--	.0014	.0018	--
AU2519	--	--	--	.0005	--	.5000	--	.0020	--	--
AU2833	--	--	--	--	--	.7292	--	.0016	.0009	--
AU2765	--	.1579	--	.0018	--	1.3158	--	.0026	--	--
AU2827	--	--	--	.0026	--	.6410	--	.0038	.0019	--
AU2519	--	--	--	.0007	--	.9434	--	.0009	--	--
AU2610	--	--	--	.0015	--	1.5000	--	.0020	.0008	--
AU2610	--	--	--	--	--	2.0000	--	.0010	--	--
AU2610	--	.0200	--	.0010	--	2.0000	--	.0070	.0020	--
AU2760	--	--	--	.0008	--	.7813	--	.0016	--	--
AU2835	--	.0030	--	--	--	.5172	--	--	--	--
AU2519	--	--	--	.0004	--	.6481	--	.0014	--	--
AU2520	.2778	--	--	--	--	.5556	--	.0278	.1667	--
AU2610	--	--	--	.0010	--	2.0000	--	.0050	.0020	--
AU2758	--	.0083	--	--	--	.5556	--	.0028	--	--

Table 4.--Continued
Mascot Creek (locality 26)
Minus 35-mesh gold; some grains coated with iron and manganese oxides

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
AU2819	--	--	--	--	--	--	--	--	--	--
AU2831	--	--	--	--	.0195	--	.0055	--	--	.0156
AU2610	--	--	--	--	.6364	--	.0014	--	.0045	--
AU2519	--	--	--	--	--	--	.0007	--	--	.0005
AU2833	--	--	--	--	--	--	.0016	--	--	--
AU2765	--	--	--	--	--	--	.0026	--	--	--
AU2827	--	--	--	--	--	--	.0013	--	.0006	--
AU2519	--	--	--	--	--	--	.0005	--	--	--
AU2610	--	--	--	--	.0015	--	--	--	--	--
AU2610	--	--	--	--	--	--	.0005	--	--	--
AU2610	--	--	--	--	.0020	--	--	--	--	--
AU2760	--	--	--	--	--	--	--	--	--	--
AU2835	--	--	--	--	--	--	--	--	--	--
AU2519	--	--	--	--	--	--	--	--	--	--
AU2520	--	--	--	--	1.1111	--	.0056	--	--	.0039
AU2610	--	--	--	--	.0015	--	.0007	--	--	--
AU2758	--	--	--	--	--	--	.0014	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2819	--	--	--	--	--	--	--	.0222	.6667	.0111	.0111
AU2831	--	--	--	.0008	--	--	--	.0391	.4688	.0078	.0195
AU2610	--	--	--	.0045	--	--	--	.0182	.5455	.0227	.0227
AU2519	--	--	--	.0010	--	--	--	.0100	.3000	.0150	.0100
AU2833	--	--	--	--	--	--	--	.0104	.5208	.0052	.0073
AU2765	--	--	--	--	--	--	--	.0079	.5263	.0184	.0526
AU2827	--	--	--	--	--	--	--	.0192	.7692	.0192	.0128
AU2519	--	--	--	--	--	--	--	.0047	.2830	.0094	.0047
AU2610	--	--	--	--	--	--	--	.0200	.6000	.0150	.0200
AU2610	--	--	--	--	--	--	--	.0070	.5000	.0070	.0100
AU2610	--	--	--	--	--	--	--	.0200	.5000	.0250	.0200
AU2760	--	--	--	--	--	--	--	.0078	.4688	.0156	.0391
AU2835	--	--	--	--	--	--	--	.0017	.1207	.0034	.0034
AU2519	--	--	--	--	--	--	--	.0046	.1852	.0093	.0065
AU2520	--	--	--	.0056	--	--	--	.0556	8.3333	.0278	.0389
AU2610	--	--	--	--	--	--	--	.0200	.6000	.0150	.0250
AU2758	--	--	--	--	--	--	--	.0042	.5556	.0139	.0083

Table 4.--Continued
Mascot Creek (locality 26)
Minus 35-mesh gold; some grains coated with iron and manganese oxides

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2819	.0022	.3333	4.5	42.9725	859.4500	20.0000	386.7527
AU2831	.4688	.3906	6.4	40.6300	2,437.7998	60.0000	1,040.1279
AU2610	.1818	1.3636	5.5	34.1180	3,411.7998	100.0000	1,250.9932
AU2519	.0010	.5000	5.0	18.7179	1,871.7859	100.0000	374.3572
AU2833	.0104	.1042	4.8	17.9178	1,279.8445	71.4286	245.7300
AU2765	.0263	.2632	1.9	17.5237	1,752.3647	100.0000	332.9492
AU2827	.0128	.2564	3.9	14.3204	4,773.4688	333.3333	744.6609
AU2519	.0189	.0943	5.3	13.9297	3,250.2600	233.3333	492.1824
AU2610	.1500	.1500	5.0	12.9249	3,015.8049	233.3333	430.8293
AU2610	.0070	.1000	5.0	12.9018	1,806.2500	140.0000	258.0356
AU2610	.0050	.7000	5.0	12.8069	4,482.3984	350.0000	640.3428
AU2760	.0109	.1563	3.2	11.5963	1,159.6301	100.0000	148.4326
AU2835	.0034	.0345	2.9	10.5158	2,628.9617	250.0000	304.9595
AU2519	.0019	.0926	5.4	9.6934	4,846.7070	500.0000	523.4441
AU2520	.5556	.2778	.9	9.6069	720.5151	75.0000	86.4618
AU2610	.2000	1.0000	5.0	8.6030	1,228.9973	142.8572	122.8997
AU2758	.0194	.1944	1.8	6.0864	434.7429	71.4286	31.3015

Table 4.--Continued
Conglomerate Creek (locality 27)
Yellow gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2530	979.5527	95.8118	2.0000	.0500	2.1882	--	--	.0070	--
AU2530	969.3826	94.9841	3.0000	.0500	2.0159	--	--	.0020	--
AU2530	934.2913	92.1581	6.4815	.0278	1.3604	--	--	.0028	--
AU2763	929.3000	92.0100	7.0000	.1000	.9900	--	--	.0020	--
AU2761	927.9883	90.2065	7.0000	.0700	2.7935	--	--	.0150	--
AU2530	902.3765	88.8788	9.6154	.0144	1.5058	--	--	.0048	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2530	--	--	.0007	--	1.5000	--	.0010	--	--	--
AU2530	--	--	--	--	1.5000	--	.0008	--	--	--
AU2530	--	--	--	--	.6481	--	.0014	--	--	--
AU2763	.003	--	--	--	.1500	--	.0020	.001	--	--
AU2761	.002	--	.0030	--	2.0000	--	.0010	--	--	.005
AU2530	--	--	--	--	.9615	--	.0010	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2530	--	--	--	--	--	.0005	--	--	--	--
AU2530	--	--	--	--	--	--	--	--	--	--
AU2530	--	--	--	--	--	.0006	--	--	--	--
AU2763	--	--	--	--	--	--	--	--	--	--
AU2761	--	--	--	--	--	.0005	--	--	--	--
AU2530	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2530	--	--	--	--	--	--	.0070	.5000	.0100	.0070
AU2530	--	--	--	--	--	--	.0050	.3000	.0050	.0020
AU2530	--	--	--	--	--	--	.0065	.4630	.0093	.0065
AU2763	--	--	--	--	--	--	.0100	.6000	.0070	.0050
AU2761	--	--	--	--	--	--	.0070	.5000	.0150	.0100
AU2530	--	--	.001	--	--	--	.0067	.2885	.0144	.0144

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2530	.0050	.1000	5.0	47.9059	1,916.2358	40.0000	958.1179
AU2530	.0010	.1500	5.0	31.6614	1,899.6829	60.0000	633.2275
AU2530	.0093	.1852	5.4	14.2187	3,317.6929	233.3333	511.8726
AU2763	.0100	.1000	5.0	13.1443	920.0996	70.0000	131.4428
AU2761	.0150	.1500	5.0	12.8866	1,288.6643	100.0000	184.0949
AU2530	.0067	.1923	5.2	9.2434	6,162.2656	666.6665	640.8755

Table 4.--Continued
Conglomerate Creek (locality 27)
White gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2529	964.1318	89.5992	3.3333	.05	7.0675	--	--	4.1667	.0117

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2529	.0083	.0025	.1667	--	.8333	.0333	.0167	.0167	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2529	--	--	--	--	--	.0033	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2529	--	--	--	--	--	--	.05	1	.0167	.025

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2529	.5	.1667	3	26.8797	1,791.9829	66.6667	537.5947

Table 4.--Continued
Jay Creek (locality 28)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2578	989.8760	97.7765	1.0000	.1000	1.2235	--	--	.0005	--
AU2578	988.3328	97.7396	1.1538	.0538	1.1065	--	--	.0008	--
AU2578	985.7922	96.3651	1.3889	.0926	2.2460	--	--	.0006	--
AU2578	977.0471	95.3013	2.2388	.0746	2.4599	--	--	.0007	--
AU2578	941.4854	92.3179	5.7377	.0410	1.9444	--	--	.0006	--
AU2793	936.8303	92.6900	6.2500	.0625	1.0600	--	--	.0006	--
AU2793	929.3589	92.0923	7.0000	.0500	.9077	--	--	.0007	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2578	.0020	--	--	--	.5000	--	--	--	--	--
AU2578	--	--	--	--	.7692	--	--	--	--	--
AU2578	.0028	--	--	--	.6481	--	--	--	--	--
AU2578	.0022	--	--	--	2.2388	--	--	--	--	--
AU2578	.0041	--	--	--	1.6393	--	--	--	--	--
AU2793	--	--	--	--	.8750	--	--	--	--	--
AU2793	--	--	--	--	.7000	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2578	--	--	--	--	--	--	--	--	--	--
AU2578	--	--	--	--	--	--	--	--	--	--
AU2578	--	--	--	--	--	--	--	--	--	--
AU2578	--	--	--	--	--	--	--	--	--	--
AU2578	--	--	--	--	--	--	--	--	--	--
AU2793	--	--	--	--	--	--	--	--	--	--
AU2793	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2578	--	--	--	--	--	--	.0020	.1000	.0070	.0070
AU2578	--	--	--	--	--	--	.0004	.1154	.0038	.0038
AU2578	--	--	--	--	--	--	.0009	.0926	.0065	.0065
AU2578	--	--	--	--	--	--	.0002	.1119	.0015	.0022
AU2578	--	--	--	--	--	--	.0012	.1639	.0041	.0057
AU2793	--	--	--	--	--	--	.0012	.0875	.0019	.0062
AU2793	--	--	--	--	--	--	.0010	.1000	.0020	.0030

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2578	.0050	.5000	5.0	97.7765	977.7649	10.0000	977.7649
AU2578	.0054	.1538	6.5	84.7077	1,815.1643	21.4286	1,573.1428
AU2578	.0065	1.3889	5.4	69.3828	1,040.7429	15.0000	749.3347
AU2578	.0052	.0224	6.7	42.5679	1,277.0371	30.0000	570.4099
AU2578	.0025	.0820	6.1	16.0897	2,252.5562	140.0000	392.5884
AU2793	--	.0250	4.0	14.8304	1,483.0400	100.0000	237.2864
AU2793	.0010	.0500	5.0	13.1560	1,841.8459	140.0000	263.1208

Table 4.--Continued
Birch Creek (locality 29)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
AU2737	970.4260	96.5113	2.9412	.0980	.5475	--	--	.0005
AU2482	967.7759	95.8495	3.1915	.0532	.9590	.0106	--	.0005
AU2482	966.1824	95.2349	3.3333	.0500	1.4318	--	--	.0003
AU2482	953.9236	94.1055	4.5455	.0455	1.3491	.0077	.0003	.0006
AU2482	952.4561	94.4961	4.7170	.0472	.7870	--	--	.0002
AU2482	949.3665	93.7494	5.0000	.0300	1.2506	--	--	.0030
AU2741	864.8540	85.7063	13.3929	.0179	.9009	--	--	.0446

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
AU2737	--	--	--	--	--	.1471	--	--	--	--
AU2482	--	.0019	--	--	--	.7447	--	--	--	--
AU2482	--	--	--	--	--	1.1667	--	--	--	--
AU2482	--	--	--	--	--	.9091	--	--	--	--
AU2482	--	--	--	--	--	.6604	--	--	--	--
AU2482	--	.0020	--	.0007	--	1.0000	--	--	--	--
AU2741	--	.0027	--	.0179	--	.6250	--	--	--	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%
AU2737	--	--	--	--	--	--	--	--	--	--
AU2482	--	--	--	--	--	--	--	--	.0005	--
AU2482	--	--	--	--	--	--	--	--	.0007	--
AU2482	--	--	--	--	--	--	--	--	.0005	--
AU2482	--	--	--	--	--	--	--	--	--	--
AU2482	--	--	--	--	--	--	.0005	--	.0004	--
AU2741	--	--	--	--	--	--	--	--	--	--

Sample	La%	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2737	--	--	--	--	--	--	--	.0005	.0980	.0049	.0020
AU2482	--	--	--	--	--	--	--	.0007	.0319	.0021	.0032
AU2482	--	--	--	--	--	--	--	.0008	.0833	.0050	.0050
AU2482	--	--	--	--	--	--	--	.0045	.1818	.0064	.0064
AU2482	--	--	--	--	--	--	--	.0005	.0283	.0014	.0009
AU2482	--	--	--	--	--	--	--	.0010	.1000	.0030	.0050
AU2741	--	--	--	--	--	--	--	.0009	.0893	.0045	.0027

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2737	.0005	.1961	5.1	32.8138	984.4150	30.0000	334.7012
AU2482	.0032	.1064	4.7	30.0329	1,801.9714	60.0000	564.6179
AU2482	.0033	.1167	3.0	28.5705	1,904.6970	66.6667	571.4092
AU2482	.0045	.1818	5.5	20.7032	2,070.3198	100.0000	455.4705
AU2482	.0009	.0472	5.3	20.0332	2,003.3164	100.0000	424.7034
AU2482	.0050	.1000	5.0	18.7499	3,124.9800	166.6667	624.9958
AU2741	.0062	.0893	5.6	6.3994	4,799.5508	750.0000	358.3665

Table 4 .--Continued
Spring Creek (locality 30)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2516	941.3816	93.3686	5.8140	.2326	.8174	--	--	.0116	--
AU2516	927.4087	91.2551	7.1429	.3061	1.6020	--	--	.0071	.0071

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2516	.0116	--	.0023	--	.2326	--	--	--	--	--
AU2516	.0102	--	--	--	.5102	--	.001	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2516	--	--	--	--	--	--	--	--	--	--
AU2516	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Th%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2516	--	--	--	--	--	--	.0012	.0814	.0058	.0058
AU2516	--	--	--	--	--	--	.0031	.5102	.0153	.0204

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2516	--	.2326	4.3	16.0594	401.4851	25.0000	69.0555
AU2516	.0071	.2041	4.9	12.7757	298.0999	23.3333	41.7340

Table 4.--Continued
Crevice Creek (locality 31)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2580	982.3494	97.6397	1.7544	.1316	.6059	--	--	.0004	--
AU2580	978.6890	97.0229	2.1127	.1408	.8644	--	--	.0014	--
AU2580	960.8049	94.2823	3.8462	1.1538	1.8715	--	--	.0008	--
AU2580	958.0767	95.2204	4.1667	.0583	.6129	--	--	.0012	--
AU2580	952.5017	94.5909	4.7170	.0660	.6922	--	--	.0005	--
AU2801	903.0933	89.6077	9.6154	.1923	.7769	--	--	.0005	--
AU2801	882.8625	87.6393	11.6279	.2326	.7328	--	--	.0006	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2580	--	--	--	--	.4386	--	--	--	--	--
AU2580	--	--	--	--	.4930	--	--	--	--	--
AU2580	--	--	--	--	.1538	--	--	--	--	--
AU2580	--	--	--	--	.4167	--	--	--	--	--
AU2580	--	--	.0005	--	.4717	--	--	--	--	--
AU2801	--	--	--	--	.4808	--	--	--	--	--
AU2801	--	--	--	--	.3488	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2580	--	--	--	--	--	--	--	--	--	--
AU2580	--	--	--	--	--	--	--	--	--	--
AU2580	--	--	.0015	--	--	--	--	--	--	--
AU2580	--	--	--	--	--	--	--	--	--	--
AU2580	--	--	--	--	--	--	--	--	--	--
AU2801	--	--	.0010	--	--	--	--	--	--	--
AU2801	--	--	.0006	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2580	--	--	--	--	--	--	.0002	.0132	.0009	.0018
AU2580	--	--	--	--	--	--	.0011	.1408	.0070	.0049
AU2580	--	--	--	--	--	--	.0023	.1538	.0077	.0077
AU2580	--	--	--	--	--	--	.0008	.0833	.0025	.0058
AU2580	--	--	--	--	--	--	.0007	.0943	.0019	.0047
AU2801	--	--	--	--	--	--	.0005	.0481	.0019	.0029
AU2801	--	--	--	--	--	--	.0008	.0581	.0035	.0058

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2580	.0018	.0175	5.7	55.6546	742.0623	13.3333	422.9753
AU2580	.0049	.0704	7.1	45.9242	688.8625	15.0000	326.0618
AU2580	.0054	.3846	6.5	24.5134	81.7113	3.3333	21.2449
AU2580	.0025	.0417	6.0	22.8529	1,632.3501	71.4286	391.7639
AU2580	.0047	.0472	5.3	20.0533	1,432.3762	71.4286	303.6638
AU2801	.0010	.0481	5.2	9.3192	465.9600	50.0000	48.4598
AU2801	.0006	.0814	4.3	7.5370	376.8491	50.0000	32.4090

Table 4.--Continued
Sawyer Creek (locality 32)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2479	961.0085	94.7951	3.8462	.0192	1.3588	--	--	.0007	--
AU2479	905.5103	89.8423	9.3750	.0469	.7827	--	--	.0005	--
AU2740	897.3484	89.2012	10.2041	.0102	.5947	--	--	.0005	--
AU2736	843.0930	83.9562	15.6250	.0156	.4188	--	--	.0052	--
AU2479	830.2449	81.5141	16.6667	.0233	1.8192	--	--	.0006	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2479	--	--	--	--	1.1538	--	--	--	--	--
AU2479	--	--	--	--	.4687	--	--	--	--	--
AU2740	.0071	--	--	--	.5102	--	.0020	--	--	--
AU2736	.0052	--	.0005	--	.3125	--	.0016	--	--	--
AU2479	--	--	--	--	1.6667	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2479	--	--	--	--	--	--	--	--	--	--
AU2479	--	--	--	--	--	--	--	--	--	--
AU2740	--	--	--	--	--	--	--	--	--	--
AU2736	--	--	--	--	--	--	--	--	--	--
AU2479	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2479	--	--	--	--	--	--	.0004	.0577	.0077	.0038
AU2479	--	--	--	--	--	--	.0009	.0938	.0047	.0094
AU2740	--	--	--	--	--	--	.0003	.0204	.0015	.0015
AU2736	--	--	--	--	--	--	.0003	.0208	.0021	.0021
AU2479	--	--	--	--	--	--	.0003	.0500	.0033	.0067

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2479	--	.1154	1.3	24.6467	4,929.3477	200.0001	1,281.6304
AU2479	.0016	.1562	1.6	9.5832	1,916.6355	200.0000	204.4412
AU2740	.0102	.0306	4.9	8.7417	8,741.7148	999.9998	856.6875
AU2736	.0007	.0521	4.8	5.3732	5,373.1992	1,000.0000	343.8845
AU2479	.0017	.0667	1.5	4.8908	3,493.4612	714.2861	209.6076

Table 4.--Continued
Emma Creek (locality 33)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2577	941.5305	93.6219	5.8140	.1163	.5642	--	--	.0002	--
AU2577	905.4438	90.3373	9.4340	.0472	.2288	--	--	.0005	--
AU2577	895.3396	89.1120	10.4167	.0208	.4713	--	--	.0005	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2577	.0081	--	--	--	.1163	--	--	--	--	--
AU2577	.0142	--	--	--	.0943	--	--	--	--	--
AU2577	.0018	--	--	--	.3125	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2577	--	--	--	--	--	--	--	--	--	--
AU2577	--	--	--	--	--	--	--	--	--	--
AU2577	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2577	--	--	--	--	--	--	.0017	.0814	.0035	.0023
AU2577	--	--	--	--	--	--	.0009	.0472	.0019	.0028
AU2577	--	--	--	--	--	--	.0007	.0729	.0031	.0052

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2577	.0017	.2326	4.3	16.1030	805.1482	50	138.4855
AU2577	.0009	.0189	5.3	9.5758	1,915.1499	200	203.0059
AU2577	.0016	.0521	4.8	8.5548	4,277.3750	500	410.6279

Table 4.--Continued
Clara Creek (locality 34)
Plus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3014XB	927.0894	91.2903	7.1795	.0385	1.5303	--	--	.0003	--
3014XD	926.1201	91.2948	7.2829	.0280	1.4223	--	--	.0007	--
3014XC	916.4526	90.2536	8.2278	.0316	1.5185	--	--	.0008	--
3014XA	909.7859	89.3032	8.8553	.0540	1.8415	--	--	.0011	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3014XB	--	--	--	--	1.2821	--	.0009	--	--	--
3014XD	--	--	--	--	.9804	--	.0014	--	--	--
3014XC	--	--	--	--	1.1076	--	.0008	--	--	--
3014XA	--	--	--	--	1.6199	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3014XB	--	--	--	--	--	--	--	--	--	--
3014XD	--	--	--	--	--	--	--	--	--	--
3014XC	--	--	--	--	--	--	--	--	--	--
3014XA	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3014XB	--	--	--	--	--	--	.0009	.1282	.0013	.0013
3014XD	--	--	--	--	--	--	.0014	.2801	.0028	.0014
3014XC	--	--	--	--	--	--	.0011	.2373	.0032	.0016
3014XA	--	--	--	--	--	--	.0008	.1080	.0011	.0011

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3014XB	.0128	.0641	3.90	12.7154	2,373.5469	186.6667	330.6013
3014XD	.0280	.0980	3.57	12.5355	3,259.2246	260.0000	447.5166
3014XC	.0237	.1108	3.16	10.9693	2,852.0159	260.0000	346.6296
3014XA	.0016	.0540	4.63	10.0847	1,653.8967	164.0000	186.7694

Table 4.--Continued
Clara Creek (locality 34)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3014A	889.2019	88.0842	10.9756	.0061	.9402	--	--	.0012	--
3014B	852.0510	83.8549	14.5604	.0385	1.5846	--	--	.0011	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3014A	--	--	--	--	.4268	--	--	--	--	--
3014B	--	--	--	--	.8242	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3014A	--	--	--	--	--	--	--	--	--	--
3014B	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3014A	--	--	--	--	--	--	.0030	.1829	.0122	.0030
3014B	--	--	--	--	--	--	.0027	.2747	.0549	.0038

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3014A	--	.3049	.82	8.0254	14,445.805	1,800.0007	1,316.1733
3014B	--	.3846	.91	5.7591	2,180.229	378.5715	149.7365

Table 4.--Continued
Myrtle Creek (locality 35)
Plus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%
3010XG	909.6868	89.8017	8.9154	.0184	1.2829	--	--	.0003
3010XB	904.5913	89.4912	9.4388	.0064	1.0700	--	--	.0004
3010XI	902.2996	89.1443	9.6525	.0193	1.2032	--	--	.0005
3010XH	901.9736	89.8262	9.7623	.0170	.4115	--	--	.0004
3010XD	888.8218	88.3380	11.0497	.0092	.6122	--	--	.0002
3010XC	885.4507	87.6582	11.3402	.0193	1.0015	--	--	.0003
3010XE	879.6309	86.5851	11.8483	.0178	1.5666	--	--	.0083
3010XF	875.6885	87.3261	12.3967	.0155	.2772	--	--	--
3010XA	829.5300	82.1674	16.8856	.0141	.9470	--	--	.0005

Sample	As%	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%
3010XG	--	--	--	--	--	.9191	--	--	--	--
3010XB	--	.0128	--	--	--	.8929	--	--	--	--
3010XI	--	--	--	--	--	.9653	--	--	--	--
3010XH	--	.0017	--	--	--	.1698	--	.0004	--	--
3010XD	--	--	--	--	--	.2762	--	.0006	--	--
3010XC	--	--	--	--	--	.6443	--	--	--	--
3010XE	.0178	--	--	--	--	.8294	--	.0036	.0024	--
3010XF	--	--	--	--	--	.1033	--	--	--	--
3010XA	.0047	.0047	--	--	--	.6567	--	.0009	.0028	--

Sample	Mo%	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	Y%	Cr%	Y%
3010XG	--	--	--	--	--	--	--	--	--	--
3010XB	--	--	--	--	--	--	--	--	--	--
3010XI	--	--	--	--	--	--	--	--	--	--
3010XH	--	--	--	--	--	--	--	--	--	--
3010XD	--	--	--	--	--	--	--	--	--	--
3010XC	--	--	--	--	--	--	--	--	--	--
3010XE	--	--	--	--	--	--	--	--	--	--
3010XF	--	--	--	--	--	--	--	--	--	--
3010XA	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Myrtle Creek (locality 35)
Plus 35-mesh gold

SAMPLE	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
3010XG	--	--	--	--	--	--	--	.0014	.2757	.0018	.0005
3010XB	--	--	--	--	--	--	--	.0006	.0893	.0026	.0009
3010XI	--	--	--	--	--	--	--	.0007	.1448	.0029	.0003
3010XH	--	--	--	--	--	--	--	.0006	.0849	.0059	.0008
3010XD	--	--	--	--	--	--	--	.0009	.2762	.0014	--
3010XC	--	--	--	--	--	--	--	.0039	.1933	.0039	.0013
3010XE	--	--	--	--	--	--	--	.0018	.5924	.0036	.0008
3010XF	--	--	--	--	--	--	--	.0003	.1033	.0010	.0005
3010XA	--	--	--	--	--	--	--	.0009	.1876	.0066	.0005

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
3010XG	.0014	.0643	5.44	10.0726	4,885.211	485.0000	547.9492
3010XB	.0005	.0638	3.92	9.4812	14,032.230	1,480.0002	1,486.6582
3010XI	.0019	.0676	5.18	9.2354	4,617.676	500.0000	478.3911
3010XH	.0025	.1273	5.89	9.2013	5,290.766	575.0000	541.9585
3010XD	.0014	.0460	5.43	7.9946	9,593.508	1,199.9998	868.2124
3010XC	.0064	.1289	3.88	7.7299	4,534.852	586.6667	399.8914
3010XE	.0059	.0829	4.22	7.3078	4,871.852	666.6667	411.1841
3010XF	.0015	.0517	4.84	7.0443	5,635.445	800.0000	454.5923
3010XA	.0014	.0657	5.33	4.8661	5,839.367	1,200.0002	345.8201

Table 4.--Continued
Myrtle Creek (locality 35)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3010A	839.6958	83.5874	15.9574	.0093	.4552	--	--	.0931	.0266

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3010A	--	--	.002	--	.133	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3010A	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3010A	--	--	--	--	--	--	.0004	.0931	.002	.0013

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3010A	.0013	.0931	3.76	5.2381	8,979.6719	1,714.2859	562.726

Table 4.--Continued
Slate Creek (locality 36)
Plus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2503	979.8923	97.4637	2.0000	.1000	.5363	--	--	.0005	--
AU2503	976.0496	97.0292	2.3810	.0833	.5899	--	--	--	--
AU2503	951.5017	94.3234	4.8077	.0481	.8689	--	--	.0005	--
AU2503	928.0610	92.1478	7.1429	.0051	.7094	--	--	.0031	--
AU2503	923.4771	91.4236	7.5758	.0038	1.0006	--	--	.0004	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2503	.0018	--	--	--	.3000	--	--	--	--	--
AU2503	--	--	--	--	.3571	--	--	--	--	--
AU2503	.0096	--	--	--	.4808	--	--	--	--	--
AU2503	.0612	--	--	--	.2041	--	.0015	--	--	--
AU2503	--	--	--	--	.7576	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2503	--	--	--	--	--	.0005	--	--	--	--
AU2503	--	--	--	--	--	--	--	--	--	--
AU2503	--	--	--	.0010	--	.0014	--	.0019	--	--
AU2503	--	--	--	.0010	--	.0031	.001	.0051	--	--
AU2503	--	--	--	.0011	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2503	--	--	--	--	--	--	.0005	.0200	.0030	.0050
AU2503	--	--	--	--	--	--	.0006	.0179	.0036	.0060
AU2503	--	--	.0029	--	--	--	.0007	.0481	.0192	.0144
AU2503	--	--	.0051	--	--	--	.0007	.0510	.0255	.0153
AU2503	--	--	.0006	--	--	--	.0008	.0530	.0152	.0114

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2503	.0050	.1000	5.0	48.7319	974.637	20.0000	487.3186
AU2503	.0024	.1190	4.2	40.7522	1,164.350	28.5714	489.0271
AU2503	.0481	.1923	5.2	19.6193	1,961.926	100.0000	408.0806
AU2503	.3061	.0204	4.9	12.9007	18,060.953	1,400.0002	2,528.5325
AU2503	.0053	.1515	6.6	12.0679	24,135.836	2,000.0005	3,185.9307

Table 4.--Continued
Slate Creek (locality 36)
Minus 35-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%	Sb%
AU2504	899.2002	89.2063	10	.01	.7937	--	--	.002	--	--

Sample	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%	Ge%
AU2504	.0004	--	--	.5	--	--	--	--	--	--

Sample	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%	Sc%
AU2504	--	--	--	--	.001	--	--	--	--	--

Sample	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%	Ti%
AU2504	--	--	--	--	--	.0003	.07	.005	.003	.002

Sample	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2504	.2	5	8.9206	8,920.6289	999.9998	892.0627

Table 4.--Continued
Slate Creek (locality 37)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2476	909.6257	90.3276	8.9744	.0385	.6981	--	--	.0006	--
AU2476	901.2480	89.4743	9.8039	.0196	.7218	--	--	.0005	--
AU2745	899.5430	89.5450	10.0000	.0200	.4550	--	--	.0010	--
AU2748	899.5056	89.5078	10.0000	.0200	.4922	--	--	.0007	--
AU2739	899.1877	89.1943	10.0000	.0200	.8057	--	--	.0010	--
AU2735	899.1218	89.1293	10.0000	.0200	.8707	--	--	.0005	--
AU2477	895.3130	89.0862	10.4167	.0104	.4971	--	--	.0016	--
AU2742	890.6624	88.5430	10.8696	.0217	.5874	--	--	.0043	--
AU2476	849.0991	84.4030	15.0000	.0200	.5970	--	--	.0010	--
AU2476	848.6492	84.1075	15.0000	.0150	.8925	--	--	.0020	--
AU2476	848.5002	84.0100	15.0000	.0200	.9900	--	--	.0020	--
AU2477	814.2634	81.1847	18.5185	.0093	.2968	--	--	.0014	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2476	--	--	--	--	.2564	--	--	--	--	--
AU2476	--	--	--	--	.4902	--	--	--	--	--
AU2745	.0150	--	--	--	.2000	--	--	--	--	--
AU2748	.0020	--	--	--	.2000	--	--	--	--	--
AU2739	.0020	--	--	--	.5000	--	--	--	.025	--
AU2735	.0020	--	--	--	.5000	--	.001	--	.025	--
AU2477	--	--	--	--	.2083	--	--	--	--	--
AU2742	.0043	--	--	--	.2174	--	--	--	--	--
AU2476	--	--	--	--	.2000	--	--	--	--	--
AU2476	--	--	--	--	.5000	--	.001	--	--	--
AU2476	.0020	--	--	--	.7000	--	--	--	--	--
AU2477	--	--	.0005	--	.0926	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2476	--	--	--	--	--	--	--	--	--	--
AU2476	--	--	--	--	--	--	--	--	--	--
AU2745	--	--	--	--	--	.0005	--	--	--	--
AU2748	--	--	--	--	--	.0010	--	--	--	--
AU2739	--	--	--	--	--	--	--	--	--	--
AU2735	--	--	--	--	--	.0005	--	--	--	--
AU2477	--	--	--	--	--	--	--	--	--	--
AU2742	--	--	--	--	--	--	--	--	--	--
AU2476	--	--	--	--	--	--	--	--	--	--
AU2476	--	--	--	.001	--	--	--	--	--	--
AU2476	--	--	--	--	--	--	--	--	--	--
AU2477	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Slate Creek (locality 37)

SAMPLE	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2476	--	--	--	--	--	--	.0013	.2564	.0064	.0038
AU2476	--	--	--	--	--	--	.0007	.0980	.0049	.0049
AU2745	--	--	--	--	--	--	.0005	.1000	.0030	.0050
AU2748	--	--	--	--	--	--	.0005	.1500	.0050	.0030
AU2739	--	--	--	--	--	--	.0007	.1000	.0030	.0020
AU2735	--	--	--	--	--	--	.0007	.2000	.0030	.0030
AU2477	--	--	--	--	--	--	.0007	.1563	.0052	.0052
AU2742	--	--	--	--	--	--	.0004	.1087	.0065	.0022
AU2476	--	--	--	--	--	--	.0010	.2000	.0050	.0050
AU2476	--	--	--	--	--	--	.0015	.2000	.0070	.0050
AU2476	--	--	--	--	--	--	.0010	.1500	.0030	.0070
AU2477	--	--	--	--	--	--	.0005	.0926	.0028	.0028

SAMPLE	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2476	.0064	.1282	3.9	10.0651	2,348.5168	233.3333	261.6919
AU2476	.0049	.0980	5.1	9.1264	4,563.1914	500.0000	465.4456
AU2745	.0100	.1000	5.0	8.9545	4,477.2500	500.0000	447.7251
AU2748	.0100	.1000	5.0	8.9508	4,475.3906	500.0000	447.5391
AU2739	.0020	.1500	5.0	8.9194	4,459.7148	500.0000	445.9714
AU2735	.0150	.1000	5.0	8.9129	4,456.4648	500.0000	445.6465
AU2477	.0052	.1042	4.8	8.5523	8,552.2734	999.9998	821.0181
AU2742	.0043	.2174	2.3	8.1460	4,072.9797	500.0000	374.7141
AU2476	.0150	.1500	5.0	5.6269	4,220.1484	750.0000	281.3433
AU2476	.0100	.1500	5.0	5.6072	5,607.1680	1,000.0000	373.8110
AU2476	.0050	.1000	5.0	5.6007	4,200.5000	750.0000	280.0332
AU2477	.0019	.0926	5.4	4.3840	8,767.9453	2,000.0002	473.4690

Table 4.--Continued
Porcupine Creek (locality 38)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2512	904.9478	89.8160	9.4340	.0189	.7500	--	--	.0009	--
AU2757	899.3716	89.3756	10.0000	.0500	.6244	--	--	.0002	--
AU2511	899.3484	89.3526	10.0000	.0300	.6474	--	--	.0002	--
AU2510	889.5383	88.0789	10.9375	.0313	.9836	--	--	.0047	--
AU2752	872.5525	87.0299	12.7119	.0593	.2582	--	--	.0004	--
AU2510	858.8630	85.1945	14.0000	.0400	.8055	--	--	.0020	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2512	.0047	--	--	--	.4717	--	--	--	--	--
AU2757	.0018	--	--	--	.2000	--	.001	--	--	--
AU2511	.0100	--	--	--	.5000	--	--	--	--	--
AU2510	--	--	--	--	.7813	--	--	--	--	--
AU2752	.0424	--	--	--	.0847	--	--	--	--	--
AU2510	.0035	--	--	--	.2000	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2512	--	--	--	--	--	--	--	--	--	--
AU2757	--	--	--	--	--	--	--	--	--	--
AU2511	--	--	--	--	--	--	--	--	--	--
AU2510	--	--	--	--	--	--	--	--	--	--
AU2752	--	--	--	--	--	--	--	--	--	--
AU2510	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2512	--	--	--	--	--	--	.0009	.0943	.0094	.0047
AU2757	--	--	.0015	--	--	--	.0010	.1500	.0100	.0070
AU2511	--	--	--	--	--	--	.0002	.0500	.0030	.0020
AU2510	--	--	--	--	--	--	.0008	.1094	.0047	.0047
AU2752	--	--	--	--	--	--	.0002	.0424	.0013	.0008
AU2510	--	--	--	--	--	--	.0020	.4000	.0100	.0060

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2512	.0028	.1415	5.3	9.5205	4,760.2500	500.0000	504.5864
AU2757	.0020	.2000	5.0	8.9376	1,787.5115	200.0000	178.7512
AU2511	.0020	.0500	5.0	8.9353	2,978.4209	333.3333	297.8420
AU2510	--	.0469	3.2	8.0529	2,818.5249	350.0000	257.6936
AU2752	.0013	.0254	5.9	6.8464	1,467.0757	214.2857	115.4099
AU2510	.0020	.1400	2.5	6.0853	2,129.8625	350.0000	152.1330

Table 4.--Continued
Twelvemile Creek (locality 39)
Plus 20-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3170XA	969.2292	92.1001	2.9240	.0068	4.9759	--	--	.0002	--
3170XB	938.8281	88.2030	5.7471	.0230	6.0498	--	--	.0002	--
3170XD	908.8965	85.8564	8.6059	.0172	5.5378	--	--	.0002	--
3170XC	907.2512	84.7646	8.6655	.0433	6.5699	--	--	.0002	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3170XA	.0029	--	--	--	4.8733	--	--	--	--	--
3170XB	--	--	--	--	5.7471	--	--	--	--	--
3170XD	--	--	--	--	5.1635	--	.0009	--	--	--
3170XC	--	--	--	--	4.3328	--	.0026	.0004	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3170XA	--	--	--	--	--	--	--	--	--	--
3170XB	--	--	--	--	--	--	--	--	--	--
3170XD	--	--	--	--	--	--	--	--	--	--
3170XC	--	--	--	--	--	--	--	.0009	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3170XA	--	--	--	--	--	--	.0001	.0195	.0029	.0010
3170XB	--	--	--	--	--	--	.0002	.0345	.0080	.0011
3170XD	--	--	--	--	--	--	.0006	.1721	.0060	.0009
3170XC	--	--	--	--	--	--	.0087	1.7331	.1733	.0130

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3170XA	.0010	.0682	5.13	31.4982	13,499.246	428.5715	4,616.7422
3170XB	.0057	.2299	4.35	15.3473	3,836.832	250.0000	667.6086
3170XD	.0043	.1721	5.81	9.9765	4,988.254	500.0000	579.6353
3170XC	.0017	.2600	5.77	9.7818	1,956.367	200.0000	225.7648

Table 4.--Continued
Twelvemile Creek (locality 39)
Minus 20-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3170D	926.2593	89.3570	7.1138	.0305	3.5292	--	--	.0002	--
3170A	896.6313	85.0401	9.8039	.0294	5.1560	--	--	.0002	--
3170C	838.8127	79.3287	15.2439	.0305	5.4274	--	--	.0002	--
3170B	837.1628	79.1753	15.4004	.0205	5.4243	--	--	.0002	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3170D	--	--	--	--	3.0488	--	--	--	--	--
3170A	--	--	--	--	4.9020	--	--	--	--	--
3170C	--	--	--	--	5.0813	--	--	--	--	--
3170B	--	--	--	--	5.1335	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3170D	--	--	--	.0005	--	--	--	--	--	--
3170A	--	--	--	.0004	--	--	--	--	--	--
3170C	--	--	--	.0004	--	--	--	--	--	--
3170B	--	--	--	.0004	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3170D	--	--	--	--	--	--	.0020	.2033	.0152	.0051
3170A	--	--	--	--	--	--	.0005	.0686	.0049	.0020
3170C	--	--	--	--	--	--	.0010	.1524	.0051	.0010
3170B	--	--	--	--	--	--	.0007	.1027	.0072	.0031

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3170D	.0203	.2033	4.92	12.5610	2,930.9099	233.3333	412.0022
3170A	.0010	.1471	5.10	8.6741	2,891.3635	333.3333	294.9192
3170C	.0030	.1524	4.92	5.2040	2,601.9810	500.0000	170.6900
3170B	.0021	.1540	4.87	5.1411	3,855.8352	750.0000	250.3722

Table 4.--Continued
Twelvemile Creek (locality 39)
Minus 20-mesh gold spheres

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3170S	861.946	79.4342	12.7226	.0191	7.8431	--	--	.0019	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3170S	--	--	--	--	7.6336	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3170S	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3170S	--	--	--	--	--	--	.0003	.0382	.0025	.0013

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3170S	.0191	.1272	3.93	6.2435	4,162.3516	666.6665	327.1609

Table 4.--Continued
Twelvemile Creek (locality 39)
Delicate, little-worn gold grains

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3170TB	898.5176	85.2981	9.6339	.0193	5.0680	--	--	.0005	--
3170TA	836.3987	78.2513	15.3061	.0153	6.4426	--	--	.0051	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3170TB	--	--	--	--	4.8170	--	--	--	--	--
3170TA	.0051	--	--	--	6.1225	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3170TB	--	--	--	.0004	--	--	--	--	--	--
3170TA	--	--	--	.0005	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3170TB	--	--	--	--	--	--	.0007	.0674	.0096	.0019
3170TA	--	--	--	--	--	--	.0007	.0714	.0153	.0010

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3170TB	.0067	.1445	5.19	8.8539	4,426.9688	500	459.5195
3170TA	.0015	.2041	4.90	5.1124	5,112.4180	1,000	334.0110

Table 4.--Continued
Twelvemile Creek (locality 39)
Plus 20-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3235XD	909.6370	88.3026	8.7719	.0263	2.9255	--	--	.0002	--
3235XB	895.4053	83.9286	9.8039	.0294	6.2674	--	--	.0003	--
3235XC	830.0486	81.7639	16.7411	.0223	1.4951	--	--	.0002	--
3235XA	814.6843	80.2225	18.2482	.0091	1.5294	--	--	.0002	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3235XD	.0015	--	--	--	2.6316	--	--	--	--	--
3235XB	--	--	--	--	5.8824	--	--	--	--	--
3235XC	.0078	--	--	--	1.1161	--	--	--	--	--
3235XA	--	--	--	--	.9124	--	.0005	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3235XD	--	--	--	.0004	--	--	--	--	--	--
3235XB	--	--	--	--	--	--	--	--	--	--
3235XC	--	--	--	.0004	--	--	--	--	--	--
3235XA	--	--	--	.0005	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3235XD	--	--	--	--	--	--	.0006	.0614	.0061	.0044
3235XB	--	--	--	--	--	--	.0005	.1961	.0069	.0020
3235XC	--	--	--	--	--	--	.0022	.2232	.0078	.0033
3235XA	--	--	--	--	--	--	.0018	.4562	.0064	.0046

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3235XD	.0175	.1754	5.70	10.0665	3,355.4976	333.3333	382.5266
3235XB	.0029	.1471	5.10	8.5607	2,853.5737	333.3333	291.0645
3235XC	--	.1116	4.48	4.8840	3,663.0200	750.0000	218.8044
3235XA	.0009	.1369	5.48	4.3962	8,792.3828	1,999.9990	481.8225

Table 4.--Continued
Twelvemile Creek (locality 39)
Minus 20, plus 60-mesh gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3235A	921.5588	87.1172	7.4153	.0212	5.4676	--	--	.0002	--
3235D	902.1797	89.0234	9.6525	.0483	1.3241	--	--	.0003	--
3235B	901.5364	88.0389	9.6154	.0192	2.3457	--	--	.0005	--
3235C	886.4353	82.6859	10.5932	.0212	6.7209	--	--	.0005	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3235A	.0021	--	--	--	5.2966	--	--	--	--	--
3235D	.0048	--	--	--	.9653	--	--	--	--	--
3235B	--	--	--	--	1.9231	--	--	--	--	--
3235C	--	--	--	--	6.3559	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3235A	--	--	--	--	--	--	--	--	--	--
3235D	--	--	--	.0005	--	--	--	--	--	--
3235B	--	--	--	.0005	--	--	--	--	--	--
3235C	--	--	--	.0005	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3235A	--	--	--	--	--	--	.0002	.0318	.0053	.0021
3235D	--	--	--	--	--	--	.0010	.1931	.0068	.0048
3235B	--	--	--	--	--	--	.0014	.1923	.0096	.0048
3235C	--	--	--	--	--	--	.0005	.1059	.0106	.0032

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3235A	.0021	.1059	4.72	11.7484	4,111.9297	350	554.5227
3235D	.0029	.0965	5.18	9.2228	1,844.5640	200	191.0969
3235B	.0019	.1923	5.20	9.1560	4,578.0234	500	476.1145
3235C	.0106	.2119	4.72	7.8055	3,902.7744	500	368.4219

Table 4.--Continued
Twelvemile Creek (locality 39)
Blocks (nearly cubes) of gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3235NB	872.6360	79.9342	11.6667	.0167	8.3992	--	--	--	--
3235NA	855.8916	77.5644	13.0597	.0131	9.3759	--	--	--	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3235NB	.0033	--	--	--	8.3333	--	--	--	--	--
3235NA	.0056	--	--	--	9.3284	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3235NB	--	--	--	--	--	--	--	--	--	--
3235NA	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3235NB	--	--	--	--	--	--	--	.0083	.0025	.0017
3235NA	--	--	--	--	--	--	--	.0093	.0019	.0028

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3235NB	--	.0333	3.00	6.8515	4,796.0469	699.9998	411.0896
3235NA	.0019	.0131	2.68	5.9392	5,939.2148	1,000.0000	454.7744

Table 4.--Continued
Twelvemile Creek (locality 39)
Delicate, arborescent, little-worn grains of gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3235VB	909.9807	89.2995	8.8339	.0177	1.8666	--	--	.0044	--
3235VD	909.3394	89.0776	8.8810	.0133	2.0414	--	--	.0003	--
3235VC	847.4856	79.6858	14.3403	.0029	5.9738	--	--	.0005	--
3235VA	836.7126	81.4222	15.8898	.0530	2.6879	--	--	.0005	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3235VB	--	--	.0004	--	.8834	--	.0004	--	--	--
3235VD	--	--	.0003	--	1.7762	--	--	--	--	--
3235VC	--	--	--	--	5.7361	--	--	--	--	--
3235VA	--	--	--	--	2.1186	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3235VB	--	--	--	.0009	--	--	--	--	.0009	--
3235VD	--	--	--	.0004	--	--	--	--	--	--
3235VC	--	--	--	--	--	--	--	--	--	--
3235VA	--	--	--	.0004	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3235VB	--	--	--	--	--	--	.0044	.6184	.0177	.0265
3235VD	--	--	--	--	--	--	.0013	.1332	.0089	.0178
3235VC	--	--	--	--	--	--	.0001	.0143	.0191	.0096
3235VA	--	--	--	--	--	--	.0005	.1589	.0318	.0011

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3235VB	.0265	.2650	5.66	10.1087	5,054.352	500.0000	572.1523
3235VD	.0009	.0888	5.63	10.0301	6,686.758	666.6667	752.9292
3235VC	--	.1912	5.23	5.5568	27,783.781	5,000.0000	1,937.4553
3235VA	.0053	.3178	4.72	5.1242	1,537.251	300.0000	96.7443

Table 4.--Continued
Twelvemile Creek (locality 40)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2513	894.8171	88.6172	10.4167	.0208	.9661	--	--	.0005	--
AU2513	893.8992	87.7606	10.4167	.0313	1.8228	--	--	.0052	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2513	.0031	--	--	--	.3125	--	--	--	--	--
AU2513	.0021	--	--	--	1.0417	--	.0009	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2513	--	--	--	--	--	--	--	--	--	--
AU2513	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2513	--	--	--	--	--	--	.0021	.0729	.0052	.0073
AU2513	--	--	--	--	--	--	.0021	.1563	.0208	.0313

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2513	.0208	.5208	4.8	8.5072	4,253.6250	500.0000	408.3477
AU2513	.0104	.5208	4.8	8.4250	2,808.3374	333.3333	269.6003

Table 4.--Continued
Twelvemile Creek (locality 41)

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%
AU2772	980.9255	97.0299	1.8868	.0943	1.0833	--	--	.0002
AU2777	949.3462	93.7091	5.0000	.0500	1.2909	--	--	.0002
AU2481	930.4507	90.0464	6.7308	.0192	3.2228	.0192	--	.0005
AU2780	926.5945	92.0420	7.2917	.0521	.6664	--	--	.0005
AU2533	913.2656	90.7708	8.6207	.0172	.6085	--	--	.0006
AU2533	905.0398	89.9124	9.4340	.0283	.6537	--	--	.0007
AU2533	902.8081	89.3166	9.6154	.0288	1.0681	--	--	.0007
AU2533	901.6868	89.9174	9.8039	.0196	.2786	--	--	.0010
AU2775	901.1370	89.3627	9.8039	.0294	.8333	--	--	.0005
AU2481	899.2605	89.2660	10.0000	.0300	.7340	.0100	--	.0010
AU2533	896.7817	88.6554	10.2041	.0102	1.1405	--	--	.0005
AU2747	894.9309	88.7246	10.4167	.0208	.8588	.0104	--	.0007
AU2738	878.0530	86.9000	12.0690	.0259	1.0310	.0259	--	.0009
AU2769	817.8921	81.6590	18.1818	.0136	.1591	--	--	.0009

SAMPLE	AS%	SB%	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%
AU2772	--	--	--	--	--	.9434	--	--	--	--
AU2777	--	.0020	--	--	--	1.0000	--	--	--	--
AU2481	--	.0029	--	--	--	2.8846	--	--	--	--
AU2780	--	.0052	--	--	--	.5208	--	--	--	--
AU2533	--	.0017	--	.0003	--	.4310	--	--	--	--
AU2533	--	--	--	--	--	.4717	--	.0009	.0009	--
AU2533	--	.0029	--	--	--	.9615	--	--	--	--
AU2533	--	.0098	--	--	--	.0980	--	--	--	--
AU2775	--	.0020	--	--	--	.4902	--	--	--	--
AU2481	--	.0030	--	--	--	.5000	--	--	--	--
AU2533	--	--	--	--	--	1.0204	--	--	--	--
AU2747	--	.0104	--	--	--	.5208	--	--	--	--
AU2738	--	.0172	--	--	--	.5172	--	--	--	--
AU2769	--	.0045	--	--	--	.0909	--	--	--	--

SAMPLE	MO%	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%
AU2772	--	--	--	--	--	--	--	--	--	--
AU2777	--	--	--	--	--	--	--	--	--	--
AU2481	--	--	--	--	--	--	--	--	--	--
AU2780	--	--	--	--	--	--	--	--	--	--
AU2533	--	--	--	--	--	--	.0043	--	.0004	--
AU2533	--	--	--	--	--	--	--	--	--	--
AU2533	--	--	--	--	--	--	--	--	--	--
AU2533	--	--	--	--	--	--	--	--	--	--
AU2775	--	--	--	--	--	--	--	--	--	--
AU2481	--	--	--	--	--	--	.0005	--	--	--
AU2533	--	--	--	--	--	--	--	--	--	--
AU2747	--	--	--	--	--	--	.0052	--	--	--
AU2738	--	--	--	--	--	--	--	--	--	--
AU2769	--	--	--	--	--	--	--	--	--	--

Table 4.--Continued
Twelvemile Creek (locality 41)

SAMPLE	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2772	--	--	--	--	--	--	--	.0001	.0094	.0019	.0028
AU2777	--	--	--	--	--	--	--	.0007	.1500	.0030	.0050
AU2481	--	--	--	--	--	--	--	.0005	.1442	.0048	.0019
AU2780	--	--	--	--	--	--	--	.0002	.0313	.0021	.0021
AU2533	--	--	--	--	--	--	--	.0003	.0862	.0026	.0026
AU2533	--	--	--	--	--	--	--	.0002	.0472	.0047	.0019
AU2533	--	--	--	--	--	--	--	.0001	.0192	.0029	.0010
AU2533	--	--	--	--	--	--	--	.0002	.0686	.0049	.0029
AU2775	--	--	--	--	--	--	--	.0005	.0980	.0069	.0098
AU2481	--	--	--	--	--	--	--	.0005	.1000	.0050	.0070
AU2533	--	--	--	--	--	--	--	.0002	.0510	.0031	.0020
AU2747	--	--	--	--	--	--	--	.0007	.2083	.0031	.0031
AU2738	--	--	--	--	--	--	--	.0009	.3448	.0034	.0034
AU2769	--	--	--	--	--	--	--	.0001	.0182	.0018	.0014

SAMPLE	TI%	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2772	.0028	.0283	5.3	51.4259	1,028.5168	20.0000	545.1140
AU2777	.0100	.0700	5.0	18.7418	1,874.1824	100.0000	374.8364
AU2481	.0007	.1442	5.2	13.3783	4,682.4141	350.0000	695.6731
AU2780	--	.0521	4.8	12.6229	1,767.2053	140.0000	242.3595
AU2533	.0009	.0603	5.8	10.5294	5,264.7070	500.0000	610.7058
AU2533	.0028	.0943	5.3	9.5307	3,176.9031	333.3333	336.7517
AU2533	.0029	.0481	5.2	9.2889	3,096.3071	333.3333	322.0159
AU2533	.0049	.0686	5.1	9.1716	4,585.7891	500.0000	467.7507
AU2775	.0490	.1471	5.1	9.1150	3,038.3335	333.3333	309.9102
AU2481	.0070	.0700	5.0	8.9266	2,975.5334	333.3333	297.5532
AU2533	.0020	.0510	4.9	8.6882	8,688.2227	999.9998	851.4456
AU2747	.0021	.0729	4.8	8.5176	4,258.7773	500.0000	408.8425
AU2738	.0052	.0862	2.9	7.2003	3,360.1323	466.6667	278.4109
AU2769	.0004	.0273	5.5	4.4912	5,988.3281	1,333.3335	329.3579

Table 4.--Continued
Tramway Bar (locality 42)

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%
AU2524	903.1230	89.6380	9.6154	.0288	.7466	--	--	.0019
AU2523	898.5112	88.5330	10.0000	.0300	1.4670	--	--	.0015
AU2521	893.4431	83.8467	10.0000	.0200	6.1533	--	--	.0070
AU2522	867.6357	79.1112	12.0690	.0345	8.8198	--	--	.0017
AU2523	857.5303	85.1750	14.1509	.0189	.6741	--	--	.0009

SAMPLE	AS%	SB%	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%
AU2524	.0048	.0048	--	--	--	.4808	--	.0048	--	--
AU2523	--	.0020	.0005	--	--	1.0000	--	--	--	--
AU2521	--	--	--	--	--	6.0000	--	--	--	--
AU2522	--	.0259	--	--	--	8.6207	--	--	--	--
AU2523	--	.0066	--	--	--	.4717	--	--	--	--

SAMPLE	MO%	GE%	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%
AU2524	--	--	--	--	--	--	.0048	--	--	.0005
AU2523	--	--	--	--	.2	--	--	--	--	--
AU2521	--	--	--	--	--	--	--	--	--	--
AU2522	--	--	--	--	--	--	--	--	--	--
AU2523	--	--	--	--	--	--	--	--	--	--

SAMPLE	LA%	SC%	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%
AU2524	--	--	--	--	--	--	--	.0019	.0962	.0067	.0048
AU2523	--	--	--	--	--	--	--	.0010	.1000	.0070	.0200
AU2521	--	--	--	--	--	--	--	.0003	.0700	.0030	.0020
AU2522	--	--	--	--	--	--	--	.0009	.0345	.0034	.0086
AU2523	--	--	--	--	--	--	--	.0014	.0660	.0094	.0047

SAMPLE	TI%	SI%	AU-SN	R=AU/AG	AU/CU	AG/CU	R/CU
AU2524	.0096	.0962	5.2	9.3224	3,107.4500	333.3333	323.1748
AU2523	.0050	.1000	5.0	8.8533	2,951.1001	333.3333	295.1101
AU2521	.0010	.0500	5.0	8.3847	4,192.3359	500.0000	419.2334
AU2522	.0034	.0862	2.9	6.5549	2,294.2246	350.0000	190.0928
AU2523	--	.0943	5.3	6.0190	4,514.2734	750.0000	319.0088

Table 4.--Continued
Smalley Creek (locality 43)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2534	933.2170	92.2807	6.6038	.0189	1.1156	--	--	.0003	--
AU2534	899.7192	89.7202	10.0000	.0150	.2798	--	--	.0005	--
AU2773	895.4451	89.2123	10.4167	.0417	.3710	--	--	.0010	--
AU2776	890.2241	88.6975	10.9375	.0313	.3650	--	--	.0008	--
AU2778	853.2688	84.8050	14.5833	.0417	.6116	--	--	.0010	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2534	--	--	--	--	.9434	--	--	--	--	--
AU2534	.0020	--	--	--	.1000	--	--	--	--	--
AU2773	.0042	--	--	--	.1458	--	--	--	--	--
AU2776	.0047	--	--	--	.1563	--	--	--	--	--
AU2778	--	--	--	--	.4167	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2534	--	--	--	--	--	--	--	--	--	--
AU2534	--	--	--	--	--	--	--	--	--	--
AU2773	--	--	--	--	--	--	--	--	--	--
AU2776	--	--	--	--	--	--	--	--	--	--
AU2778	--	--	--	--	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2534	--	--	--	--	--	--	.0002	.0472	.0047	.0019
AU2534	--	--	--	--	--	--	.0003	.0500	.0030	.0020
AU2773	--	--	--	--	--	--	.0002	.0625	.0063	.0042
AU2776	--	--	--	--	--	--	.0001	.0781	.0031	.0016
AU2778	--	--	--	--	--	--	.0002	.0417	.0042	.0021

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2534	.0047	.0943	5.3	13.9739	4,890.8750	350.0000	740.6182
AU2534	.0070	.1000	5.0	8.9720	5,981.3477	666.6667	598.1348
AU2773	.0010	.1042	2.4	8.5644	2,141.0940	250.0000	205.5450
AU2776	.0109	.0781	3.2	8.1095	2,838.3208	350.0000	259.5037
AU2778	--	.1042	2.4	5.8152	2,035.3201	350.0000	139.5648

Table 4.--Continued
Davis Creek (locality 44)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
AU2587	906.7229	90.0072	9.2593	.0463	.7335	--	--	.0005	--
AU2587	899.5247	89.5270	10.0000	.0300	.4730	--	--	.0007	--
AU2587	848.7468	84.1713	15.0000	.0300	.8287	--	--	.0007	--
AU2811	797.4207	78.7266	20.0000	.0400	1.2734	--	--	.0030	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
AU2587	.0028	--	--	--	.463	--	--	--	--	--
AU2587	.0050	--	--	--	.200	--	--	--	--	--
AU2587	.0030	--	--	--	.500	--	--	--	--	--
AU2811	.0400	--	.0014	--	.400	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
AU2587	--	--	--	--	--	--	--	--	--	--
AU2587	--	--	--	--	--	--	--	--	--	--
AU2587	--	--	--	--	--	--	--	--	--	--
AU2811	--	--	--	--	--	--	.001	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
AU2587	--	--	--	--	--	--	.0006	.0648	.0093	.0065
AU2587	--	--	--	--	--	--	.0003	.0700	.0070	.0050
AU2587	--	--	--	--	--	--	.0010	.1000	.0070	.0070
AU2811	--	--	--	--	--	--	.0020	.6000	.0060	.0100

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2587	.0009	.1389	5.4	9.7208	1,944.1558	200.0000	209.9688
AU2587	.0050	.1500	5.0	8.9527	2,984.2334	333.3333	298.4233
AU2587	.0300	.1500	5.0	5.6114	2,805.7097	500.0000	187.0473
AU2811	.0300	.1400	2.5	3.9363	1,968.1653	500.0000	98.4083

Table 4.--Continued
Gold Bench Mine (locality 45)
Whitish-yellow gold

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%	Sb%
AU2525	898.3833	88.409	10	.025	1.591	--	--	.005	--	--

Sample	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%	Ge%
AU2525	--	--	--	1	--	--	--	--	--	--

Sample	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%	Sc%
AU2525	--	--	--	--	.0035	--	--	--	--	--

Sample	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%	Ti%
AU2525	--	--	--	--	--	.0025	.25	.01	.01	.035

Sample	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
AU2525	.25	1	8.8409	3,536.3606	400	353.6360

Table 4.--Continued
Gold Bench Mine (locality 45)
Yellow gold

SAMPLE	FINENESS	AU%	AG%	CU%	X%	ZN%	GA%	PB%	AS%	SB%
AU2526	899.5156	89.5180	10	.03	.4820	--	--	.0050	--	.007
AU2526	899.3291	89.3335	10	.03	.6665	--	--	.0015	--	.003

SAMPLE	CD%	BI%	IN%	HG%	TE%	NI%	CO%	SN%	MO%	GE%
AU2526	--	--	--	.1	--	--	--	--	--	--
AU2526	--	--	--	.3	--	--	--	--	--	--

SAMPLE	PT%	PD%	BA%	SR%	ZR%	V%	CR%	Y%	LA%	SC%
AU2526	--	--	--	--	--	--	--	--	--	--
AU2526	--	--	--	--	--	--	--	--	--	--

SAMPLE	NB%	B%	TA%	BE%	W%	MN%	FE%	MG%	CA%	TI%
AU2526	--	--	--	--	--	.010	.15	.01	.01	.01
AU2526	--	--	--	--	--	.002	.20	.01	.01	.01

SAMPLE	SI%	AU-SW	R=AU/AG	AU/CU	AG/CU	R/CU
AU2526	.15	5	8.9518	2,983.9333	333.3333	298.3933
AU2526	.10	5	8.9333	2,977.7832	333.3333	297.7783

Table 4.--Continued
Prospect Creek 1 (locality 46)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3083D	896.1750	88.9854	10.3093	.0206	.7054	--	--	.0010	--
3083B	891.6870	88.5218	10.7527	.0075	.7255	--	--	.0032	--
3083A	838.2915	82.7229	15.9574	.0160	1.3197	--	--	.0016	--
3083C	794.8196	78.8953	20.3666	.0153	.7381	--	--	.0020	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3083D	.0021	--	--	--	.5155	--	--	--	--	--
3083B	--	--	.0002	--	.5376	--	--	--	--	--
3083A	--	--	--	--	1.0638	--	--	--	--	--
3083C	--	--	--	--	.5092	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3083D	--	--	--	.0010	--	--	--	--	--	--
3083B	--	--	--	.0011	--	--	--	--	--	--
3083A	--	--	--	.0011	--	--	--	--	--	--
3083C	--	--	--	.0005	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3083D	--	--	.0002	--	--	--	.0005	.0515	.0072	.0015
3083B	--	--	--	--	--	--	.0005	.0538	.0108	.0011
3083A	--	--	--	--	--	--	.0011	.1064	.0106	.0021
3083C	--	--	--	--	--	--	.0003	.0509	.0051	.0010

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3083D	.0010	.1031	4.85	8.6316	4,315.789	500.0000	418.6318
3083B	.0022	.1075	4.65	8.2325	11,760.758	1,428.5713	1,093.7505
3083A	.0106	.1064	4.70	5.1840	5,183.969	1,000.0000	324.8621
3083C	.0010	.1527	4.91	3.8738	5,165.016	1,333.3333	253.6024

Table 4.--Continued
Prospect Creek 2 (locality 46)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3084C	908.4297	90.1873	9.0909	.0136	.7218	--	--	.0009	--
3084D	902.5903	89.6122	9.6712	.0097	.7166	--	--	.0015	--
3084A	851.3979	83.7632	14.6199	.0146	1.6170	--	--	.0019	--
3084B	846.3528	83.4610	15.1515	.0101	1.3875	--	--	.0071	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3084C	.0018	--	--	--	.4545	--	--	--	--	--
3084D	--	--	--	--	.4836	--	--	--	--	--
3084A	.0019	--	--	--	.6823	--	--	--	--	--
3084B	.0020	--	--	--	1.0101	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3084C	--	--	--	.0018	--	--	--	--	--	--
3084D	--	--	--	.0677	--	--	--	--	--	--
3084A	--	--	--	.4873	--	--	.0010	--	.0015	--
3084B	--	--	--	.0051	--	--	.0009	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3084C	--	--	--	--	--	--	.0009	.0909	.0136	.0027
3084D	--	--	.0005	--	--	--	.0005	.0484	.0048	.0019
3084A	--	--	.0005	--	--	--	.0019	.0682	.0146	.0975
3084B	--	--	.0003	--	--	--	.0015	.1515	.0101	.0303

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3084C	.0045	.1364	5.50	9.9206	6,613.7305	666.6665	727.5105
3084D	.0015	.0967	5.17	9.2659	9,265.8984	999.9998	958.0938
3084A	.0487	.1949	5.13	5.7294	5,729.3984	1,000.0000	391.8909
3084B	.0071	.1515	4.95	5.5084	8,262.6328	1,500.0000	545.3335

Table 4.--Continued
Prospect Creek 3 (locality 46)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3085A	890.6807	88.3680	10.8460	.0108	.7861	--	--	.0005	--
3085B	854.5754	84.7559	14.4231	.0067	.8211	--	--	.0192	--
3085C	841.9502	83.0632	15.5925	.0156	1.3443	--	--	.0052	--
3085D	841.1006	83.0537	15.6904	.0052	1.2560	--	--	.0314	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3085A	.0019	--	--	--	.5423	--	--	--	--	--
3085B	--	--	--	--	.4808	--	--	--	--	--
3085C	.0104	--	--	--	1.0395	--	--	.001	--	--
3085D	--	--	--	--	1.0460	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3085A	--	--	--	.0011	--	--	--	--	--	--
3085B	--	--	--	.0010	--	.0007	--	--	--	--
3085C	--	--	--	.0007	--	--	--	--	--	--
3085D	--	--	--	.0010	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3085A	--	--	.0011	--	--	--	.0011	.1085	.0076	.0011
3085B	--	--	.0007	--	--	--	.0014	.1442	.0096	.0029
3085C	--	--	--	--	--	--	.0010	.1559	.0073	.0016
3085D	--	--	.0002	--	--	--	.0005	.0523	.0052	.0021

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3085A	.0016	.1085	4.61	8.1475	8,147.523	999.9998	751.2017
3085B	.0096	.1442	5.20	5.8764	12,592.301	2,142.8574	873.0662
3085C	.0021	.1040	4.81	5.3271	5,327.117	1,000.0000	341.6458
3085D	.0073	.1046	4.78	5.2933	15,879.863	3,000.0007	1,012.0764

Table 4.--Continued
Prospect Creek 4 (locality 46)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3086C	904.2307	89.0736	9.4340	.0094	1.4925	--	--	.0047	--
3086D	854.0105	84.0489	14.3678	.0144	1.5833	--	--	.0029	--
3086A	849.8679	83.4104	14.7348	.0147	1.8548	--	--	.0010	--
3086B	808.1724	80.2479	19.0476	.0143	.7045	--	--	.0095	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3086C	--	--	.0009	--	.9434	--	--	--	--	--
3086D	--	--	.0479	--	.9579	--	--	--	--	--
3086A	.0020	--	.0002	--	1.4735	--	--	--	--	--
3086B	.0017	--	--	--	.4762	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3086C	--	--	--	.2830	--	--	--	--	--	--
3086D	--	--	--	.1916	--	--	--	--	--	--
3086A	--	--	--	.0010	--	--	--	--	--	--
3086B	--	--	--	.0010	--	--	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3086C	--	--	--	--	--	--	.0009	.0943	.0094	.0019
3086D	--	--	--	--	--	--	.0019	.1916	.0096	.0029
3086A	--	--	--	--	--	--	.0015	.1965	.0147	.0015
3086B	--	--	--	--	--	--	.0005	.0476	.0095	.0014

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3086C	.0028	.1415	5.30	9.4418	9,441.8008	1,000.0000	1,000.8308
3086D	.0192	.1437	5.22	5.8498	5,849.8008	1,000.0000	407.1462
3086A	.0010	.1473	5.09	5,6608	5,660.7852	1,000.0000	384.1787
3086B	--	.1429	5.25	4.2130	5,617.3516	1,333.3337	294.9109

Table 4.--Continued
Prospect Creek 5 (locality 46)

Sample	Fineness	Au%	Ag%	Cu%	X%	Zn%	Ga%	Pb%	As%
3087C	901.6287	88.9859	9.7087	.0097	1.3053	--	--	.0049	--
3087D	898.6584	88.3229	9.9602	.0100	1.7170	--	--	.0299	--
3087A	852.2400	83.3486	14.4509	.0096	2.2005	--	--	.0029	--
3087B	848.0928	83.7444	15.0000	.0300	1.2556	--	--	.0020	--

Sample	Sb%	Cd%	Bi%	In%	Hg%	Te%	Ni%	Co%	Sn%	Mo%
3087C	--	--	--	--	.9709	--	--	--	--	--
3087D	--	--	.0002	--	1.4940	--	--	--	--	--
3087A	.0017	--	.0002	--	1.9268	--	--	--	--	--
3087B	--	.0005	.0030	--	1.0000	--	--	--	--	--

Sample	Ge%	Pt%	Pd%	Ba%	Sr%	Zr%	V%	Cr%	Y%	La%
3087C	--	--	--	.0015	--	--	--	--	--	--
3087D	--	--	--	.0005	--	--	--	--	--	--
3087A	--	--	--	.0019	--	--	--	--	--	--
3087B	--	--	--	.1000	--	.001	--	--	--	--

Sample	Sc%	Nb%	B%	Ta%	Be%	W%	Mn%	Fe%	Mg%	Ca%
3087C	--	--	--	--	--	--	.0029	.0971	.0097	.0049
3087D	--	--	--	--	--	--	.0001	.0299	.0020	.0010
3087A	--	--	.0005	--	--	--	.0007	.0963	.0096	.0029
3087B	--	--	--	--	--	--	.0002	.0150	.0030	.0010

Sample	Ti%	Si%	Au-sw	R=Au/Ag	Au/Cu	Ag/Cu	R/Cu
3087C	.0097	.1942	5.15	9.1655	9,165.5469	999.9998	944.0513
3087D	--	.1494	5.02	8.8676	8,867.6133	999.9998	890.3086
3087A	.0029	.1445	5.19	5.7677	8,651.5820	1,499.9998	598.6895
3087B	--	.1000	5.00	5.5830	2,791.4783	500.0000	186.0986

Table 5.--Spectrographic analyses for heavy-mineral-concentrate samples from lode gold and placer gold samples from the Koyukuk-Chandalar mining district, Bettles, Chandalar, and Wiseman quadrangles, Alaska

[N, not detected; <, detected but below limit of determination shown; >, determined to be greater than value shown; ppm, parts per million; pct, percent; s, spectrographic analysis; C-D, lode gold localities; 1-46, placer gold localities]

Table 5.--Continued
Summit Mine (locality C)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
2109	300	70	100	N	3,000	>20,000	200

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
2109	N	50	3.8	500	500	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
2109	70	200	500	50	20	150	50

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
2109	N	N	50	N	200	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
2109	50	50	<.05	2	1.5

Table 5.--Continued
Mikado Open Pit (locality D)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
2108	>1,000	300	200	N	200	>20,000	300
3004	N	3	100	N	150	2,000	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
2108	N	N	>9	1,000	700	N	N
3004	N	N	--	N	15	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
2108	700	N	150	N	N	100	50
3004	1,000	1,500	700	200	150	300	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
2108	N	N	50	N	N	N
3004	20	N	200	7	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
2108	50	50	.05	2	.3
3004	500	5	.50	5	>2.0

Table 5.--Continued
Middle Fork Big Squaw Creek (locality 1)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
3006	200	100	500	500	700	>20,000	500
3006A	>1,000	500	70	N	1,000	3,000	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
3006	N	20	--	100	70	N	N
3006A	N	N	--	N	15	70	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
3006	500	N	150	100	20	150	500
3006A	1,500	1,000	500	300	300	300	150

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
3006	10	N	50	2	200	N
3006A	30	150	300	7	500	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
3006	300	50	.2	.2	.7
3006A	300	5	.3	5.0	>2.0

Table 5.--Continued
Big Creek (locality 2)
Plus 35-mesh gold

SAMPLE	AU-PPM S	AG-PPM S	CU-PPM S	ZN-PPM S	PB-PPM S	AS-PPM S	SB-PPM S
3008	100	20	70	N	2,000	N	N

SAMPLE	CD-PPM S	BI-PPM S	HG-PPM INST	NI-PPM S	CO-PPM S	SN-PPM S	MO-PPM S
3008	N	N	--	100	70	N	N

SAMPLE	BA-PPM S	SR-PPM S	ZR-PPM S	V-PPM S	CR-PPM S	Y-PPM S	LA-PPM S
3008	1,500	1,000	500	200	150	300	1,000

SAMPLE	SC-PPM S	NB-PPM S	B-PPM S	BE-PPM S	W-PPM S	TH-PPM S
3008	20	N	300	7	700	N

SAMPLE	MN-PPM S	FE-PCT. S	MG-PCT. S	CA-PCT. S	TI-PCT. S
3008	1,000	20	.3	5	1.5

Table 5.--Continued
Tobin Creek (locality 4)

SAMPLE	AU-PPM S	AG-PPM S	CU-PPM S	ZN-PPM S	PB-PPM S	AS-PPM S	SB-PPM S
2107	100	15	50	N	100	N	N

SAMPLE	CD-PPM S	BI-PPM S	HG-PPM INST	NI-PPM S	CO-PPM S	SN-PPM S	MO-PPM S
2107	N	N	.8	30	50	N	N

SAMPLE	BA-PPM S	SR-PPM S	ZR-PPM S	V-PPM S	CR-PPM S	Y-PPM S	LA-PPM S
2107	500	2,000	>2,000	200	150	700	150

SAMPLE	SC-PPM S	MB-PPM S	B-PPM S	BE-PPM S	W-PPM S	TH-PPM S
2107	10	70	100	20	N	N

SAMPLE	MN-PPM S	FE-PCT. S	MG-PCT. S	CA-PCT. S	TI-PCT. S
2107	300	2	.2	20	>2

Table 5.--Continued
Garnet Creek (locality 7)

SAMPLE	AU-PPM S	AG-PPM S	CU-PPM S	ZN-PPM S	PB-PPM S	AS-PPM S	SB-PPM S
3009	30	5	700	N	200	1,000	N

SAMPLE	CD-PPM S	BI-PPM S	HG-PPM INST	NI-PPM S	CO-PPM S	SN-PPM S	MO-PPM S
3009	N	N	--	100	70	N	N

SAMPLE	BA-PPM S	SR-PPM S	ZR-PPM S	V-PPM S	CR-PPM S	Y-PPM S	LA-PPM S
3009	5,000	N	1,000	150	30	200	50

SAMPLE	SC-PPM S	NB-PPM S	B-PPM S	BE-PPM S	W-PPM S	TH-PPM S
3009	15	70	70	2	2,000	N

SAMPLE	MN-PPM S	FE-PCT. S	MG-PCT. S	CA-PCT. S	TI-PCT. S
3009	300	30	.2	3	2

Table 5.--Continued
Lake Creek (locality 8)

SAMPLE	AU-PPM S	AG-PPM S	CU-PPM S	ZN-PPM S	PB-PPM S	AS-PPM S	SB-PPM S
2106	200	30	200	N	3,000	7,000	N

SAMPLE	CD-PPM S	BI-PPM S	HG-PPM INST	NI-PPM S	CO-PPM S	SN-PPM S	MO-PPM S
2106	N	N	1.8	500	500	N	N

SAMPLE	BA-PPM S	SR-PPM S	ZR-PPM S	V-PPM S	CR-PPM S	Y-PPM S	LA-PPM S
2106	5,000	200	2,000	100	20	100	N

SAMPLE	SC-PPM S	NB-PPM S	B-PPM S	BE-PPM S	W-PPM S	TH-PPM S
2106	N	N	30	N	N	N

SAMPLE	MN-PPM S	FE-PCT. S	MG-PCT. S	CA-PCT. S	TI-PCT. S
2106	100	50	.1	5	>2

Table 5.--Continued
Magnet Creek (locality 9)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
2102	70	50	100	N	10,000	15,000	2,000

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
2102	N	70	2.5	150	200	1,500	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
2102	5,000	1,000	>2,000	200	100	500	70

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
2102	N	100	100	<2	200	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
2102	300	7	.15	10	>2

Table 5.--Continued
Gold Creek (locality 10)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
2103	20	200	500	N	50,000	15,000	1,000

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
2103	N	500	3.4	700	700	1,500	150

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
2103	5,000	500	>2,000	150	50	300	200

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
2103	N	70	70	N	1,000	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
2103	300	30	.15	5	>2

Table 5.--Continued
Linda Creek (locality 11)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
2101	N	2	100	N	300	1,000	N
3011	N	N	200	N	100	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
2101	N	N	8.4	100	100	N	N
3011	N	N	--	70	70	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
2101	5,000	1,000	>2,000	200	100	500	70
3011	7,000	700	1,000	300	200	200	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
2101	N	100	100	<2	300	N
3011	20	70	200	5	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
2101	500	10	.2	10	>2
3011	1,000	20	.5	5	>2

Table 5.--Continued
Sheep Creek (locality 12)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
3012	N	N	50	N	500	>20,000	1,000
3012A	N	1,000	150	N	>50,000	>20,000	1,500
3012B	N	50	100	N	10,000	>20,000	1,500

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
3012	N	N	--	500	500	N	N
3012A	N	1,000	--	200	200	>2,000	N
3012B	N	70	--	500	150	700	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
3012	100	N	>2,000	N	N	150	1,000
3012A	100	N	1,500	N	N	N	N
3012B	700	N	700	N	N	100	100

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
3012	20	N	30	2	1,500	N
3012A	N	N	N	N	N	N
3012B	10	N	N	N	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
3012	300	50	.15	.7	1.0
3012A	200	30	<.05	1.0	.2
3012B	500	50	.30	.7	.7

Table 5.--Continued
Hammond River (locality 13)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1944	N	30	200	N	15,000	>20,000	500
1944A	100	30	200	N	10,000	>20,000	500

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm INST	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1944	N	70	3.0	500	500	N	N
1944A	N	30	8.4	500	700	150	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1944	2,000	N	1,000	70	20	100	N
1944A	1,000	300	1,000	70	N	70	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1944	N	N	50	N	N	N
1944A	N	N	50	N	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1944	300	50	.07	1	1.5
1944A	200	50	.07	1	1.5

Table 5.--Continued
Gold Bottom Gulch (locality 14)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1995A	100	20	50	N	5,000	2,000	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1995A	N	N	5.8	100	150	20	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1995A	1,500	1,000	>2,000	500	150	300	150

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1995A	10	150	100	N	200	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1995A	700	5	.2	10	>2

Table 5.--Continued
Bench on Swift Creek (locality 15)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
3001	N	1	70	N	200	>20,000	1,000

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
3001	N	20	--	150	100	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
3001	5,000	N	100	N	N	200	2,000

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
3001	N	N	N	N	1,500	500

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
3001	5,000	50	.2	.2	.3

Table 5.--Continued
Swift Creek (locality 16)

SAMPLE	AU-PPM S	AG-PPM S	CU-PPM S	ZN-PPM S	PB-PPM S	AS-PPM S	SB-PPM S
1996	30	15	150	N	1,000	>20,000	700
1996A	N	3	50	N	700	>20,000	1,000

SAMPLE	CD-PPM S	BI-PPM S	HG-PPM INST	NI-PPM S	CO-PPM S	SN-PPM S	MO-PPM S
1996	N	20	>9.0	500	500	N	N
1996A	N	N	1.9	500	500	30	N

SAMPLE	BA-PPM S	SR-PPM S	ZR-PPM S	V-PPM S	CR-PPM S	Y-PPM S	LA-PPM S
1996	2,000	<200	200	50	N	70	N
1996A	2,000	<200	150	30	N	30	N

SAMPLE	SC-PPM S	NB-PPM S	B-PPM S	BE-PPM S	W-PPM S	TH-PPM S
1996	N	N	70	N	N	N
1996A	N	N	50	N	N	N

SAMPLE	MN-PPM S	FE-PCT. S	MG-PCT. S	CA-PCT. S	TI-PCT. S
1996	700	50	.2	.2	1.0
1996A	300	30	.1	.2	.5

Table 5.--Continued
Vermont Creek (locality 17)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s	Cd-ppm s
1140A	700	100	300	700	3,000	7,000	N	N
1140B	50	7	2,000	500	2,000	15,000	N	N
1140C	200	2,000	1,500	1,000	300	7,000	N	N
1140C	N	5	200	500	500	1,000	200	N
1140D	N	100	150	500	5,000	>20,000	700	N
1140E	N	5	500	N	1,000	7,000	N	N

Sample	Bi-ppm s	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s	Ba-ppm s	Sr-ppm s	Zr-ppm s
1140A	20	200	300	N	N	5,000	500	>2,000
1140B	N	500	1,000	N	N	1,000	N	200
1140C	N	150	150	N	N	3,000	200	2,000
1140C	N	200	200	N	N	100	N	50
1140D	200	150	200	N	N	N	N	20
1140E	N	300	500	N	N	1,500	N	100

Sample	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s
1140A	200	50	150	100	10	50	100	N
1140B	30	N	70	N	N	N	50	N
1140C	70	30	150	100	15	N	150	N
1140C	50	20	20	N	<10	N	70	N
1140D	20	N	<20	N	N	N	50	N
1140E	50	N	50	N	N	N	70	N

Sample	W-ppm s	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1140A	N	700	30	.50	5.0	2.0
1140B	N	300	50	.07	.2	.3
1140C	N	700	30	.30	1.0	>2.0
1140C	N	150	20	.05	<.1	.1
1140D	N	100	20	<.05	<.1	.1
1140E	N	1,000	50	.10	.1	.2

Table 5.--Continued
Thompson Pup (locality 19)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
3003	200	50	500	N	2,000	500	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
3003	N	N	--	50	50	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
3003	10,000	1,500	1,000	200	50	200	200

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
3003	30	N	200	N	100	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
3003	7,000	10	.3	5	>2

Table 5.--Continued
Thompson Pup (locality 20)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
3002	150	15	70	N	50	700	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm INST	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
3002	N	N	--	100	100	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
3002	1,000	700	300	300	150	200	300

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
3002	20	N	200	2	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
3002	1,000	15	.5	5	>2

Table 5.--Continued
Faye Creek (locality 21)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1982	50	50	200	N	15,000	3,000	200
1982A	N	3	1,000	500	700	2,000	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1982	N	50	>9.0	150	300	N	N
1982A	N	N	3.2	700	500	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1982	>10,000	700	2,000	100	20	150	N
1982A	200	N	70	20	N	20	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1982	N	N	100	N	1,000	N
1982A	N	N	70	N	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1982	500	30	.1	2.0	2.00
1982A	500	50	.1	.1	.15

Table 5.--Continued
Archibald Creek (locality 22)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1981	>1,000	700	300	N	>50,000	>20,000	700
1981A	>1,000	700	200	N	50,000	20,000	300
1981B	70	3,000	200	N	>50,000	10,000	1,000
1981C	N	50	150	N	15,000	15,000	1,500
1981D	300	50	150	N	10,000	10,000	<200
1981E	N	10	500	N	7,000	10,000	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1981	N	500	>9.0	300	200	1,500	N
1981A	N	300	>9.0	300	200	300	N
1981B	N	>2,000	>9.0	30	N	200	N
1981C	N	100	3.2	300	200	N	N
1981D	N	50	>9.0	200	300	N	N
1981E	N	N	5.2	200	200	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1981	3,000	N	700	N	N	30	N
1981A	5,000	N	500	N	N	20	N
1981B	100	N	N	N	N	N	N
1981C	10,000	300	2,000	30	N	50	N
1981D	5,000	200	100	30	N	30	N
1981E	2,000	N	200	20	N	30	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1981	N	N	70	N	N	N
1981A	N	N	50	N	N	N
1981B	N	N	<20	N	N	N
1981C	N	N	70	N	N	N
1981D	N	N	70	N	N	N
1981E	N	N	70	N	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1981	700	50	.07	.30	.30
1981A	500	30	.05	.20	.20
1981B	200	2	<.05	.10	.07
1981C	300	50	.07	.50	.70
1981D	150	50	.07	.30	.50
1981E	500	50	.10	.15	.30

Table 5.--Continued
Smith Creek (locality 23)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1737	N	<1	30	N	70	N	N
1737A	100	50	1,000	N	20,000	1,000	1,000
1737B	>1,000	500	100	N	>50,000	2,000	10,000

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1737	N	N	1.1	50	30	N	N
1737A	N	50	7.7	100	50	1,000	N
1737B	N	200	>9.0	150	200	50	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1737	1,500	N	300	300	150	70	N
1737A	1,000	200	200	200	50	150	N
1737B	2,000	500	>2,000	50	20	150	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1737	50	N	500	5	N	N
1737A	15	N	150	N	N	N
1737B	10	N	70	N	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1737	700	5	1.0	.15	1.0
1737A	1,500	15	.7	2.00	1.0
1737B	1,000	30	1.0	3.00	1.5

Table 5.--Continued
Smith Creek (locality 24)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1736	20	10	30	N	5,000	N	300
1736A	700	100	30	N	30,000	N	200

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1736	N	N	2.7	50	150	N	N
1736A	N	30	>9.0	50	200	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1736	>10,000	1,500	2,000	70	N	100	N
1736A	>10,000	1,000	>2,000	100	30	200	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1736	N	N	100	N	N	N
1736A	10	N	100	N	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1736	500	7	.2	2	1
1736A	700	5	.2	7	>2

Table 5.--Continued
Union Gulch (locality 25)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s	Cd-ppm s
1143AC	N	2	2,000	N	1,000	2,000	<200	N
1143B	70	5	200	N	500	5,000	N	N
1143C	N	2	2,000	500	200	1,500	200	N

Sample	Bi-ppm s	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s	Ba-ppm s	Sr-ppm s	Zr-ppm s
1143AC	N	200	500	N	N	1,500	500	1,000
1143B	N	70	300	N	N	5,000	500	1,500
1143C	N	150	200	N	N	1,000	700	500

Sample	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s
1143AC	150	70	100	150	20	50	200	<2
1143B	100	20	100	N	N	N	150	N
1143C	100	100	100	150	20	<50	200	2

Sample	W-ppm s	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1143AC	N	5,000	15	.5	3	>2
1143B	N	500	10	.3	2	2
1143C	N	3,000	10	.7	2	2

Table 5.--Continued
Mascot Creek (locality 26)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s	Cd-ppm s
1130A	20	100	500	500	7,000	3,000	N	N
1130B	N	15	500	500	3,000	500	N	N
1130C	N	5	3,000	1,000	1,000	1,000	N	N
1130C	100	700	200	N	>50,000	10,000	200	N
1130D	<20	700	70	N	>50,000	>20,000	500	N
1130E	500	200	150	N	50,000	10,000	200	N

Sample	Bi-ppm s	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s	Ba-ppm s	Sr-ppm s	Zr-ppm s
1130A	150	150	200	100	N	>10,000	10,000	500
1130B	20	150	70	50	N	>10,000	10,000	1,500
1130C	N	100	150	N	N	>10,000	1,000	1,000
1130C	1,000	200	300	500	N	>10,000	1,000	50
1130D	2,000	100	150	500	N	>10,000	3,000	N
1130E	1,000	300	700	200	N	>10,000	3,000	2,000

Sample	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s
1130A	20	20	70	500	10	N	100	N
1130B	20	N	50	100	10	N	70	N
1130C	50	50	150	200	10	<50	150	<2
1130C	20	N	20	N	N	N	50	N
1130D	N	N	N	N	N	N	<20	N
1130E	N	N	50	200	N	N	20	N

Sample	W-ppm s	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1130A	N	500	30	.20	1.00	.5
1130B	N	200	30	1.00	1.50	.5
1130C	N	1,000	10	.30	2.00	2.0
1130C	N	70	50	.05	.10	.2
1130D	N	100	30	<.05	.15	.1
1130E	100	150	30	<.05	.15	.3

Table 5.--Continued
Jay Creek (locality 28)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1756	N	5	200	N	1,500	N	N
1756A	>1,000	200	100	N	5,000	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1756	N	N	>9	100	200	N	N
1756A	N	70	>9	70	100	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1756	5,000	500	>2,000	150	70	300	100
1756A	1,500	300	>2,000	100	50	1,000	100

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1756	10	100	150	<2	N	N
1756A	10	50	300	10	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1756	500	10	1.5	10	>2
1756A	300	5	.5	5	>2

Table 5.--Continued
Birch Creek (locality 29)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s	Cd-ppm s
1714	N	2	500	N	300	N	200	N
1714	N	1	150	N	200	N	N	N
1714A	N	N	150	2,000	200	N	N	N

Sample	Bi-ppm s	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s	Ba-ppm s	Sr-ppm s	Zr-ppm s
1714	N	700	300	N	N	200	200	2,000
1714	N	50	30	N	N	500	200	2,000
1714A	N	70	50	N	N	1,000	500	>2,000

Sample	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s
1714	70	20	300	500	N	<50	50	<2
1714	150	50	150	100	N	N	100	<2
1714A	200	200	500	150	10	100	150	3

Sample	W-ppm s	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1714	N	200	50	.2	.3	1
1714	N	200	7	.3	3.0	2
1714A	N	300	7	.5	7.0	>2

Table 5.--Continued
Spring Creek (locality 30)

Sample	Au-ppms	Ag-ppms	Cu-ppms	Zn-ppms	Pb-ppms	As-ppms	Sb-ppms
1787	30	10	30	N	500	5,000	300

Sample	Cd-ppms	Bi-ppms	Hg-ppm inst	Ni-ppms	Co-ppms	Sn-ppms	Mo-ppms
1787	N	20	5.2	50	100	N	N

Sample	Ba-ppms	Sr-ppms	Zr-ppms	V-ppms	Cr-ppms	Y-ppms	La-ppms
1787	1,500	500	>2,000	200	150	500	150

Sample	Sc-ppms	Nb-ppms	B-ppms	Be-ppms	W-ppms	Th-ppms
1787	10	150	50	N	N	N

Sample	Mn-ppms	Fe-pct.s	Mg-pct.s	Ca-pct.s	Ti-pct.s
1787	200	5	.1	10	>2

Table 5.--Continued
Crevice Creek (locality 31)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s	Cd-ppm s
1103	N	N	1,000	N	2,000	N	N	N
1103A	70	200	500	700	50,000	5,000	<200	N
1103B	N	15	700	700	7,000	3,000	200	N
1103D	N	N	30	3,000	500	N	N	N

Sample	Bi-ppm s	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s	Ba-ppm s	Sr-ppm s	Zr-ppm s
1103	N	150	200	N	N	10,000	300	1,000
1103A	700	200	700	700	N	10,000	300	>2,000
1103B	500	200	500	200	N	10,000	500	1,000
1103D	N	50	50	N	70	10,000	300	>2,000

Sample	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s
1103	300	70	300	100	10	150	100	N
1103A	300	50	300	N	10	200	100	N
1103B	200	50	200	N	10	150	100	N
1103D	150	70	500	50	10	100	100	N

Sample	W-ppm s	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1103	N	1,000	20	1.5	10	>2
1103A	5,000	500	15	.7	7	>2
1103B	2,000	300	30	.7	5	>2
1103D	N	500	2	.3	10	>2

Table 5.--Continued
Sawyer Creek (locality 32)

SAMPLE	AU-PPM S	AG-PPM S	CU-PPM S	ZN-PPM S	PB-PPM S	AS-PPM S	SB-PPM S
1956	N	30	30	N	20,000	N	200

SAMPLE	CD-PPM S	BI-PPM S	HG-PPM INST	NI-PPM S	CO-PPM S	SN-PPM S	MO-PPM S
1956	N	N	1.8	30	50	N	N

SAMPLE	BA-PPM S	SR-PPM S	ZR-PPM S	V-PPM S	CR-PPM S	Y-PPM S	LA-PPM S
1956	700	700	1,500	500	150	500	50

SAMPLE	SC-PPM S	NB-PPM S	B-PPM S	BE-PPM S	W-PPM S	TH-PPM S
1956	N	150	500	2	100	N

SAMPLE	MN-PPM S	FE-PCT. S	MG-PCT. S	CA-PCT. S	TI-PCT. S
1956	300	2	.7	10	>2

Table 5.--Continued
Emma Creek (locality 33)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1504	N	7.0	30	N	10,000	N	N
1504A	N	2.0	50	N	500	N	N
1504B	50	1.5	50	N	700	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1504	N	N	1.3	100	70	N	N
1504A	N	N	4.0	100	100	N	N
1504B	N	N	1.8	100	100	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1504	200	1,000	2,000	300	100	500	N
1504A	700	1,000	2,000	200	100	300	50
1504B	500	1,000	>2,000	300	200	500	70

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1504	N	150	100	N	<100	N
1504A	N	150	1,000	N	N	N
1504B	10	150	700	<2	1,000	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1504	500	7	.2	10	>2
1504A	200	7	.5	10	>2
1504B	300	7	.7	20	>2

Table 5.--Continued
Clara Creek (locality 34)

SAMPLE	AU-PPM S	AG-PPM S	CU-PPM S	ZN-PPM S	PB-PPM S	AS-PPM S	SB-PPM S
3014	N	2	20	N	200	N	N

SAMPLE	CD-PPM S	BI-PPM S	HG-PPM INST	NI-PPM S	CO-PPM S	SN-PPM S	MO-PPM S
3014	N	N	--	N	N	50	N

SAMPLE	BA-PPM S	SR-PPM S	ZR-PPM S	V-PPM S	CR-PPM S	Y-PPM S	LA-PPM S
3014	700	2,000	700	200	200	500	70

SAMPLE	SC-PPM S	NB-PPM S	B-PPM S	BE-PPM S	W-PPM S	TH-PPM S
3014	20	70	200	5	N	N

SAMPLE	MN-PPM S	FE-PCT. S	MG-PCT. S	CA-PCT. S	TI-PCT. S
3014	700	1.5	.3	15	>2

Table 5.--Continued
Myrtle Creek (locality 35)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
3010	30	10	100	N	150	N	N
3010A	>1,000	700	100	N	15,000	2,000	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
3010	N	N	--	50	20	N	N
3010A	N	50	--	500	100	50	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
3010	1,000	500	1,000	300	200	200	100
3010A	500	N	100	N	N	100	100

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
3010	50	70	200	7	N	N
3010A	N	N	N	N	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
3010	1,000	7	.50	5.0	>2.0
3010A	150	>50	.07	.5	.5

Table 5.--Continued
Slate Creek (locality 36)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
2100	<20	3	100	N	300	2,000	N
2100A	N	N	20	N	30	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
2100	N	N	1.8	70	70	1,000	N
2100A	N	N	1.4	20	10	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
2100	700	500	>2,000	500	150	500	300
2100A	300	300	>2,000	700	150	500	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
2100	10	100	70	2	N	N
2100A	10	150	70	<2	100	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
2100	300	10.0	.3	10	>2
2100A	300	1.5	.5	15	>2

Table 5.--Continued
Slate Creek (locality 37)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
2105	>1,000	100	70	1,500	100	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
2105	N	N	>9	200	20	1,000	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
2105	>10,000	700	>2,000	500	150	500	200

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
2105	10	100	100	<2	100	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
2105	300	7	.2	10	>2

Table 5.--Continued
Porcupine Creek (locality 38)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1845	N	1	300	700	150	700	N
1845A	N	5	150	N	10,000	N	N
1845B	N	1	30	N	200	N	N
1845C	N	7	300	N	2,000	1,000	N
1845D	N	15	30	N	10,000	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1845	N	N	.5	700	200	N	N
1845A	N	N	1.4	200	150	N	N
1845B	N	N	3.0	30	N	N	N
1845C	N	N	4.7	1,000	300	N	N
1845D	N	N	.8	30	30	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1845	700	N	100	50	30	70	50
1845A	>10,000	1,500	500	150	20	100	N
1845B	1,000	2,000	>2,000	200	150	1,000	100
1845C	500	N	200	30	N	100	N
1845D	300	1,500	2,000	200	150	1,000	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1845	N	N	100	N	N	N
1845A	N	N	70	N	N	N
1845B	10	100	200	N	150	N
1845C	N	N	50	N	N	N
1845D	N	70	100	<2	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1845	150	50.0	.50	.2	.5
1845A	1,000	10.0	.50	5.0	.3
1845B	500	1.0	.20	20.0	>2.0
1845C	30	>50.0	.07	2.0	.7
1845D	300	1.5	.20	20.0	>2.0

Table 5.--Continued
Twelvemile Creek (locality 39)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
3235	70	200	500	N	>50,000	500	N
3235A	20	50	300	N	20,000	700	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
3235	150	500	--	200	100	2,000	N
3235A	N	100	--	200	150	700	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
3235	1,000	N	300	30	N	20	50
3235A	300	500	150	150	200	150	N

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
3235	10	N	N	N	300	N
3235A	30	N	20	N	<100	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
3235	300	15	<.05	.2	.5
3235A	1,500	15	.50	2.0	1.5

Table 5.--Continued
Twelvemile Creek (locality 40)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1846	30	5	20	N	100	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1846	N	N	5.4	20	N	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1846	500	1,000	>2,000	300	150	500	70

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1846	10	150	200	2	150	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1846	500	1.5	.2	15	>2

Table 5.--Continued
Twelvemile Creek (locality 41)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1517	N	N	20	N	150	N	N
1517B	N	N	30	N	20	N	N
1517C	N	N	20	N	50	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1517	N	N	3.2	20	10	N	N
1517B	N	N	5.6	20	N	N	N
1517C	N	N	2.5	20	N	N	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1517	700	1,000	1,000	300	150	700	50
1517B	200	700	100	200	150	500	N
1517C	700	1,000	>2,000	300	150	500	100

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1517	N	100	100	N	N	N
1517B	N	N	150	N	N	N
1517C	10	100	200	3	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1517	500	2.0	.3	15	>2
1517B	300	1.5	.7	20	>2
1517C	300	1.5	.3	20	>2

Table 5.--Continued
Tramway Bar (locality 42)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1847	50	5	50	N	150	N	N
1847A	70	50	50	N	500	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm INST	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1847	N	N	>9	50	20	N	N
1847A	N	N	>9	30	30	70	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1847	5,000	700	1,000	300	200	300	150
1847A	3,000	300	>2,000	200	100	500	70

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1847	30	100	200	5	N	N
1847A	10	50	100	<2	N	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1847	700	5	1.0	7	>2
1847A	700	2	.2	5	>2

Table 5.--Continued
Smalley Creek (locality 43)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1848	N	N	15	N	50	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm INST	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1848	N	N	1.2	20	N	1,500	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1848	500	700	>2,000	300	150	500	150

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1848	10	100	100	N	100	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1848	200	1	.5	10	>2

Table 5.--Continued
Davis Creek (locality 44)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
1849	N	N	20	N	30	N	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
1849	N	1,000	6.4	N	20	70	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
1849	500	700	>2,000	300	70	500	50

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
1849	10	50	300	N	>20,000	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
1849	300	1	.3	10	>2

Table 5.--Continued
Gold Bench Mine (locality 45)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
2104	N	N	100	N	150	3,000	N

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm INST	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
2104	N	N	>9	20	10	500	N

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
2104	5,000	700	>2,000	500	150	700	200

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
2104	10	100	100	2	700	N

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
2104	500	1.5	.5	15	>2

Table 5.--Continued
Prospect Creek (locality 46)

Sample	Au-ppm s	Ag-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	As-ppm s	Sb-ppm s
3083	>1,000	1,500	1,000	1,000	500	N	200
3084	>1,000	10,000	200	N	2,000	N	N
3085	>1,000	500	100	N	20	N	N
3086	>1,000	1,000	150	N	500	N	N
3087	500	100	700	700	1,000	N	N
3088	>1,000	1,000	700	N	50,000	N	700

Sample	Cd-ppm s	Bi-ppm s	Hg-ppm inst	Ni-ppm s	Co-ppm s	Sn-ppm s	Mo-ppm s
3083	N	N	--	700	100	500	100
3084	N	N	--	300	50	700	10
3085	N	N	--	70	N	300	15
3086	N	N	--	150	70	N	15
3087	N	N	--	500	100	N	50
3088	N	200	--	500	50	500	50

Sample	Ba-ppm s	Sr-ppm s	Zr-ppm s	V-ppm s	Cr-ppm s	Y-ppm s	La-ppm s
3083	>10,000	700	>2,000	N	N	150	100
3084	>10,000	1,000	>2,000	70	N	200	1,000
3085	>10,000	200	>2,000	100	50	150	150
3086	>10,000	1,000	>2,000	100	N	200	500
3087	>10,000	500	>2,000	N	N	100	200
3088	>10,000	N	>2,000	50	N	200	500

Sample	Sc-ppm s	Nb-ppm s	B-ppm s	Be-ppm s	W-ppm s	Th-ppm s
3083	10	N	N	N	1,000	N
3084	10	70	70	N	2,000	500
3085	10	50	70	N	1,500	N
3086	10	50	100	N	3,000	300
3087	10	N	N	N	700	N
3088	10	N	N	N	2,000	200

Sample	Mn-ppm s	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s
3083	700	50	.05	.15	.5
3084	500	10	.07	.70	1.0
3085	300	7	.10	.50	1.0
3086	500	7	.15	.50	1.5
3087	700	50	.05	.20	.5
3088	1,000	50	.05	.30	.7