

Division of Geological & Geophysical Surveys

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**GEOCHEMICAL DATA FROM REANALYSIS OF STREAM-SEDIMENT SAMPLES
COLLECTED IN 1982 FROM THE LIVENGOOD AREA, TOLOVANA MINING DISTRICT,
ALASKA**

by

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Note: This report (including all analytical data, tables, and map sheets) is available in digital format from the DGGs web site (<http://www.dggs.dnr.state.ak.us>) at no charge. The digital data are available as PDF files and Excel spreadsheets.

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by

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INTRODUCTION

The geochemical analyses tabulated in this report result from reanalysis of archived stream-sediment pulps. The stream-sediment samples were originally collected in 1982 as part of a geological and mineral investigation of the Livengood mining district by DGGS. The original geochemical data set included 1,597 stream-sediment samples, 297 pan-concentrate samples, and 305 rock samples from the Livengood B-3, B-4, C-3, and C-4 quadrangles (Albanese, 1983).

The new data set is the result of an agreement between DGGS and AngloGold Ashanti North America Inc. (AngloGold), a global gold company with 22 operations on four continents. The agreement allowed AngloGold to reanalyze selected DGGS geochemical samples collected in the Livengood area during 1982. The agreement gave AngloGold 5 months during 2004 to analyze the samples, after which AngloGold gave DGGS all analytical results from their (and third-party company) work and returned any unused sample pulps. The mission of this project is aligned with those of the Alaska Airborne Geophysical/Geological Mineral Inventory Program, to expand the knowledge base of Alaska's mineral resources and to catalyze private-sector mineral development. This data set complements data previously generated during the 2003 DGGS field investigations over part of the Livengood area.

David Szumigala found the archived sample pulps from the 1982 field study in the DGGS Fairbanks storage area in March 2004. Some pulps were destroyed by the weather during storage, some sample numbers were unreadable, and some of the original samples may not have had enough pulp material to archive. AngloGold Ashanti contract geologists, as part of an agreement with DGGS, selected 952 stream-sediment sample pulps (60 percent of the original stream-sediment sample set) as suitable for reanalysis. Fifty (50) sample pulps were rejected for analysis because of insufficient weight. AngloGold Ashanti geologists submitted the 902 sample pulps, including 40 additional blank and non-reference standards, to ALS Chemex for geochemical analysis by mid-year 2004. The geochemical analyses were given to DGGS in late 2004 by AngloGold Ashanti as a Microsoft Excel spreadsheet containing: a worksheet with compiled new analytical results including digitized sample coordinates; a worksheet containing analytical results for blank and standard reference samples included in the samples analyzed by ALS Chemex; and 4 worksheets of the assay certificate files as downloaded from the ALS Chemex client-accessible secured Website.

Location data were determined by digitizing sample locations as shown on location maps in Albanese (1983). Location data (in UTM coordinates with a Clark 1866, NAD27, UTM zone 6 projection) and analytical results for each sample are tabulated in Table 1.

AngloGold Ashanti provided funding for the geochemical analyses and digitizing of sample locations. Publication of this data is funded through State of Alaska General Funds.

ANALYTICAL METHODS

ALS Chemex in Vancouver, B.C., Canada performed all geochemical analyses tabulated in this report. Stream-sediment sample pulps were used from the DGGs storage area in Fairbanks. Stream sediment samples were collected in 1982 with a steel shovel from the finer sandy portion of active channels or deepest most active part of dry creek beds. Organic-rich material was avoided. Float rock and stream characteristics were noted and recorded at each station. The pulps were prepared at the DGGs Geochemical Laboratory in 1982 by air-drying before screening at minus-80 mesh. Blank and non-reference standards were included at irregular intervals in the samples submitted to ALS Chemex in 2004. This report does not show the results from those control samples, but all control samples had analytical results within acceptable limits. Geochemical samples were analyzed for gold using atomic absorption spectrometry (AAS) following a fire assay fusion. Samples (0.50 grams) submitted for mercury analyses were digested with aqua regia for at least one hour in a hot water bath. After cooling, the resulting solution was diluted to 12.5 ml with demineralized water and mixed. A portion of the sample was treated with stannous chloride to reduce the mercury. The resulting mercury was volatilized by argon-purging and measured by atomic absorption spectrometry (AAS). All other geochemical analyses (47 elements) were performed by a combination of inductively coupled plasma-atomic emission spectroscopy (ICP-AES) and inductively coupled plasma - mass spectrometry (ICP-MS) methods after HF-HNO₃-HClO₄ acid digestion and a HCl leach. A prepared sample (0.500 gram) was digested with perchloric, nitric and hydrofluoric acids to dryness. The residue was taken up in nitric and hydrochloric acids and diluted to a final volume with deionized water. The resulting solution was analyzed by inductively coupled plasma-atomic emission spectrometry (ICP-AES). Following this analysis, the results were reviewed to ensure that base metal concentrations were less than 1%, with the exception of silver, bismuth, and tungsten which have upper analytical limits of 100, 500, and 1000 ppm, respectively. Samples that meet these criteria were then diluted and analyzed by inductively coupled plasma - mass spectrometry (ICP-MS). Results were corrected for spectral interelement interferences. Samples that fail to meet the upper concentration limits would be analyzed by other methods (all results in this report were below the upper detection limits for any given element). This method of digestion is possibly incomplete for certain elements (Ba, Cr, Sn, Ta, Ti, W, and Zr) and may result in lower analytical results. Analytical detection limits are tabulated in Table 2.

REFERENCES

Albanese, M.D., 1983, Geochemical reconnaissance of the Livengood B-3, B-4, C-3, and C-4 Quadrangles, Alaska: summary of data on stream-sediment, pan-concentrate, and rock samples: Alaska Division of Geological & Geophysical Surveys Report of Investigation 83-1, 55 p., 4 sheets, scale 1:63,360.

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
3	421674	7265559	0.039	0.13	5.31	6.0	750	1.07	0.12	2.53	0.74	57.4	17.1	101	2.21	32.4	3.11	11.80	0.13	1.4	0.16	0.042	0.94	27.2	22.8	1.28	716
5	421537	7265338	0.005	0.35	4.99	13.6	910	1.20	0.13	1.19	0.95	45.9	27.1	95	2.11	87.5	4.93	14.25	0.15	2.3	0.78	0.062	0.98	19.4	18.3	1.30	1195
7	421328	7264948	0.013	0.28	5.39	11.8	950	1.23	0.13	1.22	1.08	52.7	27.9	108	2.04	69.4	5.60	14.45	0.13	2.7	0.22	0.058	0.97	22.8	18.4	1.23	1380
8	421224	7264680	0.006	0.30	5.08	12.0	1020	1.17	0.12	1.26	1.84	49.2	33.7	112	2.13	77.6	5.39	14.55	0.15	2.4	0.27	0.059	0.85	21.8	18.7	1.24	1245
9	421261	7264486	0.012	0.14	4.82	21.4	720	1.01	0.14	1.89	0.61	62.5	17.7	84	1.79	26.9	4.40	11.00	0.13	1.7	0.20	0.041	0.91	29.5	19.4	1.00	1180
10	421113	7264521	0.015	0.16	5.41	10.4	980	1.30	0.11	1.34	1.26	60.3	25.6	108	1.89	54.6	5.13	13.95	0.17	2.5	0.14	0.056	0.91	27.6	18.6	1.17	1115
34	444651	7266341	0.005	0.18	6.01	10.0	770	1.20	0.17	1.05	0.23	68.1	8.7	90	2.82	22.4	2.68	14.30	0.11	1.7	0.44	0.047	1.22	33.0	24.3	0.81	320
47	435780	7257452	0.015	0.17	6.28	9.2	800	1.12	0.16	1.54	0.40	62.6	12.5	86	2.86	21.0	3.08	12.90	0.10	1.4	0.27	0.044	1.26	29.2	27.1	1.06	701
48	435715	7257574	<0.005	0.13	6.07	8.5	840	1.14	0.13	1.88	0.24	74.7	12.5	99	2.27	25.8	3.11	13.05	0.13	1.6	1.95	0.042	1.25	35.6	22.9	1.08	562
49	436055	7257922	0.006	0.07	6.32	8.0	850	1.13	0.12	1.86	0.23	72.1	11.8	92	2.20	20.4	3.09	12.85	0.15	1.6	0.86	0.042	1.25	34.0	22.8	1.09	555
50	436245	7258155	0.008	0.16	6.18	7.9	800	1.12	0.14	1.50	0.37	61.4	12.2	86	2.76	20.9	3.01	13.30	0.11	1.4	0.29	0.043	1.28	28.4	27.4	1.04	662
52	429186	7259703	0.006	0.84	5.60	31.9	740	1.01	7.14	0.73	0.41	90.8	7.2	68	5.79	206.0	3.19	12.50	0.14	1.3	9.07	0.072	1.76	44.9	16.7	0.80	247
57	429387	7260072	0.007	0.54	6.82	101.0	740	1.37	2.69	1.10	1.42	80.4	25.8	96	10.60	92.3	5.23	15.00	0.17	1.5	0.54	0.410	1.47	38.0	39.2	1.06	1710
58	429540	7260073	0.009	0.53	7.13	143.0	770	1.50	3.40	0.66	1.27	84.4	20.1	106	9.30	107.5	7.39	15.70	0.18	1.6	1.88	0.510	1.70	41.3	43.9	1.16	1770
61	429533	7260302	0.007	0.39	6.16	32.6	720	1.23	0.40	1.22	0.71	61.2	17.8	76	5.93	64.5	3.50	13.10	0.13	1.5	0.85	0.076	1.29	29.7	30.2	0.96	722
63	429668	7260573	0.017	0.95	5.87	54.6	620	1.08	1.07	1.07	2.84	50.8	19.8	96	12.25	70.8	4.05	12.30	0.13	1.3	3.47	0.160	1.29	23.2	33.6	1.04	1600
66	429513	7260874	0.006	0.43	7.70	97.0	830	1.34	2.79	0.40	0.61	53.6	16.3	164	5.45	118.0	5.29	18.50	0.18	2.0	2.73	0.128	2.30	25.8	45.3	1.43	962
67	434282	7254341	0.005	0.15	6.45	13.9	850	1.30	0.19	1.32	0.30	71.2	14.9	90	2.89	30.2	3.64	14.00	0.14	1.7	0.44	0.049	1.23	33.6	26.1	1.00	693
69	434735	7254413	0.005	0.14	6.48	10.4	820	1.26	0.27	1.35	0.33	71.9	15.0	96	3.02	25.3	3.48	14.20	0.14	1.7	0.84	0.049	1.25	33.8	27.2	1.06	653
71	435067	7254098	<0.005	0.12	6.04	8.9	770	1.16	0.28	1.39	0.35	63.4	10.6	83	2.61	20.4	3.02	12.75	0.14	1.5	0.84	0.044	1.21	29.6	23.2	0.96	411
73	435569	7253475	<0.005	0.15	6.56	10.0	860	1.29	0.47	1.48	0.42	66.4	25.5	85	2.81	21.5	3.54	13.95	0.17	1.6	0.54	0.042	1.34	29.9	26.3	1.02	1420
74	435780	7253346	<0.005	0.15	6.60	10.2	900	1.30	0.64	1.46	0.30	67.2	13.4	88	2.90	27.2	3.53	15.05	0.13	1.6	0.54	0.048	1.36	31.6	27.2	1.05	671
76	411393	7264830	<0.005	0.16	6.32	9.7	710	1.16	0.20	0.74	0.18	56.4	14.9	74	3.15	22.9	3.00	15.85	0.11	2.0	0.08	0.052	1.18	26.2	27.6	0.78	714
80	412295	7264904	0.097	0.11	6.13	8.9	750	1.11	0.15	0.95	0.28	58.2	12.9	69	2.65	21.5	2.99	14.55	0.18	1.9	0.08	0.043	1.16	27.6	24.2	0.79	627
81	412295	7264904	0.006	0.10	6.01	9.2	760	1.11	0.16	1.20	0.28	67.2	10.9	75	2.45	20.0	2.99	13.95	0.12	2.0	0.06	0.044	1.13	31.9	24.7	0.85	433
83	412430	7264606	<0.005	0.20	5.65	11.9	710	1.26	0.21	0.84	0.40	59.4	24.9	83	2.61	39.2	3.35	13.40	0.15	1.7	0.19	0.043	1.19	27.0	24.1	0.80	1655
87	413138	7264718	<0.005	0.11	5.99	8.3	850	1.28	0.12	1.70	0.30	69.3	11.9	78	2.21	20.8	2.84	13.25	0.15	1.8	0.12	0.041	1.24	32.7	24.2	0.98	532
89	413623	7264934	<0.005	0.09	6.12	8.0	870	1.31	0.12	1.80	0.29	78.1	11.6	84	2.22	20.4	3.02	13.55	0.14	2.1	0.13	0.043	1.24	37.1	24.5	0.98	537
90	413914	7264889	0.009	0.15	6.13	10.0	910	1.44	0.15	1.64	0.40	84.0	13.4	86	2.59	25.8	3.18	14.05	0.17	2.1	0.12	0.046	1.28	39.5	27.4	0.96	622
91	414339	7264718	0.006	0.11	6.25	9.2	920	1.30	0.14	1.68	0.41	76.6	13.4	87	2.39	24.8	3.16	13.90	0.16	1.9	0.18	0.048	1.30	36.5	25.1	1.00	696
92	414853	7264770	0.012	0.10	6.08	9.7	790	1.23	0.14	1.58	0.30	80.2	13.5	89	2.19	21.8	3.16	13.40	0.15	2.0	0.11	0.050	1.19	37.4	24.1	0.95	785
93	448166	7244883	<0.005	0.65	5.24	9.1	1570	1.32	0.12	1.41	1.18	84.1	10.7	106	3.99	27.7	2.51	12.80	0.14	1.8	0.24	0.038	1.34	41.8	37.3	0.72	732
95	448379	7244558	<0.005	0.42	6.41	13.8	1220	1.70	0.18	1.28	0.69	75.1	14.5	114	4.69	40.4	3.30	16.60	0.14	2.0	0.51	0.053	1.98	36.6	53.9	0.82	674
97	448312	7244008	0.021	0.12	7.61	11.4	770	1.92	0.24	0.90	0.35	91.9	17.9	89	5.45	26.2	3.43	19.45	0.15	2.0	0.40	0.055	1.90	42.0	92.8	0.80	1005
99	448604	7243762	0.008	0.18	6.13	8.4	860	1.20	0.14	1.11	0.33	71.6	13.8	92	3.21	21.9	3.33	15.45	0.19	2.4	0.38	0.047	1.58	35.2	47.7	0.90	833
100	432174	7275538	0.007	0.12	5.89	8.1	720	0.93	0.18	1.01	0.17	56.7	9.3	82	2.94	16.0	2.51	14.80	0.16	1.7	0.20	0.041	1.37	27.6	16.9	0.78	407
102	432246	7275703	0.007	0.35	6.45	18.4	730	1.43	0.38	0.60	0.32	71.0	49.4	92	5.53	58.2	4.25	18.55	0.20	2.3	1.42	0.060	1.72	32.2	18.1	0.73	3230
104	432287	7275847	<0.005	0.20	7.01	13.4	890	1.28	0.32	0.88	0.29	71.6	42.4	99	4.78	34.5	4.33	18.75	0.19	2.2	0.44	0.056	1.67	33.9	24.4	0.90	2730
109	432391	7275960	<0.005	0.32	6.19	18.6	630	1.34	0.33	0.69	0.86	63.5	39.9	95	4.28	74.8	4.34	15.05	0.19	1.8	1.14	0.053	1.68	29.1	19.8	0.86	4650
110	432421	7276032	<0.005	0.13	6.70	17.6	770	1.22	0.28	0.82	0.29	70.4	33.7	112	4.04	40.2	4.43	16.80	0.18	2.0	0.66	0.055	1.71	31.7	22.8	0.93	3490
111	432442	7276105	<0.005	0.17	6.38	11.1	780	1.16	0.22	1.04	0.27	64.0	18.8	91	3.38	28.5	3.42	15.30	0.18	2.0	0.35	0.045	1.37	30.2	20.3	0.92	1365
117	432442	7277097	<0.005	0.14	5.70	11.4	690	1.10	0.21	1.00	0.21	58.6	12.7	80	3.33	24.2	3.00	14.30	0.17	1.8	0.21	0.044	1.30	27.8	24.2	0.82	800
119	432494	7277591	<0.005	0.09	6.10	6.4	890	1.16	0.12	1.74	0.26	58.6	11.0	103	2.30	15.8	3.02	13.20	0.18	1.8	0.11	0.036	1.31	29.1	22.4	1.20	552

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
3	0.57	0.92	8.4	52.6	1200	10.7	55.6	0.002	0.08	1.11	2	1.40	160.0	0.59	<0.05	6.8	0.397	0.30	1.9	116	1.1	22.6	166	60.4	28	FA04030730
5	3.92	0.42	14.6	66.7	1640	18.5	39.2	0.003	0.01	4.49	3	3.30	106.5	0.95	0.09	4.1	0.845	0.28	4.7	308	1.0	22.0	162	108.5	22	FA04030730
7	3.25	0.51	18.8	66.3	1690	14.2	40.1	0.002	0.03	4.37	3	5.30	108.5	1.19	0.08	5.0	1.265	0.27	3.7	284	0.8	22.7	231	121.5	32	FA04030730
8	3.11	0.44	16.1	82.6	2520	12.6	34.5	0.002	0.01	6.27	3	2.00	116.0	1.01	0.08	4.4	1.120	0.29	4.6	314	0.8	21.9	240	112.5	24	FA04030730
9	0.78	1.02	10.1	36.5	1700	12.8	40.7	0.002	0.04	2.17	2	1.70	163.5	0.69	<0.05	7.7	0.524	0.25	2.0	138	0.9	18.5	129	66.3	25	FA04030730
10	2.21	0.67	16.1	60.7	2140	10.9	35.8	0.003	0.02	4.36	3	1.70	129.5	1.08	0.08	5.9	1.115	0.27	3.4	270	0.9	20.7	194	109.0	53	FA04030730
34	1.30	1.17	9.6	26.2	740	14.4	65.6	<0.002	0.03	2.00	2	1.80	174.5	0.72	0.05	8.7	0.392	0.37	2.7	146	1.3	15.1	86	64.1	42	FA04030730
47	0.65	1.48	9.6	31.2	710	14.8	60.3	<0.002	0.03	1.22	2	1.70	213.0	0.71	<0.05	8.1	0.412	0.35	2.1	129	1.2	16.2	93	58.0	28	FA04030730
48	0.86	1.50	10.4	35.1	780	12.8	56.9	0.002	0.03	1.22	2	5.70	228.0	0.77	<0.05	10.0	0.431	0.32	2.4	126	1.3	18.1	80	65.7	32	FA04030730
49	0.73	1.52	10.4	32.8	790	11.9	56.5	<0.002	0.03	1.14	2	1.50	229.0	0.76	<0.05	9.7	0.436	0.32	2.3	124	1.2	17.4	79	64.8	75	FA04030730
50	0.63	1.50	9.5	30.8	700	14.6	60.9	0.002	0.03	1.14	2	1.60	215.0	0.68	<0.05	8.0	0.401	0.36	1.9	126	1.2	15.7	92	54.3	37	FA04030730
52	11.55	0.99	6.5	20.0	810	42.0	105.0	0.002	0.21	2.66	3	2.70	163.5	0.44	0.41	8.4	0.298	0.85	2.9	118	7.9	11.0	68	53.3	20	FA04030730
57	6.85	1.06	10.2	47.0	1130	73.9	84.0	0.004	0.16	3.87	3	18.80	173.5	0.67	0.15	9.5	0.427	0.62	2.5	149	3.6	18.0	311	63.7	18	FA04030730
58	15.65	0.83	9.8	48.3	1310	93.2	82.4	0.006	0.24	5.60	2	8.30	130.5	0.66	0.24	9.5	0.415	0.66	2.5	177	3.6	18.2	529	62.0	10	FA04030730
61	2.64	1.22	9.5	37.6	920	28.7	66.1	0.004	0.06	1.68	2	1.90	192.0	0.65	0.06	8.3	0.377	0.46	2.3	127	1.2	17.9	142	61.8	55	FA04030730
63	1.13	0.71	6.5	46.8	1060	81.8	68.8	0.002	0.08	4.70	3	4.00	119.5	0.45	0.06	5.5	0.339	0.53	1.8	147	2.3	19.3	245	55.6	9	FA04030730
66	3.60	0.85	8.5	41.6	910	43.2	124.5	0.006	0.12	7.86	2	4.40	88.9	0.55	0.57	6.3	0.395	0.98	2.4	260	4.2	14.3	164	83.9	72	FA04030730
67	1.24	1.25	10.2	33.5	800	16.4	67.1	0.003	0.03	1.44	2	1.90	184.5	0.73	0.05	10.1	0.415	0.39	2.6	141	1.3	17.6	84	66.7	41	FA04030730
69	1.07	1.32	10.7	33.3	790	14.5	68.3	0.003	0.03	1.24	2	2.10	193.0	0.74	<0.05	9.4	0.429	0.40	2.3	140	1.3	16.8	91	69.0	52	FA04030730
71	0.71	1.32	9.7	29.2	790	12.4	61.7	0.004	0.04	1.11	2	1.70	201.0	0.66	<0.05	8.5	0.378	0.36	2.1	121	1.1	15.4	78	61.8	23	FA04030730
73	0.81	1.39	10.5	31.5	830	15.1	70.6	0.002	0.03	1.46	2	2.10	210.0	0.78	<0.05	8.9	0.427	0.40	2.1	133	1.3	16.4	93	65.5	52	FA04030730
74	0.96	1.34	10.6	32.4	800	14.4	72.4	0.002	0.03	1.40	2	2.00	202.0	0.73	<0.05	9.5	0.410	0.43	2.3	137	1.5	16.7	90	62.7	84	FA04030730
76	1.60	1.12	10.8	23.4	610	15.5	76.3	<0.002	0.02	0.94	2	2.20	154.5	0.72	0.05	7.9	0.392	0.47	2.5	132	1.3	14.0	77	86.6	13	FA04030730
80	1.30	1.29	10.1	22.9	580	13.4	64.7	0.003	0.03	0.89	2	2.60	178.0	0.72	0.05	7.7	0.408	0.37	2.3	126	1.1	15.0	73	77.3	21	FA04030730
81	1.06	1.36	11.1	25.5	640	13.3	60.7	0.003	0.02	1.00	2	1.80	197.0	0.79	<0.05	9.0	0.417	0.36	2.4	123	1.4	16.8	74	77.1	20	FA04030730
83	2.23	0.95	10.4	34.1	810	17.0	65.4	0.003	0.03	1.24	2	3.30	144.0	0.77	0.07	8.1	0.408	0.39	2.9	147	1.3	16.1	87	67.0	19	FA04030730
87	0.90	1.49	10.4	29.5	810	12.4	58.1	0.003	0.02	1.07	2	1.60	236.0	0.77	<0.05	9.2	0.402	0.35	2.4	122	1.1	18.9	81	73.0	46	FA04030730
89	0.87	1.53	12.0	29.4	870	12.8	57.3	0.003	0.02	1.14	2	1.70	241.0	0.93	<0.05	10.7	0.457	0.33	2.7	128	1.5	20.8	82	80.0	60	FA04030730
90	1.02	1.45	12.2	33.4	850	14.0	65.8	0.002	0.02	1.21	2	1.80	228.0	0.89	<0.05	11.3	0.447	0.37	2.9	133	1.4	21.4	89	85.0	86	FA04030730
91	1.10	1.50	11.2	31.5	860	13.4	61.0	0.003	0.02	1.13	2	1.70	235.0	0.80	<0.05	10.2	0.425	0.38	2.6	134	1.4	19.4	91	75.4	55	FA04030730
92	1.16	1.46	11.2	29.0	830	13.6	57.5	0.003	0.02	1.14	2	1.60	230.0	0.79	0.05	10.6	0.447	0.35	2.8	132	1.5	19.6	86	83.8	70	FA04030730
93	2.76	0.64	10.0	34.9	1940	11.1	72.7	0.008	0.06	2.37	4	1.80	117.5	0.76	0.05	9.5	0.397	0.66	3.6	150	1.2	22.2	114	76.3	19	FA04030730
95	2.66	0.61	10.2	49.4	1420	14.9	98.5	0.005	0.06	2.31	3	2.30	128.0	0.74	0.08	11.4	0.422	0.71	3.4	139	1.4	19.0	125	78.0	24	FA04030730
97	0.89	1.07	11.4	33.2	570	24.1	110.0	0.002	0.03	2.11	2	2.60	183.5	0.83	<0.05	14.0	0.398	0.54	2.8	114	1.6	17.0	91	81.4	16	FA04030730
99	1.57	0.80	11.4	41.7	890	12.3	78.9	<0.002	0.02	1.80	<1	1.70	134.5	0.84	<0.05	11.2	0.611	0.50	2.3	114	1.3	14.8	90	94.5	60	FA04030730
100	1.22	1.20	9.9	22.1	570	15.8	62.0	<0.002	0.04	1.37	<1	1.90	182.0	0.73	0.05	7.5	0.445	0.43	2.2	136	1.5	13.2	61	68.1	17	FA04030730
102	5.93	0.66	10.5	35.0	1220	27.1	92.3	<0.002	0.05	2.98	2	7.20	134.5	0.78	0.16	9.6	0.418	0.66	4.8	243	1.6	22.2	83	95.1	12	FA04030730
104	3.67	1.05	11.6	34.2	1260	25.6	94.9	<0.002	0.07	1.74	<1	2.20	169.5	0.88	0.08	10.5	0.464	0.57	2.8	167	1.5	18.8	90	85.0	18	FA04030730
109	5.83	0.64	8.9	39.9	1590	31.4	77.9	<0.002	0.10	2.56	1	6.50	115.5	0.69	0.14	8.4	0.423	0.55	4.4	201	1.4	19.8	104	75.7	9	FA04030730
110	4.09	0.90	10.7	39.3	890	25.9	83.3	<0.002	0.05	6.38	<1	2.10	144.0	0.77	0.10	9.0	0.502	0.54	2.5	164	1.6	14.4	138	81.5	21	FA04030730
111	1.92	1.18	10.4	30.5	800	18.5	69.8	<0.002	0.04	1.76	<1	2.30	176.5	0.75	0.07	8.5	0.454	0.47	2.4	143	1.1	14.4	86	76.7	21	FA04030730
117	2.33	1.11	9.8	26.1	710	15.9	72.6	<0.002	0.04	1.52	1	1.70	172.5	0.73	0.06	7.2	0.402	0.46	2.3	138	1.1	13.1	92	69.4	17	FA04030730
119	0.84	1.53	9.5	39.6	730	11.0	59.3	<0.002	0.03	0.88	<1	1.80	235.0	0.72	<0.05	7.2	0.447	0.36	2.0	122	0.9	14.4	110	66.6	44	FA04030730

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
120	432700	7277941	<0.005	0.13	6.05	14.9	710	1.24	0.23	0.88	0.36	62.9	24.1	109	3.39	34.7	4.09	14.80	0.19	2.2	0.38	0.051	1.51	28.4	19.8	1.12	1790
123	433009	7278600	0.009	0.11	6.03	9.1	860	1.00	0.17	1.52	0.31	66.5	14.8	94	2.66	23.6	3.21	13.80	0.19	2.0	0.23	0.043	1.32	31.9	17.8	1.04	973
165	448325	7243429	<0.005	0.07	8.09	9.6	970	1.90	0.27	1.00	0.26	103.5	14.5	94	5.51	28.2	3.34	21.10	0.24	3.2	0.93	0.056	2.75	51.4	58.0	0.79	823
167	448873	7243234	<0.005	0.14	5.65	8.3	810	1.24	0.15	1.22	0.36	72.0	14.4	83	3.37	24.7	3.03	14.75	0.20	2.0	0.39	0.044	1.46	35.0	58.3	0.92	849
174	444775	7243961	0.007	0.05	5.71	2.6	700	0.96	0.09	1.36	0.11	51.4	7.1	76	2.23	8.6	2.08	14.00	0.16	1.3	0.19	0.036	1.32	25.4	19.4	0.86	317
175	444460	7243804	0.005	0.09	6.28	16.7	730	1.08	0.15	1.32	0.18	51.8	10.4	79	2.50	14.1	3.54	14.80	0.19	1.5	0.09	0.044	1.34	25.7	21.8	0.98	351
176	444494	7243961	<0.005	0.11	5.41	22.4	670	1.09	0.14	1.50	0.19	65.6	14.3	81	2.06	14.9	5.39	12.70	0.24	1.6	0.18	0.042	1.08	31.9	20.2	0.87	828
178	444168	7243681	0.009	0.10	6.18	8.3	720	1.04	0.14	1.48	0.17	64.9	12.0	89	2.28	17.4	3.14	13.75	0.21	1.6	0.08	0.040	1.22	31.5	27.8	1.02	539
179	443989	7243513	<0.005	0.10	5.94	7.4	700	0.96	0.12	1.48	0.18	63.8	11.3	88	2.15	16.1	3.01	13.35	0.20	1.6	0.10	0.043	1.15	31.0	22.9	1.00	500
180	443730	7243356	0.007	0.09	5.97	9.1	720	1.07	0.14	1.60	0.26	68.8	15.5	94	2.28	19.3	3.41	13.65	0.20	1.7	0.12	0.048	1.14	33.1	48.5	1.07	735
181	443382	7243120	0.008	0.11	6.10	11.0	790	1.12	0.16	1.42	0.23	71.4	14.3	97	2.68	21.1	3.27	15.10	0.22	1.8	0.21	0.050	1.27	34.4	30.1	0.98	659
182	443068	7242952	0.008	0.12	5.88	11.2	740	1.16	0.18	1.38	0.22	71.7	12.6	94	2.35	21.8	3.26	13.50	0.22	1.6	0.15	0.046	1.14	34.5	40.2	0.95	559
184	442529	7242525	<0.005	0.14	6.59	8.3	720	1.12	0.15	0.90	0.26	65.5	13.5	124	4.86	26.5	3.65	15.75	0.20	1.8	0.32	0.052	1.42	31.7	50.7	1.10	764
186	441878	7242245	0.005	0.08	5.78	5.7	730	1.05	0.12	1.60	0.18	69.7	10.5	83	2.12	15.7	2.66	13.60	0.23	1.8	0.15	0.040	1.19	33.3	30.5	0.98	450
187	436251	7252269	0.015	0.08	6.00	6.9	770	1.20	0.13	1.64	0.20	84.7	12.4	105	2.39	16.3	3.09	14.65	0.22	2.0	0.16	0.045	1.30	42.1	27.9	1.07	563
189	437295	7252827	0.005	0.09	5.87	8.5	700	0.99	0.13	1.44	0.20	65.7	11.4	84	2.16	17.5	2.95	13.30	0.22	1.5	0.31	0.040	1.17	31.9	22.3	0.95	480
190	437166	7252819	0.006	0.09	5.32	7.7	650	1.06	0.13	1.40	0.20	65.7	10.8	80	2.02	16.1	2.77	12.85	0.20	1.5	1.01	0.040	1.03	31.6	26.4	0.90	463
193	438780	7257833	0.007	0.93	5.84	57.2	690	0.95	0.65	1.20	1.10	51.4	8.6	84	4.03	34.2	2.90	13.45	0.19	1.5	0.15	0.093	1.38	25.0	19.7	0.94	413
195	438925	7258125	0.008	0.89	6.26	21.6	780	1.13	0.39	1.44	1.92	61.2	15.5	90	4.44	30.9	3.12	14.20	0.21	1.7	0.21	0.076	1.33	29.5	23.5	1.03	1205
196	438933	7258505	0.011	0.69	5.91	29.8	740	1.04	0.39	1.33	2.24	60.0	23.7	83	3.79	32.5	3.17	13.40	0.20	1.6	0.16	0.073	1.26	28.7	19.2	0.96	2170
197	438853	7258774	0.039	0.54	5.80	23.4	720	0.99	0.34	1.36	1.56	59.8	13.1	86	3.54	29.0	3.01	13.60	0.22	1.7	0.17	0.068	1.24	28.9	22.1	0.98	880
198	438568	7259198	0.010	0.57	5.93	22.4	750	1.08	0.37	1.38	1.50	61.8	14.2	91	3.94	29.8	2.94	14.25	0.19	1.6	0.13	0.068	1.32	30.4	26.0	1.00	941
214	426971	7291435	0.006	0.15	5.90	6.5	940	1.02	0.15	1.77	0.43	56.6	14.3	82	2.81	31.8	3.37	13.80	0.24	2.0	0.19	0.048	1.11	28.0	17.2	1.11	666
229	411583	7281397	0.008	0.28	6.22	10.1	840	1.18	0.17	1.58	0.81	57.0	12.9	83	3.72	46.8	3.59	14.70	0.24	2.0	0.25	0.051	1.20	28.2	17.8	1.02	713
230	411367	7281121	0.005	0.19	6.67	12.5	920	1.34	0.18	2.00	0.66	53.1	19.3	93	3.24	59.1	4.85	16.80	0.26	2.4	0.19	0.068	1.22	25.7	19.3	1.43	947
231	411055	7280821	0.006	0.21	6.54	11.2	920	1.23	0.17	2.02	0.67	55.5	17.6	94	3.26	54.5	4.50	16.25	0.24	2.4	0.12	0.061	1.18	26.8	19.9	1.38	924
233	410839	7280569	0.006	0.18	6.52	8.7	900	1.27	0.14	1.78	0.44	58.8	13.4	82	2.69	37.3	3.75	15.60	0.24	2.5	0.16	0.050	1.24	28.5	18.6	1.13	620
234	410575	7280330	0.017	0.17	6.30	7.6	880	1.28	0.14	1.86	0.46	56.1	14.7	87	2.70	35.5	3.45	15.60	0.26	2.3	0.30	0.048	1.18	27.2	18.0	1.09	776
236	412138	7269450	0.005	0.12	5.97	7.9	910	1.38	0.14	1.50	0.34	67.3	13.7	88	2.66	19.5	3.02	14.70	0.23	2.1	0.10	0.043	1.28	32.6	28.1	0.95	663
237	412112	7269717	0.006	0.10	6.38	8.4	930	1.34	0.14	1.74	0.30	72.2	12.9	102	2.60	18.6	3.26	15.25	0.25	2.3	0.10	0.043	1.36	35.2	20.8	1.06	641
238	411922	7269768	<0.005	0.08	6.03	11.8	830	1.48	0.18	1.57	0.31	77.2	14.2	83	3.44	22.4	3.20	15.80	0.22	2.1	0.10	0.048	1.32	38.2	36.0	0.90	813
240	411998	7270212	0.010	0.08	5.99	9.1	870	1.30	0.14	1.62	0.35	68.4	11.8	83	2.78	17.7	2.94	14.25	0.24	2.1	0.17	0.041	1.29	33.4	26.5	0.93	680
241	411820	7270047	0.007	0.10	5.96	9.1	920	1.26	0.16	1.69	0.28	66.9	12.3	87	2.63	21.8	3.25	14.15	0.26	2.0	0.07	0.038	1.26	32.0	20.7	0.96	654
242	411957	7270577	0.006	0.12	5.71	6.3	890	1.30	0.14	1.62	0.26	58.3	10.2	73	2.50	18.7	2.67	14.00	0.21	1.8	0.23	0.038	1.28	28.4	27.5	0.92	428
243	411737	7270479	0.006	0.09	5.81	7.3	900	1.32	0.13	1.66	0.23	60.1	10.4	74	2.48	19.0	2.68	14.05	0.23	1.9	0.14	0.037	1.28	28.8	27.5	0.95	422
244	411881	7270961	0.008	0.12	5.63	8.3	850	1.28	0.14	1.80	0.32	60.0	11.6	75	2.43	19.1	2.78	13.80	0.23	1.9	0.09	0.039	1.28	28.8	21.2	0.93	507
245	408129	7271507	0.006	0.10	5.46	9.5	860	1.28	0.12	1.92	0.34	63.8	12.5	77	2.28	17.3	2.90	13.50	0.25	2.2	0.07	0.038	1.23	30.9	24.7	0.98	812
246	408097	7271222	0.008	0.11	5.86	7.6	890	1.21	0.12	2.03	0.34	64.9	12.2	84	2.26	16.2	3.11	13.65	0.25	2.2	0.10	0.036	1.28	31.7	20.3	1.04	827
247	410752	7269552	<0.005	0.12	6.19	9.0	930	1.39	0.15	2.03	0.34	61.4	11.8	86	2.41	20.9	3.24	13.95	0.23	2.2	0.05	0.042	1.34	29.9	19.2	1.08	572
248	410625	7269831	<0.005	0.14	5.50	8.3	830	1.28	0.13	1.88	0.35	63.5	11.6	82	2.32	20.0	2.88	13.45	0.24	2.0	0.10	0.040	1.24	30.6	23.3	0.98	527
249	410498	7270162	<0.005	0.11	6.30	8.1	920	1.30	0.13	2.06	0.32	63.4	11.7	87	2.39	19.9	3.18	13.85	0.24	2.1	0.05	0.044	1.36	31.1	20.5	1.10	567
250	410358	7270555	0.006	0.12	5.77	8.0	850	1.34	0.12	1.94	0.32	65.5	11.6	82	2.34	18.7	2.92	13.85	0.23	2.1	0.09	0.042	1.27	32.2	23.6	1.01	507
251	410180	7271013	0.010	0.12	5.92	8.1	890	1.32	0.14	1.98	0.34	62.7	11.6	88	2.40	20.2	3.04	13.80	0.25	2.1	0.06	0.040	1.30	31.1	24.8	1.03	551

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
120	3.03	0.83	9.2	51.6	850	18.5	73.4	<0.002	0.03	1.90	<1	5.60	127.0	0.68	0.09	8.5	0.425	0.46	2.6	155	1.4	15.2	108	85.5	17	FA04030730
123	1.28	1.27	9.9	36.0	780	13.2	60.2	<0.002	0.03	1.18	<1	1.60	203.0	0.73	0.05	8.8	0.451	0.41	2.4	132	1.5	16.5	91	75.1	53	FA04030730
165	0.68	0.83	13.2	35.8	610	16.1	143.0	<0.002	0.04	0.73	<1	2.60	144.5	1.08	0.05	18.6	0.476	0.69	2.9	104	1.6	19.4	87	126.0	20	FA04030730
167	1.66	0.75	9.8	41.5	790	13.1	79.3	<0.002	0.03	1.73	1	1.70	134.5	0.73	<0.05	10.4	0.424	0.52	2.3	101	1.2	14.4	95	80.3	19	FA04030730
174	0.51	1.42	8.9	20.4	390	9.8	62.2	<0.002	0.04	0.82	<1	1.80	198.5	0.67	<0.05	6.9	0.402	0.38	1.5	89	1.1	10.4	52	51.1	17	FA04030730
175	0.88	1.30	8.5	26.8	720	11.4	72.4	<0.002	0.04	0.92	<1	1.70	189.5	0.64	<0.05	6.9	0.390	0.42	1.5	119	0.9	11.9	95	58.4	19	FA04030730
176	0.95	1.21	8.4	27.4	790	11.4	55.0	<0.002	0.03	3.00	<1	1.80	189.5	0.63	<0.05	8.8	0.394	0.36	1.9	104	1.0	14.3	61	60.1	47	FA04030730
178	0.73	1.37	9.8	26.1	580	11.4	58.8	<0.002	0.02	0.98	<1	1.70	196.5	0.74	<0.05	8.9	0.484	0.35	1.7	117	1.3	13.5	72	58.3	27	FA04030730
179	0.72	1.32	9.8	26.0	540	11.7	55.2	<0.002	0.02	0.97	<1	1.60	189.5	0.78	<0.05	8.2	0.488	0.33	1.8	111	1.0	13.2	68	59.3	74	FA04030730
180	0.83	1.28	10.1	28.4	590	13.3	55.4	<0.002	0.02	1.01	<1	1.80	187.0	0.78	<0.05	9.3	0.546	0.37	1.9	120	1.0	14.2	89	65.2	22	FA04030730
181	0.97	1.28	10.1	30.7	610	14.0	67.1	<0.002	0.03	1.21	1	1.90	190.0	0.79	<0.05	9.7	0.488	0.40	2.2	122	1.1	15.0	96	67.9	17	FA04030730
182	0.99	1.17	9.6	28.0	630	12.9	58.4	<0.002	0.03	1.10	<1	1.80	174.0	0.76	<0.05	10.2	0.493	0.37	1.9	124	1.1	14.6	89	61.3	22	FA04030730
184	0.91	1.29	10.0	45.8	910	17.6	70.9	<0.002	0.02	0.86	<1	1.60	139.5	0.76	0.05	8.0	0.523	0.44	1.8	156	1.1	16.0	110	68.3	25	FA04030730
186	0.56	1.46	9.8	28.1	610	11.0	55.9	<0.002	0.02	0.94	<1	1.60	213.0	0.74	<0.05	8.6	0.433	0.35	1.9	105	1.1	15.5	79	64.8	32	FA04030730
187	0.69	1.48	11.4	30.7	690	12.5	61.5	<0.002	0.02	1.07	1	1.70	214.0	0.92	<0.05	10.9	0.517	0.38	2.2	122	1.5	17.0	77	77.1	27	FA04030730
189	0.76	1.29	9.0	26.2	560	12.1	55.6	<0.002	0.02	1.00	<1	1.50	186.5	0.68	<0.05	8.9	0.443	0.37	1.9	111	1.0	13.9	74	56.4	32	FA04030730
190	0.72	1.20	9.1	25.3	520	11.2	51.7	<0.002	0.02	1.02	<1	1.50	175.0	0.72	<0.05	8.5	0.413	0.33	1.9	99	0.9	13.7	62	56.6	44	FA04030730
193	1.02	1.22	9.0	26.2	710	30.3	64.7	<0.002	0.05	1.74	<1	2.20	180.0	0.66	0.06	6.6	0.425	0.50	1.7	117	1.6	11.2	112	59.4	17	FA04030730
195	0.87	1.31	9.7	32.8	750	36.3	64.1	<0.002	0.03	2.06	<1	2.20	204.0	0.71	<0.05	7.9	0.436	0.51	1.8	123	1.4	14.9	143	62.2	40	FA04030730
196	1.00	1.23	9.0	30.6	750	27.6	63.7	<0.002	0.04	1.42	<1	2.00	189.5	0.66	<0.05	7.5	0.421	0.49	1.8	118	1.6	13.6	124	63.0	25	FA04030730
197	0.84	1.24	9.1	30.3	670	22.3	61.6	<0.002	0.03	1.36	<1	2.00	189.0	0.70	<0.05	7.6	0.428	0.47	1.8	117	2.1	13.4	119	61.7	19	FA04030730
198	0.84	1.29	9.3	30.6	680	26.7	66.1	<0.002	0.03	1.52	<1	2.00	198.5	0.67	0.05	7.8	0.430	0.52	1.8	121	1.5	13.8	122	64.6	33	FA04030730
214	1.46	1.30	11.0	32.5	780	12.3	54.7	<0.002	0.04	0.93	<1	1.60	200.0	0.79	<0.05	6.7	0.558	0.39	2.1	148	1.1	16.9	106	81.4	21	FA04030730
229	2.93	1.03	9.6	36.2	830	12.9	65.0	0.002	0.08	1.25	1	1.80	178.0	0.70	0.05	7.4	0.481	0.60	2.7	156	0.9	19.0	158	80.2	19	FA04030730
230	4.03	1.21	11.6	41.6	740	12.5	61.1	0.002	0.08	1.28	1	2.50	189.0	0.77	0.06	6.3	0.740	0.55	2.7	223	0.9	19.2	126	98.4	16	FA04030730
231	3.69	1.25	11.0	40.0	750	12.0	60.8	0.002	0.07	1.33	1	1.80	196.0	0.78	0.06	6.8	0.678	0.51	2.6	209	0.9	20.0	137	96.7	26	FA04030730
233	3.15	1.46	11.4	30.6	700	11.5	57.4	<0.002	0.05	1.27	1	1.70	223.0	0.75	<0.05	7.4	0.603	0.48	2.6	174	1.2	17.2	120	94.5	52	FA04030730
234	1.99	1.33	11.6	32.2	760	11.8	60.0	<0.002	0.04	1.06	1	1.70	216.0	0.76	<0.05	7.5	0.558	0.46	2.3	155	1.0	16.9	102	89.5	20	FA04030730
236	1.02	1.40	11.2	27.7	800	13.2	64.3	<0.002	0.04	1.02	1	1.60	240.0	0.77	<0.05	8.6	0.431	0.41	2.3	121	1.3	15.5	96	84.2	30	FA04030730
237	1.02	1.48	11.8	29.7	810	12.5	62.6	<0.002	0.03	1.12	1	1.80	257.0	0.83	<0.05	9.5	0.496	0.39	2.3	128	1.2	16.8	103	88.4	30	FA04030730
238	0.90	1.18	11.1	29.7	720	15.5	71.0	<0.002	0.04	1.06	1	1.90	206.0	0.76	<0.05	9.9	0.416	0.41	2.1	114	1.1	16.5	91	80.9	25	FA04030730
240	0.83	1.31	10.8	26.9	740	13.1	62.2	<0.002	0.04	1.07	1	1.60	216.0	0.78	<0.05	8.8	0.435	0.38	2.0	116	1.2	15.7	87	76.3	22	FA04030730
241	0.93	1.28	10.5	28.5	770	12.6	59.5	<0.002	0.03	1.15	1	1.60	216.0	0.74	<0.05	8.2	0.453	0.39	2.2	120	1.1	16.0	208	75.7	31	FA04030730
242	0.74	1.37	10.0	27.0	700	11.9	60.4	<0.002	0.03	1.05	<1	1.50	219.0	0.68	<0.05	7.9	0.380	0.40	1.9	109	1.1	14.2	90	69.2	57	FA04030730
243	0.72	1.44	10.4	27.1	730	12.0	59.3	<0.002	0.02	1.03	<1	1.60	229.0	0.73	<0.05	7.8	0.392	0.40	2.0	111	1.0	14.9	101	70.0	67	FA04030730
244	0.82	1.36	10.3	28.5	760	12.2	59.4	<0.002	0.03	1.06	<1	1.60	229.0	0.68	<0.05	8.4	0.391	0.39	2.0	109	1.1	15.2	88	73.3	55	FA04030730
245	0.84	1.37	11.4	29.1	810	11.0	57.5	<0.002	0.03	1.00	1	1.50	232.0	0.83	<0.05	8.4	0.410	0.36	2.1	107	1.1	16.8	94	79.8	67	FA04030730
246	0.90	1.45	11.3	28.4	860	11.1	56.7	<0.002	0.03	0.98	<1	1.60	245.0	0.77	<0.05	9.1	0.449	0.36	2.1	116	1.5	16.2	88	88.1	37	FA04030730
247	0.89	1.46	10.6	29.9	870	12.6	60.1	<0.002	0.03	1.09	1	1.60	244.0	0.73	<0.05	9.1	0.455	0.39	2.4	122	1.3	15.9	122	84.1	37	FA04030730
248	0.91	1.35	10.9	28.7	800	11.9	57.2	<0.002	0.03	1.06	1	1.50	224.0	0.73	<0.05	8.8	0.418	0.37	2.0	114	1.3	15.5	100	76.9	40	FA04030730
249	0.92	1.50	10.9	29.1	870	12.1	59.0	<0.002	0.03	1.11	<1	1.60	251.0	0.78	<0.05	9.2	0.455	0.38	2.1	125	1.9	16.2	166	78.3	41	FA04030730
250	0.86	1.42	11.0	28.5	820	11.7	58.4	<0.002	0.03	1.05	1	1.60	236.0	0.79	<0.05	9.3	0.425	0.37	2.2	115	1.0	16.0	88	75.2	38	FA04030730
251	0.94	1.39	10.2	29.1	840	11.7	58.6	<0.002	0.03	1.07	1	1.60	234.0	0.71	<0.05	9.0	0.431	0.37	2.1	120	1.1	16.0	110	78.9	44	FA04030730

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
252	410282	7270733	0.005	0.10	6.00	8.2	890	1.28	0.12	1.96	0.32	63.8	11.2	88	2.33	19.0	3.06	13.60	0.25	2.0	0.08	0.044	1.32	31.3	23.5	1.04	545
254	411755	7244079	<0.005	0.13	6.13	9.4	840	1.36	0.13	1.82	0.32	67.1	13.3	85	2.55	22.5	3.18	14.90	0.25	1.9	0.15	0.044	1.30	32.4	24.8	1.12	717
255	411672	7244408	0.007	0.11	5.94	9.0	810	1.42	0.14	1.81	0.29	68.8	13.2	88	2.50	20.4	3.16	14.70	0.26	2.0	0.28	0.044	1.27	33.7	22.3	1.10	831
256	411649	7244761	0.007	0.18	6.35	10.1	870	1.38	0.12	1.99	0.26	71.5	13.1	103	2.48	17.5	3.39	14.55	0.25	2.1	0.10	0.040	1.38	34.9	30.9	1.20	1070
257	411343	7245019	0.013	0.15	6.21	13.9	920	1.36	0.14	1.82	0.38	61.6	13.9	88	2.69	20.6	3.97	14.50	0.24	1.8	0.20	0.043	1.36	29.9	28.1	1.12	1160
258	411154	7245349	<0.005	0.11	6.18	8.6	880	1.36	0.13	1.76	0.31	59.0	12.6	85	2.53	18.8	3.20	14.15	0.23	1.8	0.11	0.039	1.34	28.7	24.2	1.10	1100
259	411001	7245619	<0.005	0.13	6.16	10.2	880	1.24	0.14	1.80	0.38	62.0	13.6	88	2.59	19.3	3.41	14.25	0.24	1.8	0.18	0.044	1.34	30.3	22.5	1.10	1580
260	410966	7246031	0.008	0.11	5.67	8.4	780	1.32	0.12	1.99	0.22	66.8	12.7	85	2.37	20.5	2.94	13.85	0.25	2.0	0.11	0.041	1.27	32.6	25.7	1.06	567
261	410801	7245925	<0.005	0.10	5.81	7.2	800	1.14	0.11	2.31	0.22	67.9	11.9	94	2.11	18.4	3.07	13.05	0.23	2.0	0.26	0.040	1.19	32.8	24.5	1.12	598
262	412661	7247330	0.014	0.13	6.17	9.2	830	1.43	0.13	1.77	0.23	66.9	11.4	92	2.61	18.0	3.07	14.60	0.27	2.0	0.13	0.041	1.28	32.3	20.3	1.08	523
263	412496	7247683	0.015	0.12	5.72	5.7	810	1.38	0.13	1.63	0.25	67.2	12.0	89	2.69	21.1	2.92	14.95	0.23	1.9	0.24	0.043	1.23	32.1	27.2	1.04	438
264	412096	7247742	<0.005	0.09	5.91	4.5	760	1.18	0.11	1.73	0.17	62.7	10.0	90	2.16	15.8	2.80	13.00	0.25	1.8	0.08	0.036	1.15	30.1	21.8	1.02	510
265	412320	7247906	0.014	0.12	6.37	7.3	860	1.28	0.14	1.90	0.23	69.1	11.9	99	2.48	18.3	3.29	14.30	0.25	2.0	0.10	0.042	1.29	33.8	21.1	1.16	699
266	412378	7248259	<0.005	0.12	6.12	7.8	900	1.36	0.16	1.76	0.31	62.4	13.3	85	2.72	24.5	3.17	14.70	0.26	1.9	0.15	0.040	1.44	30.4	21.6	1.09	654
323	452309	7246185	<0.005	0.17	5.51	5.4	1120	1.40	0.13	1.09	0.41	79.0	11.7	87	2.65	15.2	2.61	14.10	0.24	2.3	0.20	0.039	1.38	37.8	38.3	0.73	634
326	451793	7245478	0.009	0.38	6.66	9.0	1270	1.55	0.17	1.56	0.64	87.7	13.4	114	3.95	25.9	3.19	15.90	0.25	2.6	0.46	0.046	1.78	42.2	45.4	0.99	798
351	440051	7272113	0.020	0.12	5.44	9.5	740	1.20	0.16	1.06	0.22	51.8	8.1	78	2.34	16.0	2.61	12.75	0.22	1.7	0.20	0.038	1.12	26.0	16.2	0.72	290
352	439691	7271765	0.020	0.09	5.31	12.6	720	1.08	0.12	1.32	0.19	60.8	8.8	86	1.93	12.7	2.94	11.85	0.21	1.8	0.18	0.036	1.04	29.7	17.4	0.75	353
353	439422	7271484	0.024	0.07	4.99	10.6	710	1.06	0.13	1.30	0.19	59.9	10.5	81	1.96	15.6	2.66	12.80	0.22	1.8	0.14	0.041	1.02	29.1	19.0	0.75	448
354	438972	7270922	0.020	0.07	5.73	6.0	810	1.24	0.13	1.50	0.30	62.2	9.2	85	2.03	18.6	2.59	13.40	0.23	1.9	0.51	0.042	1.17	29.7	20.4	0.89	353
356	438477	7270484	0.028	0.10	5.15	15.4	730	1.12	0.12	1.35	0.28	54.3	9.5	73	1.88	16.2	3.41	12.15	0.26	1.6	0.26	0.038	1.04	27.4	14.8	0.75	341
357	438118	7270395	0.037	0.11	5.43	9.2	810	1.40	0.16	1.26	0.29	56.9	13.4	73	2.56	20.6	2.78	14.70	0.23	1.7	0.30	0.043	1.22	27.6	26.0	0.83	492
360	438063	7264807	0.027	0.15	5.75	5.5	650	1.08	0.16	2.48	0.39	49.1	10.9	77	3.59	29.6	3.15	13.35	0.28	1.6	0.20	0.044	1.08	29.0	25.3	1.01	674
361	438197	7264533	0.064	0.11	4.82	3.0	470	1.02	0.11	2.70	0.31	43.3	10.0	70	2.96	24.7	2.50	11.25	0.25	1.4	4.21	0.036	0.95	23.3	23.7	0.91	879
362	438319	7264089	0.005	0.20	5.61	5.4	710	1.58	0.09	1.38	0.58	62.3	13.1	200	3.97	19.4	3.00	14.05	0.24	2.8	1.06	0.041	1.19	31.0	26.0	1.67	427
363	438364	7263789	0.017	0.28	5.81	12.4	1060	1.66	0.16	1.29	0.56	57.9	16.9	190	5.60	30.2	3.38	15.05	0.25	2.2	1.35	0.051	1.26	28.9	33.5	0.93	741
364	438331	7263433	0.022	0.37	6.38	9.5	1400	1.50	0.18	1.17	0.47	61.2	12.6	150	6.30	31.1	3.04	15.90	0.24	2.1	1.19	0.047	1.43	30.2	32.8	0.95	353
368	437663	7262055	0.075	0.19	5.87	16.8	970	1.26	0.15	1.42	0.54	52.0	20.4	114	4.34	30.0	4.35	15.10	0.25	2.0	0.67	0.049	1.37	25.7	28.4	1.04	3210
369	437352	7261822	0.045	0.14	5.81	8.9	860	1.28	0.13	1.34	0.35	56.8	17.6	122	3.72	28.2	3.34	14.15	0.23	1.7	3.19	0.045	1.30	26.8	33.4	1.12	1360
370	437040	7261589	0.023	0.14	5.12	8.7	720	1.11	0.13	1.42	0.53	44.2	14.1	107	3.91	28.9	2.87	13.30	0.22	1.8	0.55	0.044	1.28	22.1	27.8	0.96	1090
374	430371	7255438	0.186	0.29	5.09	5.7	750	0.95	0.16	1.28	0.43	55.7	20.0	78	4.39	23.4	3.05	11.85	0.22	1.4	0.88	0.045	1.02	24.8	22.6	0.86	1660
375	430355	7255123	0.013	0.17	6.06	5.5	730	1.24	0.15	1.26	0.31	60.4	15.2	98	3.84	20.7	3.17	14.65	0.21	1.7	0.44	0.052	1.22	28.5	30.9	1.10	788
387	428266	7256022	0.050	0.29	5.95	64.6	680	1.27	2.43	1.41	0.24	68.9	10.1	107	3.52	233.0	3.34	14.00	0.25	1.7	0.29	0.059	1.28	33.9	19.8	1.06	421
389	427520	7255895	0.014	0.21	5.73	65.4	630	1.28	2.70	1.12	0.23	78.3	11.4	98	3.74	134.5	3.22	14.35	0.24	1.6	0.13	0.066	1.24	38.1	22.8	0.98	413
391	427080	7255925	0.019	0.14	5.71	47.6	690	1.26	2.09	1.26	0.23	70.5	12.1	92	3.50	94.2	3.01	14.20	0.26	1.7	0.09	0.057	1.22	34.0	24.8	0.93	460
392	426633	7256148	0.028	0.23	6.24	74.1	730	1.38	2.79	1.25	0.24	108.0	16.4	108	5.74	103.5	3.79	15.20	0.30	1.8	0.11	0.079	1.38	56.3	23.4	1.06	726
394	429012	7247165	0.030	0.31	6.01	5.2	810	1.28	0.15	1.54	0.76	66.4	10.9	103	8.33	22.3	2.70	13.65	0.23	1.6	0.23	0.044	1.18	31.8	49.3	0.90	919
395	429215	7246836	0.013	0.21	5.66	4.5	660	1.20	0.12	2.80	0.57	73.8	11.0	96	9.13	23.8	2.83	13.65	0.28	1.6	0.26	0.045	1.14	35.5	53.0	0.99	766
397	429463	7246476	0.013	0.24	6.14	5.7	730	1.10	0.14	2.11	0.56	63.7	11.3	103	8.95	21.7	3.01	13.70	0.24	1.5	0.23	0.044	1.26	30.4	60.9	1.04	1125
400	432905	7252577	0.016	0.26	6.69	8.9	820	1.26	0.43	1.37	0.55	58.7	13.1	100	3.52	28.8	3.28	15.30	0.25	1.7	0.10	0.051	1.30	29.7	27.7	1.09	506
401	433602	7252998	0.021	0.28	6.20	4.9	760	1.13	0.29	1.53	0.59	65.0	10.9	98	3.45	22.9	2.88	14.30	0.25	1.7	0.11	0.044	1.21	30.8	29.6	1.08	671
403	433796	7252375	0.006	0.16	6.28	7.9	770	1.22	0.43	1.58	0.30	68.1	14.4	101	3.46	26.6	3.37	14.95	0.23	1.7	0.14	0.051	1.23	32.3	32.5	1.16	729
406	434160	7251801	0.015	0.18	6.20	7.5	790	1.18	0.41	1.64	0.75	68.5	13.1	100	3.00	22.8	3.10	14.60	0.27	1.8	0.12	0.045	1.23	32.4	27.3	1.08	692

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
252	0.88	1.43	11.2	28.2	860	11.1	56.7	<0.002	0.03	1.03	1	1.50	238.0	0.76	<0.05	8.6	0.452	0.35	2.1	119	1.1	15.4	103	74.2	55	FA04030730
254	0.66	1.39	10.8	34.7	840	12.1	61.8	<0.002	0.04	1.17	1	1.70	254.0	0.76	<0.05	8.8	0.426	0.38	2.2	115	1.0	16.2	108	70.7	35	FA04030730
255	0.64	1.35	11.5	34.3	820	11.6	61.2	<0.002	0.04	1.15	<1	1.70	249.0	0.84	<0.05	9.0	0.448	0.38	2.2	117	1.1	16.2	86	77.5	44	FA04030730
256	0.57	1.54	11.4	32.8	890	11.4	62.6	<0.002	0.04	1.01	1	1.60	281.0	0.79	<0.05	10.1	0.497	0.39	2.3	126	1.2	16.4	106	77.1	48	FA04030730
257	0.67	1.36	10.6	33.3	960	12.4	64.1	<0.002	0.08	1.12	1	1.60	259.0	0.72	<0.05	8.7	0.421	0.40	2.2	122	1.1	15.4	101	67.7	43	FA04030730
258	0.66	1.37	10.1	31.3	820	11.4	62.3	<0.002	0.05	1.02	1	1.60	249.0	0.70	<0.05	8.0	0.416	0.41	2.1	117	1.0	14.0	99	67.1	29	FA04030730
259	0.67	1.33	10.4	32.6	860	11.9	63.2	<0.002	0.05	1.08	<1	1.70	253.0	0.72	<0.05	8.4	0.438	0.41	2.2	121	1.0	15.0	102	68.3	29	FA04030730
260	0.70	1.37	10.7	32.0	740	11.5	56.3	<0.002	0.02	1.25	<1	1.50	268.0	0.77	<0.05	8.8	0.422	0.36	1.9	110	1.2	15.2	77	75.2	89	FA04030730
261	0.64	1.39	10.4	30.4	760	10.6	51.7	<0.002	0.05	1.02	<1	1.40	287.0	0.75	<0.05	8.8	0.462	0.34	2.0	115	1.0	15.3	81	73.4	67	FA04030730
262	0.61	1.36	10.8	31.2	750	11.0	61.2	<0.002	0.03	1.12	1	1.70	220.0	0.74	<0.05	8.9	0.458	0.41	2.1	120	1.2	15.9	97	78.3	36	FA04030730
263	0.66	1.32	11.0	33.0	700	11.8	61.9	<0.002	0.03	1.06	1	1.80	209.0	0.74	<0.05	9.0	0.421	0.41	2.1	115	1.1	16.2	87	71.4	35	FA04030730
264	0.46	1.48	10.2	26.4	640	10.9	51.2	<0.002	0.02	0.88	<1	1.50	217.0	0.72	<0.05	8.0	0.472	0.35	2.0	114	1.0	14.7	75	66.0	79	FA04030730
265	0.66	1.44	11.0	30.5	820	11.9	60.3	<0.002	0.03	1.02	1	1.70	231.0	0.73	<0.05	9.5	0.491	0.38	2.2	128	1.1	15.4	94	77.6	21	FA04030730
266	0.74	1.30	10.6	35.5	790	12.6	66.2	<0.002	0.03	1.17	<1	1.70	214.0	0.75	<0.05	8.8	0.451	0.44	2.0	123	1.1	15.8	97	70.6	48	FA04030730
323	1.09	0.91	11.2	28.2	680	11.4	72.9	<0.002	0.05	0.94	1	1.70	139.0	0.80	<0.05	11.4	0.436	0.49	2.7	102	1.2	15.2	136	89.1	25	FA04030730
326	1.64	0.87	11.6	40.5	1070	13.5	87.0	0.002	0.09	1.92	2	1.90	156.5	0.82	<0.05	12.4	0.529	0.67	3.0	131	1.4	17.6	135	101.5	25	FA04030730
351	0.98	1.15	9.5	21.6	570	12.5	54.3	<0.002	0.03	1.27	<1	3.10	172.5	0.64	<0.05	7.3	0.410	0.39	2.2	117	1.0	11.6	60	62.8	23	FA04030730
352	0.95	1.23	9.5	20.9	640	11.7	47.8	<0.002	0.03	1.15	<1	1.90	190.0	0.66	<0.05	8.2	0.427	0.33	2.1	112	0.9	12.8	57	67.2	29	FA04030730
353	0.85	1.21	9.7	23.2	580	11.7	52.8	<0.002	0.02	1.17	<1	3.20	186.5	0.72	<0.05	7.8	0.395	0.32	2.2	102	1.0	14.5	56	64.6	44	FA04030730
354	0.55	1.40	10.0	25.1	590	12.4	53.5	<0.002	0.02	1.17	1	2.00	215.0	0.75	<0.05	8.3	0.434	0.34	2.3	113	1.1	14.8	67	70.9	35	FA04030730
356	1.03	1.23	8.9	23.3	860	10.7	50.7	<0.002	0.06	1.04	<1	1.70	190.5	0.67	<0.05	7.6	0.387	0.34	2.1	102	0.9	13.8	59	62.4	22	FA04030730
357	0.83	1.23	9.7	26.8	660	13.3	65.7	0.005	0.03	1.21	1	1.90	191.5	0.68	<0.05	8.1	0.365	0.42	2.2	107	1.0	14.2	72	64.4	36	FA04030730
360	0.66	0.96	7.6	32.6	1080	12.0	67.5	<0.002	0.10	0.98	2	1.80	175.0	0.55	<0.05	7.3	0.374	0.37	2.2	107	0.9	21.3	96	60.0	17	FA04030730
361	0.43	0.93	6.4	27.9	820	12.5	54.0	<0.002	0.11	0.87	1	1.80	162.5	0.47	<0.05	5.8	0.327	0.29	1.7	85	0.7	15.4	74	53.1	18	FA04030730
362	1.02	1.09	14.6	94.8	630	9.5	66.9	<0.002	0.10	1.77	1	2.60	148.5	1.06	<0.05	8.1	0.389	0.63	2.0	161	0.9	16.8	156	121.5	16	FA04030730
363	1.91	0.73	10.2	115.0	670	14.4	84.2	0.002	0.06	2.09	1	2.70	160.0	0.74	<0.05	8.4	0.367	0.77	2.5	155	1.1	16.0	109	89.0	29	FA04030730
364	1.53	0.75	10.2	66.2	730	14.0	85.5	0.003	0.06	2.00	2	2.10	154.0	0.71	0.06	8.7	0.413	0.84	2.9	190	1.1	16.6	104	79.5	26	FA04030730
368	1.31	0.90	9.1	63.9	870	13.6	71.6	<0.002	0.07	1.40	1	1.90	167.0	0.62	0.06	7.2	0.386	0.49	2.2	145	1.0	17.1	126	76.1	17	FA04030730
369	0.85	1.15	8.7	51.5	790	12.3	62.7	<0.002	0.06	1.18	1	1.70	167.5	0.62	0.05	7.3	0.398	0.43	1.8	141	1.0	15.3	138	65.9	19	FA04030730
370	0.93	0.83	8.1	55.7	900	12.9	65.8	<0.002	0.08	1.21	1	2.10	155.0	0.52	0.05	6.6	0.363	0.45	2.0	128	1.0	13.4	122	68.2	19	FA04030730
374	0.65	0.85	7.1	31.2	1120	12.5	58.1	<0.002	0.11	1.15	1	1.80	153.5	0.51	<0.05	6.0	0.347	0.39	1.6	107	0.9	16.4	83	48.8	9	FA04030730
375	0.56	1.20	9.7	35.3	730	13.4	65.0	<0.002	0.07	1.13	1	2.00	166.0	0.68	<0.05	7.5	0.449	0.42	1.9	127	1.3	14.8	118	60.2	23	FA04030730
387	0.82	1.27	10.4	32.1	650	16.1	75.4	<0.002	0.06	1.79	1	3.80	185.5	0.77	0.17	8.5	0.495	0.62	2.1	125	74.7	13.7	156	63.6	12	FA04030730
389	0.85	1.14	10.6	33.7	640	13.8	83.7	<0.002	0.04	1.49	1	5.10	158.0	0.72	0.15	8.9	0.480	0.63	1.9	119	144.0	13.2	216	59.7	8	FA04030730
391	0.80	1.23	10.4	32.5	580	12.3	74.0	<0.002	0.03	1.63	<1	3.70	174.5	0.73	0.10	9.1	0.453	0.51	2.1	114	32.0	13.4	281	66.1	13	FA04030730
392	1.05	1.13	10.8	39.9	810	16.4	85.6	0.004	0.04	2.21	1	5.30	167.0	0.78	0.18	9.0	0.503	0.61	2.2	134	389.0	15.2	154	67.7	17	FA04030730
394	0.54	1.06	8.8	39.3	850	19.1	61.2	<0.002	0.08	1.35	1	1.60	227.0	0.63	<0.05	8.1	0.419	0.45	2.3	117	1.8	16.8	283	59.5	16	FA04030730
395	0.41	0.98	10.0	42.6	710	19.0	61.9	<0.002	0.10	1.26	1	1.80	282.0	0.77	<0.05	7.6	0.457	0.43	1.8	110	1.3	17.2	534	61.3	10	FA04030730
397	0.37	1.10	8.7	39.4	760	16.8	61.0	<0.002	0.12	1.17	1	1.70	271.0	0.64	<0.05	7.4	0.429	0.43	1.8	118	1.2	14.7	157	57.3	14	FA04030730
400	0.84	1.41	10.1	31.3	670	18.7	67.0	<0.002	0.04	1.71	<1	1.80	189.0	0.70	0.05	8.7	0.480	0.45	2.2	134	1.3	13.7	140	61.9	36	FA04030730
401	0.59	1.34	10.2	28.9	560	15.8	61.6	<0.002	0.04	1.60	1	1.80	195.5	0.72	<0.05	8.4	0.489	0.41	2.1	125	1.3	14.9	148	60.1	17	FA04030730
403	0.78	1.44	10.2	34.2	680	14.3	63.6	<0.002	0.03	1.48	1	1.70	201.0	0.78	<0.05	9.1	0.476	0.41	2.2	129	3.1	15.0	130	62.6	32	FA04030730
406	0.70	1.39	10.5	31.8	680	14.7	62.3	<0.002	0.03	1.60	1	1.80	206.0	0.78	0.05	9.0	0.461	0.42	2.3	119	1.7	15.1	120	66.2	26	FA04030730

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
434	412056	7261564	0.019	0.24	5.02	11.4	700	1.20	0.21	0.80	0.56	56.3	18.7	76	2.87	47.5	3.09	13.55	0.22	1.9	0.18	0.046	1.02	26.5	23.3	0.66	1155
464	435537	7268217	0.020	0.37	4.67	37.8	1420	1.60	0.32	0.83	0.83	74.4	9.6	69	4.37	58.5	2.31	13.55	0.23	2.4	0.34	0.036	1.53	37.5	16.6	0.53	339
465	435424	7268351	0.006	0.12	2.92	18.2	650	0.87	0.12	8.76	0.74	38.1	12.0	41	1.62	32.8	1.56	7.43	0.25	1.2	0.22	0.022	0.73	19.3	12.2	4.81	557
468	434898	7268186	0.006	0.15	5.82	19.2	890	1.38	0.17	1.94	0.41	64.5	13.6	77	2.73	25.5	3.18	14.80	0.27	1.9	0.47	0.047	1.27	30.6	24.3	1.10	617
469	434547	7268165	<0.005	0.11	5.74	12.6	820	1.28	0.14	1.84	0.33	69.2	12.2	85	2.41	20.4	2.94	14.80	0.26	2.0	0.31	0.047	1.26	33.3	21.6	1.04	531
472	431380	7276980	0.006	0.11	5.44	8.4	780	1.26	0.16	1.32	0.28	61.8	14.5	84	2.52	17.8	2.86	14.10	0.25	1.9	0.22	0.047	1.16	29.6	21.7	0.89	631
473	431494	7277292	<0.005	0.12	5.66	8.3	860	1.20	0.14	1.54	0.29	61.0	13.2	93	2.33	20.5	3.06	12.95	0.26	1.8	0.24	0.041	1.16	29.0	18.3	1.04	619
474	431597	7277632	0.012	0.10	5.71	7.2	820	1.31	0.12	1.72	0.24	75.9	11.8	99	2.23	17.1	2.97	13.75	0.30	2.1	0.32	0.044	1.18	36.7	18.2	1.04	529
475	431535	7277838	0.012	0.09	5.83	5.9	870	1.18	0.13	1.83	0.23	67.9	10.5	91	2.14	14.2	2.81	13.50	0.25	2.0	0.15	0.041	1.20	32.2	21.3	1.03	481
476	431422	7278168	0.006	0.11	6.00	5.4	900	1.26	0.12	1.97	0.23	74.8	10.7	100	2.12	14.8	2.96	13.65	0.27	2.1	0.17	0.043	1.25	36.3	20.4	1.08	521
477	430978	7278250	0.007	0.07	5.87	7.3	850	1.18	0.12	1.63	0.26	59.6	10.2	79	2.09	14.7	2.80	13.25	0.16	1.8	0.18	0.040	1.22	28.8	23.6	0.95	452
490	446363	7267717	0.016	0.17	6.29	19.8	860	1.44	0.21	1.00	0.61	64.6	19.6	90	3.43	44.5	3.29	16.15	0.13	2.0	0.39	0.049	1.30	30.1	26.4	0.82	1015
491	446565	7267706	0.011	0.11	5.98	6.2	810	1.38	0.14	1.34	0.49	64.1	16.1	98	2.53	29.8	3.17	14.60	0.15	1.8	0.28	0.047	1.15	29.8	25.3	0.97	906
492	446925	7267683	0.010	0.10	5.60	9.5	780	1.34	0.16	1.70	0.46	59.8	17.0	92	2.38	24.1	3.35	13.70	0.18	1.8	0.19	0.040	1.04	28.4	24.2	0.95	1545
493	447240	7267582	0.013	0.08	5.97	11.5	800	1.39	0.14	1.65	0.51	65.1	18.7	112	2.38	20.2	3.46	14.45	0.18	1.8	0.15	0.045	1.21	31.1	26.6	1.12	1510
510	448397	7246896	0.005	0.36	8.15	13.7	1490	1.87	0.35	0.36	0.24	81.7	3.5	102	8.15	14.0	2.07	22.00	0.09	2.4	0.32	0.062	0.96	40.1	78.4	0.33	133
511	448274	7247075	0.011	0.35	7.60	18.8	1120	1.60	0.27	1.02	0.21	64.2	13.4	104	7.61	48.2	3.68	20.70	0.14	2.0	0.53	0.054	0.96	30.9	70.5	0.83	563
512	448165	7247288	0.005	0.22	6.71	12.8	830	1.22	0.20	1.16	0.20	57.8	15.4	95	4.73	40.3	3.77	17.85	0.14	2.0	0.30	0.054	0.90	29.3	43.8	0.83	650
513	447974	7247658	<0.005	0.17	6.57	11.5	790	1.29	0.19	1.09	0.24	60.2	11.9	89	3.82	34.4	3.31	17.30	0.14	2.0	0.40	0.052	1.08	28.7	38.1	0.80	438
515	447727	7247939	<0.005	0.18	6.62	22.4	760	1.73	0.16	1.16	0.50	73.5	28.8	91	3.90	32.2	4.19	16.70	0.19	2.2	0.43	0.055	1.10	32.9	61.7	0.77	1070
517	446953	7248432	0.020	0.19	6.55	14.8	790	1.58	0.16	1.28	0.46	76.6	16.0	83	3.54	24.2	3.58	16.45	0.23	2.2	0.49	0.055	1.30	36.7	51.1	0.88	768
519	450429	7249359	<0.005	0.64	5.78	20.8	960	1.62	0.16	0.78	0.75	56.8	21.2	93	5.69	30.7	2.57	15.60	0.13	2.2	0.42	0.045	0.75	27.3	65.2	0.51	861
520	450137	7249246	0.011	0.51	6.33	22.7	900	1.66	0.18	1.58	1.42	57.9	16.1	89	5.77	28.5	2.43	15.95	0.13	2.0	0.56	0.043	0.90	29.6	89.2	0.53	758
522	449530	7249123	<0.005	0.23	6.48	22.2	830	1.95	0.23	0.92	0.47	71.2	16.0	80	4.83	44.4	3.74	16.65	0.18	2.4	0.81	0.065	1.42	34.4	64.8	0.66	727
523	449272	7249213	0.005	0.23	6.56	23.9	870	1.78	0.21	1.09	0.54	87.1	16.9	96	4.58	40.2	4.02	17.25	0.23	2.4	0.77	0.071	1.44	42.1	71.0	0.72	820
524	448924	7249336	0.007	0.20	6.39	25.1	880	1.74	0.17	1.14	0.51	70.6	15.0	86	4.00	36.3	3.80	16.15	0.23	2.1	0.82	0.062	1.37	33.7	59.9	0.74	691
526	440839	7252152	0.019	0.31	6.61	11.2	810	1.60	0.20	0.94	0.43	67.4	13.6	105	4.79	38.5	3.33	17.25	0.18	1.9	0.31	0.062	1.39	33.8	29.8	0.89	575
527	440798	7251755	0.014	0.25	6.71	8.5	830	1.60	0.19	1.24	0.37	74.9	15.1	94	3.77	29.3	3.32	16.70	0.17	1.9	0.30	0.056	1.30	36.2	33.7	1.02	590
529	440920	7251133	0.020	0.26	6.53	7.2	760	1.36	0.16	1.26	0.50	73.9	17.8	102	4.07	34.9	3.46	16.05	0.18	1.9	0.60	0.054	1.28	35.8	48.6	1.15	1765
531	441001	7250558	<0.005	0.16	6.92	9.5	880	1.62	0.18	1.44	0.33	76.2	14.3	105	7.32	24.6	3.54	17.15	0.22	2.0	0.17	0.057	1.36	37.1	39.4	1.08	688
533	440814	7249871	<0.005	0.10	6.64	8.2	860	1.54	0.15	1.45	0.26	57.8	13.5	82	2.83	24.2	3.24	16.30	0.19	1.7	0.40	0.049	1.41	29.2	26.2	0.99	536
534	440580	7249450	0.006	0.08	6.41	6.4	750	1.50	0.14	1.54	0.25	90.6	14.0	100	2.82	19.7	3.27	15.35	0.23	2.0	0.30	0.051	1.23	42.9	32.1	1.04	756
535	440393	7249135	<0.005	0.10	6.80	17.4	770	1.58	0.16	1.18	0.28	68.6	17.6	98	3.04	28.1	4.44	16.00	0.21	1.9	0.63	0.056	1.28	32.2	33.6	0.96	816
536	440223	7248754	<0.005	0.13	6.68	12.5	790	1.54	0.17	1.49	0.34	78.8	16.3	96	2.92	30.7	3.81	15.80	0.22	1.9	0.45	0.056	1.20	37.8	32.4	1.01	805
538	440094	7248447	<0.005	0.10	6.38	7.3	760	1.32	0.14	1.52	0.26	61.1	13.2	85	2.60	23.7	3.25	15.10	0.19	1.7	0.41	0.046	1.20	30.9	26.1	0.98	603
539	439883	7247952	<0.005	0.08	6.28	6.8	680	1.32	0.12	1.54	0.20	72.5	12.9	96	2.35	17.7	3.12	14.20	0.18	1.8	0.24	0.050	1.11	34.9	26.8	0.98	614
540	435245	7251220	<0.005	0.08	6.72	8.7	660	1.31	0.15	1.30	0.32	62.1	17.7	106	3.73	21.1	3.73	15.85	0.20	1.7	0.23	0.059	1.12	31.0	35.6	1.04	917
542	444714	7250978	0.013	0.13	6.39	7.4	720	1.46	0.16	1.06	0.29	79.3	14.7	105	3.51	19.2	3.21	16.05	0.19	2.2	0.27	0.049	1.23	38.5	30.4	0.99	653
544	439920	7259263	0.016	0.34	6.72	26.3	1060	1.68	0.21	1.50	1.16	62.1	32.3	83	3.78	28.5	4.88	16.50	0.20	1.9	0.42	0.056	1.44	29.4	25.0	1.06	4730
545	439904	7259514	0.010	0.26	6.64	30.1	1140	1.62	0.20	1.50	1.11	67.4	40.2	83	3.61	27.6	5.02	16.45	0.23	1.9	0.59	0.052	1.44	30.1	27.2	1.04	5360
546	439864	7259789	0.013	0.28	6.16	32.0	1160	1.67	0.20	1.68	1.87	83.1	55.8	86	3.33	30.2	5.50	15.25	0.23	1.7	0.60	0.053	1.28	33.1	21.1	0.98	7860
547	439783	7260072	0.007	0.10	6.30	9.0	810	1.43	0.14	2.00	0.30	117.5	15.1	167	2.48	17.5	3.70	15.50	0.21	2.8	0.26	0.052	1.22	58.6	18.6	1.20	945
549	416339	7281755	0.009	0.15	5.86	6.9	910	1.32	0.14	1.30	0.37	60.1	10.4	78	2.76	19.1	2.72	13.85	0.16	2.1	0.14	0.041	1.18	30.2	18.0	0.79	446

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
434	2.60	0.79	9.1	31.4	910	14.2	64.1	<0.002	0.04	1.55	1	1.60	136.5	0.68	0.09	7.4	0.372	0.49	3.4	138	1.0	15.1	89	73.6	39	FA04030730
464	2.58	0.65	11.9	26.9	2310	22.7	79.2	<0.002	0.08	4.81	1	2.20	202.0	0.76	0.08	12.8	0.369	1.14	5.8	218	2.5	16.6	98	100.0	19	FA04030730
465	0.74	0.54	5.9	28.8	1370	9.8	34.1	<0.002	0.04	2.69	1	1.00	149.0	0.38	<0.05	5.9	0.205	0.51	2.5	82	0.9	12.9	118	46.2	18	FA04030730
468	0.88	1.30	10.4	33.1	810	13.8	63.5	<0.002	0.04	3.56	1	1.60	211.0	0.75	<0.05	8.7	0.417	0.44	2.3	116	1.2	16.2	84	69.5	49	FA04030730
469	0.69	1.41	11.2	30.4	850	12.1	60.1	<0.002	0.03	1.94	1	1.60	226.0	0.79	<0.05	9.5	0.446	0.39	2.4	114	1.2	16.4	80	73.7	30	FA04030730
472	1.08	1.19	10.2	28.4	680	12.8	58.2	<0.002	0.03	0.98	1	1.80	191.0	0.74	<0.05	8.1	0.403	0.40	2.3	114	1.0	14.7	80	69.8	23	FA04030730
473	0.94	1.28	9.6	37.7	720	12.3	54.9	<0.002	0.03	0.97	1	1.60	200.0	0.70	0.05	8.5	0.410	0.38	2.4	116	1.0	15.0	95	70.6	14	FA04030730
474	0.83	1.38	11.0	32.8	750	12.1	55.1	<0.002	0.02	0.98	1	1.70	220.0	0.85	<0.05	10.3	0.460	0.35	2.4	114	1.1	16.4	84	77.6	30	FA04030730
475	0.69	1.45	11.0	29.0	740	11.0	55.4	<0.002	0.02	0.93	1	1.60	229.0	0.81	<0.05	8.8	0.443	0.38	2.4	113	1.6	15.4	77	70.8	37	FA04030730
476	0.68	1.49	11.0	28.6	800	11.2	54.9	<0.002	0.02	0.90	1	1.70	238.0	0.84	<0.05	10.1	0.499	0.37	2.5	123	1.3	16.0	97	77.6	55	FA04030730
477	0.67	1.38	9.9	27.7	730	11.3	55.2	<0.002	0.02	1.00	1	1.50	229.0	0.70	<0.05	8.3	0.420	0.35	2.2	113	1.2	16.0	92	63.2	44	FA04030730
490	1.98	0.88	8.9	38.5	1040	14.6	69.4	<0.002	0.04	1.94	2	1.90	158.0	0.65	0.08	8.3	0.398	0.48	3.2	174	1.1	22.4	86	72.8	9	FA04030730
491	1.04	1.07	10.2	39.0	830	12.2	58.6	<0.002	0.04	1.28	1	1.60	174.5	0.69	0.05	7.6	0.489	0.36	2.5	132	1.0	17.9	94	64.3	14	FA04030730
492	0.77	1.00	9.5	38.7	850	11.8	54.6	<0.002	0.06	1.16	1	1.70	172.0	0.66	<0.05	7.7	0.416	0.37	2.3	116	1.0	18.2	82	62.4	19	FA04030730
493	0.79	1.20	9.9	45.5	940	11.3	62.1	<0.002	0.04	1.16	1	1.50	199.0	0.66	<0.05	8.6	0.410	0.37	2.3	116	1.2	17.2	90	62.3	25	FA04030730
510	0.96	0.46	12.5	18.9	860	24.1	64.5	<0.002	0.04	1.42	2	3.10	168.0	0.86	0.05	11.8	0.477	0.51	2.4	132	1.5	19.3	39	82.1	18	FA04030730
511	1.34	0.74	11.2	31.8	860	16.5	59.4	<0.002	0.05	2.42	1	2.20	163.5	0.77	0.05	9.6	0.572	0.45	2.2	178	1.4	19.0	63	71.1	19	FA04030730
512	1.14	0.84	11.6	31.7	670	12.2	51.8	<0.002	0.04	1.64	1	2.00	158.0	0.77	<0.05	8.2	0.717	0.39	2.0	169	1.2	16.2	72	73.9	19	FA04030730
513	1.16	0.82	12.2	31.1	640	12.8	61.4	<0.002	0.05	1.32	1	1.80	142.5	0.73	<0.05	7.5	0.531	0.40	2.1	138	1.1	16.2	71	71.4	22	FA04030730
515	1.26	0.74	15.6	44.8	790	12.7	66.1	<0.002	0.07	1.56	2	2.30	137.0	0.92	<0.05	8.3	0.638	0.41	2.2	144	1.3	20.5	134	80.2	23	FA04030730
517	1.48	1.08	14.0	35.3	810	13.8	70.9	<0.002	0.04	2.56	2	1.90	185.5	0.90	<0.05	9.9	0.508	0.46	2.5	134	1.3	17.8	98	78.6	32	FA04030730
519	0.83	0.33	10.2	53.5	720	13.0	52.1	<0.002	0.06	1.86	2	2.10	99.1	0.69	<0.05	7.9	0.488	0.41	2.2	128	1.3	22.9	150	77.6	18	FA04030730
520	0.84	0.42	8.5	52.8	1030	13.7	66.3	0.002	0.15	1.52	3	2.00	126.5	0.57	<0.05	8.6	0.354	0.46	2.6	120	1.3	21.3	176	74.1	12	FA04030730
522	2.08	0.68	17.9	43.2	1040	14.9	79.9	0.003	0.08	3.03	3	2.20	147.0	1.02	0.05	9.6	0.476	0.48	2.3	132	1.3	18.8	123	89.3	43	FA04030730
523	2.16	0.74	19.9	44.1	1320	14.2	80.3	0.003	0.07	3.87	3	2.10	174.0	1.16	0.06	11.7	0.614	0.50	2.7	145	1.5	20.6	124	85.7	27	FA04030730
524	2.29	0.82	16.6	40.0	1140	13.7	74.5	0.004	0.06	3.64	3	1.90	172.5	0.98	0.06	9.5	0.498	0.45	2.2	138	2.0	18.6	116	73.3	44	FA04030730
526	1.66	0.98	11.0	33.7	840	13.8	83.3	0.002	0.06	1.36	2	2.00	179.0	0.72	0.06	7.9	0.453	0.66	2.3	159	1.3	18.8	87	71.4	21	FA04030730
527	1.12	1.15	10.5	39.8	790	14.3	71.9	<0.002	0.04	1.08	2	2.20	186.0	0.71	<0.05	8.6	0.443	0.50	2.2	132	1.2	17.1	90	65.0	32	FA04030730
529	1.07	1.04	10.0	54.3	850	12.2	70.4	0.002	0.07	0.99	2	1.80	189.0	0.66	<0.05	8.5	0.439	0.48	2.4	140	1.0	21.1	109	68.4	24	FA04030730
531	0.85	1.35	11.7	38.7	720	12.8	72.4	0.002	0.02	1.16	2	2.10	206.0	0.83	<0.05	10.1	0.488	0.48	2.5	136	1.2	19.1	96	70.9	28	FA04030730
533	0.79	1.35	10.2	36.0	640	13.2	70.6	<0.002	0.03	1.30	1	1.90	218.0	0.70	<0.05	8.3	0.407	0.41	1.9	119	1.1	16.2	105	60.6	36	FA04030730
534	0.67	1.41	11.8	36.5	710	11.1	61.0	<0.002	0.04	1.02	1	1.80	217.0	0.83	<0.05	10.5	0.512	0.37	2.3	125	1.5	18.6	116	70.6	37	FA04030730
535	1.51	1.32	9.6	41.6	1020	13.6	63.1	<0.002	0.04	1.34	2	1.80	194.5	0.65	0.05	8.2	0.455	0.36	2.0	150	1.0	17.2	104	65.0	34	FA04030730
536	1.02	1.33	10.2	39.8	800	13.6	64.9	<0.002	0.04	1.26	1	1.90	213.0	0.70	<0.05	9.7	0.469	0.43	2.3	142	1.7	19.4	119	72.5	20	FA04030730
538	0.75	1.35	10.2	34.2	660	12.0	61.8	<0.002	0.04	1.04	1	1.70	214.0	0.69	<0.05	9.0	0.440	0.38	2.2	123	1.7	17.4	84	60.1	35	FA04030730
539	0.65	1.47	10.0	32.1	660	10.3	52.9	<0.002	0.03	0.87	1	1.70	213.0	0.69	<0.05	9.3	0.479	0.34	2.1	122	1.2	17.8	85	61.8	50	FA04030730
540	0.96	1.48	9.9	38.3	680	13.7	57.8	<0.002	0.02	0.88	1	1.80	167.0	0.65	<0.05	7.5	0.504	0.37	1.7	150	0.9	17.4	102	59.1	22	FA04030730
542	1.12	1.16	11.8	34.0	640	12.0	69.2	<0.002	0.03	0.97	1	1.90	166.5	0.79	<0.05	10.2	0.519	0.44	2.6	137	1.1	17.6	89	78.5	27	FA04030730
544	1.44	1.16	10.0	46.4	890	21.0	74.9	<0.002	0.05	1.77	1	2.00	206.0	0.65	<0.05	8.2	0.401	0.50	2.1	134	1.2	20.0	165	70.3	15	FA04030730
545	1.59	1.15	9.9	50.7	930	17.9	76.6	<0.002	0.05	1.78	2	1.90	209.0	0.65	0.05	8.5	0.377	0.50	2.1	136	1.2	18.8	128	69.0	23	FA04030730
546	1.80	1.07	9.0	55.2	1060	19.5	69.4	<0.002	0.06	1.83	2	1.70	202.0	0.61	<0.05	8.7	0.368	0.46	2.0	138	1.0	20.2	150	67.6	22	FA04030730
547	0.94	1.36	14.4	38.5	910	12.2	59.2	<0.002	0.02	1.24	2	1.90	235.0	1.06	<0.05	14.2	0.622	0.37	3.1	134	1.4	22.9	85	96.2	35	FA04030730
549	1.24	1.23	10.3	26.5	700	11.8	61.6	0.002	0.04	1.06	2	1.70	203.0	0.72	<0.05	8.0	0.406	0.42	2.4	118	1.2	15.4	90	73.2	15	FA04030730

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
550	416051	7281994	0.007	0.12	6.10	6.7	950	1.50	0.13	1.68	0.32	69.7	11.0	83	2.53	16.8	2.87	14.55	0.20	2.2	0.08	0.045	1.25	34.1	23.8	0.92	492
551	415799	7282366	0.005	0.10	6.17	7.0	950	1.66	0.13	1.96	0.30	61.3	11.8	78	2.33	18.0	2.99	14.45	0.19	2.0	0.10	0.045	1.31	29.7	21.8	1.03	528
552	416015	7282234	0.005	0.10	5.84	7.6	920	1.40	0.12	1.83	0.33	63.2	11.3	80	2.19	18.2	3.06	13.65	0.29	2.2	0.10	0.038	1.22	29.7	30.5	0.99	573
553	415871	7282582	0.012	0.11	6.15	11.1	990	1.40	0.16	1.59	0.48	58.7	16.4	80	2.82	20.9	3.42	14.95	0.28	2.1	0.09	0.042	1.38	27.7	34.5	0.96	1490
554	415607	7282738	0.010	0.07	5.89	6.6	910	1.36	0.12	1.64	0.34	53.9	11.6	74	2.30	17.2	2.86	13.75	0.28	2.0	0.11	0.034	1.26	26.4	31.9	0.91	745
555	415259	7282714	0.011	0.07	6.01	7.6	930	1.50	0.12	1.70	0.28	59.3	11.6	79	2.39	18.9	3.02	14.40	0.29	2.2	0.10	0.038	1.26	29.2	30.6	0.96	552
556	415403	7283109	<0.005	0.08	5.65	7.1	890	1.29	0.12	1.56	0.31	52.8	11.2	71	2.42	21.0	2.85	13.85	0.31	1.9	0.09	0.039	1.22	26.0	32.7	0.90	509
558	415607	7283673	<0.005	0.09	5.84	7.5	910	1.44	0.13	1.62	0.35	55.7	12.4	76	2.39	19.6	3.02	13.85	0.27	2.0	0.09	0.038	1.23	27.3	29.1	0.92	794
559	415499	7283996	<0.005	0.07	5.65	6.8	890	1.36	0.11	1.68	0.29	52.3	11.1	73	2.21	17.8	2.85	13.30	0.25	2.0	0.15	0.036	1.23	25.6	27.3	0.93	578
560	415619	7284308	0.008	0.06	5.73	5.0	840	1.31	0.10	2.03	0.27	96.8	11.1	112	2.00	12.2	3.13	13.65	0.32	3.2	0.06	0.041	1.15	46.8	25.1	1.02	639
561	415859	7284608	<0.005	0.07	5.70	6.5	870	1.43	0.11	1.84	0.21	64.6	10.5	81	2.03	15.6	2.87	13.45	0.29	2.2	0.10	0.037	1.19	30.0	27.1	0.95	484
563	416015	7284752	0.005	0.05	5.69	5.8	850	1.24	0.10	1.90	0.20	89.7	10.6	108	1.99	13.5	3.02	13.55	0.31	2.9	0.05	0.041	1.15	42.1	23.6	0.95	585
564	416243	7285231	<0.005	0.09	5.74	6.7	930	1.31	0.10	1.86	0.30	69.0	11.5	84	2.09	18.3	3.14	13.45	0.34	2.3	1.04	0.041	1.14	31.9	24.7	0.98	625
565	412848	7282246	<0.005	0.22	5.86	6.8	770	1.26	0.15	1.46	0.33	54.6	14.3	82	2.66	40.9	3.46	14.60	0.28	2.2	0.13	0.044	1.00	26.3	24.9	0.94	768
567	413400	7282558	0.006	0.10	6.08	7.8	950	1.48	0.14	1.84	0.35	65.7	12.3	82	2.45	22.6	3.15	14.85	0.30	2.2	0.19	0.041	1.28	30.7	29.2	1.02	552
568	413496	7282822	<0.005	0.08	5.89	6.8	910	1.42	0.12	1.80	0.29	63.7	12.1	80	2.17	21.8	3.01	14.05	0.28	2.2	0.09	0.042	1.21	29.4	26.5	0.99	540
569	413532	7283301	<0.005	0.09	5.98	6.3	890	1.30	0.12	1.87	0.26	69.9	11.4	89	2.15	19.2	3.06	14.20	0.28	2.5	0.18	0.041	1.21	32.5	25.2	1.04	496
570	423057	7286094	0.005	0.07	5.82	5.3	880	1.18	0.11	1.87	0.25	66.9	11.2	86	2.01	15.8	3.06	13.45	0.30	2.2	0.06	0.038	1.16	31.3	24.2	1.06	524
571	423106	7286426	<0.005	0.07	5.64	6.8	870	1.36	0.11	1.85	0.26	65.9	11.3	79	2.09	17.3	2.91	13.70	0.34	2.1	0.15	0.039	1.18	30.5	24.9	1.00	490
573	423057	7286671	<0.005	0.11	5.82	9.1	920	1.37	0.13	1.88	0.40	66.1	12.4	82	2.43	24.4	3.16	13.85	0.32	2.3	0.20	0.042	1.25	30.4	24.8	1.08	619
574	423008	7287072	<0.005	0.08	6.13	8.0	960	1.44	0.13	2.15	0.29	80.3	11.6	90	2.25	18.7	3.18	14.40	0.33	2.6	0.08	0.044	1.32	37.5	26.9	1.16	530
576	423086	7287405	0.006	0.09	5.80	7.0	930	1.36	0.12	1.66	0.32	63.0	9.4	78	2.34	23.4	2.88	13.85	0.29	2.1	0.21	0.042	1.26	29.6	26.5	0.96	356
577	431093	7291723	0.016	0.24	6.40	7.2	1020	1.44	0.16	1.64	0.57	59.5	13.9	65	3.19	52.8	3.62	17.60	0.35	2.6	0.92	0.066	0.91	30.2	27.6	0.91	806
580	430916	7291294	<0.005	0.10	6.90	6.5	1200	1.18	0.13	1.60	0.33	46.7	18.4	70	2.19	31.8	4.61	16.15	0.30	2.6	0.40	0.061	0.92	21.6	21.2	1.03	924
581	430738	7290968	<0.005	0.09	6.96	4.9	1020	1.08	0.09	2.20	0.61	40.6	21.2	86	1.98	40.7	5.03	17.35	0.36	2.5	0.52	0.058	0.79	19.1	22.9	1.46	783
583	430659	7290552	<0.005	0.15	6.38	5.3	970	1.16	0.11	1.90	0.83	51.9	29.2	82	2.36	47.2	4.92	16.45	0.34	2.3	0.90	0.052	0.93	24.1	26.0	1.21	1825
584	416516	7272723	<0.005	0.18	4.89	12.2	900	1.29	0.14	1.66	1.47	52.1	16.7	64	2.45	24.2	3.71	12.00	0.31	1.7	0.50	0.038	1.06	24.6	25.4	0.83	1955
585	416287	7272850	<0.005	0.08	5.73	6.3	890	1.43	0.11	1.78	0.25	66.9	10.8	80	2.12	16.1	2.87	13.60	0.29	2.3	0.19	0.038	1.24	31.0	27.0	0.98	472
586	415982	7272977	<0.005	0.17	5.60	26.5	1300	1.54	0.17	1.79	1.53	59.5	42.3	69	2.82	25.1	5.08	14.10	0.34	1.9	0.51	0.042	1.24	27.1	37.2	0.90	6290
587	415728	7272875	<0.005	0.08	6.14	7.7	910	1.32	0.13	1.76	0.25	67.7	12.0	81	2.40	18.3	3.01	14.65	0.28	2.2	0.18	0.042	1.31	31.3	30.1	0.98	518
588	415626	7273104	<0.005	0.11	6.26	8.0	950	1.51	0.13	1.66	0.31	54.9	12.0	73	2.62	20.7	3.09	14.85	0.29	2.0	0.33	0.041	1.36	26.5	28.0	0.98	487
589	415270	7273117	<0.005	0.08	5.91	6.8	870	1.38	0.13	1.70	0.33	62.1	11.9	78	2.44	20.5	2.98	14.30	0.29	2.1	0.17	0.043	1.25	29.2	26.1	0.95	669
591	415423	7273587	0.005	0.09	5.96	7.4	870	1.46	0.12	1.78	0.33	76.4	12.0	87	2.39	18.7	3.06	14.20	0.29	2.4	0.13	0.040	1.23	35.4	24.0	0.96	722
593	415372	7274019	<0.005	0.09	6.19	8.7	950	1.34	0.14	1.76	0.39	63.9	13.2	79	2.61	22.6	3.23	14.65	0.30	2.1	0.18	0.041	1.32	30.1	26.7	0.98	858
594	417673	7273510	0.007	0.09	5.87	7.8	910	1.41	0.13	1.86	0.29	87.8	11.8	95	2.24	17.1	3.12	14.15	0.32	2.8	0.17	0.041	1.24	40.9	23.9	1.00	540
595	417953	7273917	<0.005	0.11	5.89	9.5	950	1.44	0.15	1.82	0.36	66.7	12.3	84	2.37	22.5	3.27	14.00	0.29	2.3	0.12	0.039	1.22	31.3	26.4	0.99	601
596	417673	7274006	0.013	0.06	6.06	7.2	960	1.37	0.13	1.94	0.28	88.8	11.8	104	2.25	16.8	3.32	14.35	0.34	2.7	0.09	0.045	1.24	41.3	23.8	1.04	574
597	417493	7274254	<0.005	0.13	6.22	8.6	990	1.53	0.14	2.13	0.35	67.6	13.0	85	2.53	21.5	3.21	15.40	0.32	2.2	0.22	0.041	1.32	31.8	28.2	1.10	559
598	417393	7274400	<0.005	0.08	6.15	7.2	940	1.32	0.12	1.83	0.28	57.9	12.0	80	2.46	18.0	3.05	14.90	0.29	2.0	0.14	0.038	1.31	27.3	26.1	1.02	511
600	413687	7283745	0.007	0.07	5.98	7.0	900	1.32	0.12	1.88	0.26	64.7	12.4	82	2.20	18.5	3.08	14.70	0.30	2.2	0.08	0.039	1.22	30.2	24.7	1.02	523
601	413927	7284092	0.005	0.05	5.83	5.8	860	1.42	0.10	1.96	0.23	73.7	11.7	92	2.02	15.1	3.02	14.45	0.35	2.5	0.12	0.041	1.17	34.0	22.2	1.03	522
602	414071	7284452	0.015	0.04	5.80	5.7	890	1.22	0.11	2.01	0.24	95.4	11.6	106	1.97	15.2	3.19	13.90	0.31	3.0	0.08	0.041	1.16	44.4	21.6	1.04	597
603	413939	7284620	<0.005	0.11	5.70	6.5	890	1.26	0.12	1.83	0.27	59.1	11.7	76	2.18	19.4	2.95	14.00	0.30	1.9	0.14	0.037	1.18	27.8	23.4	0.97	509

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
550	0.87	1.42	11.2	29.8	790	11.4	61.4	<0.002	0.02	1.12	2	1.60	236.0	0.76	<0.05	8.8	0.435	0.40	2.5	119	1.0	17.8	144	78.0	45	FA04030730
551	0.89	1.48	10.5	30.4	870	11.1	58.8	<0.002	0.02	1.08	1	1.50	253.0	0.72	<0.05	8.0	0.413	0.38	2.1	118	1.2	16.9	91	67.3	50	FA04030730
552	0.85	1.34	10.2	28.6	880	11.6	55.0	<0.002	0.03	1.20	1	1.50	231.0	0.72	<0.05	8.6	0.424	0.33	2.2	116	1.2	16.6	151	67.6	41	FA04030730
553	1.08	1.24	10.4	34.0	870	12.4	66.0	<0.002	0.03	1.12	1	1.60	214.0	0.69	0.05	8.4	0.402	0.43	2.2	126	1.2	16.6	124	66.4	32	FA04030730
554	0.77	1.33	9.4	27.5	810	11.5	58.2	0.002	0.03	1.12	2	1.50	226.0	0.66	<0.05	8.0	0.381	0.35	2.0	110	1.1	15.2	118	62.5	19	FA04030730
555	0.86	1.35	10.4	29.1	820	11.4	58.7	<0.002	0.03	0.98	2	1.50	230.0	0.74	<0.05	9.0	0.419	0.36	2.2	118	1.0	16.4	87	71.6	36	FA04030730
556	0.90	1.24	9.4	29.5	760	11.5	59.1	0.002	0.03	2.22	1	1.50	211.0	0.67	0.05	8.0	0.371	0.35	2.0	110	0.9	15.2	92	62.0	23	FA04030730
558	0.88	1.27	9.7	28.9	730	11.1	59.1	<0.002	0.04	1.14	1	1.50	216.0	0.68	<0.05	7.7	0.390	0.37	2.1	113	1.0	15.4	110	62.9	29	FA04030730
559	0.81	1.30	9.5	27.6	800	10.8	54.9	<0.002	0.03	1.16	1	1.40	222.0	0.68	<0.05	7.8	0.384	0.34	2.0	110	1.0	15.1	142	62.0	30	FA04030730
560	0.67	1.34	13.5	26.3	950	10.0	51.6	<0.002	0.02	0.88	1	1.50	242.0	1.08	<0.05	12.7	0.574	0.29	3.0	124	1.6	20.5	90	96.6	51	FA04030730
561	0.74	1.35	10.2	26.8	800	10.7	52.4	<0.002	0.02	1.00	1	1.40	232.0	0.75	<0.05	9.0	0.435	0.32	2.2	116	1.1	16.4	94	64.6	47	FA04030730
563	0.80	1.35	12.1	26.2	870	10.4	50.6	0.002	0.02	0.86	1	1.50	238.0	0.88	<0.05	11.9	0.542	0.29	2.7	120	1.2	19.1	83	90.0	46	FA04030730
564	0.87	1.33	10.9	27.7	840	10.6	51.7	0.002	0.02	0.93	2	1.50	227.0	0.79	<0.05	9.0	0.505	0.33	2.5	124	1.6	17.3	111	72.9	26	FA04030730
565	1.84	1.03	10.0	30.3	690	11.7	58.4	0.002	0.04	1.00	2	1.60	179.5	0.71	0.05	7.4	0.447	0.42	2.4	140	1.0	16.2	97	76.8	21	FA04030730
567	0.92	1.35	10.8	31.7	820	12.0	60.1	<0.002	0.03	1.08	2	1.50	235.0	0.73	<0.05	8.9	0.446	0.36	2.2	124	1.0	17.5	91	74.3	64	FA04030730
568	0.91	1.36	10.4	28.8	770	11.7	54.7	<0.002	0.03	0.99	2	1.40	231.0	0.72	<0.05	8.9	0.430	0.34	2.2	120	1.2	16.9	86	70.3	42	FA04030730
569	0.89	1.42	11.4	28.6	820	11.4	52.8	<0.002	0.02	1.06	2	1.50	242.0	0.81	<0.05	9.3	0.502	0.33	2.4	126	1.2	17.8	91	74.4	68	FA04030730
570	0.82	1.42	10.4	26.8	750	10.8	50.3	<0.002	0.02	0.90	1	1.40	238.0	0.74	<0.05	9.2	0.459	0.32	2.4	121	1.1	16.4	78	68.1	54	FA04030730
571	0.83	1.39	10.6	28.2	770	11.3	53.2	<0.002	0.03	0.96	1	1.40	237.0	0.75	<0.05	8.8	0.436	0.32	2.2	115	1.0	16.8	87	67.7	84	FA04030730
573	1.25	1.31	10.5	31.8	820	12.0	54.9	0.003	0.04	1.13	2	1.50	230.0	0.73	<0.05	9.0	0.441	0.37	2.4	126	1.0	18.0	103	77.1	56	FA04030730
574	0.96	1.46	12.0	30.3	980	11.6	56.3	<0.002	0.03	1.11	2	1.50	260.0	0.86	<0.05	11.8	0.482	0.34	2.5	124	1.2	19.3	98	80.1	55	FA04030730
576	0.89	1.30	9.9	28.5	810	11.6	56.2	<0.002	0.04	1.12	1	1.40	224.0	0.71	<0.05	8.8	0.400	0.36	2.2	117	0.9	17.4	93	64.3	72	FA04030730
577	1.91	1.23	10.0	35.6	940	12.1	52.5	0.003	0.06	0.79	2	1.90	167.0	0.67	<0.05	6.7	0.503	0.42	2.7	152	0.9	28.1	117	87.5	26	FA04030730
580	1.48	1.76	10.7	29.3	800	10.9	44.1	0.002	0.03	0.74	2	1.60	200.0	0.72	<0.05	6.0	0.651	0.32	2.1	180	1.0	18.6	116	79.9	26	FA04030730
581	1.20	1.76	9.9	46.0	760	8.8	38.8	0.002	0.03	0.64	2	1.50	217.0	0.65	<0.05	4.7	0.615	0.24	1.5	182	0.9	19.7	143	78.1	31	FA04030730
583	1.31	1.32	8.9	44.7	820	9.6	49.1	0.003	0.06	0.89	2	1.50	197.0	0.61	<0.05	5.7	0.456	0.35	1.8	156	0.8	21.6	206	77.4	31	FA04030730
584	1.22	0.98	8.0	33.0	1350	12.0	58.8	0.002	0.11	1.30	2	1.50	185.0	0.61	<0.05	7.5	0.311	0.36	1.9	103	0.9	15.3	118	52.9	14	FA04030730
585	0.78	1.40	11.0	28.3	840	10.9	53.6	<0.002	0.02	1.00	1	1.40	235.0	0.81	<0.05	9.1	0.437	0.33	2.4	111	1.4	16.6	101	70.5	52	FA04030730
586	1.60	1.05	8.8	44.9	1040	14.0	65.0	0.002	0.08	1.28	2	1.60	201.0	0.62	<0.05	7.8	0.336	0.41	1.9	123	1.0	16.8	172	61.9	15	FA04030730
587	0.83	1.43	10.6	29.5	840	12.3	59.0	<0.002	0.03	1.10	1	1.50	241.0	0.75	<0.05	9.6	0.424	0.36	2.4	118	1.1	17.2	116	68.6	55	FA04030730
588	0.79	1.37	9.6	30.7	810	12.3	62.7	0.002	0.03	1.06	2	1.50	231.0	0.69	<0.05	8.2	0.378	0.36	2.1	116	1.0	15.6	94	64.3	51	FA04030730
589	1.06	1.33	10.5	29.7	790	12.1	57.4	<0.002	0.03	1.02	1	1.50	227.0	0.71	<0.05	8.5	0.417	0.34	2.3	115	1.0	16.6	170	66.5	48	FA04030730
591	1.08	1.36	11.2	29.1	840	11.7	57.7	0.002	0.02	1.02	1	1.50	237.0	0.80	<0.05	10.2	0.455	0.35	2.7	118	1.7	18.2	106	77.1	24	FA04030730
593	1.14	1.36	10.4	32.4	840	12.9	60.9	<0.002	0.03	1.15	2	1.50	234.0	0.72	<0.05	9.1	0.411	0.35	2.4	119	1.2	17.0	182	69.2	31	FA04030730
594	0.84	1.36	12.1	29.9	900	11.8	55.6	<0.002	0.02	1.06	2	1.60	238.0	0.87	<0.05	12.1	0.496	0.31	2.9	119	1.8	19.4	94	84.8	66	FA04030730
595	0.97	1.29	10.6	32.1	840	12.8	56.6	<0.002	0.04	1.13	2	1.50	224.0	0.78	<0.05	9.5	0.422	0.34	2.4	118	1.2	17.4	329	68.9	36	FA04030730
596	0.85	1.38	12.4	30.7	900	11.5	56.0	<0.002	0.03	1.02	1	1.60	240.0	0.88	<0.05	11.7	0.519	0.32	2.8	126	1.3	20.4	120	87.2	26	FA04030730
597	1.00	1.40	11.0	32.1	870	12.7	59.6	<0.002	0.03	1.27	2	1.60	248.0	0.82	<0.05	8.8	0.430	0.35	2.4	122	1.2	17.9	197	72.1	49	FA04030730
598	0.91	1.41	10.4	29.5	790	10.8	58.1	<0.002	0.03	1.27	1	1.60	239.0	0.70	<0.05	7.6	0.411	0.34	2.1	117	1.1	16.0	88	69.1	57	FA04030730
600	0.93	1.42	10.8	28.3	810	10.9	53.9	<0.002	0.02	1.02	1	1.50	242.0	0.77	<0.05	8.3	0.458	0.34	2.3	122	1.5	17.0	86	72.3	80	FA04030730
601	0.81	1.43	11.6	27.6	840	9.9	50.5	<0.002	0.02	0.93	1	1.50	246.0	0.87	<0.05	9.1	0.515	0.28	2.4	123	1.5	18.0	80	80.9	77	FA04030730
602	0.78	1.37	12.8	26.6	950	9.7	49.3	<0.002	0.02	0.96	1	1.50	245.0	0.93	<0.05	12.7	0.569	0.29	3.0	126	1.8	20.0	101	100.0	56	FA04030730
603	0.82	1.33	9.9	28.3	800	10.9	52.9	<0.002	0.03	1.00	1	1.50	229.0	0.72	<0.05	8.0	0.405	0.31	2.0	112	0.9	16.6	98	65.6	56	FA04030730

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
604	413783	7284896	IS	0.07	5.45	7.3	850	1.31	0.10	1.84	0.22	65.4	10.2	79	1.91	17.0	2.69	12.75	0.17	2.4	0.10	0.038	1.14	31.0	21.4	0.94	476
607	408571	7238048	<0.005	0.09	6.37	3.7	710	1.90	0.15	1.94	0.18	106.0	10.5	63	7.30	12.6	3.14	16.15	0.32	1.5	0.14	0.048	1.20	49.7	32.2	1.14	474
608	408806	7238401	<0.005	0.22	6.64	4.7	750	2.19	0.17	2.45	0.18	133.5	12.6	64	11.10	15.0	3.41	17.80	0.43	1.6	0.09	0.050	1.25	62.9	33.9	1.31	600
610	408406	7237813	<0.005	0.12	6.85	2.9	690	2.46	0.13	2.93	0.16	171.0	12.5	69	6.32	11.9	3.44	18.25	0.49	1.8	0.10	0.059	1.22	79.4	29.0	1.38	683
611	407947	7237754	0.007	0.13	6.27	24.7	780	1.73	0.17	1.94	0.26	129.5	18.9	85	4.64	14.1	5.21	16.25	0.44	2.1	0.11	0.049	1.24	61.9	29.1	1.08	1130
612	407418	7237754	<0.005	0.14	6.35	19.6	750	2.01	0.16	2.37	0.30	153.5	19.7	73	5.61	15.1	5.51	16.90	0.46	2.0	0.10	0.057	1.20	72.9	29.3	1.22	1380
614	413484	7239530	<0.005	1.13	7.49	63.8	670	3.22	0.85	2.93	3.68	222.0	11.6	50	9.47	30.1	3.87	20.40	0.51	4.0	0.23	0.081	1.48	106.5	30.7	1.24	974
616	413896	7239154	<0.005	0.95	7.14	65.4	650	2.86	0.80	2.71	3.18	176.0	11.9	57	33.70	31.1	3.40	19.35	0.43	2.0	0.20	0.077	1.48	84.1	55.8	1.14	841
701	416500	7259447	0.028	0.74	7.14	10.4	940	1.62	0.17	0.97	1.19	58.8	15.2	174	6.68	46.3	3.81	17.85	0.31	2.1	0.21	0.058	1.30	29.0	44.1	1.31	649
703	416440	7258351	0.039	0.54	6.79	6.1	750	1.56	0.16	1.28	0.55	63.1	14.2	164	5.12	43.2	3.33	16.40	0.31	2.3	0.21	0.049	1.32	34.4	47.6	1.12	672
704	416440	7257942	0.007	0.41	6.62	5.3	730	1.53	0.14	1.26	0.46	62.3	13.5	168	4.69	40.8	3.08	15.95	0.29	2.1	0.22	0.047	1.32	33.0	51.5	1.04	525
705	416485	7257480	0.022	0.39	6.25	7.3	760	1.62	0.16	1.30	0.48	60.2	13.9	140	4.84	47.3	3.07	16.00	0.29	2.1	0.21	0.049	1.28	30.4	43.9	0.94	510
706	416373	7257033	0.027	0.30	6.41	5.3	800	1.40	0.15	1.19	0.40	57.8	12.0	136	3.97	33.9	2.69	15.70	0.25	2.0	0.40	0.043	1.26	28.1	44.4	0.92	304
707	416537	7256651	0.018	0.21	6.33	8.3	790	1.52	0.14	1.18	0.31	61.1	14.5	146	3.52	31.5	3.32	15.60	0.27	2.1	0.19	0.044	1.20	29.1	40.6	0.94	488
727	443595	7268938	0.098	0.16	4.96	66.5	760	1.26	0.12	1.16	0.49	50.8	16.6	72	1.97	16.4	7.69	12.10	0.36	1.5	0.25	0.040	0.96	24.5	23.6	0.69	539
728	443306	7268753	0.051	0.14	5.70	26.1	830	1.20	0.15	1.12	0.36	50.7	11.6	77	2.51	16.0	4.44	14.75	0.30	1.8	0.22	0.041	1.17	24.8	25.7	0.79	362
730	442430	7268474	0.058	0.10	5.51	10.0	760	1.18	0.12	1.18	0.22	49.8	9.0	73	2.15	11.3	2.95	13.80	0.25	1.8	0.15	0.036	1.10	24.0	22.3	0.77	298
731	441997	7268351	0.018	0.10	5.93	8.4	800	1.20	0.13	1.36	0.25	56.5	9.6	84	2.19	13.2	2.88	14.95	0.26	1.9	0.14	0.044	1.21	27.5	23.8	0.88	346
732	441626	7268186	0.012	0.14	6.36	8.2	900	1.42	0.16	1.44	0.23	58.6	12.2	84	2.53	19.4	3.28	16.05	0.30	2.1	0.12	0.044	1.28	28.6	27.4	0.96	514
733	441379	7267898	<0.005	0.06	5.97	4.0	810	1.22	0.12	1.36	0.16	55.6	8.1	73	1.96	10.7	2.37	14.15	0.25	1.9	0.10	0.038	1.18	25.9	21.3	0.86	299
734	441132	7267527	0.009	0.07	6.03	3.8	780	1.10	0.12	1.38	0.16	66.8	8.2	82	2.14	11.5	2.45	14.90	0.28	2.0	0.14	0.041	1.20	31.5	23.0	0.86	331
736	440822	7267105	0.008	0.08	6.11	5.5	840	1.36	0.14	1.46	0.23	59.4	10.3	82	2.21	16.3	2.70	14.90	0.28	2.0	0.09	0.041	1.24	28.0	24.1	0.94	372
738	440492	7266971	0.009	0.09	6.44	8.3	910	1.46	0.15	1.73	0.28	66.9	12.4	90	2.64	21.4	3.40	16.30	0.31	2.1	0.09	0.044	1.37	31.1	27.5	1.07	508
739	440132	7266755	0.018	0.07	4.67	6.4	670	1.10	0.10	1.28	0.21	44.5	9.2	62	1.84	15.6	2.51	11.35	0.24	1.5	0.07	0.033	0.97	21.5	26.0	0.78	397
740	439554	7266662	0.015	0.09	6.70	8.6	950	1.46	0.15	1.86	0.31	66.4	13.0	87	2.62	21.0	3.48	16.30	0.33	2.1	0.06	0.045	1.40	30.7	28.4	1.09	561
741	438936	7266858	0.010	0.11	6.49	8.3	920	1.48	0.14	1.76	0.31	58.8	12.4	85	2.51	21.1	3.46	15.90	0.34	2.0	0.10	0.045	1.37	28.4	29.1	1.06	548
743	430168	7252532	0.069	2.26	6.04	7.9	760	1.20	0.13	1.23	3.09	53.0	15.1	90	4.67	22.5	2.74	15.65	0.30	1.7	0.54	0.042	1.21	25.4	36.3	1.02	970
746	430485	7252804	0.030	0.82	6.31	7.7	670	1.10	0.13	1.16	0.90	52.5	14.8	101	4.63	14.1	3.09	16.35	0.31	1.9	0.25	0.046	1.14	25.4	39.7	1.12	769
747	430752	7252933	0.024	0.67	6.50	9.5	680	1.07	0.13	1.06	0.57	52.3	15.0	101	4.91	17.6	3.37	16.35	0.32	1.8	0.17	0.042	1.16	25.3	41.0	1.14	766
748	430930	7253014	0.023	0.47	6.34	9.0	800	1.26	0.15	1.11	0.76	50.9	17.5	92	5.72	24.8	3.11	15.15	0.10	1.6	0.17	0.051	1.20	27.0	34.9	0.93	1275
749	430987	7253224	0.040	1.92	6.12	21.3	710	1.12	0.17	0.93	1.62	49.6	27.0	100	6.86	25.4	3.45	15.00	0.10	1.5	0.44	0.053	1.22	25.5	46.4	0.98	1830
752	431270	7253556	0.015	0.46	6.36	10.2	690	1.19	0.22	0.60	0.34	45.0	23.0	94	9.22	27.8	3.25	16.20	0.09	1.6	0.20	0.054	1.30	24.6	50.7	0.92	1330
753	430468	7254381	<0.005	0.61	7.31	33.1	760	1.45	0.16	0.84	1.61	47.6	28.0	141	6.66	38.2	5.14	17.40	0.11	1.8	0.76	0.059	1.47	24.1	71.0	1.41	1985
754	431165	7253936	0.009	0.17	6.20	5.7	800	1.32	0.16	1.42	0.23	58.6	10.7	89	3.07	19.4	2.75	14.85	0.10	1.7	0.20	0.050	1.23	32.0	28.5	1.00	437
755	431448	7253969	0.005	0.39	6.46	18.3	750	1.32	0.16	1.06	0.75	57.4	18.9	115	5.29	37.6	3.99	15.95	0.11	1.6	3.52	0.056	1.29	29.5	53.3	1.21	1200
757	431837	7253985	0.021	0.36	6.09	7.6	880	1.28	0.16	1.31	1.05	76.0	22.6	86	12.25	41.4	3.01	14.50	0.12	1.5	0.51	0.051	1.24	38.4	55.0	0.86	3140
758	432171	7254176	0.012	0.31	5.91	11.5	670	1.12	0.13	1.25	0.39	62.7	15.6	116	4.51	16.0	3.12	14.40	0.10	1.8	0.19	0.050	1.21	33.1	34.7	1.05	962
759	432550	7254300	0.010	0.27	6.56	17.9	770	1.35	0.18	1.21	0.61	59.2	20.0	118	5.85	24.9	3.68	15.95	0.11	1.7	0.35	0.052	1.41	30.3	40.1	1.15	2630
760	431372	7258058	<0.005	0.55	6.55	15.8	770	1.32	0.40	1.06	0.81	53.1	16.8	100	7.26	32.6	3.76	15.75	0.10	1.6	0.38	0.109	1.37	26.7	28.4	1.09	1890
761	431237	7258150	0.026	0.39	6.49	11.6	810	1.36	0.25	1.35	0.45	70.7	13.1	132	4.92	24.4	3.28	15.60	0.12	2.0	0.33	0.073	1.33	37.9	30.2	1.03	770
762	431265	7258558	0.027	0.33	6.33	10.0	880	1.39	0.21	1.53	0.57	64.6	15.0	108	4.38	24.3	3.23	15.50	0.10	1.8	0.24	0.064	1.32	34.6	36.5	1.02	1110
764	430848	7258717	0.005	0.41	6.34	9.2	850	1.40	0.19	1.53	0.75	63.9	15.6	104	3.96	23.4	3.10	14.90	0.11	1.7	0.31	0.058	1.34	33.1	42.5	0.99	1355
765	431787	7258249	0.017	0.40	6.20	9.9	750	1.38	0.20	1.43	0.41	70.6	12.1	110	4.25	20.7	2.96	15.20	0.12	1.8	0.25	0.082	1.27	38.5	29.9	0.98	726

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
604	0.69	1.42	10.6	25.2	810	10.8	46.0	0.002	0.02	0.96	1	1.40	237.0	0.88	<0.05	8.4	0.426	0.28	2.3	108	1.3	17.0	85	68.3	53	FA04030730
607	0.45	1.44	18.7	18.9	1750	15.6	83.4	<0.002	0.02	0.89	1	2.30	293.0	1.32	<0.05	19.4	0.435	0.45	6.3	106	1.2	18.1	108	45.1	22	FA04030730
608	0.57	1.49	22.8	20.1	2310	18.0	91.1	<0.002	0.03	1.14	1	2.70	374.0	1.46	<0.05	19.5	0.491	0.54	6.2	108	1.7	22.2	90	46.5	30	FA04030730
610	0.39	1.74	29.3	19.6	2940	14.2	77.2	<0.002	0.01	1.06	2	3.40	405.0	2.00	<0.05	23.4	0.509	0.41	5.2	106	1.4	28.5	136	50.0	41	FA04030730
611	0.80	1.31	20.3	25.0	2220	14.5	74.8	<0.002	0.03	1.11	1	2.30	272.0	1.40	<0.05	18.1	0.497	0.45	5.1	140	1.5	22.1	100	69.7	51	FA04030730
612	0.83	1.41	30.9	22.6	2740	15.6	77.9	<0.002	0.02	1.12	2	3.10	333.0	2.20	<0.05	33.3	0.543	0.48	8.7	143	1.9	27.0	133	57.7	31	FA04030730
614	1.56	1.97	49.9	14.9	3550	103.0	124.5	<0.002	0.03	3.69	2	7.50	521.0	4.03	<0.05	32.2	0.629	0.65	13.4	118	2.8	33.8	255	125.5	30	FA04030730
616	1.62	1.84	32.6	19.1	2940	91.6	129.5	<0.002	0.04	3.37	2	6.30	578.0	2.38	<0.05	25.1	0.481	1.10	11.4	107	8.7	28.5	373	61.3	19	FA04030730
701	1.26	0.77	7.8	121.5	990	14.6	83.0	<0.002	0.05	1.32	2	2.00	152.5	0.53	<0.05	7.3	0.327	0.61	2.9	166	1.0	21.0	162	72.5	22	FA04030730
703	1.00	0.79	7.6	101.5	710	12.6	69.4	<0.002	0.07	1.58	2	1.80	203.0	0.52	<0.05	8.1	0.348	0.52	3.5	154	1.0	22.4	190	79.5	13	FA04030730
704	0.90	0.79	7.5	97.0	620	11.3	66.9	<0.002	0.08	1.10	2	1.70	199.5	0.50	<0.05	7.7	0.358	0.49	3.2	150	1.0	19.9	275	73.5	10	FA04030730
705	1.09	0.71	7.9	91.1	630	12.0	67.6	<0.002	0.09	1.30	2	1.70	198.0	0.54	<0.05	7.7	0.342	0.51	3.6	148	1.0	21.0	251	74.1	14	FA04030730
706	0.69	0.93	8.1	70.6	530	11.5	64.9	<0.002	0.11	1.12	1	2.00	190.5	0.53	<0.05	7.7	0.354	0.48	2.7	134	1.0	16.4	268	71.1	15	FA04030730
707	1.02	0.96	8.3	73.9	620	12.6	63.5	<0.002	0.06	1.25	2	1.70	189.5	0.58	<0.05	8.3	0.362	0.43	2.9	135	1.0	17.1	95	68.2	23	FA04030730
727	2.09	0.90	7.5	27.3	1700	14.3	47.5	<0.002	0.06	1.36	2	1.60	166.0	0.55	<0.05	6.4	0.311	0.28	1.9	132	0.9	14.8	84	55.8	12	FA04030730
728	1.64	1.08	8.9	27.7	1200	15.8	60.3	<0.002	0.05	1.50	2	1.80	179.5	0.61	<0.05	7.2	0.364	0.35	2.1	126	1.0	14.2	97	61.8	18	FA04030730
730	1.13	1.18	9.0	22.7	800	12.4	56.9	<0.002	0.04	1.08	1	1.70	185.5	0.64	<0.05	6.8	0.369	0.31	2.0	104	1.1	14.0	89	59.3	19	FA04030730
731	1.02	1.31	10.2	24.0	760	12.7	57.8	<0.002	0.03	1.18	2	1.70	206.0	0.73	<0.05	8.3	0.423	0.33	2.1	113	1.4	14.2	68	63.1	16	FA04030730
732	0.86	1.32	10.2	27.9	760	13.2	62.7	<0.002	0.03	1.18	1	2.00	210.0	0.72	<0.05	8.5	0.433	0.40	2.4	124	1.7	15.4	104	68.7	39	FA04030730
733	0.32	1.47	9.9	20.7	520	11.2	51.1	<0.002	0.01	1.06	1	1.50	219.0	0.71	<0.05	7.3	0.413	0.30	2.0	108	1.1	13.4	63	60.5	82	FA04030730
734	0.55	1.36	10.8	21.7	600	11.7	55.3	<0.002	0.02	1.02	1	1.60	210.0	0.76	<0.05	8.6	0.452	0.32	2.3	112	1.3	14.2	80	67.0	63	FA04030730
736	0.53	1.37	10.1	26.1	680	11.7	57.7	<0.002	0.03	1.06	1	1.70	216.0	0.70	<0.05	8.1	0.420	0.35	2.2	114	1.1	15.2	91	64.4	44	FA04030730
738	0.94	1.37	11.1	30.6	860	13.0	63.1	<0.002	0.03	1.24	1	1.80	227.0	0.81	<0.05	9.2	0.455	0.36	2.4	128	1.2	17.1	124	70.9	59	FA04030730
739	0.68	0.98	7.8	21.7	620	9.2	45.3	<0.002	0.03	0.88	1	1.30	162.5	0.55	<0.05	6.5	0.328	0.27	1.7	92	0.9	12.2	72	51.2	72	FA04030730
740	0.96	1.45	11.0	30.3	850	13.0	63.9	<0.002	0.03	1.24	2	1.70	238.0	0.75	<0.05	9.4	0.451	0.39	2.3	128	1.2	17.1	124	70.2	9	FA04030730
741	0.95	1.38	10.6	29.3	840	12.9	63.3	<0.002	0.04	1.24	1	1.90	226.0	0.76	<0.05	8.6	0.444	0.35	2.2	127	1.1	16.2	122	65.9	26	FA04030730
743	0.54	1.10	9.1	32.5	830	60.8	66.4	<0.002	0.07	6.63	2	2.80	171.0	0.65	<0.05	6.6	0.415	0.40	1.8	121	1.0	16.0	342	56.0	18	FA04030730
746	0.65	1.28	9.7	30.5	570	33.4	63.3	<0.002	0.03	3.52	1	2.10	163.0	0.69	<0.05	7.3	0.485	0.38	1.8	136	1.1	13.7	138	63.6	17	FA04030730
747	0.86	1.27	10.1	32.6	610	32.5	63.3	<0.002	0.03	3.08	1	2.10	150.0	0.68	<0.05	6.8	0.506	0.40	1.8	144	1.2	13.6	127	60.4	21	FA04030730
748	0.92	1.26	10.0	28.4	610	38.0	65.5	<0.002	0.03	3.43	<1	2.00	172.0	0.73	<0.05	6.6	0.455	0.42	1.8	133	1.4	14.0	123	68.9	21	FA04030730
749	1.24	1.06	10.3	33.4	840	102.0	69.5	<0.002	0.04	10.10	1	5.30	143.5	0.73	0.05	6.2	0.465	0.44	1.8	148	1.2	15.2	230	66.5	15	FA04030730
752	1.00	0.92	9.7	33.0	700	31.0	84.6	<0.002	0.04	1.84	<1	2.20	111.0	0.72	<0.05	6.4	0.439	0.55	1.8	152	1.2	12.4	118	66.9	16	FA04030730
753	3.03	1.22	10.3	69.4	980	68.5	74.8	<0.002	0.03	5.88	1	42.80	123.0	0.77	0.06	6.0	0.531	0.48	1.9	196	1.4	18.4	246	78.1	17	FA04030730
754	0.56	1.30	10.6	28.9	640	15.3	62.5	<0.002	0.03	1.31	<1	2.00	203.0	0.84	<0.05	8.9	0.440	0.36	2.1	116	1.2	16.2	88	67.2	57	FA04030730
755	1.06	1.22	10.6	44.6	820	34.3	67.1	<0.002	0.03	6.03	1	6.80	148.0	0.78	<0.05	7.2	0.496	0.42	2.0	155	1.5	17.4	169	66.3	23	FA04030730
757	1.10	0.85	8.3	39.3	980	13.9	76.3	<0.002	0.09	1.67	1	1.70	177.0	0.61	<0.05	6.6	0.369	0.54	1.9	133	0.9	27.1	235	66.2	15	FA04030730
758	0.76	1.34	11.3	30.9	690	23.4	58.4	<0.002	0.03	3.03	<1	1.80	177.0	0.86	<0.05	8.9	0.541	0.36	2.1	135	1.3	15.4	112	73.4	28	FA04030730
759	0.90	1.30	10.9	40.8	770	23.2	65.7	<0.002	0.03	2.60	1	1.90	174.5	0.81	<0.05	7.8	0.552	0.42	2.1	160	1.3	18.1	182	73.5	25	FA04030730
760	1.02	1.11	10.0	41.2	850	27.3	81.8	<0.002	0.04	2.44	<1	5.70	150.5	0.73	<0.05	7.0	0.456	0.56	2.0	146	1.4	16.0	124	70.0	24	FA04030730
761	1.00	1.27	12.2	34.8	740	33.5	69.5	<0.002	0.03	2.56	1	2.40	191.0	0.92	<0.05	10.0	0.535	0.47	2.5	140	1.3	18.1	161	86.5	28	FA04030730
762	0.95	1.28	11.8	35.9	820	27.7	69.8	<0.002	0.05	1.63	1	2.30	207.0	0.87	<0.05	10.1	0.459	0.48	2.4	131	1.4	17.7	156	70.3	29	FA04030730
764	0.95	1.30	10.8	35.2	780	26.6	69.3	<0.002	0.04	1.57	<1	2.90	206.0	0.82	<0.05	9.1	0.483	0.44	2.2	132	1.3	17.4	133	72.1	20	FA04030730
765	0.84	1.36	11.8	31.8	690	61.2	66.7	<0.002	0.03	3.27	1	3.00	207.0	0.86	<0.05	9.7	0.484	0.41	2.3	124	1.6	17.7	128	75.7	44	FA04030730

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
767	432308	7258445	0.013	0.37	6.23	10.8	780	1.30	0.19	1.43	0.59	59.2	14.3	100	4.07	22.3	3.23	14.50	0.12	1.6	0.32	0.076	1.29	33.1	55.8	1.00	1075
799	419484	7267061	0.007	0.14	5.51	9.3	600	1.24	0.25	0.68	0.31	51.3	21.1	83	3.22	43.9	3.20	15.05	0.09	1.8	0.15	0.051	1.28	26.7	17.4	0.66	1230
802	419446	7267226	<0.005	0.16	5.25	8.6	660	1.08	0.19	0.88	0.19	54.2	10.5	75	2.73	29.7	2.75	13.10	0.10	1.8	0.12	0.042	1.08	28.7	16.5	0.67	512
803	419204	7267569	0.006	0.19	5.91	11.2	730	1.34	0.23	0.93	0.28	57.1	13.8	83	3.33	33.7	3.23	15.05	0.10	1.7	0.19	0.050	1.28	30.8	19.6	0.74	627
804	419179	7267734	0.011	0.15	5.92	8.9	810	1.36	0.22	1.14	0.41	65.5	17.1	87	3.36	29.3	2.98	15.15	0.11	1.9	0.61	0.047	1.35	34.7	19.6	0.76	1620
805	418785	7268064	0.011	0.13	5.75	8.7	850	1.32	0.17	1.50	0.35	61.9	11.5	85	2.57	23.2	2.96	14.05	0.11	1.8	0.12	0.043	1.20	33.9	18.8	0.85	674
806	418543	7268268	0.006	0.16	5.73	8.9	810	1.28	0.18	1.21	0.36	55.4	13.9	82	2.96	28.8	2.95	13.65	0.09	1.8	0.22	0.043	1.23	30.5	18.1	0.77	926
807	418340	7268331	0.010	0.14	6.17	10.4	930	1.38	0.20	1.32	0.40	60.4	13.1	84	2.86	28.3	3.10	15.10	0.11	1.8	0.15	0.049	1.26	32.9	21.8	0.86	687
812	416910	7270746	<0.005	0.15	6.38	11.4	1000	1.50	0.20	1.58	0.32	64.7	15.2	94	3.17	25.7	3.41	15.80	0.11	1.9	0.12	0.053	1.34	35.3	21.5	1.00	943
813	417241	7270682	0.005	0.12	6.08	8.7	930	1.34	0.14	1.73	0.31	67.1	12.6	94	2.48	19.1	3.02	14.35	0.12	2.0	0.19	0.047	1.29	35.7	20.0	0.93	784
814	417622	7270454	0.005	0.11	5.96	8.1	910	1.34	0.14	1.64	0.28	58.4	12.1	84	2.48	17.4	2.87	14.15	0.10	1.8	0.17	0.041	1.25	32.7	18.8	0.90	718
815	417965	7270352	0.007	0.14	5.98	8.2	910	1.42	0.14	1.63	0.29	55.9	12.5	81	2.54	17.6	2.86	14.20	0.10	1.7	0.24	0.047	1.29	31.1	19.4	0.90	727
816	418232	7270149	<0.005	0.15	7.19	10.5	1100	1.69	0.18	2.01	0.32	81.4	15.2	110	3.15	22.8	3.51	18.20	0.13	2.4	0.26	0.055	1.60	43.3	22.9	1.10	831
822	414436	7263071	0.646	0.24	5.11	10.8	910	1.20	0.16	1.24	0.35	59.9	11.0	112	4.01	23.4	2.49	12.75	0.10	1.8	0.31	0.040	1.04	32.7	17.6	0.73	693
823	414167	7263347	0.024	0.32	5.23	12.3	970	1.19	0.17	1.19	0.41	57.0	13.1	128	4.40	27.9	2.56	12.60	0.10	1.8	0.39	0.042	1.09	31.0	19.6	0.71	951
824	413443	7262346	0.017	0.20	4.08	11.7	730	0.94	0.13	2.51	5.43	38.8	9.0	65	4.35	39.5	2.22	9.38	0.10	1.1	0.95	0.035	0.79	21.8	19.8	0.83	674
825	413503	7262592	0.008	0.20	3.62	10.9	690	0.98	0.12	2.54	5.68	36.8	8.1	58	3.93	41.7	1.97	8.87	0.09	1.0	0.91	0.032	0.72	20.7	19.8	0.77	712
828	412705	7261825	0.005	0.16	6.12	16.7	970	1.40	0.15	1.26	0.37	58.0	14.4	118	4.20	26.9	3.24	14.15	0.12	1.9	0.22	0.048	1.37	31.3	30.1	1.03	742
866	434370	7276259	0.010	0.14	5.68	8.5	710	1.17	0.18	1.09	0.23	59.3	10.6	84	3.16	17.6	2.55	13.95	0.10	1.8	0.11	0.046	1.27	31.8	16.8	0.74	586
867	434710	7276187	0.024	0.14	5.52	9.3	720	1.14	0.17	1.16	0.28	54.8	12.2	76	2.86	19.3	2.67	13.30	0.10	1.7	0.19	0.042	1.20	29.4	15.6	0.75	884
868	435163	7276125	0.019	0.15	5.50	9.4	750	1.16	0.17	1.16	0.23	56.4	12.9	81	3.04	18.3	2.61	14.25	0.10	1.7	0.18	0.042	1.24	29.4	17.1	0.74	789
902	450981	7250139	0.007	0.20	5.75	9.2	760	1.00	0.19	0.74	0.19	49.3	7.5	89	3.39	14.4	2.69	15.05	0.14	1.8	0.20	0.043	1.16	27.4	25.4	0.67	266
904	450128	7250318	0.011	0.21	6.60	11.8	710	1.35	0.17	1.54	0.53	62.5	25.7	105	4.17	32.9	3.68	15.90	0.16	1.8	0.44	0.055	1.22	32.2	52.0	0.88	1135
905	449813	7250408	0.009	0.18	6.53	11.0	750	1.24	0.16	1.46	0.42	60.4	16.6	91	3.95	22.6	3.11	15.30	0.18	2.1	0.39	0.053	1.27	30.9	48.5	0.85	868
907	450251	7250756	<0.005	0.42	6.45	17.6	800	1.36	0.18	1.09	0.36	72.9	17.6	96	4.81	27.2	3.52	16.05	0.17	2.2	0.76	0.057	1.37	38.1	54.3	0.68	958
908	445523	7244775	0.008	0.06	5.91	9.1	600	0.95	0.15	1.30	0.16	54.5	11.4	84	2.03	24.0	3.47	14.25	0.18	2.1	0.10	0.048	0.94	28.4	19.4	0.78	456
909	445343	7245033	<0.005	0.06	5.86	10.9	620	0.99	0.16	1.22	0.22	50.4	12.8	85	2.23	28.7	3.66	15.30	0.17	2.0	0.14	0.051	0.98	27.3	20.9	0.77	429
910	445085	7245269	0.005	0.12	6.50	8.3	720	1.20	0.15	1.20	0.27	54.6	13.2	87	2.82	31.6	3.12	15.45	0.17	2.0	0.26	0.051	1.04	28.6	27.7	0.74	505
911	444995	7245572	0.005	0.14	6.11	13.2	870	1.17	0.15	1.13	0.39	61.0	14.2	90	3.22	23.2	3.30	15.05	0.19	2.1	0.33	0.051	1.12	31.7	49.7	0.78	619
912	444939	7245729	<0.005	0.11	6.29	33.5	690	1.69	0.24	0.60	0.55	69.9	15.8	79	4.76	40.3	4.38	16.10	0.20	1.9	0.67	0.067	1.57	36.6	75.1	0.51	685
913	445163	7245953	<0.005	0.12	6.25	33.9	690	1.68	0.24	0.58	0.53	80.1	15.5	77	4.87	40.5	4.27	16.50	0.21	1.9	0.71	0.070	1.55	41.3	77.7	0.50	675
914	444636	7245583	<0.005	0.25	5.50	25.7	600	1.27	0.18	0.67	0.39	61.7	14.6	74	3.62	36.5	4.05	13.50	0.18	2.1	0.54	0.055	1.28	29.4	59.2	0.50	591
915	444344	7245471	0.008	0.21	6.46	25.7	1000	1.18	0.16	1.27	0.27	83.5	12.5	107	3.47	22.6	3.52	14.10	0.18	2.3	0.44	0.052	1.28	42.6	46.5	0.84	575
916	444164	7245706	0.009	0.39	6.30	27.6	710	1.64	0.22	0.79	0.85	76.8	17.5	83	4.93	45.3	3.86	16.05	0.23	2.6	0.82	0.068	1.50	38.1	65.7	0.54	689
917	446836	7246761	0.020	0.30	6.31	17.9	810	1.24	0.17	1.08	0.36	66.8	14.4	105	5.05	30.3	3.25	16.10	0.17	2.0	0.32	0.051	1.45	33.3	31.5	0.71	452
918	446432	7246896	0.008	0.28	6.53	19.4	880	1.27	0.17	1.10	0.36	67.9	15.4	104	5.29	29.8	3.29	16.30	0.16	2.0	0.33	0.052	1.67	34.0	31.4	0.70	466
919	446073	7247030	0.012	1.10	5.91	21.1	1060	1.43	0.16	1.36	1.75	94.9	13.7	117	6.59	42.5	2.74	15.40	0.18	2.3	0.83	0.053	1.76	50.6	31.6	0.63	417
921	445803	7247120	0.009	0.43	5.07	20.0	760	1.01	0.13	1.10	0.92	70.9	16.6	85	4.17	17.6	2.46	12.30	0.14	1.8	0.44	0.040	1.17	33.8	33.1	0.61	960
922	445815	7247288	0.005	0.72	5.60	17.5	950	1.29	0.16	1.37	1.46	88.0	13.9	99	5.45	35.1	2.61	14.20	0.15	2.3	0.66	0.044	1.54	46.8	33.0	0.63	489
923	449963	7244805	IS	0.15	7.15	11.4	910	1.64	0.24	1.06	0.29	85.2	15.4	88	6.31	27.9	3.26	17.50	0.15	2.7	0.40	0.054	2.20	42.2	72.3	0.79	647
924	449749	7244401	0.066	0.22	7.27	9.8	940	1.64	0.26	1.30	0.25	99.9	18.8	99	4.79	32.7	3.63	18.10	0.17	2.3	0.61	0.056	2.01	46.4	35.2	0.88	925
926	449631	7244064	0.016	0.19	7.16	8.6	870	1.69	0.26	1.08	0.19	108.0	17.3	100	4.03	29.0	3.43	18.55	0.15	3.2	18.30	0.059	2.13	53.6	42.0	0.81	684
927	449329	7243966	0.011	0.16	6.77	7.6	810	1.41	0.18	1.37	0.22	78.1	15.3	95	3.44	22.3	3.28	16.10	0.14	2.3	0.33	0.053	1.64	39.9	37.6	0.91	685

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
767	0.85	1.32	10.6	33.8	740	59.7	67.9	<0.002	0.03	1.89	<1	2.70	199.5	0.78	<0.05	8.2	0.474	0.42	2.1	127	1.1	16.3	158	69.8	8	FA04030730
799	1.84	0.68	11.1	31.9	680	18.5	66.3	<0.002	0.03	1.53	1	2.10	121.5	0.76	0.09	7.4	0.454	0.39	3.0	167	1.2	15.8	91	80.8	17	FA04030730
802	1.66	0.90	9.8	22.0	690	13.5	55.2	<0.002	0.03	1.35	<1	1.90	152.0	0.74	0.07	8.2	0.423	0.38	2.8	135	1.1	14.4	68	77.2	20	FA04030730
803	2.18	0.96	11.0	26.6	830	17.2	67.7	<0.002	0.04	1.28	1	1.80	160.0	0.78	0.06	8.6	0.441	0.43	3.0	141	1.5	16.0	83	79.4	27	FA04030730
804	1.54	1.05	11.5	26.7	710	15.8	71.0	<0.002	0.03	1.11	<1	1.80	183.5	0.89	0.05	9.8	0.439	0.42	2.7	128	1.6	19.8	83	79.6	21	FA04030730
805	1.26	1.21	11.0	26.4	790	13.6	59.3	<0.002	0.03	1.12	1	1.60	209.0	0.81	<0.05	10.0	0.439	0.38	2.7	121	1.3	16.8	79	75.3	37	FA04030730
806	1.52	1.06	10.1	25.2	850	14.1	60.2	<0.002	0.04	1.21	1	1.60	185.0	0.77	0.05	8.3	0.419	0.39	2.6	128	1.1	17.2	89	71.7	27	FA04030730
807	1.54	1.18	11.2	29.0	620	15.0	60.5	<0.002	0.03	1.33	1	1.90	206.0	0.81	0.05	9.3	0.442	0.44	2.9	133	1.6	19.4	89	79.4	22	FA04030730
812	1.30	1.35	12.0	32.8	840	14.8	65.7	<0.002	0.02	1.42	1	1.90	234.0	0.87	<0.05	9.6	0.470	0.43	2.5	139	1.2	19.0	89	81.0	22	FA04030730
813	0.89	1.39	12.2	28.7	880	12.4	59.8	<0.002	0.02	1.13	1	1.80	241.0	0.92	<0.05	9.8	0.483	0.35	2.5	123	1.3	18.0	82	82.0	43	FA04030730
814	0.81	1.38	11.1	27.7	810	11.4	58.6	<0.002	0.02	1.05	<1	1.60	234.0	0.83	<0.05	8.6	0.431	0.36	2.3	115	1.1	16.8	79	75.6	36	FA04030730
815	0.85	1.40	11.2	28.6	830	11.8	58.5	<0.002	0.02	1.13	<1	1.60	238.0	0.83	<0.05	8.6	0.421	0.34	2.2	115	1.2	16.6	82	73.7	28	FA04030730
816	1.08	1.76	15.2	34.8	1060	15.3	73.7	<0.002	0.03	1.47	1	2.00	301.0	1.10	<0.05	11.8	0.565	0.43	3.2	144	1.7	22.9	96	102.0	25	FA04030730
822	1.90	1.02	10.2	27.3	1040	12.2	54.8	<0.002	0.04	2.06	1	1.60	208.0	0.79	0.05	8.4	0.412	0.71	2.8	161	1.1	17.1	82	74.3	20	FA04030730
823	2.04	0.98	9.8	29.6	1280	13.3	54.9	<0.002	0.04	2.18	1	1.60	208.0	0.76	0.06	7.7	0.421	0.69	3.0	170	1.4	17.4	83	73.4	17	FA04030730
824	1.98	0.53	5.7	56.1	1240	36.6	44.8	<0.002	0.25	1.74	1	1.50	143.5	0.42	0.05	4.9	0.263	3.02	4.4	102	0.8	20.2	1135	48.3	13	FA04030730
825	2.26	0.47	5.4	52.9	1200	35.7	43.3	<0.002	0.26	1.65	1	1.60	133.5	0.39	<0.05	4.6	0.234	3.00	4.9	94	0.6	20.4	1110	47.6	12	FA04030730
828	1.24	1.11	10.9	52.1	940	12.9	68.8	<0.002	0.04	1.97	1	1.50	197.5	0.77	<0.05	8.4	0.443	0.47	2.7	136	1.2	17.6	104	79.5	29	FA04030730
866	1.72	1.10	11.0	21.3	670	13.8	67.3	<0.002	0.03	1.63	1	1.80	180.0	0.86	<0.05	9.3	0.433	0.42	2.7	127	1.4	14.4	65	73.7	21	FA04030730
867	1.54	1.12	10.2	22.1	750	13.4	59.7	<0.002	0.03	1.53	1	1.60	188.5	0.78	0.05	7.9	0.399	0.36	2.4	119	1.2	15.0	61	69.0	24	FA04030730
868	1.52	1.12	10.6	22.0	790	13.2	63.8	<0.002	0.04	1.42	1	1.80	189.0	0.74	<0.05	7.9	0.402	0.38	2.4	121	1.3	15.2	66	70.0	18	FA04030730
902	0.97	0.77	9.6	24.1	690	14.9	62.0	<0.002	0.04	0.89	1	1.80	129.0	0.71	<0.05	7.4	0.407	0.45	1.9	114	1.1	11.4	83	61.9	20	FA04030730
904	0.98	0.79	12.6	44.3	760	13.8	69.4	0.002	0.07	1.60	2	1.80	149.5	0.79	<0.05	7.8	0.416	0.44	2.2	154	1.0	21.1	126	62.3	21	FA04030730
905	0.79	0.91	12.0	33.6	730	13.2	69.7	<0.002	0.11	1.70	2	2.30	169.0	0.82	<0.05	8.1	0.428	0.44	2.1	130	1.4	16.2	99	70.1	16	FA04030730
907	1.62	0.75	16.0	35.3	840	15.1	74.6	0.002	0.04	3.02	2	2.40	169.5	1.05	0.05	9.2	0.575	0.48	2.0	154	1.2	16.0	98	73.9	29	FA04030730
908	0.84	0.99	11.2	25.7	540	11.2	48.6	<0.002	0.02	1.08	1	1.80	154.0	0.78	<0.05	7.9	0.638	0.30	1.7	138	1.2	13.0	61	69.9	33	FA04030730
909	0.92	0.94	9.9	28.6	620	12.2	52.2	<0.002	0.03	1.17	1	1.70	149.5	0.70	<0.05	7.2	0.544	0.32	1.8	141	1.0	13.2	66	64.3	44	FA04030730
910	0.77	0.85	9.7	31.9	640	13.0	56.9	<0.002	0.06	1.02	1	1.80	142.5	0.69	<0.05	7.7	0.478	0.35	1.8	132	1.1	14.7	104	66.1	23	FA04030730
911	1.19	0.80	11.4	39.8	650	13.7	61.1	0.002	0.07	0.97	2	1.80	148.5	0.78	<0.05	8.2	0.465	0.44	1.9	131	1.0	15.4	111	68.8	29	FA04030730
912	2.07	0.46	22.4	46.6	1430	16.4	83.1	0.003	0.06	2.59	3	1.90	143.5	1.26	0.08	9.5	0.407	0.52	1.7	137	1.2	14.6	154	61.7	48	FA04030730
913	2.03	0.45	23.1	46.7	1440	16.3	84.7	0.003	0.06	2.64	3	1.90	149.0	1.28	0.07	9.5	0.410	0.46	1.7	135	1.2	14.8	154	64.9	25	FA04030730
914	1.78	0.45	17.6	39.7	1020	13.4	65.3	<0.002	0.05	2.32	2	1.80	112.5	1.04	0.06	7.8	0.427	0.39	1.6	130	1.0	13.0	146	67.6	23	FA04030731
915	1.67	0.93	15.4	30.5	900	12.5	61.6	<0.002	0.04	2.55	2	2.10	192.0	0.97	<0.05	11.1	0.585	0.41	2.3	149	1.4	16.6	97	79.5	16	FA04030731
916	1.92	0.53	22.4	49.5	1140	16.3	81.2	0.003	0.08	2.52	3	2.00	137.5	1.20	0.08	10.0	0.429	0.50	2.4	138	1.6	17.1	148	89.6	29	FA04030731
917	1.60	0.69	10.4	34.4	1200	13.3	76.0	<0.002	0.08	6.79	2	2.00	127.0	0.68	0.05	9.0	0.467	0.54	2.3	135	1.2	18.1	96	66.5	23	FA04030731
918	1.63	0.67	10.7	34.4	1440	14.6	79.2	<0.002	0.08	6.73	2	2.10	123.0	0.74	<0.05	9.2	0.489	0.57	2.3	137	1.2	20.1	104	68.9	23	FA04030731
919	5.41	0.58	9.9	46.1	2520	13.3	83.7	0.006	0.06	3.54	5	2.00	151.5	0.70	0.06	9.5	0.386	0.83	3.8	204	1.2	29.3	188	78.5	20	FA04030731
921	2.21	0.67	9.4	25.5	870	10.5	66.4	0.002	0.08	2.60	3	1.70	136.0	0.59	0.05	7.9	0.355	0.53	2.4	118	1.0	15.3	102	64.5	14	FA04030731
922	4.07	0.62	9.9	37.5	2000	12.8	82.5	0.004	0.06	3.25	4	1.90	152.0	0.66	0.07	9.4	0.441	0.79	3.8	191	1.1	25.4	174	77.7	15	FA04030731
923	1.03	0.64	10.7	35.3	690	21.1	112.5	<0.002	0.06	1.33	2	2.30	148.0	0.80	<0.05	14.8	0.414	0.62	2.8	104	1.6	17.8	88	89.1	20	FA04030731
924	0.98	0.84	12.6	36.2	620	18.4	98.5	<0.002	0.05	1.06	1	2.50	180.5	0.90	<0.05	13.6	0.468	0.55	2.6	115	1.6	19.1	106	78.8	11	FA04030731
926	0.74	0.81	13.8	38.1	570	16.1	100.0	<0.002	0.06	0.89	1	2.60	187.0	0.95	<0.05	16.8	0.492	0.55	3.0	104	1.5	20.2	128	112.5	15	FA04030731
927	0.91	1.08	12.1	35.6	600	14.5	76.7	<0.002	0.05	1.30	1	2.00	206.0	0.81	<0.05	11.5	0.471	0.44	2.7	107	1.4	17.2	107	74.8	25	FA04030731

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
928	449199	7244412	<0.005	0.17	6.54	8.0	770	1.36	0.19	1.36	0.23	82.8	15.9	97	3.36	23.2	3.30	15.80	0.14	2.5	0.26	0.052	1.61	41.8	36.5	0.90	723
929	449581	7243593	0.006	0.12	7.05	8.1	890	1.52	0.20	1.32	0.19	89.5	17.1	110	3.52	25.9	3.47	17.65	0.15	2.8	0.89	0.054	2.04	45.0	39.0	0.90	750
930	450086	7246218	<0.005	0.50	7.10	12.8	1340	1.60	0.23	0.82	0.58	90.0	12.7	104	4.73	33.7	3.02	18.15	0.15	3.0	0.41	0.054	2.12	47.3	45.8	0.65	563
931	450400	7246151	<0.005	0.41	7.18	11.2	1060	1.56	0.24	1.08	0.53	84.0	13.8	98	5.59	33.2	2.99	18.05	0.16	2.7	0.56	0.060	2.21	44.2	60.7	0.72	625
932	450861	7246106	0.017	0.36	6.97	10.5	1020	1.62	0.23	1.06	0.54	87.0	14.4	99	5.32	30.3	2.94	18.70	0.16	2.8	1.01	0.053	2.21	44.2	62.2	0.73	787
933	451220	7245904	<0.005	0.29	7.01	9.8	1020	1.49	0.21	1.24	0.47	76.9	17.1	101	4.63	28.8	3.29	17.30	0.17	2.4	0.54	0.053	1.93	38.7	53.9	0.89	1795
934	451591	7245568	0.026	0.32	6.19	9.1	900	1.45	0.19	1.10	0.46	79.3	16.8	102	4.59	28.4	2.89	16.90	0.14	2.4	0.50	0.052	1.93	39.1	52.2	0.79	1530
935	453084	7243425	0.012	0.16	6.00	7.2	710	1.09	0.17	0.65	0.15	70.3	8.9	80	3.24	12.9	2.39	15.30	0.13	2.4	0.13	0.037	1.59	34.5	21.7	0.65	337
936	453005	7243212	<0.005	0.21	6.18	8.0	720	1.23	0.21	0.93	0.35	82.4	20.3	87	2.89	17.5	2.93	15.65	0.16	2.5	0.17	0.045	1.50	39.9	34.8	0.76	825
937	452702	7243223	<0.005	0.12	6.31	6.6	740	1.30	0.18	0.84	0.23	82.1	21.0	85	2.99	15.5	2.84	15.90	0.14	2.4	0.29	0.045	1.57	39.2	32.4	0.75	832
938	452208	7243133	0.010	0.15	6.25	6.3	760	1.30	0.16	0.88	0.30	86.8	20.5	93	2.91	15.8	2.86	15.10	0.14	3.3	0.13	0.048	1.67	44.8	34.6	0.77	916
939	451759	7243279	<0.005	0.14	6.58	7.1	820	1.46	0.17	0.97	0.53	90.7	28.5	94	3.19	19.6	3.11	16.35	0.16	2.7	0.20	0.048	1.71	44.4	36.9	0.77	2370
942	453050	7244827	<0.005	0.21	7.22	8.2	850	1.51	0.20	0.94	0.45	82.7	22.3	90	6.64	21.4	3.30	17.25	0.15	2.4	0.27	0.052	1.82	40.0	47.8	0.80	1610
944	453309	7245231	<0.005	0.11	6.89	6.2	780	1.52	0.16	0.84	0.28	82.8	16.5	87	6.93	15.6	3.05	16.60	0.16	2.7	0.21	0.046	1.74	41.8	53.2	0.73	927
975	429789	7288603	<0.005	0.13	5.50	7.6	820	1.10	0.12	1.58	0.38	59.3	11.3	73	2.28	23.4	2.72	12.35	0.14	1.9	0.27	0.040	1.25	28.1	20.0	0.86	549
976	432039	7284296	<0.005	0.16	5.35	4.5	1320	1.07	0.13	1.12	0.24	64.0	8.3	75	2.95	20.8	2.17	12.60	0.10	2.2	0.23	0.039	1.21	30.9	20.1	0.73	322
977	431884	7284420	<0.005	0.14	5.31	6.3	970	1.14	0.11	1.46	0.24	66.7	10.7	74	2.29	18.0	2.41	12.30	0.12	2.0	0.16	0.040	1.28	33.2	20.2	0.81	408
978	431596	7283977	<0.005	0.15	5.59	6.8	1040	1.18	0.12	1.71	0.26	68.2	10.9	80	2.28	20.4	2.62	12.35	0.13	2.2	0.32	0.039	1.31	34.6	18.8	0.90	478
990	408150	7267244	0.005	0.23	5.46	9.6	1000	1.21	0.16	1.07	0.38	68.5	20.6	99	3.26	37.0	3.05	13.70	0.14	2.4	0.73	0.046	1.27	33.3	18.9	0.73	1215
991	408311	7267519	0.005	0.22	5.46	8.1	1140	1.10	0.12	1.29	0.55	70.0	19.3	149	2.85	34.4	3.29	13.25	0.14	2.2	0.34	0.042	1.26	33.0	18.6	0.84	1040
992	408425	7267469	0.005	0.27	5.10	9.7	1100	1.21	0.15	1.44	0.81	66.3	20.6	106	2.69	45.4	3.18	11.90	0.13	2.0	0.36	0.044	1.04	33.3	19.8	0.84	1465
994	408562	7267802	<0.005	0.22	5.27	8.2	1020	1.14	0.15	1.36	1.10	85.8	23.1	94	2.84	38.0	2.93	12.35	0.14	2.1	0.60	0.042	1.14	38.3	20.9	0.77	1385
995	408629	7268269	<0.005	0.18	5.80	11.0	940	1.52	0.18	1.31	0.41	71.1	16.9	95	3.13	27.7	3.19	14.25	0.15	2.4	0.30	0.048	1.26	36.3	32.5	0.85	828
996	408680	7268752	<0.005	0.16	5.98	7.1	870	1.39	0.14	1.62	0.24	102.5	12.1	115	2.74	18.8	3.10	14.45	0.14	3.1	0.60	0.046	1.28	52.7	25.1	0.94	513
997	408820	7269069	0.008	0.14	5.86	9.6	880	1.44	0.14	1.62	0.37	86.3	19.0	96	2.73	18.7	3.24	13.55	0.14	2.7	0.28	0.045	1.25	43.6	25.7	0.91	1120
998	409023	7269361	<0.005	0.15	5.61	8.2	830	1.31	0.14	1.52	0.32	69.6	13.0	79	2.53	18.6	2.79	12.80	0.11	2.2	0.20	0.040	1.23	33.9	23.6	0.85	683
999	409303	7269666	<0.005	0.16	5.75	8.7	850	1.40	0.13	1.54	0.38	75.0	17.3	83	2.69	17.2	2.88	13.40	0.12	2.3	0.29	0.038	1.30	36.2	24.8	0.85	1070
1000	409862	7268485	<0.005	0.09	5.85	8.6	670	1.39	0.17	1.24	0.13	90.9	9.3	89	3.27	14.2	2.83	13.90	0.14	2.7	0.05	0.039	1.36	47.7	26.8	0.79	428
1001	410129	7268434	<0.005	0.13	5.66	5.9	800	1.20	0.12	1.30	0.21	67.2	9.3	83	2.36	13.2	2.48	12.90	0.11	2.4	0.11	0.034	1.20	34.9	20.3	0.82	413
1003	409938	7268853	<0.005	0.12	6.06	7.3	870	1.38	0.14	1.31	0.29	70.2	10.7	83	2.89	17.1	2.78	14.05	0.12	2.3	0.13	0.041	1.32	35.5	23.5	0.88	419
1004	409786	7269209	<0.005	0.15	5.74	8.0	800	1.27	0.14	1.37	0.24	74.6	12.4	92	2.73	16.2	2.80	13.80	0.13	2.3	0.21	0.044	1.30	39.0	23.7	0.83	622
1005	409633	7269488	0.009	0.13	5.41	8.1	780	1.37	0.14	1.42	0.26	72.1	13.7	83	2.53	14.8	2.60	13.65	0.13	2.3	0.12	0.039	1.26	38.5	23.6	0.79	776
1006	409443	7269895	<0.005	0.15	5.59	8.4	820	1.30	0.14	1.42	0.38	66.7	15.8	78	2.65	17.5	2.71	13.75	0.13	2.2	0.20	0.041	1.33	34.0	24.5	0.81	1045
1007	409455	7270200	0.006	0.12	5.62	8.0	810	1.34	0.13	1.50	0.34	69.8	13.6	80	2.60	16.8	2.73	13.65	0.13	2.3	0.16	0.039	1.31	35.5	24.5	0.83	745
1008	409493	7270670	0.007	0.15	5.47	8.8	800	1.36	0.13	1.58	0.33	75.9	12.8	95	2.53	18.9	2.77	13.65	0.14	2.5	0.17	0.041	1.36	40.5	23.8	0.85	606
1009	409684	7271000	0.007	0.11	5.49	9.6	830	1.27	0.14	1.58	0.34	67.6	13.4	85	2.51	18.4	2.84	13.50	0.14	2.2	0.22	0.041	1.32	34.8	23.6	0.85	734
1010	409875	7271229	0.014	0.13	5.61	7.5	790	1.34	0.12	1.72	0.29	82.2	13.9	100	2.34	15.0	2.81	13.45	0.15	2.9	0.45	0.043	1.28	43.8	23.5	0.88	780
1011	411654	7239977	<0.005	0.32	6.30	11.4	640	2.18	0.38	1.96	0.20	117.0	9.6	69	5.73	14.0	3.02	15.85	0.16	3.4	0.18	0.062	1.46	59.5	23.2	0.98	527
1013	411396	7240259	0.007	0.33	5.91	131.5	670	2.10	0.52	1.73	0.27	130.0	15.9	65	6.27	16.6	5.69	15.10	0.20	2.0	0.19	0.056	1.28	67.5	26.7	0.93	835
1014	410972	7240306	<0.005	0.29	6.99	11.8	660	2.61	0.51	2.59	0.21	188.5	13.5	66	7.14	21.4	3.53	17.95	0.22	2.1	0.14	0.076	1.46	93.7	29.4	1.27	747
1015	410842	7240224	<0.005	0.35	6.81	10.0	630	2.67	0.44	2.43	0.18	171.0	13.4	55	8.69	15.6	3.74	16.95	0.17	1.7	0.07	0.061	1.45	90.5	23.1	1.30	806
1016	410666	7240388	0.007	0.33	6.33	27.2	640	2.38	0.46	2.31	0.22	174.5	17.1	67	6.79	15.8	3.84	16.30	0.21	2.3	0.15	0.071	1.35	90.3	26.5	1.14	1030
1017	410313	7240565	<0.005	0.34	6.37	43.6	680	2.15	0.53	1.96	0.25	150.0	25.9	68	7.44	16.5	4.21	15.95	0.18	1.7	0.36	0.065	1.30	74.1	29.5	1.04	1660

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
928	0.91	1.04	12.4	38.2	590	14.1	79.0	<0.002	0.04	1.13	1	2.20	198.5	0.92	<0.05	12.0	0.490	0.43	2.8	107	1.2	17.8	114	80.6	20	FA04030731
929	0.77	0.93	13.6	38.8	600	13.9	88.4	<0.002	0.05	0.91	1	2.20	202.0	0.90	<0.05	13.1	0.538	0.47	2.4	116	1.3	18.0	114	88.7	31	FA04030731
930	3.61	0.63	11.1	35.7	890	15.9	101.5	<0.002	0.06	1.84	3	2.30	138.5	0.78	0.06	13.5	0.429	0.80	3.6	139	1.3	18.2	108	102.0	18	FA04030731
931	2.08	0.59	10.9	37.0	770	17.3	109.0	<0.002	0.06	4.06	2	2.30	134.0	0.76	0.06	13.6	0.402	0.73	3.5	124	1.8	19.5	108	93.2	20	FA04030731
932	2.14	0.58	11.2	39.3	730	16.7	106.0	<0.002	0.06	3.92	3	2.40	128.5	0.77	0.08	13.4	0.427	0.72	3.4	123	1.8	20.2	98	95.9	17	FA04030731
933	1.47	0.69	10.7	44.6	720	15.6	94.9	<0.002	0.07	2.85	2	2.00	155.0	0.72	0.07	12.5	0.420	0.66	3.1	114	1.6	18.0	132	84.5	20	FA04030731
934	1.45	0.63	10.4	43.9	650	15.4	92.4	<0.002	0.06	2.75	2	2.10	144.0	0.73	0.05	12.5	0.421	0.63	3.0	115	1.6	18.3	106	81.5	15	FA04030731
935	0.77	0.84	9.7	21.5	530	13.0	85.7	<0.002	0.04	0.69	1	2.00	113.0	0.70	0.05	10.0	0.380	0.50	2.3	93	1.0	12.0	70	78.9	19	FA04030731
936	0.71	0.86	10.3	30.1	540	16.6	78.5	<0.002	0.04	0.76	1	1.90	139.0	0.74	<0.05	11.7	0.426	0.47	2.8	98	1.1	17.5	91	86.0	31	FA04030731
937	0.63	0.86	10.2	27.3	520	17.4	81.0	<0.002	0.04	0.68	1	1.90	133.5	0.73	<0.05	11.0	0.414	0.48	2.6	98	1.1	15.9	84	83.1	17	FA04030731
938	0.52	0.84	11.4	29.7	460	16.5	82.3	<0.002	0.03	0.64	1	1.90	136.5	0.90	<0.05	14.2	0.439	0.46	3.0	92	1.2	19.6	95	108.5	25	FA04030731
939	0.62	0.87	10.4	34.1	540	17.8	85.6	<0.002	0.04	0.68	1	2.00	156.5	0.78	<0.05	12.2	0.420	0.49	3.0	99	1.1	20.0	209	93.6	33	FA04030731
942	0.70	0.84	9.6	36.0	660	18.5	90.4	<0.002	0.05	0.81	2	2.00	167.5	0.68	<0.05	11.7	0.386	0.58	3.5	102	1.2	19.4	185	77.2	22	FA04030731
944	0.53	0.86	10.2	28.8	490	15.8	87.8	<0.002	0.03	0.63	1	2.00	142.0	0.84	0.05	12.1	0.398	0.51	2.9	94	1.1	17.6	86	87.8	14	FA04030731
975	0.93	1.15	8.9	27.9	730	10.5	53.1	<0.002	0.03	1.00	1	1.40	208.0	0.65	<0.05	6.8	0.369	0.33	1.9	114	0.9	15.2	83	64.6	39	FA04030731
976	0.56	1.04	9.7	22.5	600	11.4	59.4	<0.002	0.03	0.90	1	1.60	182.0	0.76	<0.05	7.6	0.382	0.34	2.2	112	1.0	15.0	69	69.2	20	FA04030731
977	0.69	1.20	9.7	24.9	700	10.4	54.5	<0.002	0.02	0.95	1	1.40	215.0	0.65	<0.05	8.0	0.382	0.34	2.0	107	1.0	15.8	70	72.1	54	FA04030731
978	0.71	1.25	10.0	26.5	760	11.0	53.5	<0.002	0.02	1.07	1	1.40	231.0	0.74	<0.05	8.2	0.413	0.32	2.1	116	1.0	17.0	79	71.6	79	FA04030731
990	3.17	0.87	11.6	36.0	1000	14.2	57.7	<0.002	0.06	1.56	2	1.60	167.5	0.81	0.07	7.7	0.454	0.38	3.1	141	1.2	18.2	86	84.0	25	FA04030731
991	1.65	0.95	11.2	50.4	940	11.6	54.7	<0.002	0.05	1.42	2	1.60	179.5	0.75	0.05	7.3	0.517	0.32	2.8	135	1.1	19.4	106	77.6	24	FA04030731
992	1.80	0.86	9.3	46.5	1060	14.1	50.4	<0.002	0.08	1.54	2	1.50	164.5	0.61	0.06	6.9	0.395	0.34	2.7	131	0.8	18.8	108	69.5	17	FA04030731
994	1.43	0.90	9.6	42.3	940	13.9	54.4	<0.002	0.07	1.27	2	1.50	173.0	0.68	0.05	7.7	0.402	0.37	2.7	120	1.0	21.6	102	73.7	19	FA04030731
995	1.31	1.06	10.6	35.0	780	14.5	60.0	0.002	0.04	1.12	2	1.80	192.5	0.73	0.06	8.4	0.435	0.36	2.5	120	1.0	18.1	87	74.7	20	FA04030731
996	0.89	1.24	13.2	30.2	870	12.7	56.2	<0.002	0.03	0.97	1	1.80	231.0	0.94	<0.05	13.0	0.541	0.35	3.0	124	1.4	20.7	78	96.3	24	FA04030731
997	1.01	1.18	11.4	30.5	860	12.5	57.3	<0.002	0.03	1.00	1	1.70	220.0	0.79	0.05	10.4	0.467	0.35	2.4	121	1.3	19.4	85	83.4	17	FA04030731
998	0.79	1.20	10.8	27.0	770	12.0	55.3	<0.002	0.03	0.99	1	1.60	220.0	0.72	<0.05	8.6	0.404	0.34	2.3	106	1.2	17.2	81	73.5	32	FA04030731
999	0.79	1.22	10.4	28.6	780	11.6	57.9	<0.002	0.03	0.95	1	1.60	223.0	0.73	<0.05	8.5	0.407	0.37	2.2	111	1.1	18.0	85	72.0	26	FA04030731
1000	0.76	1.18	11.0	20.8	590	13.9	59.8	<0.002	0.02	0.88	1	1.70	204.0	0.84	<0.05	10.3	0.461	0.33	2.3	110	1.1	16.0	62	80.2	36	FA04030731
1001	0.72	1.32	10.3	22.2	540	10.4	49.1	<0.002	0.03	0.73	1	1.60	262.0	0.78	<0.05	7.5	0.427	0.32	1.9	104	1.2	14.4	62	73.5	23	FA04030731
1003	0.83	1.31	9.8	26.4	650	13.5	60.1	<0.002	0.03	1.12	1	1.90	265.0	0.72	<0.05	7.5	0.404	0.35	1.9	111	1.3	15.1	83	72.4	16	FA04030731
1004	0.88	1.25	10.4	24.7	650	12.4	56.9	<0.002	0.03	0.91	1	1.70	246.0	0.72	<0.05	8.5	0.436	0.35	2.0	115	1.3	16.0	73	73.5	27	FA04030731
1005	0.76	1.22	10.2	24.4	660	11.7	55.1	<0.002	0.03	0.87	1	1.60	223.0	0.70	<0.05	9.2	0.417	0.35	2.3	110	1.2	16.5	75	70.7	19	FA04030731
1006	0.92	1.20	10.4	27.3	700	12.5	61.5	<0.002	0.03	1.02	1	1.70	219.0	0.68	<0.05	8.6	0.399	0.38	2.2	113	1.4	16.8	86	70.1	25	FA04030731
1007	0.95	1.21	10.6	27.4	740	12.2	56.6	<0.002	0.03	0.92	1	1.60	221.0	0.71	0.05	8.3	0.408	0.36	2.1	112	1.2	17.3	82	68.8	30	FA04030731
1008	0.85	1.19	11.2	29.2	790	11.7	56.2	<0.002	0.03	1.03	1	1.60	225.0	0.79	<0.05	9.0	0.454	0.34	2.3	120	1.1	18.8	85	77.7	31	FA04030731
1009	0.89	1.20	9.4	28.5	780	11.5	56.3	<0.002	0.04	0.99	1	1.60	222.0	0.68	<0.05	8.6	0.390	0.36	2.3	116	1.2	17.6	86	68.4	32	FA04030731
1010	0.80	1.29	12.5	27.1	820	10.6	54.7	<0.002	0.02	0.92	1	1.70	240.0	0.90	<0.05	10.6	0.497	0.34	2.5	119	1.3	20.1	77	89.7	25	FA04030731
1011	0.42	1.55	29.8	18.9	1930	22.8	79.1	<0.002	0.02	1.47	1	5.40	324.0	2.40	0.05	19.4	0.490	0.48	5.5	107	1.6	24.3	70	95.7	32	FA04030731
1013	0.91	1.22	23.9	21.4	2930	23.3	83.4	<0.002	0.04	1.72	1	4.10	294.0	1.60	0.05	21.4	0.436	0.51	6.2	124	1.8	22.8	72	57.0	22	FA04030731
1014	0.69	1.61	38.4	19.6	3110	20.5	92.9	<0.002	0.02	1.38	1	5.40	425.0	2.66	0.05	26.8	0.555	0.54	6.7	120	1.9	30.8	80	56.4	37	FA04030731
1015	0.70	1.65	49.5	15.5	2270	23.4	98.2	<0.002	0.02	2.00	1	4.70	444.0	3.68	<0.05	19.6	0.626	0.55	5.3	124	1.5	24.3	88	40.7	23	FA04030731
1016	0.65	1.44	39.9	20.0	2720	21.3	87.1	<0.002	0.02	1.26	1	4.40	367.0	2.78	<0.05	20.9	0.564	0.50	6.0	119	1.6	28.4	80	63.0	22	FA04030731
1017	0.79	1.32	26.6	21.7	2200	23.8	86.3	<0.002	0.03	1.30	1	3.90	339.0	1.67	<0.05	23.6	0.459	0.58	6.3	126	1.5	24.6	79	49.1	33	FA04030731

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1018	409748	7240623	<0.005	0.36	6.44	17.0	660	2.19	0.42	2.14	0.18	147.0	14.1	72	6.72	16.4	3.33	16.50	0.17	2.1	0.10	0.062	1.40	74.9	27.6	1.08	829
1020	409254	7240812	0.013	0.25	6.06	14.6	700	1.58	0.27	1.72	0.22	122.0	15.8	91	4.45	15.7	3.34	14.70	0.15	2.6	0.22	0.050	1.30	64.6	26.2	0.98	863
1021	408865	7240765	0.016	0.23	6.16	11.2	730	1.55	0.24	1.78	0.14	120.0	13.6	100	4.16	15.4	3.28	14.60	0.17	2.7	0.13	0.055	1.32	65.2	24.9	1.00	689
1022	408606	7241058	<0.005	0.16	5.84	8.3	720	1.44	0.17	1.72	0.26	78.2	12.6	82	3.22	17.0	2.86	13.40	0.15	2.0	0.18	0.044	1.31	40.1	23.1	0.95	648
1057	440782	7269249	0.013	0.14	5.27	8.6	680	1.09	0.18	0.91	0.34	54.4	8.1	75	2.67	20.6	2.31	13.80	0.13	1.9	0.10	0.039	1.23	27.7	23.7	0.67	281
1060	440343	7269159	0.005	0.12	5.74	12.0	650	1.33	0.19	0.70	0.18	68.0	11.1	82	3.60	19.8	2.93	16.30	0.16	2.0	0.15	0.044	1.53	32.1	27.2	0.67	295
1061	440040	7269126	0.012	0.12	5.47	6.3	670	0.98	0.14	0.88	0.16	56.6	7.7	72	2.65	14.8	2.41	11.90	0.10	1.6	0.14	0.035	1.24	26.9	22.3	0.68	297
1064	439017	7269159	0.011	0.09	5.82	9.0	800	1.18	0.16	1.21	0.29	53.2	15.5	74	2.51	15.8	2.84	14.05	0.14	2.0	0.08	0.041	1.30	27.0	24.4	0.82	646
1065	438286	7269148	0.069	0.24	3.33	19.7	600	0.97	0.15	0.99	0.67	42.5	45.2	48	1.53	20.4	6.39	8.08	0.20	1.1	0.38	0.031	0.74	20.4	14.4	0.47	2330
1073	430833	7256268	0.035	0.67	7.80	13.5	930	1.36	0.23	1.06	0.32	51.1	20.2	105	10.75	42.2	4.60	18.10	0.17	1.7	0.15	0.062	1.38	26.5	40.2	1.29	1120
1075	430639	7255988	0.032	0.65	6.36	13.6	740	1.24	0.23	0.78	0.27	50.0	17.4	106	9.60	41.2	3.77	17.95	0.18	1.8	0.21	0.057	1.25	24.8	39.2	1.02	726
1077	430041	7254487	0.024	0.14	5.47	11.0	680	1.18	0.33	1.20	0.21	57.9	16.4	82	3.01	16.8	2.70	14.30	0.16	1.9	0.18	0.040	1.27	29.3	23.6	0.86	891
1078	429765	7254614	0.010	0.16	6.10	9.1	700	1.31	0.27	1.03	0.18	59.3	14.5	93	3.96	20.3	2.94	15.85	0.16	2.1	0.16	0.050	1.43	30.6	32.5	1.00	596
1079	429608	7254711	0.010	0.16	5.68	12.8	700	1.26	0.51	1.24	0.22	60.1	13.1	87	2.91	23.9	2.76	14.20	0.15	1.9	0.27	0.045	1.30	29.9	23.2	0.93	532
1081	429452	7254942	0.023	0.20	5.66	6.8	750	1.17	0.23	1.28	0.28	56.3	10.8	83	3.77	22.6	2.38	14.40	0.15	1.9	0.18	0.050	1.32	28.8	22.8	0.85	739
1082	429355	7255277	0.029	0.22	5.70	14.6	730	1.13	0.60	1.13	0.26	61.8	12.4	87	3.47	24.3	2.69	14.35	0.15	1.9	<0.01	0.054	1.26	32.7	22.2	0.85	599
1083	429519	7253742	0.068	1.43	6.41	14.8	750	1.31	0.24	0.77	2.06	63.7	22.4	102	11.55	61.5	3.65	16.15	0.17	1.7	0.65	0.061	1.25	30.7	45.6	0.97	1315
1085	429347	7253645	0.010	0.52	5.99	11.0	710	1.12	0.17	1.05	1.38	59.4	16.3	97	6.07	43.3	3.40	14.95	0.14	1.7	0.38	0.049	1.24	29.7	39.4	1.05	1230
1086	429161	7253616	0.012	0.94	6.78	14.2	770	1.15	0.20	1.08	1.44	57.5	22.6	106	7.29	44.9	3.78	15.85	0.16	1.9	0.40	0.058	1.32	29.8	46.7	1.15	1380
1088	428952	7253817	0.015	0.28	6.01	7.8	700	1.17	0.17	1.02	0.33	57.3	14.9	95	5.13	35.4	3.08	16.10	0.17	1.9	0.28	0.050	1.36	29.8	34.6	1.05	746
1089	428922	7253578	0.011	0.27	6.64	10.2	720	1.14	0.17	0.94	0.51	53.1	17.3	107	5.67	33.3	3.85	15.95	0.15	1.9	0.55	0.054	1.36	27.7	43.2	1.24	945
1090	428624	7253262	0.023	0.44	5.93	12.4	600	1.17	0.16	0.95	0.88	58.1	17.6	112	5.08	36.1	3.55	15.95	0.16	2.0	0.77	0.060	1.31	30.4	40.6	1.14	903
1091	428378	7253292	0.015	0.37	6.16	9.9	640	1.11	0.15	1.04	0.64	59.7	15.5	108	4.85	29.9	3.39	15.25	0.17	2.0	0.58	0.051	1.28	31.3	37.4	1.13	826
1092	428035	7253441	0.031	0.20	5.78	11.5	830	1.21	0.17	1.39	0.30	58.3	14.3	85	3.63	21.2	3.01	15.10	0.15	1.8	0.51	0.047	1.32	30.1	27.1	0.91	3570
1093	427759	7253136	0.009	0.35	6.17	8.3	700	1.23	0.14	1.24	0.54	58.0	13.3	98	4.54	29.1	3.08	14.65	0.15	1.8	0.50	0.044	1.32	30.6	31.4	1.05	844
1094	427468	7252890	0.152	0.33	6.31	8.5	750	1.19	0.15	1.28	0.69	60.1	14.1	91	4.27	27.9	3.20	14.40	0.15	1.8	0.48	0.052	1.29	30.9	32.9	1.08	1480
1096	426983	7252540	0.042	0.38	6.49	10.8	710	1.36	0.17	1.22	0.69	62.4	16.8	103	8.07	61.6	3.72	16.50	0.17	2.0	0.47	0.055	1.49	34.7	52.1	1.18	895
1097	426976	7252681	0.011	0.29	5.71	7.7	660	1.19	0.14	1.23	0.57	59.6	13.0	92	3.46	22.7	2.82	14.15	0.15	1.9	0.41	0.042	1.24	32.8	30.4	1.00	821
1100	426513	7252562	0.007	0.33	6.23	8.2	730	1.20	0.15	1.30	0.70	66.7	15.5	95	3.76	24.8	3.21	14.95	0.16	2.0	0.36	0.051	1.33	34.0	33.1	1.10	1035
1101	426133	7252525	0.039	0.23	5.99	7.7	670	1.12	0.13	1.41	0.32	81.0	13.9	109	3.75	19.4	3.12	14.45	0.17	2.4	0.28	0.044	1.26	42.8	29.8	1.07	792
1102	428534	7250765	0.023	2.63	5.34	68.4	560	1.00	0.27	1.32	3.83	51.9	14.6	85	8.45	42.1	2.80	13.95	0.13	1.6	0.90	0.136	1.13	26.7	47.9	0.91	1330
1103	428639	7250549	0.010	1.46	5.49	39.0	660	1.02	0.19	1.14	1.99	53.1	11.7	81	6.47	24.1	2.58	13.25	0.14	1.7	0.49	0.073	1.10	27.4	39.4	0.79	831
1105	428475	7250318	0.010	1.40	6.05	81.1	890	1.34	0.31	1.13	3.70	65.0	27.0	98	5.32	39.3	4.05	16.10	0.18	2.2	0.92	0.102	1.32	32.5	34.6	0.95	7160
1106	428594	7249990	0.032	1.07	5.35	26.0	630	1.08	0.29	1.38	2.07	53.0	11.8	79	4.90	27.4	2.56	13.50	0.15	1.6	0.45	0.069	1.17	28.0	32.1	0.86	964
1107	428624	7249535	0.028	0.79	5.77	23.8	680	1.14	0.35	1.70	1.58	58.5	12.4	87	4.70	26.9	2.77	13.55	0.14	1.8	0.48	0.070	1.29	30.1	29.7	0.89	1240
1109	428703	7249130	0.023	0.83	5.71	29.7	740	1.13	0.36	1.20	1.57	61.0	14.2	88	5.21	26.3	2.97	14.50	0.16	1.8	0.50	0.065	1.30	31.4	31.7	0.87	2300
1119	418677	7266841	0.006	0.15	5.21	8.2	740	1.08	0.14	1.36	0.31	60.8	10.1	75	2.36	17.8	2.54	12.90	0.15	2.2	0.11	0.037	1.17	31.4	17.6	0.77	522
1120	418594	7266677	<0.005	0.15	5.57	9.5	760	1.15	0.17	1.17	0.28	56.5	14.5	80	2.63	17.9	2.88	13.05	0.14	2.2	0.14	0.039	1.16	30.3	18.8	0.78	788
1121	418565	7266782	<0.005	0.16	5.38	8.8	780	1.21	0.16	1.39	0.34	65.1	12.8	80	2.58	20.9	2.72	13.10	0.15	2.2	0.11	0.040	1.19	33.5	19.3	0.79	682
1122	418383	7266794	<0.005	0.12	5.24	7.4	750	1.20	0.14	1.58	0.29	68.9	11.4	84	2.29	17.3	2.65	13.30	0.14	2.3	0.07	0.040	1.17	36.7	18.7	0.83	539
1123	418277	7266788	<0.005	0.16	4.98	11.4	660	1.22	0.21	0.96	0.63	59.0	17.4	73	2.96	35.7	2.90	13.25	0.14	2.1	0.13	0.043	1.17	30.5	17.4	0.66	936
1124	417983	7266923	<0.005	0.14	5.25	8.5	750	1.10	0.14	1.31	0.34	58.8	12.1	75	2.56	24.0	2.64	13.00	0.14	2.0	0.09	0.041	1.17	30.3	18.2	0.76	611
1125	417854	7267076	0.006	0.14	5.50	11.1	780	1.24	0.22	1.21	0.33	68.3	14.1	80	3.17	28.4	3.03	14.30	0.18	2.2	0.13	0.043	1.29	36.1	22.0	0.79	830

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1018	0.72	1.44	29.6	21.6	2260	19.6	90.3	<0.002	0.02	1.24	1	4.00	354.0	2.14	<0.05	22.7	0.528	0.48	5.3	117	1.7	24.6	77	58.5	20	FA04030731
1020	0.68	1.28	24.1	26.4	1460	15.5	72.3	<0.002	0.02	1.22	1	2.60	267.0	1.81	0.05	18.9	0.567	0.43	4.8	123	2.0	21.4	80	75.4	23	FA04030731
1021	0.67	1.32	23.2	26.1	1360	14.6	67.4	<0.002	0.02	1.59	1	2.60	266.0	1.69	<0.05	19.4	0.588	0.42	4.5	125	1.5	21.6	78	77.5	26	FA04030731
1022	0.62	1.30	13.7	27.4	1060	12.0	59.1	<0.002	0.03	1.04	1	2.00	257.0	0.93	<0.05	14.3	0.459	0.37	3.2	111	1.1	17.9	77	63.6	66	FA04030731
1057	1.04	0.97	9.7	21.9	670	12.5	60.2	<0.002	0.03	1.02	1	1.90	160.5	0.67	0.05	8.0	0.376	0.43	2.5	107	1.2	13.0	80	62.5	18	FA04030731
1060	2.27	0.70	9.7	30.3	650	14.5	71.9	<0.002	0.03	1.34	1	4.40	131.5	0.72	0.06	8.7	0.377	0.45	2.3	122	1.4	12.9	84	61.8	34	FA04030731
1061	0.95	0.84	7.7	19.4	610	11.2	52.3	<0.002	0.03	0.90	1	1.60	143.5	0.54	<0.05	7.0	0.342	0.36	1.9	104	1.1	11.0	78	50.9	22	FA04030731
1064	0.97	1.16	9.8	25.8	770	12.0	61.1	<0.002	0.03	1.15	1	1.70	196.0	0.69	<0.05	7.9	0.374	0.40	2.1	112	1.0	14.2	91	60.1	22	FA04030731
1065	4.99	0.58	5.1	24.7	1510	10.3	37.6	<0.002	0.12	1.29	2	1.20	123.5	0.33	0.05	5.7	0.207	0.24	1.6	106	0.6	15.9	305	35.3	16	FA04030731
1073	1.27	1.06	9.7	42.7	1170	17.4	78.8	<0.002	0.06	1.12	1	2.30	166.0	0.60	0.07	7.2	0.419	0.54	1.9	164	1.6	17.6	161	57.5	22	FA04030731
1075	1.20	0.83	8.8	42.5	940	17.5	75.2	<0.002	0.05	1.07	1	2.10	128.0	0.61	0.08	7.3	0.400	0.56	2.0	159	1.8	16.1	141	57.1	21	FA04030731
1077	0.62	1.11	9.8	29.1	620	11.2	62.7	<0.002	0.03	0.97	1	2.10	183.0	0.65	<0.05	7.7	0.396	0.39	1.8	111	1.3	13.8	92	59.4	21	FA04030731
1078	0.66	1.14	11.2	34.4	620	12.0	67.8	<0.002	0.03	0.98	1	2.10	169.5	0.75	0.05	8.4	0.464	0.44	2.0	133	1.9	14.9	92	67.0	37	FA04030731
1079	0.66	1.13	10.0	30.3	630	11.5	61.4	<0.002	0.03	1.08	1	2.30	186.5	0.70	<0.05	8.2	0.415	0.42	2.0	116	1.7	14.8	94	59.4	28	FA04030731
1081	0.59	1.06	9.8	31.3	580	12.5	65.6	<0.002	0.05	1.07	1	2.30	184.0	0.65	0.05	7.5	0.402	0.43	2.0	111	1.3	14.6	100	60.6	32	FA04030731
1082	0.79	1.01	9.9	30.5	590	11.3	61.8	<0.002	0.02	1.02	1	2.80	167.0	0.67	0.06	7.8	0.424	0.45	2.1	118	2.4	14.8	69	60.4	44	FA04030731
1083	1.28	0.71	7.7	47.8	970	27.6	85.0	<0.002	0.07	2.03	2	2.20	125.0	0.54	0.08	6.9	0.332	0.62	2.0	148	1.1	23.6	258	57.5	17	FA04030731
1085	1.08	1.02	8.7	44.3	900	18.4	66.0	<0.002	0.06	1.47	1	1.80	154.0	0.56	0.06	6.5	0.415	0.43	1.8	142	1.3	21.6	244	56.7	16	FA04030731
1086	1.22	0.98	9.2	46.1	940	39.3	74.5	<0.002	0.05	2.25	2	3.20	158.0	0.57	0.08	6.9	0.419	0.52	2.0	151	1.5	21.9	192	65.3	25	FA04030731
1088	0.88	1.06	10.1	41.7	630	13.7	72.1	<0.002	0.03	0.90	1	2.60	165.5	0.70	0.05	7.2	0.442	0.41	2.0	135	1.3	17.0	99	63.4	21	FA04030731
1089	0.95	1.11	10.0	46.8	750	20.1	63.5	<0.002	0.03	1.43	1	2.10	147.0	0.70	0.07	6.5	0.497	0.41	1.8	156	1.6	18.5	126	59.6	27	FA04030731
1090	1.42	1.08	10.2	49.6	730	27.6	62.0	<0.002	0.03	2.03	1	6.90	166.5	0.66	0.07	6.9	0.500	0.40	2.0	153	1.5	19.4	139	63.6	33	FA04030731
1091	0.86	1.14	10.2	42.7	710	25.2	61.0	<0.002	0.02	1.80	1	4.70	166.5	0.67	0.06	7.3	0.486	0.39	2.0	140	1.5	19.5	116	65.0	33	FA04030731
1092	0.64	1.09	9.5	37.4	780	11.2	60.6	<0.002	0.05	3.09	1	1.90	226.0	0.62	0.06	7.2	0.368	0.40	2.0	113	1.2	16.4	76	60.9	22	FA04030731
1093	0.69	1.12	9.4	38.6	740	22.0	60.9	<0.002	0.04	1.49	1	1.80	196.5	0.65	<0.05	7.1	0.423	0.38	1.9	125	1.1	18.2	104	57.4	20	FA04030731
1094	0.72	1.12	9.5	39.1	800	20.4	62.0	<0.002	0.05	1.43	1	1.80	207.0	0.67	0.06	7.3	0.407	0.37	1.9	120	1.1	17.6	104	58.3	18	FA04030731
1096	0.92	0.99	10.0	50.0	910	16.8	67.4	<0.002	0.04	1.67	2	2.20	184.5	0.66	0.07	6.9	0.468	0.48	1.8	154	1.3	25.7	119	63.2	20	FA04030731
1097	0.74	1.14	10.0	37.1	660	24.2	60.2	<0.002	0.03	1.61	1	1.70	195.0	0.66	0.05	8.2	0.442	0.38	1.9	117	1.4	17.1	96	62.6	26	FA04030731
1100	0.76	1.20	10.6	40.4	750	27.3	61.7	<0.002	0.03	1.85	1	2.70	201.0	0.72	0.05	8.1	0.473	0.41	2.1	127	1.5	17.6	107	64.3	39	FA04030731
1101	0.65	1.24	12.0	36.4	740	22.1	59.1	<0.002	0.03	1.57	1	1.80	204.0	0.88	<0.05	9.6	0.540	0.35	2.4	128	1.5	19.8	92	73.8	31	FA04030731
1102	0.76	0.80	8.2	40.8	680	69.1	62.2	<0.002	0.07	9.24	3	2.30	208.0	0.52	0.06	6.1	0.374	0.45	1.9	123	1.0	18.0	273	51.8	16	FA04030731
1103	0.64	0.85	8.7	35.4	740	38.5	62.1	<0.002	0.06	2.18	1	1.90	171.5	0.58	0.06	6.8	0.371	0.46	1.9	110	1.0	16.2	142	57.3	29	FA04030731
1105	1.48	1.02	9.3	51.9	820	53.7	65.2	<0.002	0.03	6.17	1	4.80	172.5	0.63	0.07	7.7	0.412	0.43	2.0	130	1.5	19.3	192	74.0	26	FA04030731
1106	0.43	0.97	7.9	34.9	660	30.9	60.4	<0.002	0.10	2.83	1	1.90	199.0	0.54	<0.05	7.0	0.349	0.40	1.6	104	0.8	16.2	152	51.4	19	FA04030731
1107	0.63	1.02	9.3	34.5	710	28.9	63.1	<0.002	0.07	2.20	1	1.90	214.0	0.62	<0.05	7.3	0.394	0.41	1.9	109	1.1	15.3	131	57.4	28	FA04030731
1109	0.63	0.95	9.7	38.0	690	29.5	67.1	<0.002	0.06	2.16	1	2.10	182.0	0.68	0.05	7.5	0.413	0.42	2.0	116	1.4	15.6	144	60.7	27	FA04030731
1119	0.92	1.07	10.2	25.4	650	11.0	55.3	<0.002	0.03	1.03	1	2.60	192.5	0.75	0.05	7.9	0.409	0.33	2.3	112	1.0	16.0	68	71.9	19	FA04030731
1120	1.36	1.08	10.0	26.2	670	12.8	56.4	<0.002	0.03	1.13	1	1.70	185.0	0.70	0.05	7.9	0.401	0.39	2.3	119	1.1	15.0	69	68.1	20	FA04030731
1121	1.13	1.08	10.2	26.7	690	12.0	56.8	<0.002	0.03	1.12	1	1.60	196.0	0.71	0.05	8.6	0.402	0.36	2.7	118	1.1	18.4	72	70.3	26	FA04030731
1122	0.92	1.20	10.8	25.7	720	11.0	55.5	<0.002	0.03	1.00	1	1.60	215.0	0.71	<0.05	9.6	0.442	0.38	2.4	116	1.2	18.0	72	73.2	19	FA04030731
1123	1.95	0.81	9.7	30.3	730	14.9	58.1	<0.002	0.02	1.34	1	1.60	152.0	0.70	0.09	8.5	0.378	0.48	3.4	118	1.4	16.2	74	67.0	38	FA04030731
1124	1.17	1.13	9.9	26.5	640	11.8	55.4	<0.002	0.03	1.13	1	1.50	195.0	0.70	0.05	7.8	0.382	0.39	2.5	111	1.4	16.0	69	62.4	22	FA04030731
1125	1.30	0.93	10.2	30.8	670	16.1	65.0	<0.002	0.02	1.14	1	1.90	176.5	0.66	0.08	9.9	0.384	0.44	2.4	115	1.4	18.4	83	69.5	20	FA04030731

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1128	417336	7266888	<0.005	0.14	5.64	9.1	820	1.23	0.15	1.34	0.25	60.7	11.9	76	2.63	16.6	2.86	13.20	0.15	2.1	0.10	0.039	1.19	32.5	20.0	0.82	585
1129	417190	7266841	<0.005	0.18	5.30	12.4	770	1.25	0.20	1.18	0.52	62.6	16.9	77	3.13	31.4	3.04	13.80	0.18	2.2	0.17	0.045	1.24	33.1	20.2	0.74	898
1130	415283	7269120	0.008	0.17	4.27	6.2	690	1.06	0.13	1.96	0.55	47.5	12.2	82	2.47	28.9	2.58	10.90	0.15	1.9	0.18	0.037	0.83	26.7	18.8	0.68	885
1131	415537	7269006	0.018	0.35	4.77	9.1	610	1.25	0.17	1.47	0.89	52.8	11.7	73	2.98	49.1	2.78	13.35	0.14	2.9	0.34	0.049	1.05	30.0	21.2	0.63	859
1133	415741	7269006	0.010	0.26	5.81	11.5	690	1.27	0.21	1.22	0.54	63.8	15.4	103	3.05	52.2	3.76	15.90	0.18	3.5	0.20	0.059	1.23	34.3	26.4	0.76	700
1134	415817	7268790	<0.005	0.34	5.72	10.8	650	1.43	0.20	1.08	0.63	63.6	17.7	95	3.31	51.8	3.69	16.35	0.19	3.2	0.36	0.061	1.26	33.2	27.2	0.71	882
1135	415995	7268739	0.019	0.26	6.17	12.4	790	1.51	0.22	1.22	0.54	61.5	14.1	91	3.61	58.0	3.76	15.90	0.15	2.3	0.25	0.057	1.12	31.5	33.1	0.78	793
1136	416122	7268637	0.012	0.33	6.30	11.8	750	1.60	0.22	1.12	0.73	68.7	18.2	97	3.52	54.4	4.13	16.65	0.19	2.7	0.35	0.066	1.18	34.3	30.0	0.80	1045
1137	416414	7268434	<0.005	0.19	6.21	10.6	920	1.63	0.17	1.69	0.41	74.1	13.4	86	2.85	31.3	3.46	15.00	0.18	2.0	0.14	0.050	1.29	37.4	25.4	0.96	711
1138	418692	7261059	<0.005	0.09	4.69	8.8	370	0.68	0.09	2.01	0.33	29.6	42.3	1520	1.22	21.4	4.61	9.06	0.12	0.8	0.14	0.032	0.50	14.2	13.4	5.29	890
1139	418838	7261406	0.011	0.10	5.16	4.5	530	0.79	0.10	1.80	0.19	55.1	25.9	1030	1.79	20.7	3.50	11.15	0.14	1.4	0.08	0.035	0.78	28.8	15.7	3.17	635
1140	418973	7261448	<0.005	0.07	5.75	5.3	420	0.64	0.08	3.14	0.26	35.9	34.7	2610	1.28	23.1	4.53	11.10	0.12	1.1	0.09	0.036	0.58	17.3	11.8	3.89	1035
1142	419016	7261686	<0.005	0.09	5.04	5.4	480	0.80	0.08	1.90	0.22	47.8	33.3	1090	1.53	21.3	3.92	10.90	0.14	1.3	0.10	0.039	0.73	23.8	16.2	4.04	688
1143	418875	7261644	<0.005	0.08	5.00	6.1	530	0.84	0.08	1.69	0.35	49.9	35.3	1840	1.61	20.5	3.99	10.70	0.13	1.2	0.23	0.035	0.74	24.1	18.0	3.94	1170
1144	419106	7261711	0.006	0.11	5.54	7.0	700	1.04	0.11	1.68	0.30	57.2	17.8	309	2.13	21.1	3.31	12.20	0.14	1.4	0.07	0.039	1.04	28.4	18.2	1.89	713
1145	419144	7261935	0.005	0.10	5.43	7.1	650	1.07	0.11	1.65	0.23	72.3	21.0	546	2.01	20.4	3.53	11.95	0.18	1.4	0.11	0.039	0.98	34.9	18.8	2.39	647
1146	419293	7262285	0.044	0.10	5.67	9.0	660	1.03	0.09	1.74	0.24	62.8	21.2	573	2.17	20.9	3.86	12.45	0.17	1.5	0.07	0.042	1.02	30.7	22.1	2.33	665
1147	420277	7260976	0.012	0.14	4.87	14.9	540	0.99	0.11	1.68	0.28	42.2	20.1	359	5.71	48.5	3.10	10.35	0.15	1.1	0.39	0.035	0.81	23.8	15.0	2.18	428
1148	420695	7260894	<0.005	0.09	5.12	7.7	460	0.75	0.07	2.07	0.20	37.9	31.0	1910	1.84	27.5	3.71	10.35	0.13	1.0	0.12	0.034	0.63	19.0	14.8	3.42	650
1150	420978	7260790	0.033	0.12	5.48	8.0	630	0.99	0.10	1.67	0.22	49.7	25.3	540	2.14	28.7	3.67	12.00	0.15	1.2	0.22	0.042	0.85	24.9	18.4	2.21	714
1151	421418	7260544	0.007	0.14	5.44	13.2	760	1.14	0.13	1.28	0.41	48.9	26.1	239	2.71	29.3	3.93	12.50	0.15	1.3	0.17	0.040	1.00	23.9	20.3	1.70	2110
1153	412956	7269450	0.015	0.17	6.12	8.4	810	1.50	0.15	1.42	0.54	69.5	12.2	72	3.53	29.7	3.20	13.70	0.15	1.5	0.08	0.044	1.24	35.9	23.9	0.85	881
1154	412816	7269323	0.006	0.14	6.05	8.4	970	1.43	0.15	1.94	0.34	61.2	11.0	76	2.73	25.9	3.08	13.75	0.16	1.5	0.16	0.042	1.30	31.8	22.4	1.04	522
1155	413033	7269158	<0.005	0.13	6.06	8.6	960	1.42	0.14	2.11	0.35	59.6	11.0	75	2.51	23.0	3.10	13.55	0.16	1.4	0.16	0.045	1.28	30.6	21.4	1.07	600
1156	413223	7268739	<0.005	0.17	6.05	6.5	920	1.41	0.14	1.60	0.38	60.4	10.3	76	2.63	23.0	2.87	13.85	0.17	1.4	0.20	0.043	1.27	30.3	21.5	0.94	497
1157	413439	7268320	0.023	0.18	5.48	15.3	1100	1.42	0.18	1.71	1.22	74.9	28.3	66	2.66	26.5	4.13	12.70	0.18	1.4	0.27	0.045	1.14	33.0	20.6	0.86	5730
1160	413986	7267558	<0.005	0.19	5.88	13.4	1020	1.38	0.16	1.38	0.51	62.0	18.7	88	2.84	38.7	3.92	14.40	0.18	1.8	0.25	0.050	1.29	31.2	21.9	0.90	2960
1161	413872	7267532	0.006	0.12	5.74	7.9	840	1.20	0.15	1.62	0.48	62.0	13.2	79	2.50	21.2	3.06	13.10	0.17	1.5	0.19	0.045	1.22	31.9	19.8	0.90	1340
1162	414151	7267202	<0.005	0.13	5.90	10.4	920	1.26	0.16	1.56	0.45	65.8	14.0	82	2.54	29.7	3.41	13.55	0.17	1.8	0.16	0.045	1.26	33.3	19.6	0.93	1675
1163	414151	7267050	<0.005	0.12	5.71	7.8	830	1.29	0.14	1.70	0.28	70.8	10.1	76	2.30	19.8	2.81	13.60	0.17	1.5	0.13	0.045	1.19	35.7	20.5	0.90	476
1166	414558	7266906	<0.005	0.11	5.98	7.0	760	1.19	0.13	1.52	0.36	72.2	12.6	79	2.35	21.1	3.06	13.85	0.16	1.8	0.16	0.045	1.20	35.0	20.2	0.93	942
1167	414902	7267147	0.006	0.13	5.51	7.2	820	1.26	0.13	1.64	0.30	58.4	9.5	72	2.13	20.8	2.72	12.45	0.16	1.5	0.11	0.037	1.16	30.6	17.4	0.86	466
1168	414914	7266944	<0.005	0.12	5.81	7.6	780	1.32	0.13	1.46	0.42	64.2	13.4	73	2.33	22.5	3.14	13.30	0.18	1.7	0.21	0.045	1.16	31.5	20.6	0.91	1035
1169	415270	7267008	<0.005	0.13	5.92	8.3	870	1.28	0.16	1.49	0.31	70.4	11.1	82	2.57	22.2	3.14	13.80	0.20	1.7	0.14	0.045	1.18	35.4	20.9	0.86	617
1170	415397	7266627	<0.005	0.10	5.86	7.9	760	1.24	0.14	1.40	0.45	61.7	13.5	73	2.37	24.1	3.22	13.60	0.17	1.6	0.19	0.046	1.18	30.8	18.7	0.92	1035
1172	415575	7266284	<0.005	0.10	5.83	7.1	770	1.19	0.13	1.45	0.35	62.7	12.6	75	2.26	22.4	3.10	13.40	0.18	1.6	0.14	0.044	1.20	31.6	18.6	0.90	953
1174	432511	7273180	<0.005	0.15	5.40	9.0	910	1.20	0.16	1.70	0.84	57.9	15.1	69	2.48	25.5	3.18	12.65	0.17	1.4	0.21	0.040	1.12	27.9	17.8	0.81	1980
1175	432532	7272963	<0.005	0.15	4.77	5.9	590	1.04	0.14	2.04	0.42	47.8	14.8	63	2.96	49.8	2.91	12.10	0.15	1.4	0.38	0.044	1.10	22.4	17.4	0.86	1645
1176	432759	7272850	<0.005	0.11	5.82	6.5	850	1.22	0.13	1.72	0.34	61.1	11.1	76	2.35	21.3	2.98	13.30	0.17	1.5	0.20	0.041	1.20	31.9	18.2	0.95	535
1177	433243	7272593	0.006	0.11	5.75	5.6	840	1.29	0.11	1.65	0.40	60.0	10.2	75	2.26	24.8	2.61	12.95	0.17	1.4	0.37	0.038	1.18	30.4	17.2	0.90	464
1178	433676	7272706	0.014	0.14	5.07	10.5	890	1.16	0.13	1.78	0.92	54.4	19.2	69	2.40	28.9	3.15	11.90	0.11	1.4	0.31	0.039	1.06	26.7	19.4	0.78	2370
1179	434068	7272582	<0.005	0.11	6.01	5.9	900	1.19	0.13	1.77	0.29	74.6	10.4	91	2.29	21.5	2.84	13.80	0.13	1.9	0.31	0.043	1.22	38.4	19.4	0.95	501
1180	434408	7272253	0.010	0.11	6.03	6.5	900	1.30	0.13	1.66	0.31	59.9	10.4	79	2.31	20.8	2.79	14.10	0.11	1.5	0.36	0.043	1.27	30.7	20.4	0.94	462

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1128	1.16	1.16	10.2	25.2	660	12.1	57.8	<0.002	0.02	1.08	1	1.60	202.0	0.73	<0.05	8.5	0.401	0.38	2.4	117	1.1	16.0	70	67.0	28	FA04030731
1129	1.80	0.93	10.0	30.7	740	14.7	61.2	<0.002	0.03	1.40	2	1.90	175.0	0.68	0.08	8.6	0.382	0.45	2.9	125	1.2	18.5	76	73.7	21	FA04030731
1130	0.90	0.60	9.8	45.4	1260	8.5	47.4	<0.002	0.09	0.82	2	1.50	130.0	0.67	0.05	5.9	0.377	0.26	1.9	89	0.8	19.1	88	63.6	15	FA04030731
1131	2.14	0.51	12.2	40.4	1380	10.3	56.8	<0.002	0.10	1.21	2	2.00	127.0	0.82	0.08	6.2	0.384	0.34	3.5	127	0.9	29.3	108	92.3	18	FA04030731
1133	2.38	0.70	17.2	49.5	1100	13.6	63.1	<0.002	0.05	1.33	2	2.00	146.5	1.15	0.12	7.5	0.590	0.39	3.9	164	1.2	28.0	107	117.5	24	FA04030731
1134	2.47	0.60	16.6	45.6	1120	13.7	62.2	<0.002	0.05	1.26	2	2.20	127.0	1.13	0.09	7.1	0.592	0.44	3.6	169	1.1	27.3	120	108.0	20	FA04030731
1135	2.52	0.73	14.2	49.4	1180	14.9	74.9	<0.002	0.05	1.49	2	3.10	153.0	1.12	0.10	7.0	0.497	0.43	3.6	165	1.3	24.7	101	104.5	20	FA04030731
1136	2.99	0.64	18.7	48.0	1260	15.6	66.1	0.002	0.05	1.48	2	2.40	138.5	1.41	0.11	7.1	0.640	0.43	3.9	181	1.2	29.3	127	131.0	22	FA04030731
1137	1.33	1.21	12.6	36.4	910	15.0	63.3	<0.002	0.03	1.44	2	1.80	224.0	1.02	0.06	9.4	0.469	0.39	2.7	131	1.2	21.8	88	91.5	63	FA04030731
1138	0.43	0.84	4.4	539.0	600	8.3	27.7	<0.002	0.05	1.70	1	1.50	125.5	0.40	0.05	3.7	0.269	0.15	1.0	116	0.6	9.6	96	34.3	13	FA04030731
1139	0.31	1.05	7.6	329.0	540	7.8	39.1	<0.002	0.03	1.08	1	1.30	173.5	0.63	<0.05	6.8	0.380	0.23	1.7	110	0.9	14.3	78	59.0	24	FA04030731
1140	0.29	1.23	5.1	323.0	510	6.8	29.1	<0.002	0.03	0.81	1	1.00	186.5	0.54	<0.05	4.0	0.378	0.16	1.1	153	0.6	13.0	108	43.7	30	FA04030731
1142	0.30	1.02	7.2	385.0	480	7.1	34.7	<0.002	0.02	1.04	1	1.10	164.5	0.59	<0.05	5.5	0.373	0.19	1.4	120	0.9	13.8	83	55.7	52	FA04030731
1143	0.34	0.92	6.7	352.0	550	7.7	36.5	<0.002	0.03	1.24	1	1.30	140.5	0.53	<0.05	4.9	0.374	0.21	1.4	123	0.7	12.8	96	50.8	21	FA04030731
1144	0.59	1.14	8.9	164.0	690	10.2	48.8	<0.002	0.03	1.04	1	1.40	194.5	0.72	<0.05	7.2	0.392	0.30	1.8	114	0.9	15.4	77	59.0	24	FA04030731
1145	0.53	1.10	8.2	206.0	650	9.5	44.6	<0.002	0.02	1.02	1	1.40	177.0	0.66	<0.05	7.3	0.396	0.29	1.8	118	5.5	14.6	79	60.2	28	FA04030731
1146	0.76	1.15	8.7	180.0	670	9.2	46.3	<0.002	0.02	1.28	1	1.40	157.0	0.65	<0.05	6.0	0.449	0.25	1.7	135	2.7	15.2	83	66.3	28	FA04030731
1147	0.41	0.89	6.7	327.0	640	8.1	43.8	<0.002	0.16	1.44	4	1.30	210.0	0.56	<0.05	5.5	0.283	0.28	1.8	94	0.8	20.5	65	46.0	28	FA04030731
1148	0.30	1.01	5.4	390.0	430	6.6	29.5	<0.002	0.10	1.42	2	1.10	184.0	0.44	<0.05	4.5	0.369	0.20	1.2	116	0.7	12.5	82	42.2	21	FA04030731
1150	0.45	1.10	7.1	277.0	470	9.4	42.7	<0.002	0.07	1.60	1	1.30	174.0	0.56	<0.05	5.8	0.363	0.28	1.6	114	0.8	14.5	71	54.9	25	FA04030731
1151	0.61	0.90	7.5	264.0	810	11.2	56.2	<0.002	0.09	1.55	2	2.60	164.0	0.58	<0.05	6.3	0.315	0.35	1.5	110	0.9	14.0	80	56.7	18	FA04030731
1153	1.01	1.13	8.6	33.3	810	13.8	61.6	<0.002	0.04	1.12	2	1.60	266.0	0.69	<0.05	7.5	0.357	0.38	2.4	110	1.0	18.8	118	70.0	65	FA04030731
1154	0.93	1.25	10.4	32.4	840	12.4	59.5	<0.002	0.03	1.20	1	1.70	238.0	0.81	<0.05	8.0	0.390	0.36	2.0	119	1.0	17.8	84	67.3	91	FA04030731
1155	0.83	1.30	9.5	31.7	840	12.1	57.7	<0.002	0.03	1.12	1	1.60	248.0	0.74	<0.05	7.6	0.372	0.36	2.0	119	0.9	17.0	83	64.7	53	FA04030731
1156	0.75	1.25	9.6	31.0	790	12.8	59.0	<0.002	0.03	1.12	1	1.60	236.0	0.75	<0.05	7.4	0.376	0.37	2.1	116	1.0	17.0	84	64.4	32	FA04030731
1157	1.34	0.97	8.4	39.5	1030	14.6	58.8	0.002	0.07	1.40	2	1.50	215.0	0.67	0.06	7.5	0.324	0.38	2.1	114	1.1	21.1	118	58.9	27	FA04030731
1160	2.06	0.97	11.6	42.9	1200	13.6	62.7	0.002	0.04	1.38	2	1.80	200.0	0.91	0.07	7.4	0.443	0.42	2.8	135	1.1	20.5	96	83.2	26	FA04030731
1161	0.90	1.21	9.7	30.7	870	12.4	56.4	0.002	0.04	1.05	2	1.80	231.0	0.75	<0.05	7.7	0.385	0.35	2.2	113	1.0	17.4	86	68.3	30	FA04030731
1162	1.36	1.17	10.8	35.3	970	13.2	57.0	<0.002	0.03	1.26	2	1.60	222.0	0.83	0.05	8.2	0.432	0.37	2.6	126	1.1	18.9	88	79.8	20	FA04030731
1163	0.87	1.29	10.6	27.9	830	12.0	54.5	<0.002	0.02	1.10	1	1.60	230.0	0.81	<0.05	8.5	0.399	0.33	2.2	112	1.0	18.0	71	71.0	29	FA04030731
1166	0.97	1.28	10.3	27.6	820	12.0	55.2	<0.002	0.03	1.00	1	1.60	228.0	0.78	0.05	8.3	0.444	0.32	2.4	116	1.3	18.8	81	82.2	26	FA04030731
1167	0.78	1.26	9.6	26.7	790	11.6	50.7	<0.002	0.02	1.06	1	1.50	226.0	0.76	<0.05	7.8	0.380	0.34	2.1	107	1.0	16.0	69	65.8	55	FA04030731
1168	0.99	1.18	9.6	28.9	820	11.7	54.3	<0.002	0.04	1.00	1	1.50	213.0	0.75	0.05	7.3	0.413	0.33	2.2	114	0.9	18.6	88	78.1	22	FA04030731
1169	1.05	1.16	11.0	29.2	790	13.1	57.0	<0.002	0.02	1.12	1	1.80	212.0	0.87	<0.05	8.9	0.431	0.36	2.4	122	1.3	18.6	79	74.9	23	FA04030731
1170	1.09	1.16	9.7	28.9	810	12.4	54.0	<0.002	0.03	1.00	1	1.90	205.0	0.76	<0.05	7.7	0.410	0.34	2.3	115	1.0	18.3	88	72.9	25	FA04030731
1172	1.06	1.20	9.5	27.5	780	11.4	53.5	<0.002	0.03	0.96	1	1.50	212.0	0.74	<0.05	7.5	0.407	0.33	2.2	114	1.0	18.1	82	71.4	25	FA04030731
1174	0.96	0.95	9.2	31.6	900	12.2	55.3	<0.002	0.05	1.54	2	1.50	175.5	0.74	0.05	7.3	0.364	0.38	2.2	114	0.9	16.6	95	61.5	26	FA04030731
1175	0.89	0.55	8.4	37.3	1280	10.0	53.0	<0.002	0.07	1.85	2	1.40	126.0	0.65	0.09	5.0	0.408	0.32	2.5	122	1.1	18.4	87	66.4	18	FA04030731
1176	0.69	1.24	10.6	28.8	790	11.2	55.0	<0.002	0.03	1.12	1	1.60	219.0	0.82	<0.05	7.7	0.415	0.33	2.1	118	1.1	17.2	77	64.5	28	FA04030731
1177	0.52	1.27	9.9	28.3	820	10.9	53.1	<0.002	0.02	1.19	1	1.50	223.0	0.78	<0.05	7.6	0.406	0.35	2.3	118	0.9	16.2	83	64.6	34	FA04030731
1178	0.91	1.02	8.6	32.6	1150	11.3	58.2	0.002	0.07	1.33	1	1.90	189.5	0.54	<0.05	6.7	0.340	0.33	2.0	110	1.2	16.0	97	63.0	11	FA04030731
1179	0.63	1.35	11.0	28.5	810	11.8	54.7	<0.002	0.02	1.17	1	1.50	237.0	0.72	<0.05	9.8	0.472	0.32	2.5	126	1.4	19.1	74	79.5	65	FA04030731
1180	0.65	1.35	10.6	27.0	780	12.2	55.8	<0.002	0.02	1.12	1	1.60	232.0	0.68	<0.05	7.8	0.418	0.34	2.2	120	1.2	17.0	76	69.0	52	FA04030731

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1181	436645	7269586	<0.005	0.10	6.09	8.4	770	1.18	0.15	1.42	0.18	71.6	9.5	90	2.60	15.3	2.99	15.05	0.12	1.6	0.13	0.045	1.22	37.9	20.7	0.92	391
1192	436346	7270945	<0.005	0.10	5.79	8.1	790	1.17	0.14	1.66	0.28	63.9	11.8	76	2.36	16.6	2.86	13.25	0.12	1.5	0.09	0.042	1.18	33.0	22.1	0.87	681
1194	435511	7270667	0.009	0.13	6.23	7.2	890	1.43	0.15	1.67	0.28	64.4	10.8	83	2.51	22.5	3.03	14.65	0.12	1.6	0.27	0.048	1.30	32.6	27.8	0.98	446
1195	435387	7270739	0.006	0.09	5.80	6.5	810	1.20	0.13	1.72	0.21	67.7	10.1	81	2.18	18.4	2.85	13.45	0.13	1.6	0.13	0.042	1.17	35.0	18.6	0.95	442
1197	434686	7270749	0.008	0.16	5.93	11.4	880	1.30	0.17	1.67	0.42	66.7	13.6	80	2.47	28.3	3.38	13.75	0.14	1.5	0.11	0.046	1.24	33.7	21.2	0.95	733
1198	434397	7270904	<0.005	0.14	5.47	9.6	1050	1.28	0.13	1.49	0.22	71.5	9.9	87	2.12	22.5	2.75	13.20	0.13	1.6	0.20	0.042	1.06	37.2	20.1	0.77	470
1199	445000	7273408	0.005	0.13	5.63	10.1	1170	1.13	0.16	0.94	0.32	57.2	10.0	84	3.24	25.1	3.07	13.80	0.10	1.6	0.53	0.045	1.22	29.2	20.0	0.77	393
1201	444969	7273027	0.007	0.13	5.49	8.6	980	1.22	0.14	1.24	0.63	55.5	22.8	90	2.86	22.5	3.60	13.50	0.12	1.6	0.26	0.040	1.03	27.5	20.9	0.77	1560
1202	445123	7272945	<0.005	0.20	6.02	9.9	1560	1.61	0.18	1.02	0.59	59.3	16.0	106	4.14	46.3	3.62	16.55	0.13	1.8	0.36	0.056	1.24	30.2	25.7	0.78	480
1203	445360	7272688	<0.005	0.13	5.22	6.5	900	1.18	0.13	1.14	0.30	54.1	11.0	75	2.40	25.4	2.65	12.10	0.12	1.5	0.24	0.038	0.97	26.9	19.4	0.74	506
1204	445762	7272512	0.005	0.14	5.56	7.0	980	1.35	0.14	1.22	0.39	61.2	13.6	82	2.60	24.6	2.99	13.60	0.12	1.6	0.18	0.043	1.08	31.9	24.5	0.84	562
1205	446195	7272533	<0.005	0.13	5.42	6.7	890	1.19	0.12	1.34	0.30	65.0	11.8	89	2.23	18.0	2.86	12.60	0.12	1.8	0.15	0.040	1.07	33.9	18.7	0.84	538
1206	446639	7272492	0.009	0.11	5.40	5.7	840	1.12	0.13	1.40	0.32	75.4	12.3	90	2.25	15.8	2.75	13.05	0.13	1.7	0.11	0.043	1.06	37.0	39.9	0.83	691
1207	447195	7272482	<0.005	0.10	5.59	7.7	980	1.13	0.13	1.34	0.44	63.8	15.4	83	2.56	21.2	3.04	13.65	0.13	1.7	0.30	0.043	1.14	32.1	19.8	0.88	901
1208	447597	7272492	<0.005	0.11	5.51	7.2	910	1.24	0.13	1.45	0.35	66.4	12.4	84	2.31	20.4	2.92	13.20	0.13	1.6	0.26	0.045	1.14	34.0	18.0	0.91	596
1211	446432	7273892	0.006	0.15	5.31	6.5	760	1.09	0.16	1.04	0.22	49.9	9.3	74	2.71	24.6	2.53	12.95	0.10	1.4	0.33	0.039	1.08	25.1	18.2	0.69	384
1213	447110	7273532	<0.005	0.14	5.10	9.1	750	1.13	0.18	0.82	0.24	53.1	11.0	71	2.87	27.7	2.65	12.80	0.09	1.1	0.36	0.042	1.08	28.2	18.8	0.65	492
1214	447370	7273213	0.005	0.18	5.88	9.9	880	1.29	0.19	1.02	0.36	64.7	19.0	80	3.20	27.0	3.37	14.80	0.12	1.5	0.42	0.048	1.20	32.8	21.5	0.76	1050
1215	453161	7252140	0.005	0.87	6.41	20.8	2940	1.49	0.19	1.04	1.99	77.5	16.6	120	4.06	59.2	3.75	16.80	0.19	2.3	1.95	0.061	1.48	44.1	35.2	0.83	660
1216	453049	7252577	<0.005	0.56	5.96	21.9	1490	1.35	0.16	1.29	1.16	60.5	16.9	114	3.54	44.5	3.56	15.45	0.15	1.8	0.65	0.054	1.22	33.8	31.0	0.87	761
1218	452679	7252981	<0.005	0.26	6.16	13.3	1000	1.20	0.15	1.10	0.43	71.6	10.0	98	3.80	24.3	3.07	15.30	0.13	1.8	0.48	0.055	1.22	36.8	36.3	0.73	441
1219	452533	7253430	<0.005	0.20	5.87	13.0	940	1.30	0.14	1.16	0.42	91.1	11.0	92	3.43	21.9	3.06	14.95	0.15	1.9	0.43	0.051	1.16	44.6	36.5	0.73	557
1220	452499	7253923	0.007	0.11	5.59	12.0	780	1.22	0.11	1.03	0.30	58.9	9.7	80	3.01	17.8	2.86	13.75	0.12	1.6	0.38	0.041	1.07	29.9	35.1	0.69	441
1221	452173	7254204	<0.005	0.14	6.00	12.4	840	1.32	0.14	1.06	0.33	69.5	11.1	84	3.28	20.3	3.04	14.40	0.13	1.6	0.35	0.046	1.20	35.7	33.8	0.74	494
1222	451616	7254493	0.008	0.12	5.76	9.0	730	1.20	0.13	1.36	0.31	98.0	12.4	97	2.70	16.0	3.08	14.00	0.16	2.0	0.32	0.049	1.14	47.4	24.6	0.84	687
1223	451241	7254428	0.006	0.12	5.60	10.6	740	1.16	0.12	1.12	0.25	80.4	10.1	84	2.85	16.8	2.86	13.65	0.14	1.7	0.25	0.044	1.08	40.4	29.4	0.75	490
1224	451017	7254675	0.006	0.10	5.94	9.7	770	1.12	0.12	1.28	0.26	70.4	10.5	90	2.78	17.4	3.01	14.65	0.14	1.8	0.25	0.046	1.16	36.0	30.0	0.83	514
1226	450732	7255002	<0.005	0.12	5.89	9.1	740	1.19	0.11	1.40	0.24	90.1	10.1	92	2.62	15.6	2.93	14.35	0.16	1.7	0.18	0.046	1.14	43.6	26.7	0.86	516
1227	450322	7255161	0.013	0.13	6.35	12.8	830	1.40	0.16	1.24	0.32	70.6	12.1	91	3.22	22.5	3.31	15.30	0.14	1.6	0.41	0.050	1.28	36.8	31.3	0.85	590
1229	447167	7243683	0.013	0.59	6.52	12.0	2080	1.66	0.23	1.56	1.23	67.6	14.4	80	4.61	48.7	3.11	16.70	0.16	2.1	0.93	0.052	1.92	34.8	32.1	0.76	2020
1230	446987	7243425	0.010	0.11	8.18	9.7	860	2.12	0.28	0.88	0.23	83.0	16.0	91	6.16	24.8	3.93	21.30	0.16	1.9	0.24	0.065	2.06	41.2	54.6	0.85	967
1232	446875	7243279	0.011	0.18	8.17	10.5	1220	2.54	0.31	0.69	0.24	94.9	19.2	94	5.59	38.2	3.93	22.60	0.19	2.1	0.49	0.064	2.25	46.2	72.1	0.79	678
1233	446572	7242898	0.011	0.18	7.20	7.8	1460	1.74	0.20	0.93	0.33	87.2	13.2	91	4.22	27.5	3.47	18.45	0.16	2.1	0.56	0.053	1.98	43.9	60.3	0.84	746
1234	446448	7242853	<0.005	0.58	6.63	11.3	1640	1.52	0.23	1.54	0.70	70.0	14.6	92	3.96	33.3	3.35	16.75	0.17	1.7	0.59	0.058	1.37	35.4	44.3	0.82	1315
1235	446302	7242774	0.008	0.43	5.72	9.8	2360	1.24	0.16	1.24	1.10	65.8	12.2	83	3.22	34.0	2.87	14.00	0.16	1.6	0.67	0.044	1.38	34.5	35.4	0.75	1250
1236	446347	7242404	0.010	0.48	6.09	12.0	2000	1.53	0.18	1.26	1.22	67.8	11.5	90	3.48	42.6	2.99	14.80	0.16	1.6	0.58	0.051	1.50	35.7	30.1	0.81	743
1238	446448	7242292	<0.005	0.30	6.30	12.2	2450	1.58	0.20	1.00	0.76	73.4	13.3	91	3.60	36.5	3.26	16.15	0.17	2.1	0.58	0.054	1.68	37.0	40.2	0.79	838
1240	446740	7242090	0.005	0.22	6.38	10.4	2110	1.51	0.18	1.08	0.59	77.6	13.6	91	3.40	31.6	3.33	15.75	0.15	1.9	0.37	0.048	1.66	39.2	40.0	0.86	754
1241	447010	7241728	0.007	0.26	6.37	9.3	1660	1.48	0.18	1.38	0.67	84.0	13.4	95	3.44	31.1	3.11	16.10	0.19	1.9	0.40	0.055	1.52	43.2	36.3	0.88	861
1242	447156	7241426	0.006	0.25	6.06	7.7	1460	1.39	0.16	1.29	0.60	73.6	12.0	85	3.00	28.4	2.90	14.55	0.16	1.7	0.30	0.047	1.46	37.3	32.2	0.84	771
1244	447088	7240764	0.006	0.25	6.48	8.6	1420	1.54	0.17	1.42	0.67	76.4	13.4	90	3.44	28.7	3.03	15.70	0.15	1.6	0.44	0.045	1.54	39.2	35.2	0.88	917
1245	448938	7251967	<0.005	0.10	6.26	7.9	690	1.21	0.18	0.96	0.15	72.1	10.4	91	3.25	17.2	3.01	15.30	0.14	1.6	0.13	0.048	1.21	35.9	26.8	0.84	474
1246	448915	7251519	<0.005	0.17	6.52	7.4	720	1.27	0.17	0.97	0.02	68.5	12.9	94	3.76	19.1	3.16	15.55	0.15	1.6	0.32	0.031	1.21	34.1	32.0	0.91	559

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1181	0.89	1.28	11.7	25.1	730	13.2	56.5	<0.002	0.03	1.59	1	1.80	214.0	0.76	<0.05	9.0	0.465	0.36	2.3	124	1.7	16.1	68	72.3	9	FA04030731
1192	0.95	1.27	9.2	24.3	740	12.5	56.1	<0.002	0.04	1.16	1	1.50	224.0	0.60	<0.05	8.2	0.382	0.33	2.1	113	1.1	15.6	86	66.3	42	FA04030731
1194	0.77	1.37	10.8	27.6	760	13.4	59.6	<0.002	0.03	1.16	1	1.70	236.0	0.70	<0.05	8.6	0.434	0.35	2.4	123	1.3	17.6	76	70.5	32	FA04030731
1195	0.71	1.32	10.8	26.3	710	11.6	53.1	<0.002	0.02	1.02	1	1.50	230.0	0.71	<0.05	8.7	0.444	0.31	2.3	116	1.4	17.5	68	74.1	63	FA04030731
1197	1.10	1.24	10.2	30.8	870	14.6	59.2	<0.002	0.03	1.34	1	1.70	220.0	0.64	<0.05	8.7	0.415	0.34	2.4	126	1.2	18.7	77	72.5	28	FA04030731
1198	0.98	1.20	10.0	25.7	820	12.2	47.9	<0.002	0.02	2.02	1	1.60	217.0	0.64	<0.05	8.7	0.425	0.28	2.6	124	1.0	18.0	63	72.2	74	FA04030731
1199	1.07	0.80	9.8	30.5	980	13.0	57.4	<0.002	0.03	1.15	1	1.70	146.5	0.63	<0.05	7.5	0.429	0.39	2.8	162	1.2	16.0	77	73.4	32	FA04030731
1201	0.99	0.91	10.2	38.6	900	11.5	48.3	<0.002	0.04	1.19	1	1.50	160.0	0.64	<0.05	6.4	0.463	0.35	2.4	142	1.0	16.8	98	71.2	33	FA04030731
1202	1.68	0.79	13.9	44.8	1360	13.1	61.5	<0.002	0.04	2.19	2	2.00	158.5	0.80	0.07	7.0	0.592	0.47	3.9	216	1.3	22.3	114	87.8	28	FA04030731
1203	0.69	0.90	8.9	28.2	1020	10.9	46.6	<0.002	0.02	1.21	1	1.40	166.5	0.59	<0.05	6.6	0.398	0.31	2.6	132	1.0	18.0	80	69.2	20	FA04030731
1204	0.86	0.98	10.1	32.1	900	12.4	53.1	<0.002	0.03	1.23	2	1.50	173.0	0.66	<0.05	7.5	0.445	0.34	2.5	138	1.2	17.2	88	71.7	32	FA04030731
1205	0.71	1.07	10.9	27.1	800	11.2	49.0	<0.002	0.02	1.09	1	1.60	184.5	0.75	<0.05	8.3	0.473	0.31	2.5	128	1.1	17.2	77	73.2	34	FA04030731
1206	0.68	1.12	11.2	27.6	740	11.2	51.0	<0.002	0.02	1.00	1	1.60	191.5	0.69	<0.05	9.0	0.476	0.31	2.5	121	1.6	17.4	85	76.2	24	FA04030731
1207	0.84	1.04	10.8	32.7	870	12.0	57.4	<0.002	0.03	1.16	2	1.70	182.0	0.68	<0.05	8.3	0.449	0.32	2.5	130	1.4	17.3	89	75.0	30	FA04030731
1208	0.76	1.08	10.7	30.9	840	11.5	54.4	<0.002	0.03	1.18	1	1.60	186.0	0.67	<0.05	8.4	0.452	0.32	2.4	126	1.4	16.5	91	69.1	20	FA04030731
1211	0.91	0.91	8.8	21.9	760	12.4	55.3	<0.002	0.05	1.12	1	1.60	157.0	0.55	0.05	6.5	0.347	0.37	2.6	131	1.0	14.6	90	64.9	18	FA04030731
1213	1.27	0.72	6.9	22.5	710	13.6	55.0	0.002	0.03	1.20	1	1.50	131.0	0.42	0.06	6.6	0.290	0.35	2.4	134	0.8	13.8	82	51.4	26	FA04030731
1214	1.28	0.87	8.9	27.4	970	14.5	66.8	<0.002	0.05	1.29	2	1.80	160.0	0.57	0.06	7.7	0.360	0.41	2.7	142	1.1	17.0	81	65.8	20	FA04030731
1215	5.27	0.53	11.4	52.2	1340	13.8	70.7	0.007	0.08	2.36	9	2.20	124.0	0.75	0.11	8.7	0.455	0.76	3.0	188	1.5	22.6	163	105.0	25	FA04030731
1216	4.69	0.54	9.9	44.1	1220	13.9	63.8	0.005	0.04	1.98	4	2.40	120.0	0.61	0.06	7.6	0.498	0.70	2.7	179	1.0	19.7	120	83.8	29	FA04030731
1218	2.13	0.83	13.9	27.1	890	13.8	66.7	0.002	0.03	1.81	2	2.00	158.5	0.85	<0.05	8.9	0.585	0.52	2.4	155	1.3	16.0	88	81.2	31	FA04030731
1219	2.14	0.80	14.8	27.5	860	12.8	61.8	0.002	0.02	1.63	2	1.90	163.0	0.87	<0.05	9.1	0.682	0.44	2.4	156	1.2	17.1	84	90.5	44	FA04030731
1220	1.60	0.80	12.0	25.0	720	11.6	57.3	0.002	0.02	1.64	1	1.80	139.5	0.70	<0.05	7.6	0.509	0.36	2.0	138	1.0	13.7	78	72.8	68	FA04030731
1221	1.54	0.89	12.5	25.9	780	13.4	62.0	<0.002	0.02	1.86	2	1.70	153.0	0.74	<0.05	9.3	0.478	0.42	2.1	139	1.1	14.8	81	69.0	33	FA04030731
1222	1.00	1.07	13.3	25.4	700	12.3	55.3	0.002	0.02	1.32	1	1.70	187.5	0.86	<0.05	12.4	0.597	0.35	2.6	126	1.6	18.2	74	84.8	78	FA04030731
1223	1.29	0.93	12.0	24.5	710	11.6	56.2	0.002	0.02	1.41	1	1.60	162.5	0.74	<0.05	9.7	0.532	0.35	2.1	130	1.7	15.6	71	72.8	68	FA04030731
1224	1.15	1.05	12.3	26.1	700	12.4	57.6	<0.002	0.02	1.35	1	1.80	177.0	0.78	<0.05	9.5	0.531	0.37	2.3	132	1.5	16.5	73	80.8	41	FA04030731
1226	1.11	1.12	12.8	25.5	730	11.4	55.7	<0.002	0.01	1.34	2	1.70	190.5	0.84	<0.05	10.9	0.557	0.32	2.3	128	1.1	17.0	71	76.5	65	FA04030731
1227	1.47	1.04	10.8	29.4	800	13.8	65.1	0.002	0.03	1.46	2	1.70	176.5	0.67	<0.05	9.9	0.448	0.40	2.4	141	1.0	17.2	82	72.0	36	FA04030731
1229	3.84	0.55	10.6	45.0	840	19.1	89.2	0.011	0.16	2.88	6	2.20	171.0	0.68	0.07	10.5	0.363	0.94	4.0	152	1.2	18.0	128	93.1	18	FA04030731
1230	1.05	1.06	12.7	29.8	570	22.4	107.5	<0.002	0.03	1.41	2	2.90	195.5	0.84	0.05	13.7	0.471	0.55	2.4	121	1.6	14.9	103	81.1	25	FA04030731
1232	1.67	0.81	13.2	51.2	690	21.1	114.0	0.003	0.05	2.45	2	2.50	208.0	1.04	0.05	15.3	0.453	0.65	2.9	121	1.5	17.4	102	96.6	21	FA04030731
1233	1.49	0.81	12.2	37.1	680	15.4	98.9	0.003	0.05	1.84	2	2.20	159.0	0.99	<0.05	13.4	0.459	0.61	2.9	120	1.2	17.4	122	94.1	28	FA04030731
1234	2.70	0.86	10.3	34.9	680	16.6	76.7	0.011	0.09	1.82	3	2.00	207.0	0.83	0.05	9.5	0.410	0.65	3.2	144	1.1	19.6	98	78.9	24	FA04030731
1235	4.19	0.79	9.2	44.1	920	13.2	67.2	0.005	0.09	2.23	4	1.80	173.5	0.75	0.06	8.7	0.400	0.74	2.9	149	1.2	17.7	215	74.5	24	FA04030731
1236	5.54	0.85	10.2	42.5	930	15.8	70.2	0.005	0.10	3.01	4	1.80	184.0	0.82	0.06	9.1	0.408	0.81	3.1	166	1.1	17.6	151	73.9	21	FA04030731
1238	4.99	0.72	11.5	44.0	940	15.2	81.5	0.005	0.08	2.70	3	2.30	156.0	0.91	0.06	10.5	0.431	0.74	3.1	164	1.2	18.4	168	87.6	25	FA04030731
1240	3.80	0.76	11.2	42.7	870	14.2	78.0	0.003	0.06	2.16	3	2.10	157.5	0.94	0.06	11.1	0.441	0.68	2.8	148	1.1	17.3	123	79.8	38	FA04030731
1241	3.11	0.96	12.0	39.3	830	15.0	75.3	0.003	0.07	2.02	3	2.00	186.0	0.94	0.05	11.3	0.457	0.65	3.0	137	1.3	19.4	126	86.6	25	FA04030731
1242	2.79	0.95	10.6	35.8	780	13.1	68.6	0.003	0.06	1.80	2	1.80	176.5	0.86	<0.05	10.0	0.420	0.59	2.7	129	1.1	16.9	126	71.4	27	FA04030731
1244	2.69	0.99	10.6	39.0	790	14.4	73.7	0.004	0.07	1.91	3	2.00	188.0	0.81	<0.05	10.3	0.407	0.65	2.8	134	1.3	17.5	168	73.4	20	FA04030731
1245	1.03	1.11	11.1	26.6	620	14.2	66.5	<0.002	0.03	0.85	1	2.10	161.5	0.94	<0.05	9.5	0.464	0.45	2.2	128	1.4	14.6	77	68.8	21	FA04030731
1246	1.00	1.15	11.0	30.2	600	13.8	67.0	0.002	0.03	0.81	1	7.50	166.5	0.87	<0.05	8.4	0.485	0.44	2.1	134	1.2	16.0	111	69.3	21	FA04030731

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1247	448837	7251418	<0.005	0.12	6.35	6.9	710	1.13	0.15	1.10	0.23	61.4	13.2	87	3.16	19.4	3.12	14.95	0.14	1.5	0.25	0.049	1.22	30.3	28.7	0.93	519
1248	449027	7251070	0.005	0.09	5.93	6.1	650	1.03	0.12	1.22	0.18	65.9	11.2	87	2.47	14.2	3.09	13.35	0.15	1.5	0.25	0.042	1.07	33.0	24.0	0.91	491
1249	449162	7250790	0.006	0.13	6.37	9.2	760	1.27	0.14	1.18	0.23	65.2	11.5	81	2.91	16.9	3.31	14.90	0.15	1.4	0.21	0.046	1.26	32.0	25.2	0.89	404
1250	441892	7252055	<0.005	0.27	6.86	10.4	820	1.23	0.21	1.04	0.27	63.6	14.4	97	3.42	27.9	3.62	16.80	0.15	1.5	0.18	0.053	1.26	31.5	30.1	0.98	807
1251	442054	7251586	<0.005	0.17	6.61	8.4	750	1.25	0.17	1.10	0.38	68.3	13.6	96	4.64	31.2	3.30	15.60	0.16	1.6	0.29	0.050	1.27	34.4	34.0	0.96	791
1252	442330	7251028	0.009	0.12	6.50	7.6	770	1.40	0.15	1.42	0.23	63.9	11.4	80	3.19	22.2	3.02	15.25	0.15	1.4	0.21	0.045	1.32	32.7	26.7	0.96	811
1253	452096	7238402	0.011	0.10	6.66	7.7	690	1.40	0.19	0.84	0.33	92.3	19.2	85	3.16	16.8	3.12	16.40	0.16	2.0	0.12	0.048	1.62	45.1	35.3	0.77	810
1254	451860	7238671	<0.005	0.08	7.73	10.2	870	1.99	0.21	0.73	0.35	86.1	17.7	81	3.39	24.3	3.94	19.80	0.19	1.9	0.19	0.057	2.11	43.6	51.2	0.87	946
1256	451434	7238682	<0.005	0.08	7.20	6.9	780	1.72	0.21	1.01	0.22	87.8	16.6	84	3.44	23.2	3.36	18.05	0.18	2.0	0.15	0.051	1.81	43.7	42.4	0.85	706
1257	450996	7238660	0.008	0.08	7.22	6.7	750	1.69	0.19	0.75	0.19	99.2	15.6	81	3.08	20.0	3.42	17.85	0.20	2.7	0.33	0.048	1.91	49.4	45.7	0.82	511
1258	450558	7238592	<0.005	0.07	6.37	6.6	670	1.30	0.15	1.26	0.17	79.8	11.9	81	2.50	18.8	2.89	15.20	0.17	1.7	0.14	0.046	1.46	40.5	28.6	0.88	530
1259	450165	7238581	<0.005	0.08	6.69	7.2	750	1.51	0.17	1.12	0.22	85.9	14.0	78	2.72	19.8	3.21	16.05	0.18	2.1	0.18	0.045	1.62	42.8	37.0	0.84	777
1260	449739	7238538	<0.005	0.09	6.60	7.3	740	1.34	0.16	1.40	0.22	72.7	12.8	79	2.54	20.7	3.05	15.30	0.16	1.5	0.16	0.046	1.46	36.3	29.4	0.89	817
1261	449271	7238446	0.007	0.09	6.40	6.5	730	1.32	0.16	1.40	0.29	66.4	12.6	77	2.57	20.1	2.95	15.40	0.16	1.6	0.21	0.046	1.50	32.9	29.3	0.89	708
1263	449029	7238547	<0.005	0.17	6.16	20.8	820	1.62	0.23	0.42	0.14	79.6	12.6	85	3.57	36.5	3.24	16.60	0.17	1.9	0.33	0.049	1.69	38.8	35.7	0.78	437
1264	450917	7237078	0.005	0.10	6.73	8.0	780	1.39	0.20	0.94	0.33	78.7	15.5	83	3.64	18.8	3.16	16.30	0.18	1.9	0.25	0.048	1.52	38.9	35.5	0.80	1110
1265	450738	7237403	<0.005	0.06	6.57	6.7	730	1.33	0.16	0.86	0.21	90.5	14.4	79	3.41	14.9	2.88	16.20	0.17	2.2	0.14	0.045	1.58	42.5	33.6	0.78	722
1266	450479	7237740	0.014	0.09	6.77	7.1	770	1.47	0.18	0.89	0.29	87.3	15.8	80	3.47	18.8	3.06	16.55	0.18	2.0	0.21	0.049	1.60	42.9	37.5	0.79	886
1268	450030	7237886	0.011	0.08	6.71	6.5	750	1.55	0.17	1.10	0.25	112.5	15.1	91	3.18	19.4	3.28	17.15	0.19	2.4	0.17	0.049	1.61	52.9	34.5	0.89	775
1269	449637	7237930	<0.005	0.07	6.75	6.0	780	1.45	0.18	1.04	0.21	110.5	14.0	83	3.16	18.0	3.24	16.45	0.20	2.3	0.14	0.047	1.62	52.6	31.6	0.87	668
1270	449143	7237953	<0.005	0.09	6.81	7.2	770	1.53	0.18	0.97	0.20	96.4	14.2	76	3.25	19.0	3.29	16.75	0.17	2.2	0.13	0.049	1.68	47.2	32.1	0.86	703
1271	448559	7238256	<0.005	0.07	6.54	7.3	750	1.46	0.15	0.75	0.14	98.6	14.0	67	2.86	16.0	3.35	16.10	0.18	2.5	0.15	0.042	1.72	47.4	31.7	0.81	680
1272	448391	7238424	0.016	0.09	6.61	7.7	770	1.44	0.15	1.60	0.18	64.3	12.1	79	2.26	20.0	3.15	15.10	0.15	1.4	0.36	0.044	1.40	32.5	23.4	1.01	570
1273	448683	7238424	<0.005	0.14	6.09	11.1	810	1.50	0.17	1.37	0.24	87.7	14.8	92	2.65	24.3	3.20	16.10	0.10	2.4	0.37	0.052	1.42	44.0	33.1	0.95	658
1310	408146	7262784	0.010	0.27	6.51	14.2	880	1.56	0.27	0.78	0.46	71.0	24.4	96	4.25	49.1	3.72	18.00	0.09	2.4	0.22	0.060	1.32	34.5	28.0	0.83	1525
1313	408146	7261964	0.006	0.47	6.56	14.1	920	1.54	0.29	0.83	0.74	70.8	21.6	93	4.32	59.7	3.76	17.25	0.09	2.3	0.31	0.061	1.37	34.9	26.4	0.84	1415
1314	408206	7261562	0.009	0.30	5.44	12.9	880	1.41	0.22	0.72	0.88	63.6	12.5	84	3.88	62.4	3.27	14.25	0.08	2.1	0.34	0.050	1.11	30.7	19.8	0.67	724
1315	408213	7261174	0.016	0.30	5.34	13.6	1190	1.46	0.20	0.93	1.14	68.0	16.4	98	4.05	62.7	3.75	14.15	0.09	2.4	0.22	0.050	1.14	33.1	20.1	0.72	1080
1316	408258	7260802	0.013	0.29	5.40	14.2	1240	1.44	0.20	1.04	1.64	75.9	22.1	106	4.39	67.1	3.98	14.55	0.12	2.0	0.31	0.052	1.12	34.8	21.6	0.79	1725
1318	409429	7262851	0.006	0.19	6.00	10.4	790	1.15	0.20	0.91	0.24	61.1	17.5	87	3.08	28.5	3.21	15.10	0.07	2.1	0.14	0.047	1.16	30.4	22.8	0.83	791
1319	409593	7262426	0.012	0.28	5.89	11.4	840	1.36	0.22	0.85	0.43	65.2	16.1	86	3.38	41.5	3.32	15.10	0.08	2.2	0.24	0.051	1.24	32.2	23.2	0.79	956
1320	409586	7261994	0.017	0.32	5.39	11.8	830	1.38	0.22	0.79	0.46	64.1	15.0	86	3.19	45.7	3.19	14.95	0.08	2.3	0.16	0.052	1.14	30.9	22.4	0.70	840
1321	409720	7261584	0.010	0.30	5.53	11.4	1040	1.39	0.19	1.04	0.95	71.5	19.0	81	3.72	50.3	3.22	14.00	0.09	2.0	0.25	0.050	1.08	33.2	24.1	0.74	1265
1322	410108	7261226	0.015	0.24	5.89	10.8	1000	1.40	0.19	1.30	0.90	74.9	19.6	100	3.32	42.7	3.57	14.35	0.10	2.1	0.17	0.053	1.12	35.2	25.8	0.94	1270
1323	411666	7242164	0.011	0.41	5.59	10.2	650	1.20	0.30	0.74	0.29	57.5	10.0	80	6.41	27.3	2.62	15.00	0.08	1.8	0.22	0.048	1.10	28.1	28.1	0.72	436
1324	411372	7242364	<0.005	0.20	5.48	7.2	650	1.11	0.24	0.97	0.20	65.5	10.8	88	5.74	19.5	2.53	14.50	0.09	1.8	0.11	0.049	1.16	33.2	27.0	0.86	525
1325	410948	7242317	<0.005	0.19	6.07	8.1	730	1.20	0.16	1.24	0.21	81.5	13.8	112	3.95	19.1	3.16	14.65	0.11	2.1	0.18	0.051	1.34	40.2	30.4	1.08	741
1327	410442	7242129	0.007	0.16	5.86	8.1	720	1.28	0.15	1.21	0.29	75.9	14.2	94	3.54	19.0	2.94	14.50	0.10	2.1	0.18	0.048	1.22	37.7	27.5	0.99	760
1328	409819	7242176	0.024	0.15	5.51	9.8	700	1.24	0.15	1.43	0.36	108.5	25.3	110	2.76	15.8	3.15	13.90	0.14	2.7	0.38	0.049	1.13	52.1	23.4	0.92	1500
1329	409348	7241987	<0.005	0.14	5.90	9.3	780	1.29	0.14	1.40	0.39	68.4	23.1	84	2.82	16.3	3.03	14.20	0.10	2.0	0.28	0.045	1.22	33.2	23.4	0.94	1655
1330	408983	7241646	0.014	0.15	6.14	8.5	780	1.31	0.13	1.55	0.29	76.8	13.0	89	2.76	15.6	3.20	14.00	0.11	2.2	0.24	0.046	1.24	38.1	23.8	1.00	745
1331	409101	7239624	<0.005	0.19	6.10	6.1	740	1.50	0.17	1.62	0.20	87.7	10.2	71	4.88	13.8	2.85	14.90	0.11	1.7	0.24	0.047	1.28	43.5	25.7	1.05	404
1332	408724	7239977	0.008	0.15	7.16	14.4	790	1.97	0.23	2.14	0.21	140.0	14.4	98	5.81	15.4	4.34	17.10	0.17	2.1	0.24	0.067	1.79	66.2	31.7	1.34	895

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1247	0.84	1.23	10.3	30.0	570	14.0	60.5	<0.002	0.04	0.88	1	1.90	183.5	0.81	<0.05	7.6	0.448	0.42	1.9	127	1.0	16.3	83	61.2	33	FA04030731
1248	0.62	1.26	10.2	26.1	530	11.2	51.9	<0.002	0.02	0.74	1	1.60	181.5	0.84	<0.05	8.8	0.474	0.33	2.0	116	1.0	15.7	78	62.7	23	FA04030731
1249	0.65	1.22	9.9	28.7	690	13.7	63.0	<0.002	0.05	0.85	1	1.70	190.0	0.80	<0.05	8.2	0.426	0.39	2.0	121	1.0	16.6	73	60.8	42	FA04030731
1250	1.16	1.04	10.2	36.7	780	15.0	71.1	<0.002	0.04	1.00	2	2.00	160.0	0.83	<0.05	8.5	0.450	0.49	2.2	143	1.2	18.4	88	65.4	20	FA04030731
1251	1.00	1.13	10.4	39.5	700	13.8	65.2	<0.002	0.03	0.93	2	1.70	171.0	0.79	<0.05	8.6	0.450	0.41	2.1	138	1.1	19.4	95	68.2	21	FA04030731
1252	0.76	1.32	10.4	31.5	610	13.0	64.0	<0.002	0.02	0.99	1	1.80	215.0	0.82	<0.05	8.5	0.434	0.37	1.9	121	1.1	17.0	74	61.9	28	FA04030731
1253	0.66	0.95	9.8	27.5	520	17.2	83.4	<0.002	0.03	0.88	1	2.80	145.0	0.82	<0.05	13.0	0.403	0.49	3.0	96	1.3	15.7	81	85.4	27	FA04030731
1254	0.74	0.96	14.6	41.5	580	19.7	104.5	<0.002	0.03	0.73	1	3.00	142.5	1.15	<0.05	13.5	0.426	0.53	2.8	106	1.1	17.0	118	83.6	21	FA04030731
1256	0.57	0.95	13.0	35.7	560	18.2	93.3	<0.002	0.05	0.68	1	2.30	168.5	1.05	<0.05	13.1	0.438	0.52	4.0	104	1.1	18.0	87	84.3	24	FA04030731
1257	0.52	0.93	13.8	34.9	480	15.6	94.9	<0.002	0.02	0.61	1	3.10	147.0	1.08	<0.05	16.3	0.443	0.49	3.9	95	1.3	18.9	84	112.0	19	FA04030731
1258	0.47	1.12	11.4	29.4	520	13.9	71.4	<0.002	0.03	0.79	1	1.80	190.5	0.91	<0.05	11.5	0.432	0.40	2.9	97	1.2	17.1	72	75.8	19	FA04030731
1259	0.56	0.99	14.6	32.1	530	15.1	83.4	<0.002	0.05	0.71	1	2.00	176.0	1.32	<0.05	13.8	0.421	0.46	3.5	97	1.1	18.2	78	87.0	21	FA04030731
1260	0.55	1.15	8.9	29.7	530	14.4	71.9	<0.002	0.04	0.81	1	1.80	205.0	0.74	<0.05	10.8	0.365	0.40	2.8	101	1.1	16.8	72	67.3	48	FA04030731
1261	0.54	1.13	10.8	30.0	590	14.8	75.6	<0.002	0.06	0.83	1	1.80	213.0	0.87	<0.05	9.8	0.403	0.40	2.7	97	1.0	16.2	90	69.9	16	FA04030731
1263	0.94	0.91	14.6	43.7	620	19.8	79.8	0.004	1.15	0.73	2	2.10	103.0	1.18	<0.05	10.7	0.415	0.44	4.0	105	1.0	18.4	80	86.1	29	FA04030731
1264	0.78	0.96	9.2	30.0	510	19.5	86.3	<0.002	0.04	0.80	1	2.30	161.0	0.78	<0.05	11.2	0.377	0.52	5.2	102	1.1	16.9	89	79.1	20	FA04030731
1265	0.56	1.02	10.0	26.6	420	17.2	82.6	<0.002	0.03	0.76	1	1.80	152.0	0.84	<0.05	13.5	0.399	0.48	3.6	92	1.2	16.3	76	90.3	30	FA04030731
1266	0.61	1.00	10.6	31.5	490	18.0	85.1	<0.002	0.03	0.81	1	1.90	168.0	0.86	<0.05	12.5	0.399	0.47	3.9	96	1.0	17.2	89	86.4	18	FA04030731
1268	0.56	1.06	14.1	32.8	580	16.6	80.1	<0.002	0.03	0.81	1	2.10	186.0	1.09	<0.05	16.3	0.494	0.44	3.9	100	1.2	20.6	77	106.5	9	FA04030731
1269	0.48	1.04	13.8	30.5	530	15.8	80.7	<0.002	0.03	0.72	1	2.00	169.5	1.12	<0.05	15.5	0.479	0.43	3.3	97	1.3	18.9	84	98.8	28	FA04030731
1270	0.53	1.00	12.8	30.7	550	16.4	83.4	<0.002	0.03	0.71	1	2.00	163.0	1.02	<0.05	14.5	0.432	0.45	3.4	95	1.1	18.2	80	91.9	35	FA04030731
1271	0.52	0.96	13.0	29.1	490	13.2	81.0	<0.002	0.02	0.78	1	1.90	130.0	1.06	<0.05	14.5	0.428	0.41	2.9	87	1.0	16.7	77	98.4	17	FA04030731
1272	0.65	1.39	10.4	29.1	600	13.5	62.4	<0.002	0.04	1.06	1	1.80	235.0	0.93	<0.05	9.0	0.428	0.35	2.1	108	1.2	15.8	71	61.0	18	FA04030731
1273	0.68	1.29	11.7	33.1	590	16.7	72.5	<0.002	0.17	1.10	2	2.10	207.0	0.91	<0.05	11.8	0.464	0.41	2.9	108	1.2	17.7	86	87.2	33	FA04030731
1310	2.84	0.99	11.0	32.2	960	19.2	88.7	<0.002	0.05	1.64	2	2.30	158.5	0.79	0.10	9.4	0.434	0.61	3.6	172	1.5	20.0	106	90.1	22	FA04030731
1313	3.39	0.95	10.6	36.2	1080	19.6	85.2	<0.002	0.05	1.77	2	2.60	159.0	0.81	0.10	9.3	0.425	0.59	4.1	189	1.4	20.8	128	85.9	20	FA04030731
1314	3.19	0.74	9.1	37.6	940	15.2	64.7	<0.002	0.05	2.31	2	1.90	136.0	0.67	0.11	8.0	0.454	0.51	4.2	198	1.2	23.3	122	79.7	14	FA04030731
1315	2.86	0.74	11.0	46.8	1020	15.8	62.4	<0.002	0.04	2.68	2	1.80	143.0	0.80	0.10	8.1	0.683	0.57	4.3	222	1.3	24.2	181	92.4	22	FA04030731
1316	2.73	0.70	9.2	53.6	1240	14.4	62.5	<0.002	0.04	2.48	2	2.00	144.5	0.67	0.09	7.9	0.599	0.59	4.2	221	1.1	29.0	202	74.8	19	FA04030731
1318	1.80	1.12	9.7	25.1	750	14.6	63.2	<0.002	0.03	1.29	1	2.00	168.5	0.73	0.07	8.2	0.396	0.43	3.0	144	1.1	16.4	82	74.9	18	FA04030731
1319	2.12	0.97	9.7	30.5	890	15.8	73.5	<0.002	0.03	1.54	2	2.00	155.5	0.74	0.08	8.6	0.402	0.46	3.3	163	1.2	18.7	106	80.1	18	FA04030731
1320	2.21	0.87	9.7	31.7	830	15.4	68.3	<0.002	0.03	1.84	2	2.00	145.5	0.74	0.09	8.4	0.416	0.46	3.3	169	1.2	19.0	111	84.8	27	FA04030731
1321	1.87	0.83	8.7	39.3	950	15.1	65.1	<0.002	0.04	1.64	2	1.90	151.0	0.66	0.08	7.7	0.378	0.48	3.2	162	1.1	27.7	132	74.2	17	FA04030731
1322	1.53	1.01	10.0	43.8	970	14.4	62.6	<0.002	0.04	1.60	2	1.80	177.0	0.71	0.08	8.3	0.461	0.46	2.8	155	1.1	28.2	132	79.5	16	FA04030731
1323	0.91	0.93	8.7	29.8	850	16.8	62.5	<0.002	0.06	1.31	2	2.20	144.5	0.66	0.06	7.0	0.371	0.43	2.3	102	2.5	11.8	69	63.8	22	FA04030731
1324	0.80	1.12	9.6	29.0	580	14.4	59.8	<0.002	0.03	1.24	2	2.60	166.5	0.72	<0.05	7.7	0.447	0.42	2.0	106	1.8	12.0	72	62.9	26	FA04030731
1325	0.84	1.37	11.2	34.0	680	14.6	61.3	<0.002	0.02	1.23	2	2.00	187.0	0.85	<0.05	9.5	0.591	0.39	2.2	139	1.6	16.2	96	73.2	58	FA04030731
1327	0.86	1.36	10.7	32.8	670	14.4	61.3	<0.002	0.02	1.22	1	1.90	192.0	0.83	0.05	8.9	0.486	0.37	2.1	121	1.3	16.2	84	71.4	39	FA04030731
1328	0.98	1.31	12.2	29.5	790	13.6	56.5	<0.002	0.02	1.16	2	1.90	210.0	0.93	<0.05	12.8	0.545	0.34	2.7	121	1.5	19.3	81	94.2	23	FA04030731
1329	0.83	1.39	9.7	29.2	770	13.2	61.4	<0.002	0.03	1.26	1	1.70	218.0	0.76	<0.05	9.0	0.424	0.38	2.1	115	1.2	15.4	78	69.9	32	FA04030731
1330	0.73	1.52	10.6	29.3	810	12.5	57.6	<0.002	0.03	1.16	1	1.80	242.0	0.79	<0.05	9.5	0.469	0.37	2.2	115	1.2	17.1	76	75.9	42	FA04030731
1331	0.52	1.52	13.7	22.2	1280	14.2	72.6	<0.002	0.02	0.99	1	2.20	283.0	0.99	<0.05	12.8	0.418	0.44	3.5	112	1.3	16.8	71	59.4	50	FA04030731
1332	0.94	1.66	29.7	24.7	2340	16.3	80.1	<0.002	0.03	1.24	2	3.60	339.0	2.35	<0.05	36.2	0.754	0.48	6.7	179	1.7	23.3	122	63.5	36	FA04030731

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1333	408277	7240059	0.005	0.19	5.79	14.3	710	1.55	0.18	1.47	0.40	102.5	23.2	76	3.91	18.8	3.76	14.20	0.14	1.9	0.31	0.051	1.16	48.7	25.5	0.96	1630
1335	407512	7239777	<0.005	0.15	6.28	6.0	780	1.39	0.15	1.59	0.25	93.1	11.7	86	3.97	17.6	3.02	14.45	0.12	2.0	0.69	0.050	1.16	45.2	27.5	1.06	715
1336	407712	7239659	0.006	0.19	5.62	9.8	650	1.16	0.17	1.10	0.22	85.9	11.1	82	5.04	16.1	2.79	14.45	0.13	1.8	0.15	0.048	1.14	42.8	31.0	0.90	710
1337	407830	7239894	0.010	0.21	5.09	44.8	720	1.34	0.16	1.32	0.68	90.6	35.5	72	3.12	16.2	6.45	12.35	0.16	1.7	0.59	0.044	1.04	41.8	22.1	0.79	3120
1428	443523	7267156	0.012	0.26	5.21	10.6	660	1.12	0.18	0.76	0.18	62.1	7.7	85	3.10	23.6	2.63	14.55	0.09	2.0	0.35	0.047	1.14	31.3	20.5	0.71	274
1429	443585	7267074	0.061	0.36	4.75	7.4	590	1.01	0.18	0.62	0.17	48.5	5.4	73	3.44	23.5	1.94	12.50	0.09	1.6	0.75	0.034	1.09	24.6	15.9	0.57	187
1430	443337	7266755	0.110	0.28	4.56	13.0	580	0.99	0.15	0.70	0.24	54.5	7.2	69	2.58	18.2	2.32	12.05	0.11	1.7	0.72	0.036	0.98	26.5	17.2	0.59	213
1431	443049	7266363	0.010	0.26	4.98	8.4	660	0.94	0.18	0.71	0.12	55.0	6.4	77	2.80	23.2	4.51	14.15	0.12	1.9	0.35	0.043	1.07	26.8	19.7	0.60	210
1434	442770	7266106	<0.005	0.15	5.17	8.9	710	1.28	0.15	1.11	0.32	64.6	16.2	84	2.95	22.7	2.73	13.95	0.12	2.1	0.34	0.047	1.22	30.8	23.1	0.85	1050
1435	442570	7265896	0.029	0.24	3.23	36.7	420	0.80	0.14	0.42	0.29	44.2	8.5	47	1.90	27.1	8.77	8.29	0.18	1.2	0.57	0.037	0.62	20.5	13.4	0.37	150
1436	433051	7256320	0.014	0.63	5.96	8.7	720	1.26	0.19	1.14	0.41	57.1	15.3	97	11.35	38.2	3.25	15.90	0.14	1.9	0.48	0.055	1.12	29.3	39.2	1.01	638
1438	433480	7256134	0.013	0.19	5.90	6.8	760	1.25	0.13	1.54	0.31	64.8	13.5	88	3.48	19.7	2.86	14.50	0.12	1.9	0.26	0.045	1.23	32.0	25.1	1.06	683
1439	433602	7256498	0.011	0.19	6.09	7.2	740	1.27	0.13	1.66	0.24	87.9	12.7	125	2.97	20.0	3.23	14.40	0.15	2.5	0.30	0.049	1.14	42.6	24.9	1.16	606
1440	433804	7255980	<0.005	0.14	6.18	7.3	830	1.25	0.13	1.51	0.24	61.0	12.4	81	2.65	17.6	2.92	14.65	0.12	1.8	0.21	0.045	1.28	30.6	24.2	1.01	562
1441	433804	7255980	0.005	0.15	5.95	8.6	780	1.36	0.14	1.54	0.24	66.6	12.3	84	2.47	20.9	2.98	14.30	0.13	1.9	0.20	0.046	1.20	32.5	23.1	1.02	518
1442	434104	7255729	0.019	0.17	5.55	15.4	820	1.27	0.13	1.50	0.41	59.7	23.8	76	2.52	21.0	4.72	13.35	0.16	1.7	0.52	0.044	1.19	28.6	20.9	0.93	2180
1444	434970	7255357	0.026	1.34	6.57	16.0	860	1.23	0.54	1.12	1.86	65.1	17.8	87	7.15	41.9	3.23	16.70	0.13	1.8	0.55	0.096	1.26	31.7	30.2	0.95	1180
1445	434978	7255503	0.012	0.34	6.10	7.4	670	1.08	0.87	1.34	0.30	73.8	13.9	107	4.40	22.4	2.97	15.40	0.15	2.0	0.30	0.066	1.25	36.8	24.5	1.06	553
1447	435035	7255867	0.014	0.23	5.29	5.9	620	1.11	0.62	1.12	0.47	63.1	11.5	91	3.58	18.6	2.55	13.75	0.13	1.9	0.17	0.057	1.12	30.5	20.7	0.94	477
1448	435067	7256093	0.005	0.22	5.73	8.4	740	1.30	0.36	1.36	0.56	66.9	12.5	85	3.07	22.3	2.76	15.20	0.14	2.0	0.32	0.054	1.29	33.0	24.4	0.98	490
1449	435003	7256199	0.015	0.25	5.61	8.2	740	1.12	0.38	1.29	0.55	63.7	13.0	86	3.17	21.1	2.71	14.50	0.14	1.8	0.34	0.051	1.26	30.3	23.7	0.94	580
1450	434841	7256288	0.012	0.17	5.66	8.5	740	1.13	0.16	1.44	0.34	70.2	12.8	87	2.89	19.8	2.88	14.55	0.14	2.0	0.38	0.046	1.23	34.9	24.5	1.00	616
1451	433142	7254686	0.016	0.22	6.04	15.8	740	1.20	0.34	1.26	0.51	69.9	19.7	93	5.04	24.2	3.32	15.20	0.17	1.9	1.77	0.054	1.24	33.0	34.5	1.10	1560
1454	433796	7255098	0.009	0.17	5.94	13.0	690	1.18	0.35	1.24	0.40	70.0	16.4	95	4.47	21.4	3.09	15.30	0.15	2.0	0.37	0.052	1.24	34.3	34.1	1.08	894
1457	434096	7255373	0.008	0.17	5.61	10.9	650	1.14	0.18	1.26	0.33	77.8	14.4	100	3.84	16.9	2.90	14.65	0.17	2.1	0.23	0.050	1.16	37.6	31.6	1.02	797
1460	434371	7255802	0.014	0.19	5.59	11.0	670	1.13	0.19	1.24	0.43	63.1	14.7	89	3.88	20.8	2.79	14.45	0.16	1.9	0.37	0.048	1.17	30.8	29.2	0.97	815
1461	434622	7256077	0.017	0.14	6.03	9.2	790	1.32	0.15	1.54	0.32	69.9	12.5	88	2.71	20.2	2.99	14.85	0.15	2.0	0.41	0.048	1.24	35.1	24.5	1.02	604
1463	430447	7257229	0.047	0.36	5.44	10.9	630	1.04	0.34	0.99	0.49	51.5	17.9	89	5.36	22.3	2.96	14.05	0.14	1.8	0.24	0.060	1.14	25.0	23.7	0.98	1090
1464	430868	7257559	0.017	0.85	5.73	91.7	630	1.16	7.28	0.89	0.51	58.5	20.4	97	8.56	33.3	3.48	15.25	0.18	1.6	0.39	0.127	1.38	27.8	27.5	1.04	1230
1465	431165	7257778	0.028	1.62	6.25	11.2	700	1.21	0.26	1.12	0.55	56.3	15.6	97	15.60	49.2	3.63	15.80	0.20	2.0	0.57	0.073	1.28	30.8	40.3	1.14	854
1466	431271	7257885	0.297	0.67	5.92	188.5	610	1.21	7.57	0.88	0.21	65.4	19.6	101	7.42	34.3	4.06	15.80	0.18	1.9	0.32	0.115	1.41	31.8	25.8	0.96	1015
1468	431271	7257885	0.041	0.69	5.55	9.1	590	1.03	0.25	0.92	0.40	55.5	12.4	101	8.66	22.8	3.00	14.70	0.16	1.8	0.22	0.080	1.22	27.0	38.0	0.98	560
1469	431372	7258058	0.040	0.57	5.88	202.0	610	1.16	6.57	0.81	0.23	66.5	20.0	108	6.66	37.2	4.14	15.90	0.17	1.8	0.33	0.121	1.46	33.3	27.5	1.00	1185
1470	431523	7258333	0.013	0.40	6.08	11.8	770	1.15	0.22	1.42	0.52	68.8	14.5	96	4.00	19.7	3.08	14.60	0.16	1.8	0.54	0.075	1.27	34.0	25.4	1.00	1200
1471	431634	7252092	0.017	0.73	5.57	14.0	760	1.20	0.18	1.12	0.58	68.8	14.6	77	5.79	30.0	2.91	14.60	0.20	1.7	0.26	0.048	0.97	36.9	30.8	0.90	889
1472	431610	7252043	<0.005	0.59	6.01	12.2	750	1.32	0.19	1.26	0.62	67.5	13.4	87	5.86	34.1	3.00	15.90	0.18	1.8	0.31	0.054	1.28	35.7	36.9	0.96	754
1473	431618	7251833	0.035	0.65	5.75	9.6	710	1.13	0.41	0.98	0.91	63.0	18.2	78	5.21	28.1	2.70	14.70	0.17	1.5	0.55	0.081	1.12	31.0	29.0	0.92	1050
1475	431529	7251422	0.018	0.75	5.45	10.6	660	1.22	0.29	1.37	2.88	57.7	13.6	77	4.87	29.5	2.54	14.00	0.17	1.6	0.33	0.057	1.12	28.4	35.2	0.91	893
1477	431537	7251090	0.025	0.83	5.53	13.6	650	1.10	0.43	1.51	2.05	61.1	12.9	83	4.89	30.4	2.59	13.85	0.15	1.7	0.64	0.054	1.12	30.1	36.3	0.94	1040
1478	431626	7250597	0.021	0.81	5.71	14.6	690	1.17	0.73	1.34	1.68	64.4	14.0	88	4.67	32.0	2.81	14.20	0.17	1.8	0.56	0.049	1.18	31.9	35.3	0.98	1500
1479	431715	7250225	0.013	0.77	5.83	84.6	720	1.25	0.94	1.22	1.65	66.5	35.6	96	17.50	35.6	4.14	15.00	0.16	1.8	0.85	0.053	1.21	32.7	36.8	0.98	6000
1481	429713	7250944	0.024	1.17	5.52	17.8	650	1.12	0.15	1.30	3.17	59.5	13.8	78	4.99	28.5	2.53	13.60	0.17	1.6	0.36	0.054	1.06	28.1	40.3	1.06	853
1482	429981	7250735	0.089	0.65	5.20	19.4	600	1.00	0.12	1.52	1.39	57.2	10.9	79	4.42	22.0	2.39	12.85	0.15	1.5	0.31	0.051	0.96	28.1	38.1	1.00	959

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1333	1.14	1.32	16.6	27.5	1300	16.1	64.9	<0.002	0.03	1.26	2	2.30	240.0	1.27	<0.05	11.2	0.457	0.40	3.2	121	1.3	19.2	85	65.3	50	FA04030731
1335	0.66	1.52	13.7	26.8	980	16.1	58.1	<0.002	0.02	1.26	1	2.10	240.0	1.05	<0.05	12.3	0.493	0.35	2.8	113	1.5	17.4	75	67.8	38	FA04030731
1336	0.98	1.21	11.7	27.7	710	16.6	60.6	<0.002	0.03	1.16	1	2.00	186.5	0.97	<0.05	9.9	0.454	0.38	2.0	112	1.2	14.1	79	60.6	27	FA04030731
1337	1.90	1.09	9.9	28.0	1230	15.2	57.5	<0.002	0.05	1.31	2	1.80	203.0	0.72	0.05	10.2	0.354	0.37	2.9	125	1.0	18.7	92	58.6	28	FA04030731
1428	2.10	0.91	9.1	22.6	700	13.4	63.7	<0.002	0.03	1.32	2	2.00	144.0	0.68	0.07	8.0	0.389	0.43	3.2	147	1.1	13.2	51	71.8	23	FA04030731
1429	2.06	0.71	6.3	18.6	810	12.5	62.6	0.003	0.05	1.20	2	1.80	122.5	0.47	0.08	6.2	0.290	0.39	3.0	146	0.8	11.9	40	58.1	18	FA04030731
1430	1.81	0.80	7.6	21.4	880	11.2	57.0	0.002	0.05	1.06	2	1.60	131.0	0.57	0.06	6.7	0.321	0.37	2.6	112	1.0	12.8	47	64.4	17	FA04030731
1431	1.16	0.91	8.4	20.5	610	13.0	60.7	<0.002	0.22	1.20	2	1.70	142.0	0.65	0.05	7.8	0.367	0.37	2.4	114	1.1	11.4	45	68.8	52	FA04030731
1434	1.35	1.13	9.7	32.9	680	13.8	61.3	<0.002	0.03	1.17	2	3.60	180.0	0.73	0.05	8.3	0.403	0.37	2.4	113	1.0	16.1	74	73.6	24	FA04030731
1435	2.06	0.41	4.4	26.6	1130	10.4	39.0	0.002	0.13	1.20	3	1.10	78.3	0.33	0.09	5.4	0.190	0.25	2.1	100	0.7	15.8	48	45.0	21	FA04030731
1436	1.09	0.87	7.7	42.1	960	15.2	70.6	<0.002	0.07	1.02	2	2.70	159.5	0.57	0.06	7.0	0.368	0.51	1.9	142	1.0	21.7	94	64.5	16	FA04030731
1438	0.61	1.35	9.2	31.0	770	12.4	60.5	<0.002	0.04	1.02	2	1.70	224.0	0.69	<0.05	8.2	0.405	0.37	2.0	115	1.0	17.5	74	66.7	21	FA04030731
1439	0.78	1.50	11.8	32.2	740	11.7	53.8	<0.002	0.02	1.06	2	1.80	220.0	0.91	<0.05	11.2	0.568	0.33	2.4	131	1.3	18.9	73	87.4	55	FA04030731
1440	0.72	1.51	9.5	29.7	660	11.6	59.3	<0.002	0.02	1.02	1	1.80	227.0	0.73	<0.05	7.9	0.416	0.37	1.9	115	1.0	14.8	70	64.9	46	FA04030731
1441	0.80	1.43	9.9	30.1	660	12.0	57.5	<0.002	0.03	1.10	2	1.80	220.0	0.75	<0.05	8.5	0.432	0.34	2.2	117	1.2	15.8	68	69.4	31	FA04030731
1442	1.00	1.25	8.4	33.0	880	11.0	58.0	<0.002	0.05	1.22	2	1.70	213.0	0.67	0.05	7.6	0.356	0.35	1.9	111	1.0	16.8	76	63.5	22	FA04030731
1444	1.09	1.02	9.3	37.3	690	29.4	78.3	<0.002	0.04	1.28	2	2.60	186.5	0.73	0.07	7.7	0.409	0.58	2.1	134	1.2	17.2	126	62.1	19	FA04030731
1445	0.82	1.26	9.9	29.8	600	17.0	69.2	<0.002	0.02	1.02	2	2.80	202.0	0.80	0.05	9.5	0.467	0.47	2.2	129	1.8	15.4	81	71.8	31	FA04030731
1447	0.59	1.21	9.9	25.8	480	14.7	55.2	<0.002	0.02	0.88	1	2.30	176.5	0.77	<0.05	7.5	0.465	0.39	1.8	116	1.7	13.6	76	65.7	28	FA04030731
1448	0.74	1.36	10.4	31.9	640	15.0	64.9	<0.002	0.02	1.28	2	2.00	211.0	0.83	0.05	8.6	0.439	0.41	2.1	115	1.5	15.8	81	68.9	62	FA04030731
1449	0.70	1.29	9.5	30.0	640	15.2	64.3	<0.002	0.02	1.14	2	2.00	201.0	0.77	<0.05	8.4	0.409	0.41	2.0	113	1.2	14.7	80	63.0	20	FA04030731
1450	0.69	1.40	10.4	31.0	670	12.8	58.5	<0.002	0.03	1.18	2	1.90	212.0	0.80	<0.05	9.1	0.450	0.36	2.1	116	1.2	16.1	76	68.2	43	FA04030731
1451	0.79	1.34	10.2	35.8	730	19.3	64.7	<0.002	0.03	2.14	2	3.00	187.0	0.79	0.05	8.2	0.448	0.43	2.0	126	1.2	17.0	102	67.0	25	FA04030731
1454	0.75	1.35	10.0	35.6	670	15.8	64.4	<0.002	0.03	1.66	2	1.90	188.0	0.77	0.05	8.7	0.458	0.40	2.0	127	1.2	16.4	88	69.1	29	FA04030731
1457	1.16	1.34	11.0	31.5	640	15.2	59.9	<0.002	0.02	1.36	2	1.90	186.5	0.90	<0.05	9.5	0.489	0.36	2.2	123	2.0	16.5	82	74.4	46	FA04030731
1460	0.73	1.27	9.6	32.3	610	15.9	60.3	<0.002	0.03	1.41	2	1.90	185.5	0.73	<0.05	7.8	0.429	0.37	1.9	117	1.0	15.8	86	64.5	22	FA04030731
1461	0.70	1.47	10.4	30.9	690	12.8	61.2	<0.002	0.03	1.43	2	1.80	228.0	0.82	<0.05	9.2	0.441	0.36	2.2	116	1.3	16.8	76	70.5	27	FA04030731
1463	0.88	1.13	8.3	29.7	670	19.8	66.3	<0.002	0.04	1.07	2	3.30	157.0	0.63	0.05	6.3	0.394	0.45	1.7	128	1.3	13.0	76	63.1	20	FA04030731
1464	0.93	1.01	7.4	36.1	760	28.5	87.6	<0.002	0.06	2.30	2	11.30	138.5	0.57	0.08	6.2	0.373	0.62	1.5	141	8.2	15.6	94	54.1	18	FA04030731
1465	1.04	1.03	8.2	42.0	900	51.2	81.7	<0.002	0.06	2.06	2	2.90	153.0	0.65	0.07	6.5	0.398	0.60	1.9	149	1.5	24.5	126	67.3	20	FA04030731
1466	0.98	1.05	8.6	32.8	710	26.5	93.8	<0.002	0.06	2.40	2	19.80	148.5	0.65	0.08	7.3	0.419	0.65	1.9	141	36.5	14.1	78	71.5	25	FA04030731
1468	0.79	1.18	9.0	32.9	590	40.4	72.4	<0.002	0.03	2.29	2	3.90	149.5	0.68	0.05	7.0	0.436	0.54	1.9	135	1.3	14.6	103	61.4	19	FA04030731
1469	0.98	1.02	8.6	35.2	700	26.8	96.7	<0.002	0.06	2.59	2	22.50	138.5	0.65	0.07	6.9	0.424	0.64	1.7	147	45.8	13.3	83	63.9	35	FA04030731
1470	0.81	1.36	8.8	32.6	710	54.4	66.5	<0.002	0.03	2.20	2	2.50	205.0	0.67	<0.05	8.5	0.412	0.43	2.0	122	1.0	16.3	105	65.7	33	FA04030731
1471	1.09	1.00	8.8	35.7	960	14.5	64.5	<0.002	0.06	1.66	2	1.80	167.0	0.66	<0.05	7.6	0.361	0.43	2.1	109	1.1	21.7	79	61.8	20	FA04030731
1472	1.07	1.07	10.0	36.6	790	16.4	71.3	<0.002	0.06	2.45	2	2.00	190.5	0.75	0.06	8.2	0.418	0.46	2.4	125	1.1	21.3	99	63.2	21	FA04030731
1473	0.78	1.05	7.8	31.9	710	17.2	69.8	<0.002	0.05	1.29	2	2.50	157.0	0.61	0.05	7.7	0.347	0.42	2.0	109	1.3	15.7	94	58.0	18	FA04030731
1475	0.73	1.05	8.9	34.9	680	20.3	62.3	<0.002	0.10	2.09	2	1.90	210.0	0.68	<0.05	7.1	0.382	0.41	2.6	108	1.1	16.8	108	57.0	15	FA04030731
1477	0.68	1.06	8.7	33.0	820	32.2	63.3	<0.002	0.16	2.23	2	2.10	228.0	0.68	<0.05	7.7	0.399	0.42	2.0	108	1.5	16.4	126	60.5	10	FA04030731
1478	0.65	1.17	9.5	33.4	670	37.8	65.0	<0.002	0.09	2.35	2	2.10	212.0	0.75	0.05	8.0	0.434	0.49	2.1	114	2.5	16.3	130	61.4	24	FA04030731
1479	1.26	1.06	9.5	69.3	740	43.4	72.0	<0.002	0.07	4.04	2	1.90	194.5	0.75	0.07	8.2	0.454	1.17	2.1	124	6.2	15.8	558	63.6	31	FA04030731
1481	0.58	1.07	8.0	33.2	680	44.5	55.5	<0.002	0.12	4.98	3	2.00	238.0	0.62	0.05	7.2	0.375	0.43	1.7	107	1.0	16.0	182	56.3	20	FA04030731
1482	0.62	1.05	8.3	30.4	600	23.3	49.1	<0.002	0.13	2.25	3	1.90	233.0	0.62	<0.05	7.0	0.381	0.36	1.8	104	1.1	13.8	132	52.6	18	FA04030731

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1483	430056	7250675	0.012	0.91	5.41	25.4	620	1.08	0.14	1.38	2.04	60.2	12.3	83	4.89	27.8	2.54	13.70	0.15	1.6	0.33	0.058	1.14	29.7	40.5	1.00	869
1484	430168	7250571	0.017	0.57	5.79	16.6	730	1.18	0.18	1.29	1.15	58.5	13.7	88	4.72	23.4	2.77	15.40	0.17	1.7	0.37	0.068	1.34	28.3	33.8	0.95	2180
1485	430306	7250467	0.105	0.77	4.98	30.6	750	1.10	0.14	1.72	2.90	52.6	16.0	73	4.44	25.1	2.62	13.35	0.16	1.6	0.54	0.055	1.12	25.5	34.9	0.88	7100
1486	430622	7250200	0.034	0.52	5.23	21.8	640	1.13	0.16	1.33	1.72	58.1	14.2	79	4.11	24.8	2.76	13.10	0.16	1.6	0.42	0.057	1.10	28.2	36.6	0.91	2160
1487	431002	7250047	0.045	0.43	5.58	16.6	710	1.23	0.15	1.43	1.38	58.9	13.4	81	3.66	19.7	2.64	14.55	0.15	1.7	0.27	0.058	1.18	28.3	33.4	0.93	1495
1488	431456	7249869	0.011	0.26	5.71	13.2	710	1.22	0.16	1.49	0.69	65.0	12.9	88	3.05	20.4	2.83	14.30	0.17	1.8	0.35	0.046	1.24	32.2	28.2	0.98	826
1489	431674	7249788	0.075	0.34	5.78	20.7	740	1.07	0.32	1.42	0.72	57.2	12.9	77	8.53	21.1	2.83	14.00	0.17	1.6	0.29	0.044	1.21	27.4	31.1	0.95	798
1492	421484	7265971	0.016	0.28	5.60	13.0	940	1.28	0.18	0.86	0.51	62.0	15.1	92	2.84	49.4	3.26	13.80	0.21	2.0	0.32	0.046	1.05	30.1	21.5	0.72	992
1493	421515	7265676	0.010	0.22	5.37	12.9	860	1.22	0.18	0.88	0.44	58.6	15.8	86	2.70	42.6	3.18	13.30	0.19	1.9	0.21	0.044	1.08	28.3	20.6	0.70	1135
1494	421358	7265015	0.007	0.28	5.41	12.6	1020	1.34	0.14	1.26	1.31	55.0	27.8	103	2.37	66.5	4.81	15.30	0.22	2.1	0.20	0.055	0.99	25.1	19.1	1.18	1125
1495	421142	7264568	0.011	0.21	5.70	10.5	900	1.28	0.13	1.62	1.28	61.3	23.2	96	2.37	48.4	4.48	14.85	0.23	2.5	0.17	0.054	1.00	28.7	21.5	1.12	1235
1498	420717	7264185	IS	0.18	5.02	9.2	980	1.13	0.14	1.42	2.02	63.5	22.0	72	2.55	35.7	3.03	12.10	0.20	1.6	IS	0.043	0.92	27.3	20.8	0.72	2460
1499	420413	7263995	<0.005	0.17	5.55	15.7	950	1.28	0.15	1.42	1.01	61.0	20.0	88	2.52	41.7	4.39	14.30	0.22	2.1	0.17	0.049	1.06	28.8	21.9	0.97	1310
1500	420069	7263887	0.010	0.14	5.47	9.7	910	1.26	0.12	1.40	0.87	55.0	17.8	76	2.27	41.2	3.54	14.25	0.19	1.9	0.16	0.048	1.01	26.0	20.8	0.94	889
1501	419681	7263775	0.009	0.13	5.98	12.1	1080	1.36	0.17	1.46	1.68	67.6	23.3	87	2.88	56.9	3.92	15.70	0.22	2.2	0.27	0.055	1.13	31.5	23.9	1.02	1790
1504	414061	7260090	0.010	0.08	5.18	6.4	660	1.10	0.09	1.64	0.19	104.0	16.8	719	1.94	14.7	3.08	12.20	0.23	2.4	0.06	0.036	0.97	50.0	21.0	1.52	570
1507	413688	7260284	0.006	0.10	5.28	7.6	710	1.13	0.10	1.47	0.23	77.3	17.5	321	2.25	19.2	3.07	12.40	0.22	1.9	0.07	0.036	1.03	36.4	23.5	1.68	538
1509	413330	7260500	0.007	0.08	5.29	8.0	760	1.14	0.09	1.36	0.20	63.4	16.3	374	2.28	16.2	3.13	11.80	0.18	1.7	0.09	0.035	1.06	30.2	25.4	1.75	515
1510	413226	7260693	0.005	0.11	5.29	11.8	770	1.20	0.10	1.22	0.25	57.7	16.0	271	2.58	19.4	3.02	12.60	0.18	1.8	0.14	0.038	1.14	28.4	27.9	1.58	484
1512	412913	7260813	<0.005	0.12	5.73	6.6	540	0.95	0.09	1.26	0.47	46.9	32.4	502	2.71	34.5	4.19	13.00	0.21	1.8	0.12	0.046	0.76	22.6	22.0	1.40	1115
1514	412286	7259926	<0.005	0.11	5.22	9.7	680	1.02	0.09	1.50	0.34	49.0	24.1	667	2.08	20.3	3.58	11.70	0.17	1.7	0.11	0.036	0.86	23.6	22.3	2.64	637
1516	412286	7259926	0.005	0.11	5.62	16.4	820	1.27	0.12	1.42	0.28	68.5	11.8	118	2.76	21.4	3.14	13.10	0.19	2.0	0.07	0.042	1.18	32.9	26.5	1.05	508
1517	412070	7260239	<0.005	0.19	5.98	10.5	810	1.91	0.12	0.86	0.82	68.3	11.9	298	4.20	22.5	3.16	15.45	0.19	2.2	0.16	0.045	1.55	35.2	29.1	1.10	559
1519	411943	7259889	<0.005	0.21	5.90	10.1	860	1.74	0.18	0.83	1.06	74.5	10.3	202	4.67	17.6	3.09	16.05	0.21	2.2	0.24	0.052	1.38	38.8	30.3	1.29	373
1520	412055	7260365	<0.005	0.12	5.48	8.6	710	1.20	0.09	1.57	0.28	77.9	18.0	550	2.32	17.2	3.30	12.95	0.19	2.2	0.09	0.044	1.01	36.8	23.8	1.86	564
1521	413261	7269895	0.007	0.15	5.72	8.3	930	1.30	0.12	2.04	0.31	63.7	11.1	74	2.27	21.0	2.81	12.95	0.20	2.0	0.37	0.041	1.22	31.5	23.9	1.08	456
1522	413706	7269971	<0.005	0.12	6.05	8.0	910	1.32	0.14	1.56	0.31	58.0	11.3	74	2.90	18.6	2.86	14.05	0.17	1.7	0.09	0.042	1.27	28.9	26.5	0.93	537
1523	413834	7270009	0.009	0.12	5.62	6.1	850	1.20	0.12	1.48	0.29	56.9	10.0	75	2.30	17.4	2.67	12.80	0.15	1.8	0.19	0.038	1.15	28.8	22.5	0.86	477
1524	414024	7270251	0.005	0.12	6.05	8.3	900	1.28	0.11	1.63	0.25	64.6	9.7	80	2.73	15.8	2.95	14.20	0.17	2.1	0.16	0.044	1.28	32.2	26.3	0.95	401
1525	414215	7270479	0.005	0.14	6.07	7.3	990	1.32	0.13	1.58	0.44	60.6	14.3	79	2.74	25.6	2.99	14.50	0.16	2.0	0.37	0.044	1.30	29.6	26.8	0.93	1050
1526	414660	7270416	<0.005	0.11	5.67	6.2	870	1.18	0.10	1.66	0.20	66.5	10.8	87	2.20	15.6	2.81	12.80	0.18	2.2	0.09	0.040	1.13	32.9	21.9	0.91	519
1528	414965	7270568	<0.005	0.13	5.82	11.2	900	1.22	0.14	1.63	0.29	64.0	12.8	81	2.52	18.2	3.43	13.45	0.18	2.0	0.22	0.043	1.18	31.2	24.1	0.91	747
1529	414851	7270276	0.014	0.12	5.65	10.5	1010	1.21	0.13	1.50	0.57	61.7	22.6	83	2.43	21.5	3.63	12.90	0.21	1.8	0.19	0.040	1.14	28.9	23.2	0.87	2110
1530	414062	7270797	0.011	0.12	5.89	16.4	970	1.35	0.15	1.69	0.43	60.1	15.8	78	2.73	18.0	4.45	13.55	0.21	1.9	0.14	0.043	1.20	29.4	26.0	0.91	1350
1531	413923	7271229	<0.005	0.11	6.06	8.7	970	1.26	0.13	1.69	0.45	65.2	14.5	82	2.58	17.4	3.23	13.60	0.18	2.0	0.10	0.042	1.22	32.0	25.0	0.94	1310
1532	413730	7271563	<0.005	0.12	6.06	7.0	890	1.22	0.11	1.87	0.27	79.8	10.9	94	2.33	15.0	2.99	13.80	0.18	2.2	0.10	0.045	1.21	39.9	23.7	0.97	582
1533	413643	7271711	0.015	0.14	5.82	10.0	930	1.37	0.14	1.63	0.34	54.3	13.1	72	2.78	19.3	3.08	13.95	0.16	1.7	0.08	0.044	1.27	26.9	27.1	0.93	1025
1534	413427	7271457	0.006	0.13	5.94	10.2	930	1.27	0.13	1.76	0.37	65.0	13.6	82	2.61	18.0	3.21	13.85	0.19	1.8	0.12	0.043	1.26	31.7	24.9	0.96	799
1535	413058	7271165	<0.005	0.12	5.77	8.1	900	1.28	0.12	1.68	0.34	59.6	11.4	75	2.40	18.8	2.97	13.15	0.16	1.9	0.10	0.040	1.22	29.1	23.8	0.93	560
1536	413249	7271267	0.005	0.09	5.80	6.9	850	1.28	0.11	1.77	0.25	62.1	10.1	75	2.32	15.3	2.81	13.30	0.17	1.8	0.10	0.042	1.19	30.4	23.2	0.95	478
1537	413592	7271991	<0.005	0.11	5.45	6.6	780	1.07	0.11	1.64	0.22	69.8	9.9	80	2.15	13.8	2.60	12.75	0.19	2.2	0.08	0.039	1.12	34.0	20.9	0.88	523
1538	413719	7272372	<0.005	0.09	5.80	6.8	850	1.18	0.12	1.58	0.29	63.3	10.8	72	2.44	14.1	2.67	13.70	0.18	1.8	0.11	0.038	1.22	31.4	23.5	0.89	580
1542	431955	7271944	0.005	0.19	4.92	8.5	970	1.11	0.15	1.52	0.97	55.4	26.5	70	2.40	22.7	2.90	11.85	0.17	1.6	0.37	0.045	0.87	25.2	21.4	0.72	1490

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1483	0.56	1.17	8.5	33.9	620	36.2	60.7	<0.002	0.10	3.56	3	1.80	223.0	0.67	<0.05	7.4	0.393	0.40	1.9	110	1.0	16.4	184	56.6	15	FA04030731
1484	0.57	1.14	8.3	33.7	670	21.0	69.7	<0.002	0.06	1.56	2	2.20	202.0	0.65	<0.05	7.4	0.364	0.45	1.9	117	1.0	13.0	114	60.7	15	FA04030731
1485	0.55	0.91	7.1	33.6	950	28.2	59.2	<0.002	0.15	2.87	3	1.90	282.0	0.54	0.05	6.6	0.319	0.39	1.8	98	0.8	14.4	205	58.2	15	FA04030731
1486	0.65	1.01	8.4	35.8	770	26.4	58.0	<0.002	0.10	2.41	3	2.30	216.0	0.65	0.06	7.5	0.395	0.37	1.8	108	1.1	14.2	150	57.6	19	FA04030731
1487	0.58	1.17	8.9	32.1	700	21.3	60.3	<0.002	0.07	2.05	2	2.00	231.0	0.67	<0.05	7.6	0.390	0.40	2.0	106	1.2	14.6	134	58.4	20	FA04030731
1488	0.60	1.28	8.7	33.0	690	17.1	62.3	<0.002	0.05	1.68	2	1.90	230.0	0.67	0.06	8.5	0.400	0.38	1.9	113	1.3	15.2	102	65.0	28	FA04030731
1489	0.60	1.19	9.2	31.6	670	24.1	72.7	<0.002	0.08	2.02	1	1.80	211.0	0.68	<0.05	7.1	0.397	0.50	1.6	104	1.5	13.6	170	57.9	20	FA04030731
1492	3.05	0.86	9.3	32.3	1090	13.8	60.0	<0.002	0.03	4.45	1	1.80	147.0	0.68	0.08	7.7	0.396	0.44	4.1	176	1.1	21.1	98	74.2	21	FA04030731
1493	3.35	0.88	9.3	31.1	1060	13.4	61.9	<0.002	0.04	4.16	1	2.10	148.0	0.68	0.09	7.5	0.401	0.44	3.7	172	1.0	18.4	98	72.0	20	FA04030731
1494	3.02	0.59	13.0	65.1	2010	15.8	44.4	<0.002	0.02	4.98	2	2.00	136.0	0.89	0.11	5.1	0.855	0.32	4.1	270	0.8	20.9	172	82.7	38	FA04030731
1495	1.76	0.79	14.4	54.4	2100	12.6	47.3	<0.002	0.03	3.25	2	2.20	152.0	0.97	0.07	6.4	0.861	0.34	3.0	194	1.0	21.3	147	101.5	19	FA04030731
1498	1.64	0.75	7.9	41.8	1300	11.3	51.8	<0.002	0.08	2.08	1	1.90	154.5	0.57	0.05	6.1	0.365	0.37	3.1	126	1.0	26.1	119	60.1	8	FA04030731
1499	1.87	0.87	11.0	49.3	1600	12.7	53.6	<0.002	0.03	2.83	1	2.50	160.5	0.74	0.07	7.0	0.574	0.35	2.9	174	1.0	21.0	154	84.3	16	FA04030731
1500	1.49	0.90	10.0	47.6	1520	11.3	49.1	<0.002	0.03	2.70	1	1.70	164.5	0.71	0.07	5.8	0.479	0.35	2.9	164	1.0	19.0	122	70.4	15	FA04030731
1501	2.08	0.82	10.5	60.8	2400	15.3	59.1	<0.002	0.04	3.75	2	1.90	166.5	0.74	0.09	7.0	0.484	0.44	3.6	217	1.1	23.0	207	83.5	9	FA04030731
1504	0.60	1.16	11.2	105.0	750	8.7	46.9	<0.002	0.01	1.02	1	1.50	190.0	0.82	<0.05	10.0	0.502	0.28	2.2	122	1.0	17.1	79	84.3	36	FA04030731
1507	0.61	1.14	9.1	128.0	730	9.6	51.1	<0.002	0.02	1.00	1	1.30	182.0	0.68	<0.05	7.6	0.415	0.29	1.9	115	1.1	15.6	84	72.7	26	FA04030731
1509	0.63	1.04	8.7	116.5	720	8.2	51.0	<0.002	0.02	1.38	1	1.20	158.0	0.60	<0.05	6.4	0.396	0.30	2.4	122	0.8	14.0	84	61.9	39	FA04030731
1510	0.70	1.04	8.7	111.5	700	9.4	55.8	<0.002	0.02	1.18	1	1.30	158.5	0.61	<0.05	6.6	0.390	0.34	1.7	122	1.0	14.3	97	64.6	29	FA04030731
1512	0.68	1.02	6.8	266.0	620	7.8	43.3	<0.002	0.05	0.88	1	1.70	132.5	0.49	<0.05	5.5	0.389	0.26	1.4	121	0.8	15.8	79	66.4	14	FA04030731
1514	0.98	1.07	7.6	226.0	590	8.8	44.5	<0.002	0.03	1.22	1	1.40	150.0	0.54	<0.05	5.4	0.410	0.30	1.5	130	1.0	14.6	88	65.8	15	FA04030731
1516	1.06	1.19	10.0	47.7	760	11.4	57.5	<0.002	0.02	1.28	1	1.60	196.0	0.74	0.05	8.1	0.420	0.37	2.1	118	0.9	16.7	81	73.7	35	FA04030731
1517	1.87	1.03	11.4	84.3	630	11.7	78.1	<0.002	0.06	1.99	1	2.10	138.5	0.74	<0.05	7.2	0.370	0.55	2.2	129	1.7	18.0	125	91.2	15	FA04030731
1519	1.86	0.95	10.6	98.7	600	12.1	79.5	<0.002	0.07	2.37	2	2.10	138.0	0.71	0.06	7.2	0.324	0.62	2.3	130	1.6	19.6	124	92.3	11	FA04030731
1520	1.01	1.23	10.8	136.5	810	8.5	49.6	<0.002	0.03	1.33	1	1.50	179.0	0.76	0.05	7.9	0.516	0.33	2.0	130	1.2	17.9	85	86.5	19	FA04030731
1521	0.78	1.39	10.0	29.4	910	11.3	55.4	<0.002	0.03	1.06	1	1.50	247.0	0.69	<0.05	8.1	0.392	0.33	2.2	107	1.0	17.6	83	74.8	44	FA04030731
1522	0.79	1.30	8.3	29.1	750	12.2	62.9	<0.002	0.03	1.00	1	1.70	222.0	0.59	<0.05	7.6	0.345	0.40	1.9	112	0.8	15.7	85	62.2	42	FA04030732
1523	0.68	1.29	9.3	25.7	710	11.5	53.8	<0.002	0.03	0.97	1	1.50	219.0	0.67	<0.05	7.5	0.395	0.33	2.0	108	0.9	15.6	90	67.1	21	FA04030732
1524	0.73	1.33	10.5	28.1	820	11.1	62.1	<0.002	0.03	0.96	1	1.80	225.0	0.77	<0.05	8.7	0.427	0.39	2.2	115	1.1	16.8	85	74.3	50	FA04030732
1525	0.88	1.30	9.9	30.9	790	11.9	63.8	<0.002	0.04	1.00	1	1.60	217.0	0.71	<0.05	8.0	0.404	0.40	2.1	114	1.2	17.0	157	70.4	24	FA04030732
1526	0.72	1.34	10.4	27.5	760	10.2	52.0	<0.002	0.02	0.88	1	1.50	225.0	0.79	<0.05	8.1	0.447	0.30	2.2	110	1.2	16.8	115	75.7	48	FA04030732
1528	0.99	1.25	9.9	30.1	840	11.7	58.1	<0.002	0.03	1.06	1	1.60	212.0	0.74	<0.05	8.1	0.417	0.35	2.1	115	1.0	16.6	142	72.6	41	FA04030732
1529	1.07	1.15	9.2	35.6	900	11.6	55.3	<0.002	0.05	1.03	1	1.70	194.5	0.68	0.05	7.2	0.399	0.34	2.1	116	0.9	18.6	142	68.6	20	FA04030732
1530	1.66	1.21	9.6	32.0	940	12.5	62.6	<0.002	0.05	1.10	1	1.70	214.0	0.70	0.06	7.8	0.387	0.35	2.0	118	1.2	17.5	140	70.7	28	FA04030732
1531	0.99	1.31	10.2	28.7	820	11.8	60.9	<0.002	0.03	0.98	1	1.70	222.0	0.73	<0.05	8.4	0.433	0.37	2.1	117	1.0	16.6	88	72.9	20	FA04030732
1532	0.73	1.40	10.6	27.3	840	11.0	58.8	<0.002	0.03	0.92	1	1.60	237.0	0.75	<0.05	9.9	0.463	0.34	2.3	118	1.3	18.4	106	79.8	31	FA04030732
1533	1.01	1.23	9.5	30.8	770	11.7	63.8	<0.002	0.04	1.10	1	1.60	209.0	0.68	0.05	7.3	0.372	0.39	1.9	112	1.1	15.5	112	65.6	29	FA04030732
1534	0.88	1.32	9.3	29.8	870	11.9	61.9	<0.002	0.04	1.03	1	1.50	226.0	0.69	<0.05	8.4	0.390	0.36	2.0	118	1.2	17.0	93	68.8	33	FA04030732
1535	0.80	1.34	9.7	27.3	820	11.1	56.7	<0.002	0.04	1.00	1	1.50	224.0	0.69	<0.05	7.5	0.401	0.34	2.0	111	1.1	15.8	109	68.4	24	FA04030732
1536	0.76	1.39	9.9	25.5	750	10.9	55.7	<0.002	0.02	0.96	1	1.50	237.0	0.72	<0.05	7.7	0.411	0.32	2.0	109	1.0	15.8	119	67.7	61	FA04030732
1537	0.65	1.34	10.4	24.3	760	10.5	51.2	<0.002	0.02	0.92	1	1.50	225.0	0.76	<0.05	8.9	0.433	0.31	2.2	106	1.3	16.6	90	77.0	35	FA04030732
1538	0.69	1.35	8.6	26.3	750	10.8	59.7	<0.002	0.03	0.93	1	1.60	224.0	0.63	<0.05	8.0	0.358	0.35	1.9	106	1.0	15.6	83	62.3	20	FA04030732
1542	1.87	0.79	8.0	30.5	1100	11.4	50.6	<0.002	0.07	8.50	1	1.70	138.5	0.59	0.07	6.7	0.373	0.36	2.3	136	3.2	17.8	141	61.2	14	FA04030732

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1543	432109	7271759	0.006	0.20	3.76	57.1	1340	1.08	0.12	2.19	0.85	47.5	39.8	59	1.74	20.1	8.48	9.57	0.33	1.2	0.26	0.032	0.73	23.1	14.3	0.65	5290
1544	432460	7271522	0.008	0.11	4.79	47.5	1000	1.14	0.12	2.89	0.43	52.1	20.2	66	2.20	15.2	6.01	11.60	0.26	1.5	0.20	0.037	0.94	25.8	19.2	1.30	2540
1545	433182	7271147	0.008	0.16	5.88	22.3	960	1.12	0.16	1.65	0.39	51.7	11.9	90	2.87	25.2	3.94	13.05	0.20	1.7	0.27	0.041	1.05	25.0	20.6	0.87	1035
1546	433460	7270714	0.006	0.16	6.28	16.3	980	1.57	0.18	1.30	0.35	66.3	14.6	91	3.26	29.7	3.46	15.80	0.22	2.1	0.27	0.052	1.33	32.3	27.7	0.87	791
1549	436129	7271429	<0.005	0.12	5.43	10.5	820	1.18	0.13	1.73	0.41	63.3	15.1	77	2.16	16.8	3.26	12.90	0.19	1.9	0.15	0.040	1.09	30.5	20.7	0.93	1025
1550	436088	7271460	0.008	0.15	4.82	10.8	960	1.10	0.12	1.70	1.38	56.4	25.7	65	2.56	20.3	3.29	11.45	0.19	1.5	0.36	0.037	0.97	25.4	18.8	0.79	3190
1551	435645	7271480	<0.005	0.12	5.57	7.1	860	1.22	0.17	1.84	0.24	72.3	10.3	79	2.08	15.6	2.69	13.25	0.21	2.2	0.33	0.042	1.12	35.5	20.8	0.97	443
1552	435232	7271583	<0.005	0.10	5.75	6.4	870	1.18	0.11	1.64	0.21	59.6	9.5	69	2.15	13.2	2.59	13.10	0.16	1.8	0.14	0.040	1.19	29.0	21.8	0.93	381
1557	438880	7264982	0.017	0.10	5.70	6.0	580	1.10	0.12	1.81	0.34	58.9	15.3	140	2.50	25.9	3.22	13.90	0.19	1.8	0.17	0.043	0.98	29.7	24.6	1.30	726
1560	439168	7264776	0.005	0.10	5.68	6.5	550	1.00	0.13	1.70	0.37	55.7	15.0	112	2.50	26.6	3.38	13.45	0.20	1.8	0.22	0.045	0.97	27.1	24.5	1.22	852
1561	439721	7264222	0.008	0.07	6.04	7.6	500	1.12	0.12	1.26	0.17	56.8	15.3	126	2.27	21.4	3.58	14.05	0.19	1.8	0.19	0.045	0.94	27.1	25.7	1.19	760
1562	440066	7263945	<0.005	0.12	5.79	6.8	740	1.10	0.14	1.60	0.66	49.7	15.0	85	3.08	21.1	3.01	14.35	0.17	1.6	0.53	0.045	1.06	24.5	26.3	0.96	2570
1563	440210	7263778	0.012	0.16	5.20	16.5	790	1.18	0.15	1.44	1.02	60.7	47.7	93	2.99	21.9	5.11	13.30	0.24	1.7	0.73	0.046	0.96	27.0	25.7	0.79	4450
1564	429840	7270395	<0.005	0.11	4.15	7.8	610	0.89	0.09	2.26	0.31	44.8	9.4	72	1.64	14.4	2.34	9.55	0.15	1.5	0.16	0.033	0.74	22.3	17.2	0.93	487
1567	444403	7268939	0.053	0.31	7.39	18.1	3520	2.39	0.51	0.44	0.18	57.1	6.6	191	11.65	46.0	3.50	24.70	0.24	3.1	1.66	0.062	2.26	33.7	22.5	0.69	242
1568	444403	7269011	0.009	0.18	3.41	116.0	1390	0.95	0.16	0.66	0.26	33.0	10.4	64	3.01	25.5	11.95	9.06	0.38	1.2	0.76	0.030	0.74	16.5	10.5	0.37	368
1569	444722	7268816	0.021	0.28	2.97	115.5	1300	0.97	0.15	0.70	0.40	33.5	29.4	47	2.13	28.9	13.05	7.64	0.41	1.0	0.78	0.034	0.60	16.4	9.2	0.34	1500
1570	444990	7268682	0.021	0.24	6.12	13.8	840	1.44	0.29	0.69	0.23	61.9	23.0	84	5.23	29.3	3.02	16.85	0.27	2.0	0.68	0.051	1.44	29.6	20.7	0.66	1100
1573	445196	7268661	0.010	0.11	4.97	36.1	980	1.17	0.14	1.04	0.19	55.2	8.6	73	2.77	19.1	4.13	12.70	0.23	1.7	0.52	0.040	1.06	27.4	18.3	0.71	312
1574	445485	7268713	0.018	0.35	5.53	36.4	3050	1.44	0.31	0.68	0.21	59.8	5.0	89	5.07	39.4	2.50	15.40	0.20	2.2	1.74	0.045	1.38	30.9	19.3	0.62	186
1575	445598	7268857	0.008	0.09	5.86	26.6	900	1.28	0.15	1.33	0.23	60.9	14.1	78	2.65	17.8	4.46	14.35	0.25	1.9	0.24	0.046	1.23	29.9	23.4	0.89	617
1576	445825	7269084	<0.005	0.14	5.67	11.2	900	1.26	0.14	1.42	0.27	67.0	11.2	80	2.35	20.4	3.18	13.70	0.23	1.8	0.32	0.046	1.15	32.3	21.6	0.90	449
1577	446206	7269187	0.007	0.14	5.75	22.2	870	1.17	0.15	1.24	0.19	61.7	11.5	78	2.64	16.2	3.89	14.10	0.23	1.9	0.21	0.044	1.15	30.4	22.8	0.88	447
1578	446588	7268878	<0.005	0.13	5.52	5.6	840	1.20	0.13	1.46	0.35	66.0	13.6	80	2.22	19.4	2.61	13.05	0.19	1.9	0.40	0.040	1.08	32.4	21.4	0.83	549
1579	446464	7268455	<0.005	0.19	5.24	13.9	1190	1.44	0.17	1.20	1.74	76.6	96.8	70	2.44	25.0	5.01	13.50	0.25	1.4	1.11	0.048	0.89	28.4	21.0	0.62	>10000
1580	446691	7269063	<0.005	0.12	6.00	8.0	900	1.23	0.15	1.60	0.23	69.0	10.8	92	2.34	19.6	3.00	13.80	0.21	2.0	0.49	0.045	1.18	33.9	26.8	1.04	478
1581	446887	7269331	<0.005	0.11	5.59	6.8	800	1.16	0.11	1.58	0.22	63.1	10.5	79	2.14	14.9	2.68	13.40	0.18	1.8	0.20	0.042	1.13	30.4	20.6	0.96	425
1582	447083	7269660	<0.005	0.10	5.89	6.7	830	1.26	0.12	1.50	0.21	55.6	10.3	73	2.29	15.4	2.64	14.00	0.18	1.6	0.21	0.041	1.22	27.1	21.8	0.93	387
1583	446990	7269743	<0.005	0.14	5.80	8.8	860	1.21	0.12	1.62	0.25	72.2	12.3	86	2.31	16.8	3.05	13.65	0.19	2.0	0.15	0.045	1.13	34.4	21.4	0.93	643
1584	447392	7269928	<0.005	0.11	5.70	8.2	830	1.20	0.13	1.51	0.29	64.9	12.6	80	2.36	16.9	2.87	13.85	0.19	1.9	0.19	0.045	1.15	31.5	21.8	0.91	603
1585	447598	7270031	<0.005	0.13	6.27	8.2	910	1.32	0.13	2.02	0.28	69.8	12.2	85	2.31	19.8	3.17	14.50	0.20	2.0	0.35	0.046	1.29	33.8	22.7	1.10	530
1586	447804	7269969	<0.005	0.13	6.02	10.2	900	1.25	0.12	1.70	0.33	68.4	12.8	74	2.48	23.3	3.07	14.45	0.21	1.7	0.44	0.045	1.25	33.3	22.2	1.02	516
1587	448258	7270010	<0.005	0.13	5.89	9.0	870	1.16	0.11	1.82	0.28	70.7	12.0	80	2.18	20.0	3.04	13.70	0.18	1.9	0.18	0.044	1.17	34.2	20.2	1.06	543
1605	450613	7253306	<0.005	0.18	6.41	6.3	730	1.06	0.15	0.98	0.18	64.1	10.1	86	3.75	15.8	2.79	16.00	0.17	2.0	0.21	0.049	1.17	31.4	29.1	0.85	402
1606	450467	7252903	0.006	0.14	6.40	8.5	740	1.10	0.16	1.02	0.19	65.2	14.7	83	3.55	13.7	3.09	16.20	0.18	1.9	0.22	0.056	1.20	31.6	34.4	0.85	635
1607	450545	7252510	<0.005	0.10	6.98	7.6	800	1.13	0.14	1.22	0.19	70.0	16.5	84	3.31	12.6	3.22	16.30	0.20	1.9	0.14	0.049	1.23	33.8	30.0	0.99	719
1608	451264	7252375	<0.005	0.12	5.94	9.9	690	1.04	0.13	1.09	0.17	69.6	11.1	89	2.72	13.4	3.09	14.85	0.18	1.9	0.16	0.046	1.07	33.3	26.4	0.81	456
1609	450949	7252185	<0.005	0.13	5.89	10.3	700	1.02	0.14	1.14	0.17	73.0	12.4	92	2.66	12.5	3.15	14.85	0.19	2.0	0.19	0.044	1.08	35.2	25.5	0.82	550
1610	450635	7252084	<0.005	0.20	6.66	14.0	730	1.08	0.19	0.92	0.23	62.7	11.0	90	4.17	17.2	3.36	17.20	0.22	1.9	0.32	0.051	1.14	30.7	42.9	0.76	380
1611	450545	7252050	<0.005	0.10	5.73	7.4	650	0.98	0.13	1.16	0.16	84.2	9.3	89	2.44	12.9	2.80	14.20	0.20	2.1	0.21	0.046	1.02	41.0	24.7	0.83	394
1613	450579	7252173	0.005	0.11	5.81	8.7	690	1.05	0.12	1.10	0.25	64.9	18.4	81	2.78	12.2	3.04	14.40	0.19	1.9	0.25	0.044	1.11	31.0	25.9	0.83	732
1614	450265	7251837	0.013	0.09	5.81	9.2	660	0.92	0.12	1.32	0.16	81.7	12.2	107	2.46	11.6	3.05	14.25	0.21	2.0	0.12	0.046	1.07	38.8	24.8	0.87	554
1615	450085	7251556	0.026	0.23	6.16	15.7	720	1.16	0.14	1.11	0.24	65.1	11.3	86	3.84	17.6	3.00	15.55	0.20	1.9	0.51	0.052	1.21	31.4	36.5	0.76	454

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1543	1.41	0.61	5.9	31.2	1620	9.7	40.9	<0.002	0.08	2.30	1	1.80	141.5	0.41	0.11	5.9	0.259	0.28	1.9	114	0.7	17.2	84	46.5	11	FA04030732
1544	0.76	0.92	7.7	27.9	1320	9.8	50.1	<0.002	0.06	1.48	1	1.40	171.5	0.55	0.08	6.6	0.318	0.33	1.7	104	0.8	15.1	77	54.9	11	FA04030732
1545	1.14	0.94	8.1	32.6	1060	11.6	49.1	<0.002	0.05	2.27	1	1.50	160.0	0.60	0.08	6.8	0.423	0.33	2.0	135	1.1	14.7	105	59.4	16	FA04030732
1546	1.05	1.13	10.4	36.7	720	14.7	66.5	<0.002	0.03	2.09	1	2.00	184.5	0.75	0.06	9.2	0.457	0.45	2.3	140	1.2	17.4	95	76.0	21	FA04030732
1549	1.10	1.27	9.4	27.8	850	10.8	52.6	<0.002	0.04	1.18	1	1.50	221.0	0.72	<0.05	8.0	0.394	0.32	2.1	110	1.0	16.8	120	66.9	13	FA04030732
1550	1.34	1.00	7.8	31.9	1140	10.2	51.4	<0.002	0.09	1.13	1	1.60	184.0	0.57	0.05	6.6	0.324	0.32	1.8	95	0.7	14.7	121	53.0	11	FA04030732
1551	0.68	1.33	10.8	26.6	770	10.6	51.0	<0.002	0.02	1.08	1	1.50	226.0	0.81	<0.05	9.1	0.455	0.29	2.3	112	1.1	17.5	74	79.0	44	FA04030732
1552	0.64	1.42	9.8	24.4	730	10.3	53.1	<0.002	0.02	1.00	1	1.50	229.0	0.71	<0.05	7.7	0.405	0.32	2.0	108	1.1	15.1	69	64.0	75	FA04030732
1557	0.75	1.29	8.0	65.7	670	10.3	52.1	<0.002	0.05	0.94	1	1.60	166.5	0.59	<0.05	7.3	0.426	0.32	1.6	118	1.7	18.4	79	61.3	19	FA04030732
1560	0.68	1.23	7.3	56.5	710	10.1	50.3	<0.002	0.06	0.85	1	1.60	152.5	0.54	<0.05	6.6	0.412	0.28	1.6	120	1.1	19.0	88	63.2	15	FA04030732
1561	0.70	1.54	7.7	43.0	590	10.0	49.7	<0.002	0.03	0.84	1	1.40	143.0	0.59	0.05	7.2	0.448	0.25	1.7	118	0.9	15.6	71	65.3	24	FA04030732
1562	0.89	1.08	7.0	44.7	700	10.7	60.6	<0.002	0.06	1.04	1	1.70	162.0	0.51	<0.05	6.3	0.345	0.37	1.6	112	0.8	15.7	96	56.1	14	FA04030732
1563	1.46	0.82	7.0	55.3	790	10.5	57.2	<0.002	0.07	1.18	1	1.60	145.5	0.51	0.07	6.9	0.323	0.42	1.7	124	0.9	18.2	147	59.0	14	FA04030732
1564	0.43	0.84	7.7	25.1	1740	9.2	44.6	<0.002	0.08	1.44	1	1.20	143.0	0.55	<0.05	5.7	0.367	0.24	1.8	92	0.7	13.4	88	54.8	16	FA04030732
1567	5.08	0.33	6.0	20.7	4840	26.9	105.5	0.002	0.06	5.31	3	2.80	260.0	0.46	0.21	9.3	0.250	1.26	24.6	753	1.2	66.8	53	125.5	20	FA04030732
1568	12.60	0.33	3.8	24.5	6480	9.6	37.9	<0.002	0.08	2.98	2	1.30	116.5	0.29	0.19	4.3	0.168	0.29	6.9	273	0.7	27.9	58	50.9	16	FA04030732
1569	9.05	0.35	3.5	28.1	6010	9.0	32.0	<0.002	0.10	2.58	2	1.20	110.5	0.25	0.20	4.0	0.144	0.29	6.1	239	0.6	26.6	69	40.3	16	FA04030732
1570	4.06	0.74	8.7	25.0	1360	20.4	79.6	<0.002	0.06	1.88	2	2.30	140.0	0.63	0.14	8.2	0.349	0.58	4.6	218	1.2	19.5	60	72.6	19	FA04030732
1573	1.95	0.95	8.1	22.8	2370	12.6	53.7	<0.002	0.04	1.50	1	1.60	165.0	0.60	0.07	7.4	0.340	0.35	3.3	144	1.0	17.0	59	61.1	26	FA04030732
1574	9.97	0.68	7.7	17.9	3090	22.7	65.2	0.002	0.08	8.55	3	2.00	185.0	0.59	0.15	8.8	0.307	0.53	10.3	444	1.4	34.4	48	79.8	17	FA04030732
1575	1.84	1.19	9.2	28.4	1070	12.5	61.5	<0.002	0.03	1.36	1	1.70	194.5	0.68	0.06	8.3	0.390	0.37	2.5	126	1.0	16.8	77	69.1	36	FA04030732
1576	1.06	1.23	9.7	27.2	920	13.2	56.2	<0.002	0.03	1.34	1	1.70	201.0	0.73	<0.05	8.7	0.419	0.35	2.6	122	1.1	17.2	71	65.0	34	FA04030732
1577	1.89	1.16	9.7	26.0	1010	13.0	58.9	<0.002	0.04	1.37	1	1.80	188.0	0.70	0.05	8.1	0.399	0.37	2.5	131	1.2	16.0	70	65.6	20	FA04030732
1578	0.69	1.20	9.4	26.8	680	11.7	52.1	<0.002	0.03	1.18	1	1.70	187.0	0.75	<0.05	8.7	0.407	0.36	2.5	110	1.0	17.3	82	65.1	12	FA04030732
1579	2.62	0.79	6.9	36.1	1040	12.6	51.7	<0.002	0.07	1.54	1	1.50	144.5	0.52	0.08	7.3	0.287	0.38	2.8	126	0.9	22.4	147	51.8	16	FA04030732
1580	0.83	1.31	10.0	30.4	840	12.2	57.1	<0.002	0.02	1.24	1	1.80	211.0	0.86	0.13	9.6	0.437	0.34	2.4	120	0.9	17.0	73	64.5	69	FA04030732
1581	0.64	1.31	9.7	26.6	710	10.9	53.7	<0.002	0.02	1.06	1	1.60	207.0	0.72	<0.05	8.2	0.425	0.32	2.2	110	1.3	15.9	69	62.1	27	FA04030732
1582	0.62	1.33	9.4	26.5	670	11.2	57.9	<0.002	0.02	1.06	1	1.60	209.0	0.71	<0.05	7.3	0.402	0.34	2.0	112	1.0	14.9	74	58.1	68	FA04030732
1583	0.75	1.27	10.0	25.4	870	11.1	55.1	<0.002	0.02	1.22	1	1.70	212.0	0.75	<0.05	9.0	0.442	0.32	2.7	126	1.5	17.8	78	72.4	34	FA04030732
1584	0.71	1.26	9.7	25.8	780	11.3	56.1	<0.002	0.03	1.18	1	1.70	203.0	0.73	<0.05	8.5	0.419	0.35	2.4	118	1.1	16.6	76	68.4	47	FA04030732
1585	0.76	1.47	10.4	31.2	800	11.6	58.0	<0.002	0.02	1.18	1	1.70	243.0	0.82	<0.05	9.2	0.460	0.34	2.2	120	1.0	17.5	75	68.4	69	FA04030732
1586	0.80	1.33	8.5	31.8	840	13.0	60.5	<0.002	0.03	1.38	1	1.70	219.0	0.61	0.05	8.6	0.367	0.35	2.2	119	1.1	17.7	84	60.4	31	FA04030732
1587	0.77	1.36	9.8	30.4	850	11.7	53.6	<0.002	0.02	1.29	1	1.60	227.0	0.73	<0.05	8.5	0.434	0.30	2.3	120	1.0	18.4	74	69.0	85	FA04030732
1605	0.80	1.13	10.4	24.6	690	13.1	70.4	<0.002	0.05	0.77	1	2.10	159.5	0.78	<0.05	8.1	0.461	0.43	2.0	120	1.2	14.2	62	69.1	22	FA04030732
1606	0.96	1.18	10.4	26.3	600	13.4	70.3	<0.002	0.04	0.83	1	2.10	170.0	0.77	0.05	8.1	0.445	0.44	2.0	128	1.2	14.4	73	66.6	20	FA04030732
1607	0.76	1.38	10.6	27.2	640	12.7	70.3	<0.002	0.04	0.87	1	2.00	192.0	0.80	0.05	8.8	0.472	0.40	2.0	126	1.3	15.0	67	67.3	19	FA04030732
1608	1.06	1.11	10.6	24.2	580	12.3	60.5	<0.002	0.03	1.02	1	2.00	161.5	0.77	<0.05	9.3	0.475	0.37	2.2	120	1.3	13.9	59	67.4	27	FA04030732
1609	1.11	1.13	10.7	23.6	540	12.7	58.7	<0.002	0.03	1.02	1	2.10	166.0	0.77	<0.05	10.0	0.489	0.36	2.2	124	1.2	14.1	61	71.9	29	FA04030732
1610	1.11	0.92	11.2	29.5	690	14.5	70.9	<0.002	0.04	1.30	1	2.30	143.5	0.82	0.05	8.0	0.454	0.45	1.9	140	1.2	13.1	79	64.8	22	FA04030732
1611	0.76	1.17	11.5	23.0	500	11.3	54.3	<0.002	0.02	0.96	1	1.80	166.5	0.84	<0.05	10.4	0.515	0.32	2.2	116	1.6	14.9	57	73.0	39	FA04030732
1613	0.82	1.16	10.1	24.5	560	12.7	61.3	<0.002	0.04	0.89	1	1.80	169.5	0.77	<0.05	7.9	0.438	0.38	1.9	122	1.1	14.5	65	64.0	27	FA04030732
1614	0.80	1.16	10.6	24.3	530	11.8	54.8	<0.002	0.02	0.98	1	1.90	174.0	0.79	<0.05	11.0	0.558	0.34	2.1	129	1.4	15.4	63	67.6	35	FA04030732
1615	1.13	1.00	11.4	25.6	680	14.0	67.5	<0.002	0.04	2.22	1	2.10	167.0	0.81	0.05	8.3	0.449	0.41	2.0	133	1.2	14.2	67	66.2	22	FA04030732

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1617	449961	7251467	0.005	0.13	6.53	8.1	800	1.14	0.14	1.36	0.17	71.8	10.5	89	3.03	14.8	2.91	16.25	0.21	2.1	0.22	0.049	1.25	34.9	28.4	0.95	378
1618	449737	7251287	<0.005	0.09	6.12	8.8	710	1.10	0.10	1.34	0.13	71.2	10.4	88	2.59	10.8	3.10	14.35	0.21	1.8	0.15	0.044	1.13	34.1	25.1	0.92	452
1619	449477	7250935	<0.005	0.09	5.92	6.9	710	1.06	0.12	1.31	0.20	74.9	11.7	89	2.70	14.1	2.95	14.35	0.19	2.0	0.32	0.044	1.10	35.2	25.9	0.89	425
1621	449578	7250711	<0.005	0.45	6.33	15.0	770	1.26	0.16	1.20	0.42	72.2	16.4	88	4.58	23.2	3.32	15.75	0.21	1.8	0.89	0.060	1.27	34.4	48.9	0.76	810
1622	446479	7250185	0.006	0.27	6.48	7.9	790	1.08	0.15	1.04	0.31	65.9	14.1	90	4.90	21.6	3.09	16.40	0.19	1.9	0.34	0.053	1.23	32.2	35.3	0.88	729
1624	446264	7249733	0.010	0.31	6.92	9.6	840	1.26	0.17	1.06	0.33	93.5	17.7	99	5.67	32.2	3.50	17.75	0.22	2.1	0.68	0.060	1.35	45.2	44.9	0.98	1105
1625	446365	7249340	<0.005	0.22	6.44	7.9	740	1.16	0.14	1.25	0.42	76.7	17.4	88	4.40	26.5	3.21	15.75	0.22	1.9	0.38	0.055	1.20	36.8	44.4	0.99	1215
1626	446410	7249004	0.007	0.16	6.25	6.4	720	1.14	0.14	1.13	0.29	73.9	17.1	90	3.69	23.0	3.07	15.30	0.20	2.1	1.33	0.050	1.21	34.2	41.4	0.97	996
1627	446436	7248556	<0.005	0.10	5.74	4.0	640	0.98	0.07	1.28	0.15	80.5	13.0	91	2.65	13.2	2.70	13.65	0.20	2.0	0.60	0.043	1.09	37.8	32.5	0.92	632
1629	445670	7251385	0.005	0.49	7.42	15.0	870	1.44	0.21	0.85	0.80	80.0	44.2	100	7.45	50.9	4.22	18.95	0.23	2.3	0.64	0.072	1.44	34.4	53.0	0.99	2830
1646	420164	7283005	<0.005	0.13	6.01	7.9	890	1.22	0.10	1.92	0.32	71.5	15.3	76	2.36	18.6	3.90	15.40	0.23	2.5	0.16	0.051	1.11	34.6	22.1	1.10	748
1648	419983	7283247	0.032	0.13	6.21	7.3	900	1.14	0.11	1.94	0.28	82.6	14.8	87	2.41	24.6	4.19	15.65	0.25	3.0	0.18	0.054	1.08	40.0	22.7	1.14	778
1649	419814	7283390	0.013	0.18	6.18	7.5	1000	1.18	0.11	1.88	0.35	74.3	13.9	89	2.72	28.3	3.61	15.00	0.24	2.5	0.23	0.048	1.19	35.7	24.3	1.13	698
1651	419740	7283568	0.007	0.12	6.14	7.6	920	1.20	0.10	1.79	0.24	78.1	15.8	87	2.40	20.5	3.76	14.75	0.22	2.6	0.10	0.049	1.13	37.8	23.0	1.08	782
1652	419613	7283978	<0.005	0.12	6.06	7.6	990	1.17	0.11	1.93	0.30	81.8	13.6	88	2.48	23.8	3.72	14.80	0.22	2.7	0.11	0.051	1.15	39.3	23.3	1.10	743
1653	419727	7284247	<0.005	0.11	5.79	7.1	890	1.16	0.10	1.92	0.25	70.8	11.4	76	2.21	17.2	3.00	13.95	0.19	2.2	0.19	0.044	1.19	34.3	21.8	1.02	530
1655	419572	7284496	0.006	0.10	6.10	8.7	940	1.28	0.11	1.88	0.32	90.2	14.2	91	2.60	21.8	3.53	15.20	0.23	2.8	0.13	0.053	1.22	43.9	24.6	1.06	761
1657	419397	7284859	<0.005	0.13	6.31	5.3	1030	1.26	0.10	1.98	0.43	72.6	14.6	83	2.48	33.9	3.22	15.05	0.20	2.4	0.43	0.050	1.21	34.5	23.6	1.14	515
1658	419404	7284980	<0.005	0.11	5.83	8.0	910	1.20	0.09	1.89	0.27	62.4	11.1	71	2.25	17.4	2.85	13.50	0.18	1.9	0.24	0.043	1.23	30.1	22.7	0.99	502
1659	419283	7285222	0.009	0.13	5.89	8.0	930	1.19	0.11	1.88	0.33	90.8	13.5	94	2.49	21.5	3.47	14.50	0.20	2.8	0.12	0.050	1.16	44.7	23.6	1.04	790
1660	419182	7285505	<0.005	0.14	6.02	8.2	950	1.18	0.10	1.85	0.32	80.4	13.9	88	2.52	24.0	3.57	14.65	0.23	2.6	0.18	0.050	1.19	38.6	24.1	1.06	644
1661	419175	7285599	<0.005	0.12	5.30	12.2	860	1.10	0.12	1.81	0.79	65.3	14.8	75	2.28	17.8	3.35	12.55	0.18	2.1	0.22	0.039	1.09	31.5	22.1	0.86	1290
1662	418980	7285861	<0.005	0.13	6.12	8.5	980	1.28	0.12	1.85	0.37	67.0	13.6	80	2.62	23.4	3.32	14.95	0.21	2.2	0.15	0.048	1.22	32.4	24.6	1.04	682
1664	418859	7286231	<0.005	0.12	5.91	7.4	920	1.21	0.10	1.99	0.24	63.7	11.6	77	2.01	19.9	3.30	13.40	0.17	2.7	0.10	0.043	1.14	32.5	20.3	1.08	598
1665	418785	7286574	0.007	0.14	5.86	8.4	910	1.42	0.14	1.74	0.31	67.8	12.6	78	2.40	24.7	3.25	13.95	0.19	2.5	0.07	0.047	1.21	34.1	25.0	1.02	637
1666	422304	7283213	0.007	0.14	5.99	7.4	820	1.25	0.11	1.94	0.27	76.3	13.7	81	2.21	24.3	3.51	14.25	0.20	2.8	0.12	0.048	1.16	36.1	23.6	1.12	626
1667	422520	7283604	<0.005	0.11	6.02	4.7	800	1.20	0.11	2.01	0.16	93.7	11.4	97	2.24	22.2	3.19	14.70	0.21	3.2	0.14	0.046	1.12	44.9	23.4	1.12	525
1668	422715	7283907	<0.005	0.10	6.12	4.3	850	1.21	0.10	1.76	0.14	66.8	10.0	80	2.45	22.5	2.87	14.50	0.18	2.6	0.20	0.044	1.21	34.0	24.3	1.06	404
1670	423029	7284073	0.014	0.12	5.88	6.8	860	1.18	0.11	1.82	0.20	60.9	11.4	79	2.24	22.2	3.19	13.55	0.17	2.2	0.08	0.045	1.14	30.7	22.6	1.02	508
1671	423528	7284132	0.005	0.15	5.87	6.3	870	1.26	0.12	1.72	0.16	74.2	11.2	87	2.39	21.8	3.01	13.80	0.22	2.6	0.13	0.046	1.20	37.1	24.3	1.00	456
1672	423783	7284220	<0.005	0.15	6.07	8.7	890	1.32	0.13	1.66	0.26	60.0	11.4	76	2.66	23.7	3.13	14.25	0.16	2.1	0.09	0.045	1.24	29.7	24.7	0.98	522
1673	424224	7284269	<0.005	0.11	6.11	7.7	940	1.20	0.13	1.87	0.28	57.7	12.4	76	2.27	22.2	3.28	13.55	0.18	2.2	0.09	0.045	1.22	29.1	23.5	1.05	585
1675	424605	7284347	0.019	0.08	5.79	7.1	790	1.16	0.11	1.98	0.21	105.5	13.2	108	1.99	20.3	3.50	13.75	0.23	3.5	0.09	0.048	1.08	50.4	21.2	1.10	666
1676	425026	7284426	<0.005	0.15	6.04	7.4	870	1.30	0.12	2.01	0.30	72.2	12.9	84	2.21	19.2	3.29	14.60	0.18	2.6	0.10	0.046	1.19	35.7	22.5	1.09	584
1677	425428	7284465	0.005	0.11	5.97	7.8	870	1.38	0.11	1.88	0.25	75.7	12.4	86	2.28	19.0	3.20	13.90	0.20	2.7	0.08	0.042	1.22	36.2	23.5	1.01	573
1679	422068	7291063	<0.005	0.22	6.29	10.3	1030	1.25	0.14	1.22	0.57	64.1	12.9	124	3.75	32.6	3.16	14.65	0.19	2.8	0.18	0.048	1.42	31.6	30.3	1.05	666
1681	421989	7291171	<0.005	0.16	6.01	8.7	980	1.22	0.13	1.94	0.44	55.5	11.4	73	2.49	23.8	2.95	13.10	0.18	2.3	0.13	0.039	1.34	28.0	22.5	1.07	566
1683	421794	7290867	<0.005	0.27	6.25	8.5	980	1.28	0.16	1.16	0.58	58.2	11.1	93	4.04	32.8	2.78	15.00	0.20	2.6	0.27	0.049	1.40	29.1	27.0	0.93	500
1684	421490	7290603	<0.005	0.20	6.09	9.6	970	1.26	0.14	1.20	0.46	75.0	11.2	99	3.37	31.5	2.89	14.45	0.20	2.9	0.17	0.048	1.34	34.8	24.5	0.88	472
1685	421324	7290368	0.005	0.20	6.11	7.9	940	1.20	0.14	1.29	0.48	55.1	10.4	76	3.35	27.2	2.63	14.15	0.17	2.2	0.23	0.049	1.37	27.5	22.5	0.86	454
1686	421177	7289957	0.016	0.13	6.04	6.9	910	1.16	0.13	1.54	0.26	94.8	10.6	117	2.85	21.9	2.81	14.65	0.25	3.7	0.09	0.045	1.26	45.5	21.6	0.92	517
1688	421118	7289517	<0.005	0.19	6.18	7.2	970	1.02	0.16	1.27	0.56	56.5	12.6	81	3.26	28.7	2.76	14.30	0.20	2.3	0.20	0.048	1.34	27.6	21.5	0.85	651
1689	411543	7268303	0.006	0.20	6.76	10.6	900	1.16	0.18	1.07	0.35	69.0	11.2	81	3.23	25.3	3.23	16.40	0.20	2.3	0.05	0.053	1.34	33.5	22.7	0.85	514

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1617	0.85	1.27	11.2	26.2	540	13.7	65.3	<0.002	0.03	1.06	1	2.10	195.0	0.84	<0.05	9.1	0.489	0.41	2.2	127	1.1	15.0	66	70.3	26	FA04030732
1618	0.76	1.26	9.5	23.6	510	12.0	58.2	<0.002	0.03	0.92	1	1.90	185.5	0.72	<0.05	9.3	0.453	0.35	2.0	120	1.0	14.4	63	62.0	22	FA04030732
1619	0.65	1.22	10.5	25.6	590	11.9	56.7	<0.002	0.04	1.00	1	2.00	184.5	0.80	<0.05	9.6	0.480	0.33	2.1	119	1.0	15.6	69	68.8	27	FA04030732
1621	1.33	0.92	11.8	31.5	770	13.9	71.8	<0.002	0.05	2.57	2	2.30	170.5	0.80	<0.05	9.4	0.426	0.44	2.1	137	1.1	15.9	98	62.6	30	FA04030732
1622	1.00	1.01	10.0	30.8	750	14.0	70.3	<0.002	0.04	0.90	1	2.10	167.0	0.74	<0.05	8.2	0.457	0.56	2.0	138	1.2	18.0	82	64.7	19	FA04030732
1624	1.27	0.99	11.0	40.6	770	14.7	81.0	<0.002	0.06	0.99	2	2.20	169.5	0.77	0.07	9.5	0.444	0.57	2.4	154	1.2	21.8	104	74.0	26	FA04030732
1625	0.87	1.03	10.2	38.0	720	13.1	69.4	<0.002	0.09	0.83	2	1.90	174.5	0.73	0.06	8.4	0.431	0.45	2.3	136	1.0	20.9	106	67.8	17	FA04030732
1626	0.78	1.12	10.2	37.5	610	11.3	64.3	<0.002	0.05	0.81	1	1.80	169.0	0.74	0.05	8.6	0.449	0.41	2.3	134	1.0	18.6	93	69.9	65	FA04030732
1627	0.51	1.32	10.8	29.4	480	9.0	51.6	<0.002	0.02	0.76	1	1.70	181.0	0.81	<0.05	9.1	0.507	0.30	2.1	118	1.0	16.1	77	67.9	48	FA04030732
1629	2.12	0.86	9.7	42.7	1100	19.7	91.6	<0.002	0.07	1.33	2	2.30	142.0	0.69	0.10	8.0	0.422	0.55	2.3	180	1.2	21.4	183	80.3	12	FA04030732
1646	1.04	1.47	13.3	27.9	800	11.3	52.7	<0.002	0.04	0.97	1	1.80	235.0	0.94	0.07	8.6	0.754	0.31	2.2	176	1.4	19.7	88	89.0	40	FA04030732
1648	1.19	1.41	16.0	29.2	800	11.3	52.2	<0.002	0.03	0.95	1	2.00	230.0	1.12	0.06	10.2	0.952	0.34	2.7	196	3.2	20.7	85	109.5	24	FA04030732
1649	1.19	1.34	12.2	30.1	800	12.1	59.0	<0.002	0.04	1.30	1	1.80	226.0	0.88	<0.05	9.0	0.606	0.36	2.5	150	1.1	19.2	92	85.1	17	FA04030732
1651	1.10	1.38	13.2	27.5	790	11.6	52.7	<0.002	0.03	0.96	1	1.80	227.0	0.94	<0.05	10.0	0.708	0.34	2.6	160	1.6	19.5	78	91.9	26	FA04030732
1652	1.16	1.36	13.4	28.5	820	11.3	55.5	<0.002	0.03	1.02	1	1.80	227.0	0.95	0.05	10.0	0.686	0.35	2.6	160	1.4	20.0	83	96.6	33	FA04030732
1653	0.99	1.43	10.8	26.7	790	10.8	53.0	<0.002	0.02	1.14	1	1.60	243.0	0.78	<0.05	8.9	0.462	0.32	2.3	122	1.0	18.1	73	75.4	109	FA04030732
1655	1.09	1.37	13.4	30.0	860	11.9	59.7	<0.002	0.03	1.07	1	1.80	233.0	0.95	0.06	11.0	0.619	0.37	2.9	148	1.8	21.4	85	100.5	40	FA04030732
1657	1.13	1.44	11.2	31.8	790	12.1	57.3	<0.002	0.03	1.10	1	1.70	238.0	0.84	<0.05	8.5	0.548	0.35	2.4	145	1.4	19.2	91	82.6	46	FA04030732
1658	0.83	1.42	9.6	27.3	810	10.9	55.1	<0.002	0.03	1.04	1	1.50	242.0	0.70	<0.05	7.8	0.396	0.31	2.0	112	0.8	16.4	74	66.8	56	FA04030732
1659	1.14	1.30	13.1	29.4	870	11.7	56.8	<0.002	0.03	1.06	1	1.80	226.0	0.97	0.05	11.4	0.595	0.35	2.8	143	2.3	21.0	83	98.7	41	FA04030732
1660	1.16	1.36	12.0	29.2	850	11.5	56.6	<0.002	0.03	1.07	1	1.70	230.0	0.87	<0.05	9.6	0.554	0.33	2.6	140	1.5	20.0	82	91.4	37	FA04030732
1661	1.18	1.13	9.8	28.2	1060	12.6	58.3	<0.002	0.06	1.17	1	1.50	208.0	0.70	0.05	8.9	0.396	0.33	2.2	113	1.1	16.8	102	72.4	20	FA04030732
1662	1.11	1.38	10.8	30.4	820	12.2	60.2	<0.002	0.03	1.14	1	1.70	233.0	0.78	<0.05	8.7	0.456	0.36	2.3	132	1.2	18.6	85	77.8	43	FA04030732
1664	0.97	1.44	11.2	27.1	820	10.2	48.7	0.002	0.02	0.98	1	1.50	234.0	0.84	<0.05	8.9	0.534	0.31	2.3	138	1.1	17.3	80	79.8	78	FA04030732
1665	1.04	1.31	11.5	29.5	770	11.2	56.1	0.003	0.03	1.07	1	1.60	218.0	0.85	0.05	9.3	0.502	0.38	2.4	134	1.2	17.6	86	75.3	36	FA04030732
1666	0.85	1.35	12.2	30.3	830	11.2	51.9	<0.002	0.03	0.93	1	1.60	230.0	0.89	<0.05	9.5	0.596	0.33	2.6	149	1.2	18.8	83	83.6	40	FA04030732
1667	0.69	1.40	13.9	29.0	810	11.0	52.6	<0.002	0.02	0.90	1	1.70	235.0	1.03	<0.05	12.0	0.682	0.32	2.8	148	1.7	20.0	76	94.1	33	FA04030732
1668	0.67	1.40	11.6	26.8	790	11.2	54.1	<0.002	0.03	0.84	1	1.70	231.0	0.84	<0.05	9.7	0.531	0.38	2.4	132	1.2	17.3	73	77.5	38	FA04030732
1670	0.81	1.32	10.0	26.6	750	10.5	50.2	<0.002	0.03	1.01	1	1.50	221.0	0.72	<0.05	8.2	0.478	0.33	2.1	136	1.3	15.8	74	66.7	39	FA04030732
1671	0.75	1.31	11.8	27.3	790	11.6	57.3	<0.002	0.03	0.98	1	1.70	220.0	0.86	<0.05	10.4	0.505	0.38	2.5	130	1.3	17.7	74	80.7	28	FA04030732
1672	0.99	1.33	9.4	28.6	790	11.6	59.5	0.002	0.04	1.03	1	1.60	220.0	0.72	<0.05	8.2	0.395	0.37	2.2	128	1.0	16.0	80	63.1	19	FA04030732
1673	0.87	1.40	10.4	27.5	780	11.6	53.9	<0.002	0.03	0.97	1	1.50	230.0	0.75	<0.05	8.2	0.478	0.36	2.1	137	1.2	16.2	84	68.0	47	FA04030732
1675	0.81	1.39	14.2	27.0	840	10.6	47.9	<0.002	0.02	0.91	1	1.60	234.0	0.99	<0.05	14.1	0.715	0.30	3.0	156	3.0	20.8	78	102.5	56	FA04030732
1676	0.84	1.47	12.0	29.5	810	11.2	54.7	0.002	0.02	1.00	1	1.60	244.0	0.82	<0.05	10.1	0.548	0.36	2.5	138	1.1	18.2	82	78.1	53	FA04030732
1677	0.77	1.39	11.7	28.3	850	11.0	54.7	<0.002	0.02	1.00	1	1.60	233.0	0.85	<0.05	10.4	0.528	0.34	2.6	136	1.5	17.9	82	85.6	56	FA04030732
1679	1.90	1.27	9.7	43.8	860	10.8	65.7	0.004	0.08	1.19	2	1.70	186.5	0.70	0.06	8.5	0.427	0.54	2.7	157	1.4	18.1	106	84.3	21	FA04030732
1681	1.06	1.43	9.5	30.1	860	10.8	56.3	0.003	0.03	1.09	1	1.40	246.0	0.69	<0.05	7.7	0.380	0.43	2.2	122	1.0	16.6	86	71.3	79	FA04030732
1683	1.69	1.20	9.3	37.2	740	11.8	69.9	0.008	0.05	1.13	3	1.60	185.5	0.67	0.06	8.0	0.378	0.58	2.7	150	0.9	18.4	98	86.1	37	FA04030732
1684	1.80	1.22	10.6	35.1	760	11.3	65.0	0.007	0.04	1.20	2	1.90	191.5	0.79	0.05	9.9	0.423	0.51	2.9	146	1.2	19.1	97	89.2	40	FA04030732
1685	1.21	1.31	9.4	30.9	770	11.2	65.8	0.004	0.04	1.09	2	1.50	213.0	0.68	0.06	7.4	0.345	0.53	2.3	128	0.8	18.5	86	68.9	29	FA04030732
1686	1.19	1.43	13.7	31.5	800	10.8	60.7	0.003	0.03	1.03	2	1.80	229.0	0.99	<0.05	11.7	0.532	0.47	3.0	131	1.7	21.2	83	110.0	55	FA04030732
1688	0.97	1.28	9.2	33.7	750	11.6	65.5	0.003	0.04	1.07	2	1.60	207.0	0.63	0.06	7.6	0.348	0.54	2.4	128	1.0	17.8	94	66.3	25	FA04030732
1689	1.31	1.23	10.4	29.1	720	12.6	75.0	<0.002	0.03	1.03	1	1.90	235.0	0.75	0.05	8.4	0.399	0.46	2.4	133	1.3	15.8	81	70.6	23	FA04030732

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1690	411734	7268037	<0.005	0.16	6.24	8.2	870	1.04	0.17	1.09	0.36	62.2	12.0	85	2.77	22.4	2.89	15.00	0.20	2.3	0.09	0.044	1.22	31.4	19.6	0.82	612
1692	411950	7267681	0.010	0.16	6.50	8.3	1030	1.18	0.16	1.74	0.47	61.8	13.1	82	2.90	29.0	3.03	15.15	0.19	2.3	0.09	0.044	1.46	31.2	22.7	1.12	601
1693	412179	7267338	<0.005	0.15	6.32	9.5	920	1.17	0.15	1.57	0.30	66.7	12.4	79	2.61	26.0	3.10	14.60	0.21	2.5	0.16	0.042	1.34	32.5	21.2	0.95	565
1694	412497	7267071	0.006	0.14	6.12	8.2	900	1.11	0.13	1.66	0.27	63.3	12.2	79	2.39	23.0	3.02	13.85	0.22	2.4	0.10	0.041	1.30	32.3	20.0	0.99	498
1695	412764	7266766	0.006	0.15	6.45	11.7	950	1.14	0.15	1.60	0.35	60.3	13.5	79	2.89	23.9	3.65	15.05	0.21	2.4	0.15	0.043	1.38	30.5	21.8	1.02	1015
1696	410840	7258108	<0.005	0.15	5.82	7.5	720	0.86	0.13	1.14	0.23	56.4	10.8	122	2.62	18.0	2.74	13.55	0.19	2.2	0.29	0.042	1.14	28.3	19.8	0.79	356
1697	410795	7258406	<0.005	0.11	5.39	5.6	580	0.84	0.08	1.24	0.23	50.1	13.2	226	1.92	15.1	2.53	12.25	0.17	1.9	0.21	0.034	0.96	24.9	17.6	1.28	406
1698	410735	7258793	<0.005	0.10	5.55	6.5	650	0.85	0.09	1.30	0.25	53.9	17.4	234	2.23	17.0	2.75	12.95	0.21	2.0	0.21	0.040	1.02	27.3	19.2	1.41	603
1699	410631	7259061	<0.005	0.12	5.92	8.0	760	0.98	0.12	1.51	0.29	63.4	17.8	258	2.50	22.0	3.06	13.65	0.23	2.2	0.15	0.046	1.16	31.7	21.5	1.56	589
1701	410593	7259568	0.015	0.12	5.77	7.0	710	1.06	0.10	1.59	0.25	76.1	18.8	568	2.32	18.8	3.18	13.45	0.24	2.8	0.11	0.040	1.10	38.6	22.6	1.87	589
1702	410362	7259829	<0.005	0.14	5.69	8.9	760	1.20	0.11	1.57	0.23	104.0	17.1	657	2.43	19.0	3.35	13.70	0.27	2.9	0.10	0.043	1.16	49.0	25.0	1.63	597
1703	410198	7260097	0.014	0.12	5.92	8.6	740	1.02	0.10	1.72	0.28	81.6	21.0	461	2.35	20.2	3.40	13.55	0.22	2.8	0.08	0.042	1.12	40.1	22.2	2.04	703
1704	414590	7240929	<0.005	0.53	6.98	42.9	630	2.01	1.90	1.38	0.68	124.0	15.9	79	15.55	93.5	3.78	16.20	0.28	0.9	0.11	0.074	1.66	57.4	39.9	1.14	1630
1705	414955	7240647	0.007	0.66	7.77	50.7	700	1.96	2.95	1.38	0.44	134.0	15.4	95	18.80	97.7	4.93	18.55	0.30	1.3	0.04	0.100	2.03	69.6	46.6	1.33	1165
1706	416862	7244267	<0.005	0.22	6.48	15.0	920	1.52	0.26	1.54	0.35	57.0	13.0	73	3.36	35.5	3.10	15.35	0.19	2.0	0.15	0.050	1.36	28.1	25.9	1.00	479
1707	416945	7244525	<0.005	0.17	6.71	8.2	930	1.34	0.22	1.46	0.22	64.8	11.3	86	3.43	25.9	2.81	15.55	0.21	2.2	0.12	0.048	1.36	31.9	27.0	1.01	343
1708	417015	7244808	<0.005	0.22	6.40	20.0	810	1.58	0.48	1.65	0.27	95.3	12.6	86	5.05	25.1	3.50	15.35	0.22	2.5	0.19	0.060	1.30	44.6	27.7	1.03	585
1710	417110	7245031	<0.005	0.14	6.33	10.7	830	1.10	0.20	1.56	0.23	71.1	12.6	86	3.04	25.6	3.11	14.20	0.22	2.3	0.10	0.052	1.27	35.8	25.9	0.96	503
1711	417416	7245372	<0.005	0.17	6.23	12.6	790	1.26	0.18	1.62	0.25	95.9	13.2	104	3.10	23.3	3.30	14.90	0.24	3.0	0.24	0.054	1.22	44.2	24.6	1.02	610
1772	440049	7265282	0.015	0.13	5.67	6.3	650	0.90	0.13	1.42	0.26	56.8	22.4	216	2.37	22.9	3.04	12.95	0.20	1.9	0.28	0.044	1.07	28.5	21.4	1.53	1085
1773	440183	7264819	0.011	0.10	5.88	6.6	610	0.91	0.14	1.39	0.26	53.5	19.8	200	2.52	25.4	3.09	13.40	0.17	2.0	0.15	0.045	1.06	25.5	24.4	1.54	692
1775	440399	7263833	0.034	0.25	4.93	8.6	670	1.04	0.14	1.36	0.57	50.7	17.1	91	2.78	34.4	2.75	11.55	0.17	1.8	0.25	0.037	0.96	25.9	21.6	0.97	1000
1776	437180	7256522	0.023	0.87	6.27	30.0	730	1.17	1.06	1.16	1.98	69.8	12.9	87	4.66	37.5	3.05	14.90	0.20	2.2	0.20	0.155	1.30	33.5	25.1	0.94	619
1777	436889	7256611	0.005	0.22	6.44	13.6	790	1.34	0.21	1.52	0.60	75.8	12.4	95	2.92	26.2	3.11	14.50	0.19	2.2	0.10	0.056	1.34	37.0	26.2	1.06	569
1778	436719	7256546	0.018	0.67	6.48	51.6	720	1.32	0.91	1.10	1.63	69.7	21.6	98	5.02	42.1	3.60	15.30	0.20	2.2	0.27	0.177	1.38	33.9	27.2	1.01	1265
1779	436614	7256190	0.027	0.34	6.15	9.5	680	1.05	0.31	1.13	0.56	58.2	13.5	83	4.26	21.4	2.87	14.30	0.19	2.0	0.19	0.059	1.36	27.8	25.6	1.00	601
1780	436549	7256328	0.010	0.48	6.22	7.8	670	1.13	0.30	0.99	0.46	73.2	11.2	92	5.47	27.1	2.87	15.00	0.20	2.3	0.13	0.063	1.30	35.5	27.1	0.95	522
1781	436517	7256870	0.013	0.67	6.52	30.0	790	1.23	0.72	1.26	1.30	71.0	22.9	95	5.83	37.0	3.53	15.10	0.23	2.2	0.28	0.093	1.38	34.0	28.7	1.03	1660
1782	436533	7257072	0.005	0.36	6.34	23.6	800	1.18	0.26	1.50	0.88	78.6	15.4	95	3.41	34.9	3.34	15.50	0.25	2.4	0.20	0.070	1.32	38.0	26.2	1.07	880
1783	436217	7257250	0.013	0.25	6.09	14.5	680	1.13	0.21	1.38	0.42	78.3	12.2	107	3.62	24.5	2.96	13.95	0.23	2.4	0.25	0.056	1.22	38.2	24.6	1.05	555
1784	435901	7257371	0.006	0.28	5.87	11.9	680	1.12	0.17	1.38	0.37	73.9	11.6	94	3.44	23.4	2.70	13.55	0.21	2.2	0.34	0.047	1.20	36.5	26.1	0.96	528
1785	437946	7257186	0.119	0.78	5.04	50.7	570	0.92	0.52	0.83	0.89	44.8	7.6	71	2.91	32.0	2.38	12.20	0.11	1.5	0.30	0.125	1.03	20.8	18.4	0.69	308
1786	437646	7257607	0.017	0.98	6.32	111.5	680	1.24	0.96	1.00	1.18	65.2	17.8	90	5.15	51.7	3.28	15.35	0.23	2.0	0.38	0.113	1.32	31.8	28.2	0.91	964
1788	437347	7257785	0.023	0.92	6.30	106.0	680	1.08	0.91	1.12	1.34	66.9	19.1	93	4.91	51.4	3.34	15.55	0.21	2.3	0.33	0.120	1.28	33.3	26.1	0.94	1000
1789	437046	7258098	0.019	0.52	6.37	49.7	740	1.18	0.43	1.30	1.29	66.5	17.8	97	4.25	38.0	3.25	14.70	0.21	2.2	0.30	0.078	1.33	32.3	25.7	1.01	1250
1790	436674	7258357	0.034	0.38	6.36	38.6	780	1.17	0.31	1.35	2.43	68.6	21.6	100	4.09	37.3	3.43	14.75	0.22	2.1	0.76	0.065	1.34	32.3	29.0	1.04	1915
1791	429519	7256305	0.010	0.21	6.34	64.0	800	1.24	3.52	1.62	0.28	61.2	14.2	88	3.26	57.5	3.46	14.95	0.20	2.3	0.20	0.055	1.40	29.6	25.1	1.07	581
1792	429452	7256514	0.011	0.30	6.28	26.6	680	0.96	2.27	1.20	0.22	64.1	13.2	96	4.20	29.3	3.24	14.45	0.19	2.1	0.27	0.079	1.32	31.2	24.4	1.11	670
1794	429265	7256841	0.026	0.22	6.47	59.3	670	1.15	4.18	1.30	0.12	73.0	12.8	101	4.09	39.2	4.04	14.10	0.20	2.3	0.25	0.068	1.32	35.9	23.8	1.10	587
1795	429213	7257125	0.084	0.71	4.61	54.9	550	1.01	4.48	0.96	0.17	51.4	9.9	68	3.14	265.0	3.57	10.75	0.18	1.6	0.48	0.066	0.93	23.4	17.4	0.70	403
1796	428907	7257274	0.037	0.76	5.79	92.5	540	1.06	12.55	0.73	0.16	59.5	9.8	86	7.31	144.0	2.72	14.10	0.18	1.9	0.25	0.088	1.21	29.3	26.4	0.83	421
1797	428915	7257192	0.096	0.30	5.23	14.5	520	1.09	0.54	0.95	0.21	50.2	11.8	73	7.02	281.0	2.46	11.75	0.20	1.7	0.64	0.063	1.08	24.7	23.5	0.86	424
1798	428557	7257438	0.009	0.18	6.50	12.4	820	1.38	0.21	1.56	0.24	98.7	15.2	107	3.04	39.8	3.39	15.30	0.23	2.9	0.17	0.056	1.32	45.0	26.8	1.09	582

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1690	1.13	1.28	10.2	29.2	730	12.9	63.1	<0.002	0.03	0.95	1	1.70	246.0	0.70	<0.05	8.5	0.390	0.42	2.4	118	1.0	16.4	78	70.8	24	FA04030732
1692	0.74	1.34	10.4	35.1	910	12.7	65.1	0.002	0.05	1.14	1	1.70	246.0	0.75	<0.05	8.7	0.390	0.41	2.4	124	1.0	17.9	91	68.1	45	FA04030732
1693	0.98	1.42	11.1	31.7	800	13.1	62.0	<0.002	0.04	1.24	1	1.60	236.0	0.85	0.05	9.1	0.417	0.38	2.3	124	1.1	18.0	80	72.2	70	FA04030732
1694	0.84	1.40	10.9	30.5	820	11.8	59.7	0.002	0.04	1.12	1	1.60	238.0	0.78	<0.05	8.8	0.421	0.36	2.3	120	1.2	17.3	78	70.5	74	FA04030732
1695	0.91	1.29	10.6	34.5	910	12.8	68.1	<0.002	0.05	1.17	1	1.70	222.0	0.77	<0.05	8.5	0.404	0.43	2.2	128	1.1	17.1	94	72.2	38	FA04030732
1696	0.69	1.11	9.0	46.8	660	11.2	58.0	<0.002	0.03	0.94	1	1.50	186.0	0.62	<0.05	7.8	0.367	0.38	2.0	124	0.8	14.4	72	67.1	23	FA04030732
1697	0.44	1.16	7.6	87.9	580	8.8	46.3	<0.002	0.02	0.78	1	1.10	171.5	0.52	<0.05	6.3	0.366	0.30	1.7	116	1.0	13.6	68	57.7	25	FA04030732
1698	0.45	1.17	8.5	123.5	620	9.8	49.8	<0.002	0.02	0.87	1	1.30	181.5	0.63	<0.05	7.0	0.376	0.31	1.7	117	0.8	14.3	78	60.9	24	FA04030732
1699	0.65	1.25	9.6	123.5	700	11.3	57.9	<0.002	0.03	1.07	1	1.50	198.0	0.68	<0.05	8.6	0.405	0.37	2.0	124	1.0	16.0	88	66.1	38	FA04030732
1701	0.59	1.24	11.1	136.0	690	10.2	52.9	<0.002	0.02	1.07	1	1.70	195.5	0.80	<0.05	10.6	0.487	0.38	2.3	128	1.3	17.6	87	86.3	27	FA04030732
1702	0.76	1.21	12.6	103.0	830	9.8	53.3	0.002	0.02	1.34	1	1.50	191.5	0.91	<0.05	11.7	0.533	0.34	2.6	137	1.1	18.4	91	87.4	35	FA04030732
1703	0.62	1.28	11.3	156.5	740	10.1	52.6	<0.002	0.02	1.11	1	1.50	201.0	0.85	<0.05	10.0	0.498	0.34	2.2	132	0.9	17.8	90	85.4	29	FA04030732
1704	0.72	0.81	19.6	43.5	1920	32.5	124.0	<0.002	0.05	2.17	1	6.20	352.0	1.50	0.06	14.8	0.407	0.87	5.4	130	1.9	20.8	141	23.1	30	FA04030732
1705	0.65	0.88	31.3	44.5	2310	33.5	151.0	<0.002	0.02	2.65	1	7.90	333.0	2.46	0.07	29.9	0.582	1.04	5.5	187	2.5	18.5	165	31.3	24	FA04030732
1706	1.04	1.39	10.0	37.7	720	15.7	71.6	<0.002	0.02	1.58	1	1.90	224.0	0.70	0.05	8.6	0.349	0.46	2.5	118	1.0	16.3	82	57.9	62	FA04030732
1707	0.62	1.43	10.8	33.7	690	14.2	70.7	<0.002	0.03	1.37	1	1.90	226.0	0.79	<0.05	8.6	0.408	0.45	2.3	120	1.0	15.5	83	63.0	38	FA04030732
1708	0.93	1.44	16.6	31.1	1170	16.6	76.7	0.002	0.02	1.51	1	2.40	247.0	1.19	0.06	14.2	0.453	0.51	4.3	124	1.6	19.5	83	69.5	47	FA04030732
1710	0.77	1.43	10.9	32.3	730	12.6	63.2	<0.002	0.02	1.37	1	1.80	227.0	0.74	<0.05	9.8	0.431	0.45	2.2	118	1.3	17.2	71	66.1	62	FA04030732
1711	0.88	1.37	13.2	34.0	850	13.5	64.0	0.002	0.03	1.40	1	1.90	229.0	0.98	0.05	12.1	0.497	0.40	2.9	126	1.4	19.3	80	83.3	57	FA04030732
1772	0.53	1.20	9.0	162.0	580	10.4	55.2	<0.002	0.04	1.18	1	1.50	185.5	0.58	<0.05	7.4	0.366	0.38	1.9	108	0.8	14.9	71	56.3	27	FA04030732
1773	0.55	1.24	8.6	124.5	440	10.8	55.5	<0.002	0.03	1.35	1	1.60	174.5	0.63	0.05	6.8	0.373	0.35	1.8	112	0.9	14.3	67	56.6	25	FA04030732
1775	1.07	0.95	7.7	107.0	870	11.1	55.4	<0.002	0.07	1.22	1	1.50	158.0	0.57	0.05	7.0	0.310	0.42	1.8	106	0.9	13.7	71	50.3	17	FA04030732
1776	2.12	1.21	9.8	31.9	740	21.7	68.8	0.002	0.03	1.52	1	2.20	188.0	0.72	0.05	8.7	0.398	0.57	2.3	121	1.4	15.9	102	64.1	17	FA04030732
1777	0.93	1.35	10.4	34.8	680	14.3	65.1	<0.002	0.02	1.30	1	2.00	214.0	0.75	0.05	10.5	0.432	0.46	2.4	123	1.0	16.9	88	64.8	41	FA04030732
1778	2.71	1.10	10.0	38.3	800	38.7	71.2	<0.002	0.03	2.32	1	2.50	172.0	0.69	0.06	9.2	0.412	0.74	2.1	134	1.7	15.8	138	63.0	44	FA04030732
1779	0.87	1.22	9.7	29.1	630	16.2	66.0	<0.002	0.03	1.09	1	2.10	182.5	0.67	<0.05	7.2	0.396	0.45	1.8	124	1.3	12.4	81	56.5	21	FA04030732
1780	0.85	1.18	10.6	31.5	580	21.2	68.1	<0.002	0.02	1.01	1	2.90	174.0	0.73	0.06	9.5	0.446	0.47	2.1	124	1.1	13.4	84	67.2	21	FA04030732
1781	1.53	1.18	10.2	37.5	780	26.0	71.3	<0.002	0.03	1.60	1	2.30	185.5	0.71	0.06	9.2	0.434	0.59	2.3	136	1.4	16.0	117	65.3	39	FA04030732
1782	1.08	1.26	11.2	38.7	730	22.3	67.3	<0.002	0.02	1.67	1	2.10	204.0	0.85	0.05	10.5	0.448	0.44	2.5	129	1.1	18.1	102	71.1	75	FA04030732
1783	0.73	1.32	10.8	33.7	630	16.2	58.7	<0.002	0.02	1.31	1	1.80	198.5	0.79	<0.05	10.1	0.465	0.39	2.4	122	1.1	16.1	90	63.6	62	FA04030732
1784	0.61	1.34	10.3	32.6	630	14.2	58.1	<0.002	0.02	1.29	1	1.80	205.0	0.73	<0.05	9.6	0.430	0.35	2.1	111	1.0	16.0	76	64.3	56	FA04030732
1785	1.61	0.96	7.8	25.3	520	18.0	48.7	0.002	0.04	1.11	1	2.50	134.5	0.60	0.05	6.0	0.354	0.33	1.5	90	1.4	9.5	116	43.9	8	FA04030732
1786	2.22	1.09	9.7	33.4	730	33.9	72.7	<0.002	0.04	1.88	1	2.60	171.0	0.68	0.07	8.2	0.402	0.66	2.1	128	2.1	13.6	123	58.5	37	FA04030732
1788	2.01	1.18	10.4	35.7	720	34.2	72.2	<0.002	0.04	2.42	1	2.40	182.5	0.73	0.07	8.8	0.416	0.60	2.3	129	1.7	16.4	122	64.6	28	FA04030732
1789	1.23	1.29	10.0	37.1	750	27.9	67.2	<0.002	0.03	1.94	1	2.10	197.0	0.72	0.06	8.9	0.415	0.49	2.1	126	1.4	15.4	114	62.4	33	FA04030732
1790	1.05	1.24	9.6	41.4	770	20.9	67.5	<0.002	0.04	1.79	1	2.00	197.5	0.66	0.06	8.6	0.389	0.51	2.2	126	1.4	16.8	150	62.2	38	FA04030732
1791	0.85	1.36	10.2	41.2	900	12.2	73.3	<0.002	0.06	1.39	1	3.00	226.0	0.68	0.08	8.5	0.385	0.61	2.1	122	1.9	17.1	118	66.4	40	FA04030732
1792	0.73	1.20	9.9	32.9	720	12.2	72.2	<0.002	0.04	1.20	1	5.80	172.5	0.66	0.06	7.7	0.434	0.48	1.9	134	14.0	14.6	77	58.9	22	FA04030732
1794	0.84	1.23	10.2	32.9	830	11.7	72.7	<0.002	0.05	1.27	1	6.30	186.5	0.70	0.07	9.1	0.436	0.59	2.1	130	20.5	15.1	63	64.9	30	FA04030732
1795	0.80	0.90	7.5	25.6	830	20.9	47.0	0.003	0.09	1.38	1	3.20	129.0	0.53	0.05	6.1	0.316	0.39	2.1	87	2.4	14.8	53	50.8	8	FA04030732
1796	0.91	0.98	8.6	30.3	570	31.7	87.1	<0.002	0.04	3.44	1	10.10	128.0	0.60	0.09	7.5	0.371	0.68	1.9	120	7.7	12.6	67	53.9	18	FA04030732
1797	0.78	0.94	7.7	35.2	790	13.3	63.9	<0.002	0.08	1.39	2	3.30	145.0	0.55	<0.05	6.4	0.317	0.45	1.7	102	0.9	14.4	63	47.7	14	FA04030732
1798	1.10	1.44	12.8	36.3	800	15.8	63.8	<0.002	0.03	1.52	1	3.20	226.0	0.86	0.05	12.4	0.513	0.41	2.8	133	1.1	19.9	82	80.8	48	FA04030732

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1799	428184	7257601	0.098	0.29	6.15	41.9	630	1.12	2.88	1.25	0.23	83.9	17.3	116	4.63	154.0	3.21	13.80	0.20	2.3	1.06	0.063	1.16	38.5	27.1	0.95	608
1800	427960	7257654	0.019	0.32	6.66	34.7	760	1.49	1.92	1.34	0.35	76.0	19.6	96	4.91	186.5	3.45	14.95	0.24	2.4	0.70	0.068	1.30	37.6	31.8	1.02	654
1802	427625	7257922	0.015	0.26	6.69	18.9	860	1.28	0.73	1.36	0.42	91.5	15.6	108	4.14	60.2	3.81	15.75	0.27	2.5	0.41	0.060	1.45	42.8	30.0	1.06	604
1804	427408	7257907	0.005	0.22	6.50	17.7	820	1.64	0.64	1.49	0.40	72.3	16.0	89	3.67	78.8	3.36	14.65	0.20	2.3	0.26	0.057	1.36	35.9	30.9	1.05	588
1805	426953	7258004	0.009	0.22	6.63	13.5	840	1.48	0.45	1.52	0.45	71.8	15.8	87	3.51	76.4	3.27	15.50	0.21	2.3	0.33	0.056	1.43	35.6	32.9	1.05	515
1806	426618	7258235	0.009	0.24	6.17	21.3	760	1.10	0.98	1.30	0.36	66.2	16.8	86	3.80	98.9	3.32	14.10	0.22	2.0	0.28	0.053	1.29	32.8	25.2	0.99	615
1822	422647	7269502	<0.005	0.10	5.87	8.2	790	1.08	0.12	1.65	0.21	68.0	11.1	89	2.19	17.6	2.99	13.20	0.19	2.3	0.10	0.043	1.21	32.9	19.2	0.97	518
1823	422479	7269553	<0.005	0.11	5.50	7.9	680	1.02	0.17	1.02	0.19	57.1	11.4	71	2.66	20.3	2.75	13.30	0.18	1.9	0.10	0.040	1.16	27.7	21.6	0.77	577
1826	422069	7269860	0.005	0.12	5.59	8.2	770	1.04	0.15	1.34	0.22	70.4	9.7	80	2.57	18.4	2.71	13.85	0.19	2.2	0.09	0.041	1.14	33.7	25.7	0.83	485
1827	421981	7269970	0.006	0.09	5.42	6.2	750	1.14	0.11	1.54	0.24	77.2	9.8	88	2.16	16.0	2.71	12.35	0.19	2.5	0.19	0.037	1.10	38.0	24.7	0.87	585
1828	421703	7270313	<0.005	0.11	5.87	7.1	830	1.38	0.15	1.42	0.31	64.2	9.9	76	2.46	21.1	2.82	13.00	0.17	2.1	0.11	0.041	1.20	30.6	27.3	0.87	533
1831	421301	7270949	<0.005	0.14	5.94	9.0	880	1.72	0.15	1.66	0.35	65.8	11.7	75	2.61	23.6	2.95	13.70	0.18	2.2	0.13	0.046	1.28	31.8	31.6	0.95	542
1832	421132	7271337	<0.005	0.08	5.78	6.6	830	1.42	0.11	1.67	0.23	65.9	9.8	75	2.25	15.4	2.71	13.50	0.18	2.2	0.10	0.040	1.22	32.5	25.9	0.92	467
1833	420942	7271585	<0.005	0.10	5.85	7.4	810	1.20	0.12	1.64	0.23	74.6	10.6	83	2.30	17.0	2.80	13.25	0.19	2.4	0.07	0.041	1.21	36.3	25.4	0.92	588
1835	420547	7268042	0.013	0.09	5.20	7.3	630	1.12	0.13	1.04	0.13	52.0	7.4	75	2.27	12.2	2.50	12.15	0.16	1.8	0.07	0.034	1.05	25.5	22.0	0.75	335
1838	420672	7269036	<0.005	0.12	6.00	8.1	810	1.62	0.15	1.42	0.26	67.3	12.2	81	2.68	19.3	2.99	14.45	0.19	2.2	0.08	0.042	1.28	32.2	28.8	0.94	699
1839	420650	7269248	<0.005	0.10	5.83	8.7	800	1.38	0.15	1.44	0.28	69.6	13.6	85	2.67	20.7	3.10	13.70	0.22	2.3	0.12	0.043	1.26	33.3	24.1	0.91	919
1840	420803	7269182	0.103	0.13	5.90	8.7	830	1.28	0.14	1.36	0.34	61.4	12.2	76	2.72	22.3	2.82	13.90	0.18	2.2	0.11	0.042	1.24	29.9	25.1	0.86	681
1841	420562	7269591	0.011	0.10	5.79	7.9	810	1.20	0.13	1.48	0.28	63.7	11.4	78	2.45	18.0	2.89	13.70	0.22	2.3	0.10	0.040	1.22	31.8	21.8	0.90	661
1844	419999	7269986	0.010	0.12	5.97	7.8	840	1.22	0.12	1.60	0.30	73.3	11.8	90	2.51	19.6	2.91	13.95	0.21	2.6	0.13	0.042	1.28	35.7	23.5	0.94	645
1845	419713	7270300	<0.005	0.09	5.97	7.9	840	1.18	0.13	1.68	0.32	77.8	12.3	94	2.51	20.2	3.10	13.80	0.21	2.7	0.13	0.043	1.26	37.8	21.5	0.99	631
1846	419320	7270477	0.005	0.10	5.83	8.8	830	1.14	0.13	1.47	0.32	68.4	12.4	85	2.58	22.0	3.07	13.85	0.20	2.4	0.12	0.039	1.26	32.5	21.2	0.93	714
1847	415944	7261107	0.009	0.10	5.76	6.9	600	0.82	0.09	2.17	0.27	56.4	28.4	1915	1.56	17.8	4.04	12.00	0.22	2.1	0.11	0.037	0.84	27.0	14.8	2.26	753
1848	415758	7260958	0.013	0.08	5.11	3.8	520	0.68	0.07	2.06	0.22	49.0	32.5	1770	1.53	16.4	3.65	10.95	0.20	2.0	0.11	0.033	0.76	23.8	13.7	2.76	851
1849	415601	7261174	<0.005	0.11	5.40	9.1	820	0.99	0.11	1.32	0.24	64.8	18.3	365	2.65	20.7	3.29	12.75	0.21	2.0	0.07	0.039	1.14	31.3	25.0	1.82	580
1851	415646	7261398	0.006	0.09	5.14	5.2	470	0.71	0.07	2.11	0.16	45.0	35.9	1915	1.38	16.9	4.03	10.70	0.20	1.8	0.12	0.036	0.70	21.5	15.9	4.11	717
1852	415549	7261726	0.013	0.11	5.17	5.9	510	0.68	0.06	2.09	0.21	57.8	35.0	2320	1.52	17.6	4.03	11.15	0.21	2.1	0.07	0.037	0.75	27.6	17.0	3.85	737
1853	415407	7262068	0.010	0.11	5.29	6.8	600	0.87	0.08	1.82	0.22	58.2	29.5	1170	1.80	19.2	3.74	11.65	0.19	2.3	0.13	0.039	0.86	28.3	18.9	3.24	666
1854	415161	7262389	0.010	0.09	5.30	6.4	570	0.95	0.07	2.02	0.19	84.2	30.7	1965	1.71	17.0	3.91	12.25	0.24	2.3	0.08	0.039	0.83	39.0	19.8	3.33	718
1855	417231	7261541	<0.005	0.11	5.35	4.3	400	0.51	0.06	1.72	0.30	36.5	40.0	1390	1.93	35.3	3.93	10.90	0.17	1.6	0.17	0.036	0.64	18.2	19.8	4.74	667
1857	417216	7262017	<0.005	0.12	5.32	6.3	500	0.83	0.06	1.64	0.21	43.8	34.0	716	1.66	27.0	4.06	11.15	0.19	1.6	0.07	0.032	0.75	21.3	20.8	4.46	665
1858	417157	7262286	<0.005	0.11	5.14	5.8	500	0.88	0.06	1.72	0.18	49.0	28.7	755	1.63	23.2	3.74	11.05	0.19	1.6	0.07	0.035	0.78	24.0	23.1	4.02	620
1859	417194	7262696	0.008	0.13	5.51	6.6	560	1.22	0.08	1.83	0.28	56.6	25.9	688	1.94	28.7	3.64	12.20	0.16	2.1	0.09	0.038	0.89	26.0	25.4	3.43	663
1861	431470	7273108	0.006	0.18	5.76	8.2	880	1.65	0.19	1.34	0.57	65.4	11.6	84	3.13	27.4	2.86	14.10	0.18	2.2	0.14	0.046	1.20	31.8	30.4	0.81	775
1863	431284	7272850	0.005	0.21	4.89	9.1	990	1.40	0.17	1.06	0.83	54.3	13.4	67	3.10	36.9	2.57	11.90	0.17	2.0	0.30	0.039	0.99	25.6	23.5	0.61	847
1864	431016	7272500	<0.005	0.18	5.01	10.9	1080	1.52	0.17	1.18	0.75	58.1	16.4	74	3.15	36.2	2.81	12.40	0.19	2.0	0.28	0.040	1.02	27.2	25.2	0.64	1335
1865	430746	7272322	0.007	0.22	5.22	9.3	1230	1.56	0.17	1.37	0.60	58.3	13.2	78	3.03	37.7	2.63	12.65	0.19	2.2	0.35	0.044	1.08	28.3	26.3	0.71	582
1868	430243	7272476	0.009	0.18	5.87	10.5	1040	1.68	0.19	0.89	0.46	73.3	23.9	80	3.63	28.3	3.49	14.70	0.21	2.2	0.34	0.052	1.13	33.2	30.9	0.71	1500
1869	430001	7272052	0.010	0.22	5.00	10.0	1380	1.27	0.16	1.42	0.70	57.8	14.6	78	2.77	35.4	2.82	12.95	0.17	2.2	0.22	0.041	1.02	27.4	23.7	0.80	836
1870	429709	7271789	0.013	0.22	4.96	13.0	1310	1.36	0.16	1.29	0.78	56.6	16.6	72	2.74	32.5	3.15	12.55	0.20	2.0	0.27	0.044	1.01	26.3	22.2	0.75	1175
1871	429058	7271628	<0.005	0.17	5.59	10.6	940	1.07	0.19	0.92	0.27	53.9	12.1	83	2.86	23.4	2.87	14.35	0.15	1.8	0.25	0.048	1.11	27.7	19.9	0.70	417
1872	429160	7271497	<0.005	0.18	5.51	8.3	1060	1.22	0.14	1.41	0.38	57.8	14.4	77	2.55	26.4	2.65	15.00	0.17	1.8	0.30	0.046	1.14	28.8	18.9	0.83	461
1873	428845	7271285	0.006	0.16	5.58	7.6	1020	1.10	0.14	1.52	0.42	63.4	15.5	82	2.46	24.9	2.70	14.15	0.18	1.9	0.31	0.044	1.12	31.4	19.4	0.84	651

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1799	0.93	1.20	10.4	36.7	670	18.4	63.7	<0.002	0.03	1.62	1	4.00	176.0	0.70	0.05	9.7	0.449	0.48	2.2	122	76.4	17.1	84	64.8	27	FA04030732
1800	1.01	1.22	10.7	43.5	730	20.7	72.6	<0.002	0.04	1.80	2	3.70	189.5	0.74	0.05	9.5	0.423	0.53	2.3	128	6.1	18.8	105	65.5	42	FA04030732
1802	2.36	1.26	11.7	39.8	850	25.3	78.7	<0.002	0.04	2.00	2	2.10	204.0	0.82	0.09	11.6	0.454	0.51	2.7	140	3.7	18.3	103	71.1	60	FA04030732
1804	1.38	1.29	10.8	40.6	750	20.6	69.9	<0.002	0.03	1.81	1	2.60	205.0	0.75	0.06	10.1	0.432	0.48	2.5	127	1.3	17.9	98	66.3	53	FA04030732
1805	1.27	1.35	10.8	41.5	720	17.6	72.1	<0.002	0.03	1.52	1	2.00	216.0	0.75	0.05	10.1	0.421	0.49	2.4	124	2.0	18.1	98	66.7	81	FA04030732
1806	1.53	1.19	9.9	38.7	700	19.9	65.6	<0.002	0.03	1.62	1	2.40	184.0	0.67	0.07	8.1	0.414	0.40	2.1	122	4.2	16.1	100	65.6	63	FA04030732
1822	0.86	1.34	10.4	26.4	700	11.3	52.2	<0.002	0.02	1.12	1	1.50	219.0	0.71	<0.05	9.0	0.439	0.32	2.2	121	1.0	16.2	72	75.3	41	FA04030732
1823	1.21	1.05	9.7	22.0	620	13.0	56.7	<0.002	0.03	1.02	1	1.70	165.0	0.72	<0.05	7.8	0.377	0.38	2.2	115	0.9	12.6	63	69.5	21	FA04030732
1826	1.08	1.21	10.8	22.7	640	12.5	56.3	<0.002	0.03	1.11	1	1.80	194.0	0.75	0.06	8.9	0.417	0.36	2.6	114	1.1	15.3	68	75.1	36	FA04030732
1827	0.91	1.27	11.2	22.1	690	11.8	49.5	<0.002	0.02	1.09	1	1.70	208.0	0.75	<0.05	11.3	0.462	0.31	2.8	112	1.6	16.0	70	80.1	41	FA04030732
1828	1.07	1.26	10.0	23.7	690	12.6	53.0	<0.002	0.03	1.10	1	1.60	203.0	0.69	<0.05	8.7	0.402	0.37	2.4	116	0.9	14.6	71	67.9	22	FA04030732
1831	1.04	1.34	10.6	29.7	760	13.1	57.9	0.002	0.03	1.31	1	1.70	223.0	0.71	0.05	9.3	0.401	0.39	2.5	115	1.2	16.6	79	80.5	62	FA04030732
1832	0.73	1.40	10.5	24.8	730	11.0	52.7	0.002	0.02	1.04	1	1.60	226.0	0.70	<0.05	8.9	0.411	0.32	2.2	113	0.9	15.6	74	72.1	39	FA04030732
1833	0.86	1.39	11.0	25.5	760	11.1	53.8	<0.002	0.02	1.07	1	1.60	229.0	0.75	<0.05	9.7	0.439	0.35	2.5	115	1.0	16.5	72	77.8	35	FA04030732
1835	0.97	1.11	8.7	18.7	540	11.4	47.4	<0.002	0.03	0.92	1	1.70	168.0	0.62	<0.05	6.9	0.366	0.31	1.9	108	0.7	10.7	55	58.4	21	FA04030732
1838	1.18	1.30	11.0	26.5	710	13.4	56.7	<0.002	0.02	1.24	1	2.00	209.0	0.76	0.06	9.4	0.435	0.36	2.5	122	0.9	15.5	76	73.0	22	FA04030732
1839	1.35	1.22	10.8	25.8	740	13.3	56.6	<0.002	0.03	1.15	1	1.70	201.0	0.76	<0.05	8.8	0.435	0.38	2.6	122	0.8	15.8	79	82.9	46	FA04030732
1840	1.12	1.28	10.6	26.1	720	12.6	57.0	<0.002	0.03	1.19	1	1.70	209.0	0.76	<0.05	7.9	0.394	0.36	2.4	117	0.9	15.5	75	70.1	43	FA04030732
1841	1.02	1.30	10.5	25.2	690	12.0	54.0	<0.002	0.03	1.07	1	1.60	211.0	0.76	<0.05	8.3	0.423	0.34	2.4	117	1.0	15.5	73	78.7	48	FA04030732
1844	0.96	1.36	11.4	28.5	720	11.6	56.9	<0.002	0.03	1.11	1	1.70	222.0	0.76	<0.05	9.4	0.455	0.33	2.6	122	1.0	17.1	77	83.0	19	FA04030732
1845	0.99	1.34	11.9	30.0	780	11.5	54.8	<0.002	0.02	1.18	1	1.70	225.0	0.86	<0.05	10.0	0.488	0.32	2.6	126	1.7	18.1	78	85.7	65	FA04030732
1846	1.11	1.23	10.6	30.2	730	12.0	56.2	0.002	0.02	1.15	1	1.70	201.0	0.74	0.06	8.9	0.432	0.34	2.4	121	1.3	18.5	79	77.1	24	FA04030732
1847	0.26	1.38	8.7	204.0	490	9.0	36.3	<0.002	0.03	0.94	1	1.30	212.0	0.63	<0.05	6.9	0.441	0.23	1.8	140	0.8	14.5	97	72.0	37	FA04030732
1848	0.28	1.13	7.6	299.0	540	7.4	36.3	<0.002	0.04	0.80	1	1.20	187.0	0.51	<0.05	6.3	0.407	0.23	1.5	124	0.6	13.0	108	61.6	23	FA04030732
1849	0.76	1.04	9.2	161.5	740	10.0	56.7	<0.002	0.02	1.19	1	1.60	165.0	0.63	<0.05	7.7	0.375	0.35	2.1	123	1.0	14.2	88	64.6	32	FA04030732
1851	0.31	1.13	7.0	360.0	450	6.8	30.2	<0.002	0.02	0.80	1	1.10	167.5	0.53	<0.05	5.2	0.414	0.19	1.4	136	1.2	13.3	95	56.8	61	FA04030732
1852	0.33	1.12	7.9	336.0	520	6.9	32.9	<0.002	0.02	0.92	1	1.10	166.0	0.57	<0.05	6.1	0.448	0.20	1.5	141	3.1	14.2	100	64.2	39	FA04030732
1853	0.44	1.14	8.8	292.0	560	8.1	39.0	0.002	0.02	0.96	1	1.20	171.0	0.59	<0.05	6.5	0.426	0.24	1.7	128	0.7	14.3	90	76.2	39	FA04030732
1854	0.49	1.15	9.2	271.0	590	7.5	38.2	<0.002	0.01	0.95	1	1.20	171.0	0.63	<0.05	8.6	0.481	0.23	1.9	142	1.4	17.1	96	73.6	56	FA04030732
1855	0.44	0.88	6.0	517.0	440	6.0	32.4	0.002	0.04	0.92	1	1.00	125.5	0.42	<0.05	4.7	0.320	0.19	1.2	114	0.7	11.1	82	53.4	24	FA04030732
1857	0.56	0.99	6.5	416.0	430	7.0	33.8	<0.002	0.02	1.63	1	1.10	133.0	0.44	<0.05	5.4	0.351	0.21	1.3	118	0.7	11.4	81	56.6	17	FA04030732
1858	0.57	1.06	7.0	335.0	440	6.9	33.2	0.002	0.02	0.93	1	1.10	142.5	0.51	<0.05	5.5	0.357	0.22	1.5	117	1.2	11.6	77	53.8	57	FA04030732
1859	0.74	1.14	8.4	292.0	530	8.0	39.0	0.002	0.03	1.50	1	1.30	162.5	0.59	<0.05	6.4	0.410	0.25	1.8	124	0.9	13.9	79	70.8	44	FA04030732
1861	1.30	0.94	10.0	30.3	990	14.7	61.9	<0.002	0.05	2.67	1	1.80	156.5	0.68	<0.05	9.1	0.396	0.43	3.9	146	1.0	17.3	104	80.4	26	FA04030732
1863	1.63	0.61	8.9	32.8	1190	14.0	49.5	<0.002	0.04	4.58	1	1.50	121.0	0.61	0.07	7.2	0.331	0.56	4.1	172	0.7	19.1	109	64.5	22	FA04030732
1864	1.49	0.73	8.8	32.5	1260	12.8	51.5	<0.002	0.05	4.11	2	1.60	142.0	0.64	0.06	7.9	0.345	0.67	4.7	192	0.9	18.9	114	72.4	23	FA04030732
1865	1.23	0.83	9.2	32.4	1290	12.6	52.8	0.002	0.05	4.89	2	1.60	160.5	0.66	0.06	8.3	0.379	0.59	4.7	176	0.8	18.0	106	71.0	28	FA04030732
1868	2.02	0.87	10.4	32.6	880	16.0	59.5	<0.002	0.03	6.32	1	2.20	154.0	0.73	0.08	9.4	0.406	0.52	3.4	148	0.9	18.1	94	74.7	28	FA04030732
1869	1.56	0.79	10.2	34.6	1400	12.4	53.0	0.002	0.05	7.72	2	1.60	156.5	0.70	0.07	7.3	0.431	0.50	4.1	174	0.9	17.7	124	81.7	30	FA04030732
1870	1.57	0.69	9.4	34.9	1440	13.0	54.7	0.002	0.05	6.65	2	1.90	136.5	0.64	0.05	7.2	0.398	0.43	3.2	152	0.8	16.6	114	67.7	20	FA04030732
1871	1.56	0.98	9.8	27.4	760	14.2	61.1	<0.002	0.02	3.48	<1	2.10	156.5	0.68	0.06	7.5	0.391	0.44	2.6	140	1.2	15.0	70	65.7	20	FA04030732
1872	0.99	1.08	10.4	34.1	970	12.4	59.4	<0.002	0.03	4.42	<1	1.60	183.0	0.70	0.05	7.2	0.428	0.42	2.5	134	1.1	18.3	104	71.6	21	FA04030732
1873	0.85	1.11	10.3	32.2	960	11.9	59.2	<0.002	0.03	3.30	<1	1.50	188.5	0.71	0.05	8.3	0.425	0.40	2.6	126	1.0	18.6	89	72.1	24	FA04030732

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1874	428465	7271095	0.006	0.15	5.93	8.4	1020	1.19	0.14	1.55	0.52	63.2	15.4	88	2.52	24.1	2.82	14.75	0.18	2.0	0.17	0.046	1.22	31.8	20.9	0.87	870
1875	428055	7270875	<0.005	0.32	5.90	8.3	870	1.14	0.14	1.40	0.32	66.5	12.2	84	2.52	19.6	2.84	14.65	0.16	2.1	0.24	0.043	1.19	34.6	20.1	0.88	482
1876	428085	7270685	0.011	0.16	5.85	9.0	920	1.15	0.14	1.54	0.31	63.0	13.4	79	2.40	19.1	2.91	14.75	0.17	1.9	0.14	0.042	1.20	30.7	20.0	0.88	654
1879	425573	7269157	0.012	0.14	5.64	7.7	940	0.92	0.16	1.02	0.20	56.2	10.6	80	2.54	19.0	2.47	14.65	0.14	1.8	0.17	0.038	1.10	28.3	18.2	0.74	405
1880	426129	7269157	<0.005	0.16	6.16	9.6	1000	1.30	0.15	1.36	0.27	60.6	14.0	84	2.57	20.2	3.27	15.25	0.17	1.9	0.60	0.043	1.28	30.7	20.3	0.94	558
1881	426560	7269157	0.014	0.14	5.77	6.7	860	1.05	0.14	1.42	0.20	60.4	10.2	78	2.18	14.7	2.63	13.65	0.15	1.9	0.18	0.040	1.18	30.4	17.8	0.86	434
1882	427072	7269120	0.015	0.15	6.26	12.2	950	1.22	0.15	1.46	0.29	67.6	19.0	79	2.52	17.8	3.60	14.95	0.18	2.0	0.24	0.044	1.27	33.7	21.0	0.94	994
1885	435944	7268469	0.013	0.14	4.30	35.1	560	0.81	0.11	8.88	0.47	43.5	18.3	74	1.60	24.4	2.66	10.05	0.16	1.5	0.48	0.035	0.75	21.6	15.6	5.39	544
1886	435769	7268912	0.014	0.14	6.24	13.5	850	1.14	0.12	2.09	0.36	58.4	16.7	96	2.49	26.4	3.40	15.05	0.17	1.8	0.39	0.044	1.23	28.4	21.2	1.40	599
1887	435532	7269273	0.016	0.16	5.61	54.2	960	1.27	0.15	1.96	0.66	47.8	22.6	70	2.78	24.6	4.38	14.10	0.19	1.6	0.28	0.040	1.17	24.5	22.0	0.99	2850
1888	435604	7269818	0.005	0.15	6.20	8.9	860	1.14	0.14	1.66	0.27	65.7	13.6	83	2.54	21.0	3.08	15.60	0.19	2.0	0.49	0.043	1.23	32.5	21.3	1.02	471
1891	435243	7270416	0.014	0.12	5.71	10.0	780	1.14	0.11	2.12	0.24	74.9	13.3	101	2.06	15.9	3.06	14.20	0.18	2.3	0.24	0.039	1.16	38.4	18.6	1.16	618
1892	434882	7270570	0.007	0.12	5.92	10.6	830	1.08	0.10	2.19	0.25	61.5	12.9	85	2.11	16.6	3.10	13.55	0.18	1.9	0.42	0.040	1.20	31.8	18.6	1.22	595
1893	434480	7270529	0.016	0.13	6.16	12.0	840	1.15	0.12	2.04	0.25	80.1	13.8	100	2.28	17.1	3.29	14.80	0.19	2.4	0.18	0.041	1.20	40.4	39.9	1.12	661
1894	430439	7270757	0.011	0.12	5.19	6.2	910	0.98	0.10	1.98	0.32	57.8	14.0	96	1.76	17.3	2.80	12.60	0.18	1.8	0.12	0.037	1.00	28.6	57.1	0.94	544
1895	430759	7270302	0.008	0.13	4.50	6.8	750	0.91	0.10	2.94	0.30	56.6	11.6	88	1.71	15.9	2.45	11.70	0.18	1.7	0.11	0.035	0.93	28.8	27.8	1.45	483
1896	430862	7269983	0.008	0.13	5.03	7.5	850	0.91	0.11	2.85	0.54	57.5	12.4	87	1.91	17.1	2.67	12.15	0.17	1.8	0.12	0.035	0.97	29.3	31.0	1.26	897
1897	430934	7269582	0.008	0.13	5.51	8.7	790	1.09	0.12	2.51	0.30	50.6	11.9	77	2.67	21.1	2.66	12.75	0.16	1.6	0.37	0.037	1.06	25.5	25.3	1.18	444
1909	431613	7266610	0.008	0.16	6.05	25.2	710	0.90	0.14	1.23	0.27	48.5	30.2	326	4.26	20.9	3.64	15.50	0.20	1.6	0.14	0.044	0.96	24.5	33.8	2.37	921
1912	431283	7267424	0.201	0.12	5.82	55.8	570	0.99	0.12	1.38	0.34	43.5	32.8	672	9.85	29.6	3.89	13.65	0.16	1.6	0.15	0.041	0.87	21.8	33.4	2.28	902
1913	431149	7267445	0.072	0.31	5.70	239.0	670	1.14	0.12	1.40	0.21	63.7	25.0	399	5.79	19.2	3.25	13.50	0.19	1.9	0.10	0.039	1.01	32.7	26.9	2.19	697
1914	431314	7267805	0.011	0.15	5.67	16.7	810	1.19	0.13	1.60	0.29	69.1	17.9	334	2.70	23.6	3.27	14.10	0.18	1.9	0.28	0.041	1.13	34.8	25.2	1.58	653
1915	431005	7267908	0.073	0.13	5.86	73.8	760	1.23	0.12	1.58	0.28	68.5	20.5	286	3.82	19.5	3.26	14.35	0.19	1.8	0.08	0.042	1.15	34.8	25.4	1.76	686
1916	430778	7268495	0.008	0.13	5.81	47.1	780	1.08	0.12	2.00	0.29	59.2	17.8	188	3.77	21.5	3.04	13.85	0.18	1.8	0.10	0.040	1.17	29.7	27.0	1.59	642
1937	447063	7251397	0.009	0.20	5.87	6.4	700	1.05	0.12	0.83	0.14	51.3	8.0	82	4.31	14.0	2.31	16.00	0.14	1.6	0.26	0.040	1.28	26.9	25.5	0.75	348
1940	447040	7252036	0.021	0.32	6.26	7.9	760	1.33	0.16	0.75	0.14	57.7	12.2	89	6.00	22.2	2.73	17.25	0.17	2.0	0.29	0.047	1.38	28.7	30.7	0.89	529
1942	447310	7252810	<0.005	0.18	6.14	5.4	730	1.10	0.15	0.94	0.17	60.8	11.0	88	3.78	20.1	2.72	16.45	0.18	1.9	0.28	0.046	1.24	31.4	30.3	0.93	456
1943	447545	7253192	<0.005	0.15	5.84	7.6	660	1.06	0.13	0.99	0.15	68.5	11.9	87	3.28	16.2	2.71	15.90	0.19	2.0	0.16	0.046	1.13	34.2	28.4	0.90	491
1945	447849	7253786	<0.005	0.14	6.39	9.7	830	1.17	0.16	1.38	0.24	64.3	15.0	82	2.81	21.7	3.30	16.05	0.20	1.7	0.19	0.047	1.34	32.9	27.6	0.99	619
1946	447759	7253730	0.011	0.16	6.43	9.6	820	1.45	0.24	1.28	0.28	69.6	14.8	86	2.84	26.0	3.28	16.40	0.20	1.9	0.27	0.045	1.32	34.8	27.1	0.98	533
1947	447893	7254212	<0.005	0.10	5.85	6.5	710	1.11	0.12	1.41	0.20	75.5	11.5	89	2.15	14.8	2.82	14.30	0.18	1.8	0.16	0.039	1.20	37.0	22.8	0.95	445
1948	447781	7254235	<0.005	0.13	5.87	7.2	740	1.29	0.12	1.30	0.21	65.9	12.5	76	2.46	17.8	2.80	15.25	0.20	1.7	0.26	0.041	1.22	33.2	24.7	0.93	451
1949	447276	7254201	0.017	0.14	5.99	6.9	720	1.12	0.12	1.41	0.18	78.1	12.3	96	2.40	15.6	2.87	14.35	0.18	1.9	0.21	0.042	1.24	39.6	22.8	0.97	488
1950	446905	7254535	<0.005	0.10	5.90	6.1	670	1.04	0.11	1.40	0.17	80.7	11.4	89	2.27	12.8	2.79	13.80	0.18	2.1	0.13	0.039	1.22	39.7	22.9	0.97	488
1951	446280	7238413	<0.005	0.12	5.84	5.4	650	0.85	0.11	0.82	0.09	57.5	7.1	67	2.41	9.4	2.08	14.55	0.15	2.2	0.09	0.036	1.34	29.1	17.2	0.68	277
1953	446303	7239153	<0.005	0.14	6.17	9.2	710	1.16	0.18	0.85	0.13	68.5	14.5	76	2.96	15.3	2.83	16.10	0.18	2.2	0.09	0.044	1.45	33.7	24.0	0.77	592
1955	446033	7239647	<0.005	0.12	6.67	7.9	730	1.11	0.16	0.91	0.12	67.1	12.2	79	2.71	14.1	3.03	15.90	0.16	2.2	0.10	0.042	1.56	33.4	26.2	0.84	481
1956	445842	7240017	0.007	0.11	6.21	7.0	660	1.07	0.13	1.11	0.13	70.7	11.4	79	2.50	12.8	2.75	14.80	0.19	2.1	0.08	0.042	1.36	34.5	23.7	0.86	476
1958	443952	7238730	<0.005	0.16	6.54	10.5	730	1.22	0.18	0.92	0.13	59.7	11.4	83	3.36	16.4	3.15	16.70	0.17	1.7	0.09	0.045	1.36	29.2	26.1	0.84	450
1960	443800	7239647	<0.005	0.12	6.62	9.2	790	1.27	0.15	1.38	0.19	63.9	12.9	77	2.48	19.5	3.05	15.90	0.20	1.7	0.09	0.044	1.38	32.0	22.7	0.97	478
1962	453331	7241011	<0.005	0.18	6.88	8.3	850	1.37	0.18	1.10	0.32	71.2	17.4	87	3.57	18.2	3.21	17.70	0.18	2.0	0.15	0.050	1.56	34.5	42.6	0.85	879
1966	452332	7240764	0.005	0.14	6.67	7.4	830	1.24	0.15	1.14	0.24	76.2	19.5	83	3.00	16.1	3.14	16.85	0.19	2.4	0.19	0.048	1.57	38.7	36.3	0.91	1140
1967	451995	7240842	<0.005	0.11	6.41	7.8	780	1.24	0.11	1.06	0.17	78.6	15.9	83	2.50	11.1	2.80	16.20	0.18	2.8	0.17	0.044	1.58	39.6	30.1	0.86	673

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1874	0.96	1.22	10.2	33.5	950	12.0	64.1	<0.002	0.03	2.86	<1	1.80	201.0	0.70	<0.05	8.4	0.422	0.43	2.6	132	1.4	18.9	92	73.7	17	FA04030732
1875	0.99	1.24	11.3	28.7	770	12.8	59.8	<0.002	0.02	1.56	<1	1.60	198.0	0.81	<0.05	9.2	0.453	0.41	2.5	121	1.4	16.9	75	75.5	32	FA04030732
1876	0.84	1.28	10.6	30.2	800	11.9	59.8	<0.002	0.03	1.72	<1	1.60	208.0	0.73	<0.05	8.1	0.413	0.39	2.4	120	1.1	17.1	78	70.9	41	FA04030732
1879	1.38	1.07	10.8	24.2	760	11.8	60.5	<0.002	0.03	1.07	<1	1.70	168.5	0.75	0.05	7.3	0.425	0.41	2.6	130	1.1	14.5	61	66.6	13	FA04030732
1880	1.14	1.22	10.4	29.6	890	12.1	63.1	<0.002	0.03	1.18	<1	1.80	197.0	0.71	0.05	8.1	0.427	0.42	2.3	130	1.1	16.9	79	72.1	46	FA04030732
1881	0.90	1.29	10.6	23.2	720	11.1	53.2	<0.002	0.02	0.95	<1	1.50	205.0	0.73	<0.05	8.0	0.439	0.35	2.0	118	1.2	16.1	63	68.3	23	FA04030732
1882	1.53	1.32	10.6	29.2	960	12.5	64.2	<0.002	0.03	1.19	<1	1.60	215.0	0.72	<0.05	8.7	0.414	0.40	2.3	123	1.2	18.4	75	75.4	19	FA04030732
1885	0.50	0.66	8.4	36.1	1100	10.5	30.5	<0.002	0.03	5.22	<1	1.10	178.5	0.52	<0.05	6.6	0.365	0.30	1.9	100	2.0	15.2	86	60.8	79	FA04030732
1886	0.47	1.38	11.0	41.5	1060	11.4	56.1	<0.002	0.03	2.58	<1	1.60	232.0	0.75	<0.05	7.9	0.483	0.36	1.8	122	1.4	18.0	93	63.6	46	FA04030732
1887	0.96	1.06	8.6	38.3	1280	12.5	66.8	<0.002	0.09	13.00	<1	1.70	182.5	0.58	0.05	7.2	0.329	0.39	1.7	114	1.1	16.8	106	58.6	17	FA04030732
1888	0.56	1.30	11.9	31.7	760	12.0	61.6	<0.002	0.03	2.42	<1	1.70	207.0	0.80	<0.05	8.7	0.531	0.45	2.2	120	1.1	17.9	78	78.7	40	FA04030732
1891	0.52	1.38	12.5	29.2	850	10.7	52.8	<0.002	0.02	2.25	<1	1.60	230.0	0.84	<0.05	10.8	0.561	0.33	2.4	118	1.5	20.3	75	87.2	14	FA04030732
1892	0.53	1.40	11.0	29.8	830	10.3	53.3	<0.002	0.02	2.33	<1	1.40	231.0	0.77	<0.05	7.9	0.495	0.34	1.9	114	1.3	17.5	76	70.6	39	FA04030732
1893	0.60	1.40	13.0	30.5	890	11.4	57.3	<0.002	0.03	1.95	<1	1.70	231.0	0.93	<0.05	10.5	0.553	0.36	2.4	124	1.7	19.6	90	88.2	65	FA04030732
1894	0.46	1.10	10.4	35.7	840	9.7	51.0	<0.002	0.05	1.63	<1	1.40	182.5	0.68	<0.05	7.7	0.480	0.32	1.9	112	1.2	15.8	91	69.1	45	FA04030732
1895	0.43	0.95	10.2	28.7	760	9.2	46.3	<0.002	0.05	1.45	<1	1.40	164.5	0.66	<0.05	7.7	0.476	0.28	1.9	102	1.0	15.1	100	67.3	30	FA04030732
1896	0.43	1.04	10.1	29.8	920	9.4	54.2	<0.002	0.07	1.39	<1	1.30	175.0	0.70	<0.05	7.4	0.450	0.30	1.8	105	1.0	15.7	99	72.2	22	FA04030732
1897	0.44	1.22	9.2	31.1	800	11.3	53.3	<0.002	0.04	1.97	<1	1.40	198.0	0.63	<0.05	6.7	0.375	0.34	1.7	103	1.0	15.1	91	60.1	32	FA04030732
1909	0.91	1.16	8.9	211.0	550	11.2	51.3	<0.002	0.03	3.13	<1	1.50	159.5	0.62	<0.05	6.5	0.396	0.38	1.6	130	1.3	13.5	97	59.5	21	FA04030732
1912	0.68	1.10	6.9	338.0	560	9.4	50.2	<0.002	0.05	4.22	<1	1.20	144.0	0.47	<0.05	5.6	0.358	0.54	1.6	130	1.8	14.1	128	54.2	20	FA04030732
1913	0.59	1.33	9.2	216.0	500	9.9	53.5	<0.002	0.03	5.29	<1	1.30	199.0	0.64	<0.05	8.3	0.403	0.41	2.0	114	2.6	14.6	85	72.5	28	FA04030732
1914	0.78	1.22	10.2	104.0	780	12.2	57.1	<0.002	0.02	3.85	<1	1.50	203.0	0.71	<0.05	9.7	0.441	0.38	2.2	120	1.4	17.6	142	75.1	43	FA04030732
1915	0.71	1.34	10.3	137.5	700	10.8	55.7	<0.002	0.02	3.32	<1	1.50	209.0	0.71	<0.05	9.3	0.440	0.36	2.0	122	1.5	17.2	96	68.1	62	FA04030732
1916	0.66	1.26	9.6	110.5	770	11.4	57.1	<0.002	0.03	3.50	<1	1.50	202.0	0.67	<0.05	8.1	0.417	0.38	2.0	116	1.3	15.8	92	67.1	35	FA04030732
1937	0.68	0.99	10.0	25.7	620	10.3	74.3	<0.002	0.05	0.66	<1	1.90	144.0	0.67	<0.05	6.4	0.380	0.46	1.7	113	0.9	12.6	59	62.4	12	FA04030732
1940	0.86	0.94	11.4	32.2	690	12.8	82.4	<0.002	0.03	0.69	<1	2.00	128.0	0.76	<0.05	7.3	0.438	0.51	1.9	138	1.1	14.7	65	72.2	20	FA04030732
1942	0.71	1.15	10.5	30.1	580	12.9	70.4	<0.002	0.03	0.76	<1	1.80	151.0	0.70	0.05	8.1	0.447	0.46	1.9	126	1.3	15.4	72	67.6	20	FA04030732
1943	0.78	1.18	10.9	29.1	520	11.2	65.4	<0.002	0.02	0.73	<1	1.70	154.5	0.76	<0.05	8.6	0.444	0.38	1.9	116	1.3	16.7	77	72.6	9	FA04030732
1945	0.82	1.26	10.3	32.8	680	12.7	70.0	<0.002	0.03	1.10	<1	1.90	191.5	0.69	<0.05	9.5	0.411	0.44	1.9	120	1.1	16.7	88	63.3	27	FA04030732
1946	0.87	1.28	11.1	35.2	770	13.6	69.1	<0.002	0.03	1.18	<1	1.90	184.5	0.79	0.05	10.0	0.445	0.40	2.3	126	1.3	18.6	107	69.6	25	FA04030732
1947	0.60	1.40	10.8	27.0	630	11.2	56.9	<0.002	0.02	0.89	<1	1.60	197.5	0.80	<0.05	11.0	0.472	0.32	2.1	113	1.2	16.6	81	66.6	19	FA04030732
1948	0.67	1.32	10.2	29.9	620	11.3	62.5	<0.002	0.02	0.93	<1	1.60	187.0	0.76	<0.05	9.0	0.411	0.36	1.9	108	1.1	15.9	93	61.6	9	FA04030732
1949	0.63	1.40	10.6	29.3	670	11.5	59.2	<0.002	0.02	0.93	<1	1.70	198.0	0.76	<0.05	10.4	0.477	0.36	2.2	117	1.2	17.8	89	67.9	35	FA04030732
1950	0.56	1.42	10.8	28.0	640	10.1	55.9	<0.002	0.01	0.84	<1	1.60	197.5	0.82	<0.05	10.2	0.489	0.33	2.2	114	1.2	17.4	124	70.2	27	FA04030732
1951	0.51	1.06	8.8	19.2	430	11.3	74.5	<0.002	0.03	0.57	<1	1.70	128.0	0.64	<0.05	9.6	0.368	0.43	2.0	74	0.9	13.0	77	74.5	14	FA04030732
1953	0.79	1.04	9.0	24.2	510	14.4	81.7	<0.002	0.03	0.74	<1	2.50	137.5	0.67	<0.05	10.7	0.377	0.46	2.4	100	1.0	14.5	87	79.3	16	FA04030732
1955	0.63	1.14	9.4	25.0	450	13.6	78.7	<0.002	0.02	0.70	<1	1.80	142.0	0.75	<0.05	13.5	0.384	0.46	2.2	98	1.0	14.8	126	75.5	8	FA04030732
1956	0.58	1.24	9.3	25.1	420	12.8	69.2	<0.002	0.02	0.71	<1	1.70	162.5	0.74	<0.05	10.4	0.396	0.39	2.2	95	1.1	15.0	59	70.0	40	FA04030732
1958	0.78	1.06	8.9	24.7	490	16.1	78.3	<0.002	0.03	0.90	<1	1.90	143.0	0.69	<0.05	8.7	0.387	0.46	2.0	112	1.2	12.3	68	56.8	21	FA04030732
1960	0.68	1.38	9.2	29.9	560	13.5	70.6	<0.002	0.02	1.03	<1	1.70	200.0	0.64	<0.05	9.4	0.386	0.42	2.1	104	1.3	16.1	76	60.9	48	FA04030732
1962	0.67	0.98	9.9	33.8	710	18.5	90.8	<0.002	0.05	0.79	<1	1.90	168.0	0.74	<0.05	11.0	0.380	0.49	3.3	103	1.0	18.6	311	73.6	8	FA04030732
1966	0.62	1.10	11.0	35.5	700	16.3	83.8	<0.002	0.04	0.69	<1	1.90	183.5	0.80	<0.05	10.9	0.412	0.49	3.1	100	1.1	18.4	136	81.2	31	FA04030732
1967	0.48	1.16	11.2	30.8	550	12.9	78.8	<0.002	0.02	0.59	<1	1.60	167.0	0.87	<0.05	11.9	0.424	0.41	2.6	88	1.0	16.1	130	96.1	24	FA04030732

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
1968	451467	7240696	<0.005	0.14	6.17	8.5	750	1.08	0.18	0.77	0.14	64.9	10.5	77	4.33	14.5	2.50	16.35	0.16	2.2	0.16	0.044	1.58	32.9	23.4	0.71	385
1970	450962	7240831	0.007	0.16	7.03	31.0	900	1.44	0.18	1.08	0.33	71.4	19.3	82	3.31	21.5	3.36	17.75	0.20	2.1	0.23	0.053	1.56	34.2	37.9	0.91	1190
1971	450535	7240652	<0.005	0.10	6.34	7.6	800	1.28	0.13	0.92	0.18	72.3	15.7	73	2.63	13.0	2.84	16.15	0.16	2.8	0.13	0.042	1.58	35.8	29.4	0.79	1095
1972	450109	7240450	<0.005	0.10	6.54	7.5	810	1.33	0.13	1.18	0.22	75.7	16.5	78	2.57	14.8	2.95	15.90	0.19	2.3	0.17	0.044	1.50	37.2	28.7	0.87	1305
1975	449323	7239990	<0.005	0.13	6.64	10.5	820	1.30	0.16	1.23	0.21	66.8	16.0	77	2.92	20.9	3.19	16.25	0.20	2.2	0.14	0.049	1.50	33.5	31.2	0.93	903
1977	448523	7239660	<0.005	0.09	6.41	11.2	760	1.18	0.13	1.30	0.18	69.0	13.8	78	2.37	14.5	2.87	15.45	0.20	2.0	0.10	0.041	1.46	34.4	27.4	0.92	742
1978	421931	7284264	<0.005	0.11	5.57	7.6	830	1.28	0.11	1.68	0.27	58.3	11.9	73	2.22	16.1	2.91	13.80	0.18	1.9	0.04	0.041	1.16	30.3	20.8	0.94	529
1980	422028	7284597	0.005	0.15	5.90	11.0	960	1.18	0.14	1.92	0.36	62.2	17.0	80	2.46	24.9	3.95	15.10	0.20	2.2	0.14	0.049	1.18	30.6	22.0	1.11	773
1981	422166	7285037	0.012	0.11	5.86	7.5	900	1.21	0.12	1.78	0.25	69.6	11.8	82	2.24	15.7	2.89	13.80	0.18	2.2	0.06	0.039	1.26	35.1	21.8	0.95	526
1982	422215	7285418	<0.005	0.14	6.32	10.3	1040	1.59	0.14	1.90	0.33	60.0	13.4	78	2.69	22.9	3.17	14.85	0.20	1.9	0.19	0.045	1.42	30.7	25.7	1.04	694
1983	422058	7285859	<0.005	0.15	5.96	9.4	970	1.36	0.13	1.78	0.27	62.1	12.7	77	2.59	20.7	2.92	14.70	0.21	2.1	0.11	0.044	1.30	31.2	25.9	0.96	538
1984	421921	7286162	0.007	0.15	6.33	9.0	1000	1.36	0.13	1.72	0.31	56.7	13.0	72	2.63	19.6	2.95	14.65	0.19	1.8	0.18	0.043	1.34	28.2	25.2	0.98	719
1985	421647	7286671	<0.005	0.13	6.43	9.4	1050	1.26	0.13	1.75	0.35	55.4	13.6	76	2.68	19.1	3.15	14.65	0.19	1.8	0.10	0.043	1.42	27.7	25.9	1.00	759
1986	421088	7286759	<0.005	0.13	5.70	7.1	880	1.05	0.11	1.82	0.23	78.7	12.1	83	2.17	15.3	3.02	13.85	0.20	2.4	0.23	0.042	1.16	40.2	21.6	0.94	598
1987	420609	7286739	<0.005	0.11	5.64	7.4	870	1.22	0.11	1.69	0.25	62.7	12.1	71	2.17	18.2	2.88	13.55	0.19	2.0	0.11	0.043	1.20	31.3	22.2	0.92	526
1988	420706	7287209	0.007	0.10	5.56	6.3	870	1.17	0.10	1.75	0.23	66.2	11.1	78	2.11	14.4	2.73	13.40	0.18	2.1	0.13	0.041	1.18	32.2	21.3	0.90	488
1989	431462	7285332	0.006	0.20	5.97	9.4	910	1.15	0.15	1.44	0.46	54.0	17.3	83	2.85	26.3	3.37	14.05	0.20	2.0	0.11	0.049	1.17	26.9	26.2	1.00	779
1990	431441	7285620	<0.005	0.14	5.83	8.1	890	1.23	0.12	1.59	0.31	60.8	11.4	84	2.50	17.7	2.73	13.85	0.20	2.0	0.15	0.037	1.26	30.7	23.7	0.91	500
1992	431307	7286063	<0.005	0.11	6.23	8.2	1000	1.42	0.12	1.65	0.33	63.4	14.1	83	2.71	23.4	3.34	14.40	0.20	2.1	0.10	0.040	1.30	31.9	24.0	1.02	616
1993	430904	7286042	<0.005	0.13	5.83	7.6	960	1.20	0.11	1.48	0.24	57.0	12.1	74	2.62	16.9	2.79	13.85	0.19	1.9	0.22	0.039	1.20	29.1	23.0	0.87	467
1994	431245	7286495	<0.005	0.14	5.79	9.3	950	1.36	0.12	1.80	0.32	82.3	15.1	91	2.45	17.7	3.20	13.90	0.20	2.4	0.16	0.043	1.24	41.2	23.3	0.96	825
1995	431276	7286897	<0.005	0.15	6.00	9.7	970	1.43	0.14	1.74	0.33	57.9	13.5	73	2.69	22.7	2.96	14.50	0.20	1.8	0.39	0.043	1.36	29.2	25.2	0.98	552
1996	431317	7287299	<0.005	0.16	6.02	9.3	970	1.31	0.12	1.65	0.30	57.5	13.6	77	2.69	18.8	3.18	14.70	0.20	1.9	0.31	0.040	1.30	30.6	25.2	0.95	642
1997	431482	7287793	0.008	0.12	5.38	9.3	860	1.12	0.12	1.72	0.30	80.9	12.4	86	2.21	18.5	3.12	12.05	0.19	2.6	0.24	0.046	1.10	34.9	21.4	0.98	644
1998	431400	7288195	<0.005	0.09	5.33	7.6	810	1.04	0.11	1.68	0.29	89.3	13.1	87	2.22	14.6	2.92	11.95	0.21	2.6	0.18	0.044	1.11	39.4	21.3	0.94	863
1999	431204	7288555	<0.005	0.11	5.59	9.3	900	1.14	0.12	1.58	0.37	72.8	14.3	79	2.54	17.8	3.00	12.65	0.20	2.3	0.23	0.043	1.20	31.7	23.3	0.92	983
2001	417902	7280557	<0.005	0.12	5.62	9.4	860	1.17	0.15	1.42	0.29	63.9	16.7	74	2.58	24.8	3.76	13.70	0.21	2.3	0.22	0.052	0.96	29.2	22.6	1.00	667
2002	417494	7280318	0.005	0.10	5.79	7.6	860	1.15	0.13	1.80	0.29	68.4	15.4	79	2.21	19.6	3.48	13.25	0.20	2.2	0.32	0.048	1.09	29.4	21.4	1.13	610
2003	417038	7280222	<0.005	0.12	5.55	8.8	930	1.23	0.14	1.65	0.34	69.9	12.5	75	2.32	22.6	3.00	12.70	0.22	2.2	0.60	0.045	1.14	31.2	23.7	0.93	518
2008	415154	7280162	0.009	0.10	5.57	8.4	850	1.17	0.12	1.79	0.30	84.3	12.8	86	2.21	17.8	3.03	12.60	0.20	2.5	0.19	0.044	1.12	37.4	22.1	0.98	530
2010	414326	7280162	<0.005	0.13	5.62	8.5	900	1.25	0.13	1.62	0.35	66.7	11.3	77	2.27	20.8	2.92	12.15	0.20	2.0	0.28	0.045	1.14	29.7	22.1	0.90	480
2011	414278	7279970	0.005	0.09	5.60	7.4	860	1.26	0.10	1.88	0.24	82.8	11.9	83	2.02	16.2	3.05	12.05	0.21	2.5	0.15	0.043	1.12	36.1	21.3	1.00	551
2012	413606	7279754	0.012	0.11	5.52	8.9	850	1.24	0.12	1.79	0.32	87.6	13.5	84	2.16	17.8	3.12	12.65	0.22	2.5	0.12	0.048	1.12	38.0	22.1	0.98	689
2013	413282	7279718	0.006	0.09	5.78	9.2	890	1.18	0.15	2.02	0.30	146.0	15.4	137	2.34	18.2	3.57	13.60	0.28	4.1	0.14	0.054	1.18	65.8	24.0	1.07	931
2014	413222	7280102	0.007	0.18	5.49	12.4	940	1.20	0.15	1.60	0.61	66.7	16.5	75	2.72	27.1	3.32	13.05	0.21	2.2	0.23	0.046	1.18	29.6	25.8	0.87	1235
2015	408302	7264794	0.008	0.13	5.77	9.0	760	1.20	0.15	1.10	0.23	72.5	18.1	83	2.50	17.2	3.10	13.30	0.20	2.5	0.17	0.046	1.09	32.2	22.9	0.83	919
2016	408616	7264995	0.009	0.11	5.80	8.2	770	0.97	0.15	1.04	0.18	62.3	12.5	75	2.65	16.8	3.00	13.25	0.21	2.3	0.10	0.043	1.10	27.3	24.2	0.82	523
2017	409153	7265338	0.006	0.12	5.64	6.7	740	1.15	0.15	1.03	0.23	64.2	11.5	75	2.55	16.8	2.73	12.95	0.20	2.4	0.20	0.048	1.10	29.0	23.4	0.80	472
2019	409384	7265241	<0.005	0.11	5.50	8.3	760	1.17	0.17	1.00	0.32	61.9	17.4	70	2.76	21.4	2.96	13.20	0.20	2.3	0.15	0.047	1.08	27.7	24.4	0.80	1095
2020	409432	7265801	0.008	0.11	5.59	8.7	780	1.18	0.13	1.30	0.29	70.2	13.8	79	2.40	17.6	2.92	12.75	0.21	2.4	0.27	0.043	1.12	31.1	22.8	0.87	704
2021	409355	7266093	0.012	0.09	5.69	7.8	760	1.09	0.15	1.35	0.24	86.2	12.5	81	2.38	18.8	2.80	12.60	0.21	2.4	0.12	0.048	1.15	37.6	22.8	0.84	624
2022	409864	7266271	0.018	0.12	5.45	8.8	750	1.18	0.14	1.25	0.22	81.2	14.7	75	2.48	19.4	2.92	12.90	0.25	2.6	0.18	0.047	1.09	35.2	24.2	0.85	780
2024	410347	7266309	<0.005	0.10	5.70	8.8	790	1.25	0.16	1.27	0.19	77.9	14.3	78	2.55	21.7	3.02	13.50	0.23	2.5	0.14	0.048	1.15	33.8	23.8	0.89	678

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
1968	0.79	0.86	9.0	22.9	520	21.4	89.7	<0.002	0.04	0.64	<1	1.90	120.5	0.67	<0.05	11.0	0.377	0.54	2.4	91	1.0	14.7	90	73.7	13	FA04030732
1970	0.71	1.07	10.4	36.1	720	20.0	87.0	<0.002	0.06	0.78	<1	2.00	178.5	0.82	<0.05	10.0	0.383	0.48	3.3	104	1.0	18.5	379	77.9	12	FA04030732
1971	0.50	1.12	10.4	29.9	480	12.8	83.6	<0.002	0.02	0.60	<1	1.70	154.5	0.79	<0.05	12.6	0.379	0.42	2.7	84	0.9	16.8	214	101.5	9	FA04030732
1972	0.55	1.26	10.2	31.4	560	14.8	79.3	<0.002	0.03	0.69	<1	1.70	187.5	0.78	<0.05	11.6	0.384	0.42	2.6	93	0.9	17.4	103	79.1	24	FA04030732
1975	0.58	1.18	9.7	32.4	640	15.9	78.7	<0.002	0.04	0.87	<1	1.70	189.5	0.76	<0.05	10.3	0.381	0.45	2.7	102	1.0	17.4	143	75.1	21	FA04030732
1977	0.50	1.34	10.4	28.7	560	13.2	69.2	<0.002	0.03	0.77	<1	1.70	197.5	0.82	<0.05	10.3	0.412	0.40	2.3	97	1.5	16.6	130	69.8	21	FA04030732
1978	0.87	1.40	10.0	26.5	690	10.8	53.7	<0.002	0.02	0.83	<1	1.50	222.0	0.67	<0.05	7.9	0.451	0.35	2.0	120	1.2	17.3	71	70.2	44	FA04030732
1980	1.14	1.34	11.1	32.6	850	12.4	56.3	<0.002	0.03	1.03	<1	1.70	218.0	0.74	<0.05	7.8	0.579	0.36	2.2	156	1.1	20.8	92	77.6	31	FA04030732
1981	0.73	1.44	10.2	27.7	840	10.9	55.7	<0.002	0.02	0.92	<1	1.40	238.0	0.72	<0.05	9.6	0.433	0.37	2.2	117	1.2	19.6	74	73.6	80	FA04030732
1982	0.88	1.46	10.1	34.1	860	12.4	63.2	<0.002	0.03	1.15	<1	1.50	245.0	0.71	<0.05	8.2	0.404	0.40	2.0	122	1.0	18.1	86	71.9	73	FA04030732
1983	0.82	1.43	10.2	31.8	810	12.6	62.7	<0.002	0.02	1.22	<1	1.60	237.0	0.74	<0.05	8.7	0.405	0.39	2.3	118	1.1	18.9	78	72.5	53	FA04030732
1984	0.79	1.45	9.5	32.0	790	12.1	64.4	<0.002	0.03	1.04	<1	1.50	235.0	0.67	<0.05	7.6	0.371	0.38	2.0	113	1.3	17.9	81	67.2	80	FA04030732
1985	0.79	1.43	9.3	32.6	870	12.1	64.3	<0.002	0.03	1.02	<1	1.50	237.0	0.65	<0.05	7.7	0.372	0.41	1.9	120	0.9	17.0	92	66.8	43	FA04030732
1986	0.65	1.35	11.4	27.3	880	10.6	52.7	<0.002	0.02	0.82	<1	1.50	223.0	0.82	<0.05	10.4	0.539	0.33	2.4	122	1.4	19.8	76	82.9	70	FA04030732
1987	0.68	1.36	9.6	27.8	790	10.7	53.6	<0.002	0.02	0.84	<1	1.40	220.0	0.66	<0.05	8.0	0.435	0.34	1.9	116	1.5	17.7	76	69.7	64	FA04030732
1988	0.60	1.40	10.2	26.7	820	9.9	52.7	<0.002	0.02	0.80	<1	1.40	229.0	0.76	<0.05	8.8	0.423	0.32	2.1	110	1.1	18.4	71	73.5	66	FA04030732
1989	1.42	1.26	9.4	35.3	780	12.7	58.1	<0.002	0.03	1.13	<1	1.60	190.5	0.67	<0.05	7.2	0.473	0.41	2.1	146	1.2	17.6	89	71.0	31	FA04030732
1990	0.86	1.34	10.0	29.6	740	11.5	58.5	<0.002	0.02	0.98	<1	1.50	217.0	0.83	<0.05	8.3	0.407	0.37	2.4	117	1.0	17.9	76	71.4	74	FA04030732
1992	1.10	1.38	10.3	37.3	850	12.0	59.4	<0.002	0.02	0.97	<1	1.60	220.0	0.81	<0.05	8.2	0.479	0.39	2.2	141	0.9	18.4	86	73.4	49	FA04030732
1993	0.87	1.30	9.6	29.1	700	10.5	57.2	<0.002	0.02	0.87	<1	1.40	213.0	0.67	<0.05	7.2	0.390	0.37	2.0	121	1.1	16.8	76	67.5	76	FA04030732
1994	0.90	1.35	11.2	30.5	920	11.9	58.3	<0.002	0.03	0.99	<1	1.50	229.0	0.82	<0.05	10.9	0.455	0.37	2.4	122	1.3	20.6	79	83.8	59	FA04030732
1995	0.91	1.38	9.4	32.9	820	12.3	63.0	<0.002	0.06	1.06	<1	1.60	231.0	0.66	<0.05	8.1	0.368	0.41	2.0	117	1.1	18.4	81	66.5	67	FA04030732
1996	1.06	1.37	9.5	32.1	800	12.0	64.4	<0.002	0.03	1.05	<1	1.60	224.0	0.69	<0.05	7.8	0.379	0.40	2.0	118	1.2	17.5	84	67.7	62	FA04030732
1997	0.91	1.30	11.0	30.0	790	10.9	54.6	<0.002	0.20	1.07	<1	1.50	230.0	0.91	<0.05	9.0	0.545	0.33	2.4	126	1.2	17.9	77	77.5	54	FA04030732
1998	0.79	1.31	11.0	26.6	810	10.4	56.0	<0.002	0.02	0.93	<1	1.50	235.0	0.82	<0.05	9.3	0.493	0.34	2.7	116	2.0	18.7	72	80.6	52	FA04030732
1999	0.88	1.30	10.1	29.9	780	11.6	61.1	<0.002	0.39	0.97	<1	1.70	232.0	0.76	<0.05	8.2	0.414	0.51	2.2	116	1.1	17.1	81	70.4	33	FA04030732
2001	1.02	1.19	10.2	27.7	760	12.2	54.0	<0.002	0.13	0.90	<1	1.50	197.5	0.78	<0.05	7.4	0.522	0.35	2.2	152	1.0	16.1	82	70.3	27	FA04030732
2002	0.87	1.42	10.5	29.5	760	11.3	52.2	<0.002	0.02	0.90	<1	1.50	241.0	0.81	<0.05	7.3	0.590	0.32	2.1	149	1.2	17.6	80	71.5	39	FA04030732
2003	0.85	1.34	10.0	30.4	810	12.4	59.1	<0.002	0.04	1.09	<1	1.50	239.0	0.76	<0.05	8.4	0.403	0.37	2.3	115	1.4	18.1	76	68.8	71	FA04030732
2008	0.82	1.40	11.0	28.4	800	11.2	55.5	<0.002	0.02	0.95	<1	1.50	251.0	0.83	<0.05	9.5	0.523	0.34	2.4	124	1.4	19.0	77	77.3	66	FA04030732
2010	0.84	1.34	8.9	28.9	800	11.8	56.6	<0.002	0.02	1.01	<1	1.30	236.0	0.69	<0.05	7.5	0.405	0.36	2.2	118	1.6	16.4	77	61.2	35	FA04030732
2011	0.71	1.46	11.2	28.0	850	10.7	52.7	<0.002	0.02	0.89	<1	1.40	260.0	0.86	<0.05	9.3	0.560	0.32	2.3	126	0.9	19.9	73	75.2	61	FA04030732
2012	0.82	1.41	11.0	29.5	840	11.6	53.8	<0.002	0.02	0.94	<1	1.50	251.0	0.82	<0.05	9.8	0.533	0.33	2.6	126	1.2	19.2	76	77.7	53	FA04030732
2013	0.93	1.38	16.2	31.9	1020	13.0	58.4	<0.002	0.02	1.15	<1	1.90	268.0	1.19	<0.05	16.8	0.738	0.37	4.0	144	2.2	26.8	82	122.5	54	FA04030732
2014	1.01	1.19	9.3	33.2	810	12.6	65.3	<0.002	0.04	1.10	<1	1.50	225.0	0.68	0.05	7.8	0.366	0.43	2.3	116	1.0	17.9	93	66.7	35	FA04030732
2015	1.25	1.23	10.4	24.4	740	13.0	56.7	<0.002	0.03	0.90	<1	1.50	201.0	0.75	<0.05	8.4	0.466	0.36	2.4	120	1.1	16.6	71	80.5	36	FA04030732
2016	1.18	1.22	10.0	23.7	670	13.4	57.5	<0.002	0.03	0.86	<1	1.50	197.0	0.76	<0.05	7.5	0.428	0.39	2.2	118	1.3	14.5	69	74.0	37	FA04030732
2017	1.11	1.22	9.9	23.7	620	13.0	56.8	<0.002	0.03	0.95	<1	1.50	196.0	0.79	<0.05	7.6	0.430	0.37	2.3	114	1.1	14.7	67	74.3	21	FA04030732
2019	1.32	1.15	9.3	24.5	650	13.6	58.6	<0.002	0.03	0.92	<1	1.50	185.0	0.67	<0.05	7.4	0.396	0.39	2.2	115	1.1	14.7	73	68.0	28	FA04030732
2020	1.09	1.28	10.0	25.4	690	12.3	57.3	<0.002	0.02	0.96	<1	1.50	218.0	0.79	0.05	8.0	0.438	0.32	2.3	114	1.0	16.8	69	77.3	19	FA04030732
2021	1.06	1.30	10.6	25.8	640	12.0	58.4	<0.002	0.02	0.95	<1	1.50	228.0	0.74	<0.05	10.2	0.468	0.36	2.5	114	1.3	17.0	67	76.4	26	FA04030732
2022	1.17	1.24	10.6	26.4	700	12.1	58.4	<0.002	0.03	0.98	<1	1.60	210.0	0.77	0.06	8.9	0.458	0.37	2.5	113	1.2	18.3	67	80.3	27	FA04030732
2024	1.22	1.25	10.4	27.7	730	13.6	59.4	<0.002	0.03	1.00	<1	1.60	214.0	0.77	0.05	8.7	0.450	0.35	2.5	120	1.2	18.0	70	81.6	34	FA04030732

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	UTM E	UTM N	Au ppm	Ag ppm	Al %	As ppm	Ba* ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr* ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
2025	410334	7266131	0.007	0.14	5.48	8.2	740	1.11	0.16	1.02	0.27	59.6	14.3	68	2.85	20.2	2.81	12.95	0.20	2.1	0.15	0.047	1.11	26.3	25.0	0.81	597
2026	410741	7266461	0.007	0.09	5.68	10.2	770	1.29	0.15	1.30	0.16	75.1	14.7	76	2.47	19.6	3.06	13.10	0.23	2.4	0.12	0.049	1.14	32.1	24.1	0.89	648
2027	411301	7266512	0.008	0.11	5.72	9.3	810	1.35	0.15	1.28	0.33	76.4	19.3	76	2.57	20.2	3.16	12.85	0.23	2.4	0.29	0.047	1.15	31.8	24.0	0.89	1400
2028	411237	7266423	0.010	0.16	5.65	8.4	760	1.14	0.15	1.08	0.31	59.3	12.3	65	2.84	22.0	2.85	13.10	0.21	2.0	0.08	0.044	1.12	25.9	24.9	0.81	667
2029	411695	7266500	0.013	0.11	5.46	8.9	760	1.21	0.16	1.15	0.35	68.8	16.1	72	2.60	20.4	2.93	13.05	0.20	2.3	0.22	0.045	1.09	29.4	24.0	0.83	883
2030	412114	7266398	0.006	0.08	5.41	8.1	730	1.14	0.14	1.20	0.31	72.1	15.9	71	2.44	18.8	2.87	12.70	0.21	2.4	0.10	0.040	1.08	31.6	23.0	0.85	908
2032	412483	7266284	<0.005	0.10	5.38	8.1	730	1.25	0.13	1.22	0.31	68.5	15.7	68	2.37	20.2	2.81	12.60	0.19	2.2	0.23	0.044	1.10	28.7	23.4	0.83	942
2033	412979	7266220	0.009	0.10	5.36	9.6	740	1.13	0.14	1.17	0.42	65.4	17.3	66	2.47	23.0	3.15	12.45	0.22	2.2	0.10	0.043	1.08	28.0	23.2	0.85	1210
2034	414367	7242820	<0.005	0.16	6.13	49.0	790	1.58	0.58	1.59	0.21	100.5	13.5	73	5.31	27.3	3.32	14.15	0.24	1.8	0.14	0.056	1.34	43.9	29.6	1.04	582
2035	414473	7243279	0.008	0.11	5.88	22.2	830	1.31	0.26	1.87	0.28	85.8	13.3	78	2.71	24.8	3.12	12.90	0.22	2.0	0.23	0.048	1.26	37.3	24.9	1.10	531
2036	414532	7243538	<0.005	0.15	5.87	84.9	820	1.51	0.32	1.50	0.23	81.9	13.1	78	3.24	20.6	3.56	13.30	0.28	2.0	0.26	0.050	1.26	35.6	28.7	1.01	492
2037	414579	7243996	<0.005	0.11	5.82	14.4	820	1.36	0.16	1.76	0.29	76.5	13.9	81	2.44	22.7	3.04	13.05	0.22	1.9	0.11	0.046	1.26	34.2	24.4	1.08	538
2038	414779	7243985	0.012	0.12	5.82	141.0	660	1.93	0.93	2.04	0.20	149.5	12.0	70	6.80	31.4	3.68	13.90	0.30	2.4	0.16	0.065	1.31	64.5	34.5	1.03	653
2040	414744	7244431	<0.005	0.12	5.72	17.3	820	1.36	0.17	1.70	0.28	73.2	13.3	77	2.60	24.8	3.06	13.20	0.24	2.0	0.10	0.045	1.24	31.9	26.8	1.04	451
2041	414932	7244749	<0.005	0.13	6.32	13.9	850	1.19	0.17	1.92	0.24	72.2	12.8	89	2.49	18.9	3.07	14.95	0.18	2.0	0.25	0.045	1.32	36.3	25.1	1.08	536
2042	415309	7245184	0.030	0.11	6.35	15.7	880	1.19	0.17	1.86	0.24	66.4	12.8	85	2.52	20.0	3.11	15.15	0.19	2.0	0.09	0.046	1.35	32.9	26.7	1.06	516
2043	415521	7245478	0.014	0.13	6.27	17.8	870	1.21	0.17	1.80	0.27	68.4	13.2	83	2.68	21.4	3.10	14.90	0.18	1.8	0.24	0.046	1.32	33.2	26.6	1.05	576
2045	415638	7245913	0.010	0.13	6.35	19.5	880	1.37	0.18	1.84	0.28	71.8	13.6	88	2.54	20.2	3.20	15.25	0.19	1.9	0.11	0.045	1.35	35.6	26.1	1.06	668
2046	415686	7246348	0.010	0.13	6.07	16.4	840	1.28	0.19	1.62	0.27	57.5	12.8	71	2.67	22.4	2.92	14.80	0.20	1.7	0.27	0.043	1.33	28.7	26.6	1.00	503
2047	415780	7246713	0.013	0.08	6.03	12.1	750	1.21	0.19	1.90	0.20	90.0	11.1	105	2.42	15.2	3.04	14.30	0.23	2.6	0.07	0.047	1.20	49.7	23.5	1.03	585
2048	416027	7247054	<0.005	0.12	5.79	13.4	760	1.08	0.18	1.71	0.19	77.4	12.3	88	2.43	17.2	2.92	14.25	0.20	2.0	0.34	0.043	1.18	37.5	24.0	0.99	562
2050	416345	7247430	<0.005	0.11	5.94	14.1	780	1.28	0.19	1.68	0.24	66.5	12.2	76	2.56	18.9	2.94	14.00	0.20	1.7	0.23	0.044	1.22	32.8	24.3	1.00	543
2064	410309	7256693	0.007	0.26	6.30	7.2	740	1.25	0.14	1.19	0.37	56.6	12.6	134	5.59	25.3	2.89	15.75	0.19	2.1	0.23	0.045	1.41	27.4	32.5	0.92	538
2065	410711	7256430	0.007	0.18	5.91	10.5	920	1.29	0.14	1.16	0.40	80.8	13.9	235	3.95	19.9	2.97	15.85	0.19	2.7	0.15	0.049	1.32	37.7	30.1	1.12	637
2067	411152	7256395	0.008	0.14	6.12	9.0	910	1.25	0.13	1.19	0.23	77.1	13.6	202	3.57	18.4	3.11	15.75	0.20	2.4	0.19	0.049	1.36	37.7	31.3	1.08	544
2068	411547	7256358	0.013	0.17	6.10	9.7	920	1.45	0.16	1.23	0.31	67.0	11.8	110	3.78	22.7	2.93	15.45	0.20	2.4	0.17	0.048	1.35	32.2	30.2	0.98	514
2069	411928	7256321	0.006	0.12	6.16	11.0	880	1.33	0.15	1.44	0.31	71.4	14.5	122	2.98	25.0	3.35	15.20	0.20	2.2	0.19	0.046	1.34	33.9	29.1	1.08	553
2070	412398	7256179	0.006	0.12	5.99	10.7	860	1.29	0.14	1.22	0.32	60.4	15.2	142	3.00	25.3	3.30	15.25	0.20	2.3	0.15	0.046	1.34	29.8	32.2	1.06	534
2075	428333	7255128	0.008	0.18	6.16	12.3	790	1.13	0.27	1.41	0.29	63.1	17.4	93	4.03	26.3	3.01	15.45	0.21	1.9	0.20	0.056	1.28	31.4	27.2	1.02	975
2077	427990	7255061	<0.005	0.21	6.09	16.7	790	1.17	0.52	1.37	0.25	76.0	17.4	97	3.92	27.4	3.12	15.50	0.19	1.8	0.12	0.053	1.33	37.5	28.5	1.02	918
2078	427610	7255091	<0.005	0.16	6.07	22.6	730	1.21	0.67	1.30	0.28	69.8	15.4	93	3.80	26.8	3.06	15.35	0.22	2.0	0.20	0.054	1.26	34.1	27.2	1.02	884
2079	427296	7254987	0.007	0.32	6.57	14.7	880	1.24	0.24	1.26	0.29	57.4	14.2	88	7.72	32.0	2.97	16.45	0.20	1.8	0.23	0.059	1.44	28.1	34.3	0.97	1730
2080	427214	7255076	0.006	0.29	6.46	33.2	820	1.38	0.88	1.27	0.35	70.7	17.2	102	5.76	36.0	3.41	17.05	0.21	1.9	0.35	0.061	1.40	33.3	34.0	1.08	1415
2081	426804	7255091	<0.005	0.19	6.25	19.9	800	1.20	0.65	1.38	0.24	69.8	13.0	97	4.39	28.1	3.07	15.75	0.20	1.8	0.37	0.053	1.34	33.9	28.6	1.04	549
2083	426603	7250579	<0.005	0.73	6.26	18.1	750	1.13	0.15	1.50	1.51	64.7	13.5	97	4.42	24.3	3.12	15.55	0.20	1.8	0.63	0.085	1.29	31.7	37.5	1.13	681
2085	425551	7250280	0.010	2.89	6.96	45.3	920	1.25	0.24	1.34	6.58	71.6	15.4	100	5.81	35.0	3.61	16.15	0.24	2.1	1.02	0.210	1.42	34.1	32.0	1.06	1630
2122	423745	7289287	0.005	0.12	6.16	10.3	960	1.01	0.12	1.85	0.33	56.6	20.4	75	2.13	34.5	4.67	15.85	0.22	2.6	0.10	0.057	0.88	27.7	20.6	1.14	821
2804	436002	7255598	0.010	0.29	6.37	9.4	810	1.25	0.81	0.96	0.44	64.4	14.1	86	4.84	29.6	3.32	17.00	0.24	2.1	0.11	0.058	1.26	32.1	31.9	0.88	644
2805	436043	7255849	0.057	0.56	6.17	10.0	680	1.12	2.17	0.75	0.65	63.8	13.6	89	6.65	39.0	3.52	15.85	0.22	2.2	0.22	0.084	1.32	31.1	38.9	0.82	610
2806	436010	7256456	0.016	0.23	6.35	11.9	850	1.39	0.19	1.32	0.63	64.9	14.5	89	3.30	22.1	3.15	15.85	0.24	2.0	0.13	0.049	1.30	32.9	29.8	0.99	755
3171	413920	7249637	0.010	0.54	5.37	20.3	640	1.14	0.17	2.02	0.55	56.8	17.2	89	5.28	67.1	3.02	13.55	0.24	1.8	0.19	0.058	1.06	30.3	36.1	1.02	749
4201	415992	7287814	0.013	0.14	5.79	9.6	910	1.16	0.16	1.82	0.62	53.5	13.2	75	4.03	28.7	3.13	14.50	0.23	2.0	0.12	0.046	1.12	27.0	26.7	0.90	605

Table 1. Location and New Trace Element Geochemical Results for 902 Stream-Sediment Samples collected in the Livengood Area, Livengood Quadrangle, Alaska

IS = Insufficient Sample for Analysis

SAMPLE	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn* ppm	Sr ppm	Ta* ppm	Te ppm	Th ppm	Ti* %	Tl ppm	U ppm	V ppm	W* ppm	Y ppm	Zn ppm	Zr* ppm	Pulp Wt grams	Lab Report
2025	1.27	1.15	9.2	23.7	610	12.4	61.7	<0.002	0.03	0.84	<1	1.50	191.0	0.65	0.05	6.9	0.391	0.39	2.2	113	1.3	14.4	74	71.0	27	FA04030732
2026	1.32	1.26	10.2	26.9	750	13.0	56.9	<0.002	0.03	1.05	<1	1.60	216.0	0.70	0.05	8.4	0.437	0.36	2.5	118	1.1	17.0	66	72.9	35	FA04030732
2027	1.31	1.24	9.8	28.6	740	13.1	59.4	<0.002	0.03	0.99	<1	1.60	217.0	0.76	<0.05	8.3	0.427	0.36	2.3	118	1.2	17.2	78	70.7	22	FA04030732
2028	1.09	1.19	8.6	23.7	690	11.3	60.8	<0.002	0.04	0.87	<1	1.50	212.0	0.62	<0.05	6.5	0.367	0.39	2.1	108	0.9	15.7	70	63.0	23	FA04030732
2029	1.27	1.15	9.5	26.0	700	12.7	58.1	<0.002	0.03	1.04	<1	1.70	199.5	0.70	0.05	7.3	0.409	0.36	2.3	112	1.3	16.0	74	71.0	20	FA04030732
2030	1.07	1.19	10.1	25.8	670	12.2	57.0	<0.002	0.03	0.90	<1	1.50	204.0	0.72	<0.05	8.2	0.429	0.37	2.4	110	1.2	16.6	67	75.6	25	FA04030732
2032	1.06	1.24	9.3	26.3	690	11.6	56.9	<0.002	0.03	0.91	<1	1.50	214.0	0.71	0.05	7.4	0.400	0.33	2.2	106	1.0	16.8	71	72.5	24	FA04030732
2033	1.18	1.13	8.6	26.9	740	12.5	56.4	<0.002	0.03	0.96	<1	1.40	199.0	0.64	0.05	7.1	0.394	0.34	2.1	110	0.9	17.2	78	69.4	43	FA04030732
2034	0.85	1.37	16.0	29.8	1190	15.5	85.0	<0.002	0.02	1.39	<1	2.50	290.0	1.20	<0.05	13.0	0.442	0.51	3.1	114	1.4	18.3	74	54.6	32	FA04030732
2035	0.67	1.38	11.0	33.9	900	13.1	64.4	<0.002	0.02	1.16	<1	1.70	258.0	0.79	<0.05	10.9	0.440	0.37	2.8	113	1.2	18.2	74	64.0	36	FA04030732
2036	1.11	1.30	11.2	31.9	960	14.4	70.8	<0.002	0.03	1.18	<1	1.70	241.0	0.79	<0.05	10.4	0.418	0.39	2.8	114	1.4	17.4	77	62.2	50	FA04030732
2037	0.78	1.40	10.1	36.7	850	12.4	61.3	<0.002	0.02	1.18	<1	1.50	251.0	0.75	<0.05	8.5	0.414	0.34	2.3	113	1.0	18.0	79	59.3	77	FA04030732
2038	1.12	1.49	37.6	27.6	2040	15.4	96.4	<0.002	0.03	1.32	<1	6.70	356.0	2.98	0.05	20.6	0.614	0.54	11.6	122	2.7	25.8	72	70.7	26	FA04030733
2040	0.75	1.35	10.0	34.8	850	13.0	62.8	<0.002	0.03	1.15	<1	1.60	252.0	0.77	<0.05	8.9	0.402	0.37	2.6	110	1.0	17.3	74	63.4	60	FA04030733
2041	0.69	1.56	11.2	32.4	900	11.6	59.4	<0.002	0.02	1.17	<1	1.80	262.0	0.82	<0.05	9.4	0.443	0.40	2.4	114	1.5	18.3	82	65.1	86	FA04030733
2042	0.70	1.52	10.5	32.4	880	12.0	61.1	<0.002	0.02	1.12	<1	1.60	258.0	0.79	<0.05	8.4	0.424	0.39	2.4	114	1.3	17.4	88	64.4	71	FA04030733
2043	0.76	1.49	10.6	33.3	890	12.6	62.9	<0.002	0.03	1.14	<1	1.90	255.0	0.81	<0.05	9.0	0.412	0.40	2.4	114	1.2	17.7	83	62.0	84	FA04030733
2045	0.86	1.51	11.2	32.3	930	12.0	62.2	<0.002	0.03	1.16	<1	1.80	260.0	0.84	<0.05	9.1	0.444	0.38	2.4	118	1.2	17.9	80	65.9	52	FA04030733
2046	0.70	1.42	9.1	32.9	780	11.9	62.8	<0.002	0.03	1.10	<1	1.70	239.0	0.64	<0.05	7.6	0.360	0.40	2.2	108	1.1	16.2	86	56.2	70	FA04030733
2047	0.67	1.46	20.3	28.4	1000	11.4	58.0	<0.002	0.02	1.05	<1	2.50	251.0	1.66	<0.05	13.6	0.596	0.37	3.2	119	2.0	20.5	70	86.1	48	FA04030733
2048	0.62	1.42	12.2	29.8	860	11.0	57.7	<0.002	0.02	1.03	<1	1.80	236.0	0.90	<0.05	10.0	0.448	0.38	2.6	111	1.4	18.7	76	70.6	98	FA04030733
2050	0.59	1.38	10.8	30.4	880	11.1	58.1	<0.002	0.38	1.19	<1	1.90	232.0	0.87	<0.05	9.8	0.398	0.39	2.2	108	1.3	16.5	73	60.6	77	FA04030733
2064	0.68	0.96	8.9	53.5	700	10.5	72.9	<0.002	0.04	1.02	<1	1.70	150.0	0.61	<0.05	7.3	0.395	0.59	2.0	136	1.4	19.0	98	78.1	20	FA04030733
2065	1.26	1.10	12.4	68.3	630	11.6	70.4	<0.002	0.03	1.37	<1	1.80	159.0	0.97	0.05	9.0	0.423	0.56	2.4	130	1.1	19.6	91	97.0	24	FA04030733
2067	1.18	1.16	11.6	59.2	680	11.5	68.4	<0.002	0.02	1.23	<1	1.80	171.5	0.82	<0.05	9.2	0.450	0.51	2.3	136	1.0	18.5	98	89.3	41	FA04030733
2068	1.10	1.16	10.2	51.3	700	11.9	68.7	<0.002	0.03	1.22	<1	1.80	182.5	0.72	0.05	8.1	0.404	0.57	2.5	128	1.1	18.1	90	84.9	21	FA04030733
2069	1.08	1.28	10.4	56.3	820	12.0	63.4	<0.002	0.02	1.24	<1	1.60	203.0	0.72	<0.05	8.3	0.420	0.44	2.2	128	1.1	18.6	99	78.1	72	FA04030733
2070	1.11	1.19	10.1	61.1	730	12.3	65.3	<0.002	0.02	1.25	<1	1.60	182.0	0.75	<0.05	7.8	0.417	0.44	2.1	132	1.1	17.6	101	82.5	30	FA04030733
2075	0.86	1.24	9.2	36.9	750	11.6	65.2	<0.002	0.03	1.37	<1	2.10	198.0	0.67	0.05	7.7	0.406	0.41	2.0	122	1.2	16.3	84	65.5	56	FA04030733
2077	0.87	1.22	9.2	36.8	770	11.6	67.4	<0.002	0.03	1.32	<1	2.20	193.0	0.69	0.05	7.9	0.412	0.45	2.1	126	1.5	16.2	78	63.2	41	FA04030733
2078	0.86	1.23	10.0	36.4	740	12.4	66.6	<0.002	0.03	1.52	<1	2.40	187.0	0.70	0.05	8.6	0.437	0.47	2.2	122	1.9	16.2	71	68.3	39	FA04030733
2079	0.91	1.22	9.0	38.3	740	11.4	75.1	<0.002	0.02	1.42	<1	2.40	192.0	0.65	0.05	7.3	0.368	0.48	2.0	124	1.2	15.7	77	64.2	35	FA04030733
2080	1.02	1.12	10.2	44.6	810	13.1	78.7	<0.002	0.03	1.74	<1	2.90	177.5	0.75	0.06	8.1	0.431	0.55	2.1	137	1.9	17.0	82	66.8	27	FA04030733
2081	0.69	1.24	9.9	37.1	720	12.2	70.4	<0.002	0.03	1.50	<1	2.50	192.5	0.76	0.06	8.1	0.431	0.47	2.1	124	1.6	16.4	75	63.3	48	FA04030733
2083	0.49	1.36	9.6	35.5	730	40.4	61.9	<0.002	0.02	3.83	<1	1.90	199.0	0.70	<0.05	8.2	0.447	0.43	1.9	128	1.0	16.5	176	58.7	46	FA04030733
2085	0.81	1.22	10.4	43.5	980	215.0	75.4	<0.002	0.04	13.60	<1	3.80	197.5	0.76	0.05	8.0	0.464	0.51	2.1	134	1.6	19.3	320	74.1	39	FA04030733
2122	1.00	1.63	12.2	33.2	620	11.3	43.2	<0.002	0.02	0.89	<1	1.70	201.0	0.85	<0.05	6.2	0.852	0.25	1.7	203	0.9	19.8	95	90.3	55	FA04030733
2804	1.09	1.03	10.2	31.8	670	14.2	74.9	<0.002	0.03	1.19	<1	3.90	160.0	0.77	0.07	8.1	0.432	0.57	2.2	132	1.6	14.4	91	72.2	40	FA04030733
2805	1.09	0.83	10.0	33.3	790	15.1	76.4	<0.002	0.03	1.28	<1	3.70	162.0	0.73	0.06	8.0	0.454	0.74	2.1	137	2.7	13.9	97	74.7	28	FA04030733
2806	0.82	1.26	10.2	32.7	690	20.0	67.7	<0.002	0.02	1.25	<1	2.00	196.0	0.77	0.05	8.8	0.426	0.45	2.2	122	1.4	16.2	86	71.6	42	FA04030733
3171	0.97	0.86	7.4	49.2	860	19.1	56.5	<0.002	0.07	2.92	1	1.50	213.0	0.56	0.05	6.1	0.346	0.44	2.2	122	0.8	24.8	105	61.5	16	FA04030733
4201	0.95	1.12	9.0	32.9	740	12.3	63.3	<0.002	0.05	16.00	<1	1.60	189.0	0.61	0.05	7.4	0.435	0.43	2.1	134	1.0	17.8	108	66.5	19	FA04030733

Table 2. Limits, digestive methods, and analytical methods for trace-element geochemical analysis.

Analytical methods: AAS = Atomic Absorption Spectroscopy, ICP-MS = Inductively Coupled Plasma-Mass Spectroscopy, ICP-AES = Inductively Coupled Plasma-Atomic Emission Spectroscopy. * -Possible Incomplete Digestion.

Element	Digestion Method	Analytical Method	Lower Detection Limit	Upper Detection Limit
Au	Fire Assay	AAS	0.005 ppm	10 ppm
Ag	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.01 ppm	100 ppm
Al	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.01%	25%
As	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.2 ppm	10,000 ppm
Ba*	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	10 ppm	10,000 ppm
Be	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.05 ppm	1000 ppm
Bi	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.01 ppm	10,000 ppm
Ca	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.01%	25%
Cd	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.02 ppm	500 ppm
Ce	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.01 ppm	500 ppm
Co	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.1 ppm	10,000 ppm
Cr*	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	1 ppm	10,000 ppm
Cs	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.05 ppm	500 ppm
Cu	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.2 ppm	10,000 ppm
Fe	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.01%	25%
Ga	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.05 ppm	500 ppm
Ge	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.05 ppm	500 ppm
Hf	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.1 ppm	500 ppm
Hg	Cold Vapor Nitric Aqua Regia digestion	AAS	10 ppm	100 ppm
In	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.005 ppm	500 ppm
K	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.01%	10%
La	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.5 ppm	500 ppm
Li	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.2 ppm	500 ppm
Mg	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.01%	15%
Mn	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	5 ppm	10,000 ppm
Mo	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.05 ppm	10,000 ppm
Na	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.01%	10%
Nb	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.1 ppm	500 ppm
Ni	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.2 ppm	10,000 ppm
P	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	10 ppm	10,000 ppm
Pb	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.5 ppm	10,000 ppm
Rb	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.1 ppm	500 ppm
Re	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.002 ppm	50 ppm
S	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	0.01%	10%
Sb	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.05 ppm	1,000 ppm
Se	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	1 ppm	1,000 ppm
Sn*	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.2 ppm	500 ppm
Sr	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.2 ppm	10,000 ppm
Ta*	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.05 ppm	100 ppm
Te	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.05 ppm	500 ppm
Th	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.2 ppm	500 ppm
Ti*	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.005%	10%
Tl	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.02 ppm	500 ppm
U	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.1 ppm	500 ppm
V	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	1 ppm	10,000 ppm
W*	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES & ICP-MS	0.1 ppm	10,000 ppm
Y	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.1 ppm	500 ppm
Zn	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-AES	2 ppm	10,000 ppm
Zr*	HF-HNO ₃ -HClO ₄ acid digestion & HCl leach	ICP-MS	0.5 ppm	500 ppm