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# Mineral Investigations in the Bristol Bay Mining District Study Area, Southwestern Alaska, 2006

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**BLM**

Alaska



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## **Cover**

BLM geologists evaluate a color anomaly near Lake Clark in the Bristol Bay Mining District.

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MINERAL INVESTIGATIONS  
IN THE  
BRISTOL BAY MINING DISTRICT STUDY AREA  
SOUTHWEST ALASKA  
2006

by

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## **ABSTRACT**

In 2006, the Bureau of Land Management (BLM) completed the first year of the Bristol Bay Mining Study Area. Investigators mapped or sampled approximately 60 mineral occurrences in the 27.2-million-acre Bristol Bay Mining Study Area, BLM collected and analyzed 309 rock chip, pan concentrate, and stream sediment samples during the investigation.

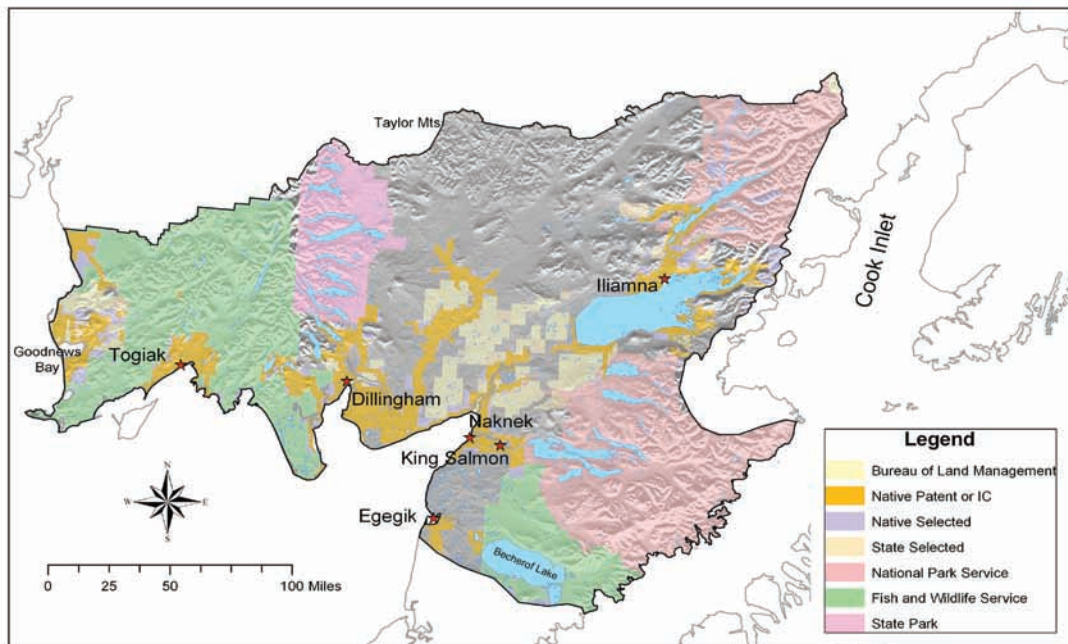




## INTRODUCTION

As part of the Bristol Bay mining area study, personnel from the Division of Energy and Solid Minerals of the Bureau of Land Management - Alaska (BLM) conducted mineral investigations in the 27.2-million-acre Bristol Bay Mining Study Area. The investigations are part of BLM's ongoing mineral assessment program of public land in Alaska, as authorized by Congress in Section 1010 of the Alaska National Interest Lands Conservation Act (ANILCA), which reads:

*“Section 1010(a): MINERAL ASSESSMENTS. -- The Secretary shall, to the full extent of his authority, assess the oil, gas, and other mineral potential on all public lands in the State of Alaska in order to expand the data base with respect to the mineral potential in such lands...”*



**Figure 1. General land status and location map of the Bristol Bay Mining Study Area**

Goals of BLM mineral assessments are to compile, analyze, and publicize mineral information to facilitate multiple-use management of the area. Mineral information includes mineral occurrence surveying, mapping, and sampling; airborne and ground-based geophysics; stream sediment geochemistry; and economic, engineering, and environmental analysis. BLM is scheduled to complete fieldwork for the mineral assessment of the district in 2008 and produce a final report in 2009.

The Bristol Bay Study Area extends from Goodnews Bay in the west to Cook Inlet in the east, as far north as the Taylor Mountains, and as far south as Becharof Lake (figure 1). BLM geologists

collected 309 rock chip, stream sediment, and pan concentrate samples while evaluating approximately 60 prospects and mineral occurrences in the district during short reconnaissance in 2005 and 2006.

In this report, the authors present geochemical data that have resulted from the analyses of samples collected during 2006 in the Bristol Bay Mining Area Study.

Table 2 presents the commercial laboratory's analytical results for rock chip samples. Coordinates for all samples are presented in table 3.

## FIELD SEASON REVIEW WITH HIGHLIGHTS

Four BLM geologists spent approximately 28 field days investigating mineral occurrences during June and July 2006. This effort mostly concentrated on the eastern part of the district, composed primarily of Permian to Cretaceous accretionary rocks of the Peninsular terrane that have been intruded by large Jurassic batholiths (Nokleberg and others, 1994)<sup>1</sup>. Occurrences investigated included copper-gold porphyrys such as the Pebble deposit as well as skarn, vein gold, and placer gold deposit types.

In general the high density of historical mineral occurrences in the region, favorable geologic environment, and field observations of significant areas of hydrothermal alteration indicate this part of Alaska is anomalously endowed with minerals and has good potential to host major deposits. Discoveries of world-class copper-gold porphyry deposits north of Iliamna are indicative of the potential deposits in the eastern portion the study area.



**Figure 2. Copper and gold bearing quartz veins at the Pfaff prospect. Gold in select samples ran as high as 24 ppm.**

In 2006, BLM contracted for an airborne geophysical survey to be flown in the Goodnews Bay quadrangle (figure 1). The survey, administered by the State of Alaska, Division of Geological and Geophysical Surveys (ADGGS), is scheduled to include the collection of fixed-wing aeromagnetic data across the entire quadrangle. The primary target of the survey was copper-nickel-PGE-bearing mafic and ultramafic rocks. The survey is currently anticipated to be flown in 2007 with results released late in the year. When released, information about the survey data will be available from ADGGS at <http://www.dggs.dnr.state.ak.us>.

<sup>1</sup> Nokleberg, W.J., Plafker, G., Wilson, F.H., 1994, Geology of south-central Alaska *in* The Geology of Alaska, Plafker G., and Berg, H.C., eds. Geological Society of America, Boulder, Colorado, p.311-366.



**Figure 3. Geologist samples a copper occurrence near the north shore of Lake Kontrashibuna.**

## **SAMPLING AND ANALYTICAL PROCEDURES**

### **SAMPLING METHODS**

BLM personnel collected several types of rock samples during this study:

Channel samples -- rock fragments, chips, or dust from a continuous channel of uniform width and depth across an exposure;

Chip channel samples -- chips of rock taken in a continuous line across a relatively uniform width and depth of an exposure;

Continuous chip samples -- chips of rock taken in a continuous line across an exposure;

Representative chip samples -- discontinuous chips of rock taken across an exposure;

Spaced chip samples -- chips of rock taken at a specified interval across an exposure;

Random chip samples -- chips of rock taken randomly across an exposure;

Grab samples -- rock chips or fragments taken more or less at random from an outcrop, float, or mine dump; and,

Select samples -- rock chips collected from the highest-grade parts of a mineralized zone.

Stream sediment, soil, and pan concentrate samples are collected in reconnaissance fashion to detect any anomalous metal values that may indicate the presence of mineralized rock in an area. Stream sediment samples are collections of silt- and clay-sized particles taken from a stream bed. Pan concentrate samples consist of one pan full of gravel, sand, and/or fines reduced by standard panning methods. The resultant concentrate of fines, approximately 0.75 ounces, is then analyzed.

### **ANALYTICAL METHODS**

All analyses were conducted by a commercial laboratory. Rock samples were dried, crushed to a minus 10 mesh, split and pulverized to minus 150 mesh. Stream sediment samples were dried and sieved to a minus 80 mesh. Pan concentrate samples were pulverized to minus 200 mesh. For samples analyzed by inductively coupled argon plasma (ICP) and atomic absorption spectrophotometry (AA), a 0.5-gram sample was dissolved in aqua regia for measurement. For samples analyzed by X-ray fluorescence (XRF), a 10-gram pressed pellet was prepared for measurement. Samples were analyzed for gold by fire assay pre-concentration of a 30-gram sample, followed by an ICP finish, with results reported in parts per billion. Platinum and palladium were analyzed by fire assay pre-concentration of a 30-gram sample, followed by an ICP finish, with results reported in parts per billion.

The remaining elements were analyzed by ICP with results reported as either parts per million or percent. In most instances, when the results of samples analyzed by this method exceeded the upper detection limits, the samples were not reanalyzed, but results were reported as being greater than the corresponding upper detection limit.

**TABLE 1. REPORTING METHODS**

<b>Element</b>	<b>Units Reported</b>	<b>Lower Detection Limit</b>	<b>Upper Detection Limit</b>	<b>Analytical Method</b>
Pt	ppb	5	10000	FA
Pd	ppb	1	10000	FA
Au	ppb	1	10000	FA
Ag	ppm	0.2	100	ICP
Cu	ppm	1	10000	ICP
Cu	pct	0.01	30.00	AA
Pb	ppm	2	10000	ICP
Pb	pct	0.01	30	AA
Zn	ppm	2	10000	ICP
Zn	pct	0.01	30	AA
Mo	ppm	1	10000	ICP
Ni	ppm	1	10000	ICP
Ni	pct	0.01	50	AA
Cr	ppm	1	10000	ICP
Al	pct	.01	15	ICP
As	ppm	2	10000	ICP
Ba	ppm	10	10000	ICP
Ba	ppm	10	10000	XRF
Ba	pct	0.01	50	XRF
Bi	ppm	2	10000	ICP
Ca	pct	0.01	15	ICP
Cd	ppm	0.5	500	ICP
Co	ppm	1	10000	ICP
Fe	pct	0.01	15	ICP
Ga	ppm	10	10000	ICP
Hg	ppm	0.01	100	AA
K	pct	0.01	10	ICP
La	ppm	10	10000	ICP
Mg	pct	0.01	15	ICP
Mn	ppm	5	10000	ICP
Na	ppm	0.01	10	ICP
Sb	ppm	2	10000	ICP
Sc	ppm	1	10000	ICP
Sr	ppm	1	10000	ICP
Ti	pct	0.01	10	ICP
V	ppm	1	10000	ICP
W	ppm	10	10000	ICP
W	ppm	10	10000	XRF

The site descriptions in this report contain select analytical results. These results are dependent primarily on analytical methods used to analyze the sample.

## ANALYTICAL RESULTS FOR SAMPLES FROM MINES, PROSPECTS, MINERAL OCCURRENCES, AND RECONNAISSANCE INVESTIGATIONS

Analytical and sample data are presented in table 1. The results are organized by map number in the table, as well as on plate 1.

### UNITS OF MEASURE

Results are recorded under the element's chemical symbol in the following units. Over-detection-limit samples were reanalyzed, using a different analytical technique with different units of measurement.

### ABBREVIATIONS

#### *Sample types:*

PC pan concentrate  
PL Placer

R rock chip  
SS stream sediment

#### *Sampling method (Rock Chip):*

CH Channel  
CC chip channel  
C continuous chip  
G Grab

RC random chip  
Rep representative chip  
S select  
SC spaced chip

*Sample size:* Sample sizes are given in feet. The sizes of spaced chip samples are given by the overall size of the sample followed by the sample spacing (e.g., 10 feet @ 0.5-foot spacings).

#### *Sample sites:*

FL Float  
MD mine dump  
MT mine tailings

OC outcrop  
RC rubblecrop  
TP trench, pit, or cut

*Sample descriptions:*

@	At	gs	greenstone
alt	Altered	gw	graywacke
amp	amphibolite/amphibole	hbl	hornblende
and	Andesite	int	intrusive
arg	Argillite	ls	limestone
aspy	Arsenopyrite	mag	magnetite
bn	Bornite	mg	medium-grained
bt	Biotite	meta	metamorphic
br	breccia/brecciated	mal	malachite
calc	Calcareous	mo	molybdenite
carb	Carbonate	msv	massive
cin	Cinnabar	peg	pegmatite
cg	coarse-grained	phy	phyllite
chl	chlorite/chloritic	po	pyrrhotite
cs	Coarse	porph	porphyry/porphyritic
cuox	copper oxide	py	pyrite/pyritic
cpy	Chalcopyrite	qtz	quartz
dissem	disseminated/disseminations	qtz	quartzite
dac	Dacite	sed	sediment
di	Diorite	ser	sericite
dol	dolomite/dolomitic	sch	schist
fel	Felsic	sil	silicified/siliceous
feox	iron-oxidized	sph	sphalerite
fg	fine-grained	sulf	sulfide
gb	Gabbro	vn(s)	vein(s)
gdi	Granodiorite	volc	volcanic
gn	Galena	w/	with
gp	graphite/graphitic		
grt	Garnet		



**TABLE 2**

**ANALYTICAL RESULTS FOR  
ROCK CHIP, STREAM SEDIMENT, AND PAN CONCENTRATE  
SAMPLES**

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Pd ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
1	11455 Neocola Mtns	R	OC	S		fg diorite w/ disseminations of py± cpy	<0.005	0.019	0.004	0.2	287	5	38	9
1	11456 Neocola Mtns	R	OC	Rep		feox gneiss w/ sulf	<0.005	0.018	0.017	<0.2	389	2	31	2
1	11457 Neocola Mtns	R	RC	G		granite w/ minor feox	<0.005	<0.001	<0.001	<0.2	11	2	38	3
1	11458 Neocola Mtns	R	OC	S		metaseds & ls w/ minor sulf	<0.005	0.005	0.135	0.7	182	12	43	1220
1	11459 Neocola Mtns	R	RC	S		gs w/ cpy & cuox	0.019	0.085	0.252	4.1	5580	5	46	12
1	11460 Neocola Mtns	R	RC	S		msv gs w/ seam of cpy	<0.005	0.01	1.41	8.6	<b>1.87%</b>	4	165	14
1	11461 Neocola Mtns	R	OC	Rep		gs w/ po	<0.005	0.013	0.07	0.4	486	2	20	2
1	11462 Neocola Mtns	R	RC	Rep		msv sulf containing po, cpy, & sp	<0.005	0.012	2.64	123	<b>7.90%</b>	14	<b>7.97%</b>	420
1	11463 Neocola Mtns	R	OC	SC	5.5	skarn w/ msv sulf containing po, cpy, & sp	<0.005	0.047	0.875	38.7	<b>2.73%</b>	13	<b>12.80%</b>	391
2	11426 Twin Lakes East	R	RC	G		feox volc w/ py ± cpy	<0.005	0.004	0.002	<0.2	234	3	51	11
2	11427 Twin Lakes East	R	OC	S	1.5	feox fg volc w/ py & cpy	0.007	0.005	0.001	<0.2	130	5	40	25
2	11428 Twin Lakes East	R	OC	S	1	feox fg volc w/ py & cpy	<0.005	0.003	<0.001	<0.2	169	6	44	15
2	11473 Twin Lakes East	R	OC	SC	14@1	arg clast w/ py in metaseds	0.006	0.02	0.116	0.3	266	16	78	50
2	11474 Twin Lakes East	R	RC	G		mafic int w/ po/py	<0.005	<0.001	<0.001	<0.2	110	2	72	5
2	11475 Twin Lakes East	R	RC	G		mafic int w/ po/py	<0.005	<0.001	<0.001	0.2	131	9	96	13
2	11476 Twin Lakes East	R	RC	S		alt gbo w/ cpy	<0.005	0.015	0.006	4.5	<b>4.03%</b>	13	214	3
2	11477 Twin Lakes East	R	OC	Rep	35	and w/ py ± cpy	<0.005	<0.001	<0.001	<0.2	197	3	54	15
2	11478 Twin Lakes East	R	RC	G		ls w/ disseminations & seams of fg to cg py	<0.005	<0.001	0.001	0.2	258	5	40	22
3	11429 Twin Lakes West	R	OC	S	8	feox altered rock in fract	<0.005	<0.001	0.001	0.5	24	11	46	<2
3	11430 Twin Lakes West	R	FL			feox vugs w/ py	<0.005	<0.001	0.003	0.3	84	9	124	35
3	11445 Twin Lakes West	R	FL	S		feox shear w/ sulf	<0.005	<0.001	0.001	0.2	13	37	62	2
3	11479 Twin Lakes West	R	OC	Rep	30	feox and w/ py	<0.005	<0.001	<0.001	<0.2	19	15	112	3
3	11480 Twin Lakes West	R	OC	SC	29	feox and w/ disseminations py	<0.005	<0.001	<0.001	0.2	27	40	97	11
3	11481 Twin Lakes West	R	OC	G		volc contact w/ minor py	<0.005	<0.001	0.003	0.2	24	38	144	15
3	11482 Twin Lakes West	R	FL	G		shear in arg w/ qtz, sph, gn, & cpy	0.005	0.001	0.002	5.6	277	1010	2570	38
3	11483 Twin Lakes West	R	OC	SC	8	sil volc w/ minor py	<0.005	<0.001	<0.001	<0.2	8	11	30	2
4	11449 Summit Creek	PC					<0.005	<0.001	0.355	<0.2	25	25	221	6
4	11499 Summit Creek	R	OC	SC	12	dacite w/ disseminations of fg py	<0.005	0.002	0.004	<0.2	121	10	74	19
4	11504 Summit Creek	PC				1 pan, 1 f gold	<0.005	<0.001	0.053	<0.2	19	6	53	7
4	11506 Summit Creek	R	FL	G	1	feox fg volc w/ py	<0.005	<0.001	0.002	0.4	194	9	73	17
4	11551 Summit Creek	R	OC	Rep		and to dac w/ fg disseminations py	<0.005	0.002	0.004	0.2	200	7	81	16
4	11552 Summit Creek	R	RC	G		feox granite	<0.005	<0.001	0.002	0.3	32	13	130	5
5	11505 Summit Creek Trib	PC				2 pans, 1 vf gold	<0.005	0.001	0.622	<0.2	13	9	89	5
6	11401 Bonanza Creek	SS					--	--	0.007	0.4	42	10	144	55
7	11567 Otter Lake N.	R	RC	G		msv mag w/ qtz segregations & clasts	0.009	0.022	0.011	<0.2	134	15	117	25

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map No	Sample No	Al ppm	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Fe ppm	Ga ppm	Hg ppm	K ppm	La ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	S pct	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm
1	11455	1.88	90	<2	1.17	<0.5	33	5.16	10	0.01	0.37	<10	0.94	254	2	0.21	49	1.19	3	6	8	35	0.3	151	10
1	11456	0.7	70	<2	0.81	<0.5	24	4.59	<10	<0.01	0.06	<10	0.37	205	51	0.12	32	0.91	<2	4	8	11	0.19	183	<10
1	11457	0.44	830	<2	1.14	<0.5	3	1.69	<10	<0.01	0.27	10	0.18	635	1	0.06	1	0.04	<2	4	9	11	0.06	14	10
1	11458	2.05	180	2	4.04	<0.5	31	5.35	10	0.01	0.1	<10	0.23	126	2	0.38	41	3.37	5	3	8	291	0.12	35	10
1	11459	0.92	10	<2	1.51	0.8	8	1.89	<10	0.01	0.02	<10	0.2	98	1	0.06	25	0.71	<2	2	7	39	0.39	52	<10
1	11460	1.12	30	<2	1.54	1.2	29	3.76	10	0.02	0.03	<10	0.24	97	<1	0.07	61	1.83	<2	2	7	73	0.19	33	10
1	11461	0.89	50	49	0.96	<0.5	21	3.58	<10	0.01	0.17	<10	0.53	184	71	0.13	37	1.52	<2	3	8	16	0.35	93	10
1	11462	0.2	<10	23	3.01	429.0	294	32.4	<10	0.1	0.01	<10	0.07	866	1	0.02	998	10	26	1	6	13	0.01	4	<10
1	11463	0.5	<10	<2	3.92	500.0	251	26.4	<10	0.2	0.01	<10	0.04	1300	<1	0.02	551	10	26	1	7	5	0.03	11	<10
2	11426	4.81	750	<2	1.6	<0.5	39	6.09	10	<0.01	0.82	<10	4.01	181	<1	0.31	64	2.16	13	8	8	184	0.19	229	<10
2	11427	6.41	1440	3	2.49	<0.5	27	4.79	10	<0.01	2.12	<10	3.41	142	<1	0.34	41	1.19	17	15	8	446	0.22	258	10
2	11428	7.49	2300	3	3.27	<0.5	29	5.68	10	<0.01	1.9	<10	3.75	169	2	0.36	43	1.73	22	9	8	393	0.29	207	10
2	11473	6.55	1090	2	3.37	<0.5	38	6.34	20	<0.01	0.91	<10	2.13	197	<1	0.16	58	2.25	18	13	8	165	0.29	215	10
2	11474	2.59	240	<2	1.23	<0.5	33	5.25	10	<0.01	0.05	<10	1.86	454	<1	0.24	54	0.73	4	7	8	35	0.15	114	10
2	11475	2.95	200	<2	1	<0.5	37	4.86	10	<0.01	0.22	<10	2.13	308	<1	0.24	63	0.89	7	8	8	64	0.11	121	<10
2	11476	1.8	330	<2	2.3	3.8	31	6.04	10	0.03	0.05	<10	2.01	309	<1	0.05	40	3.17	4	6	7	31	0.33	113	<10
2	11477	3.8	440	<2	1.87	<0.5	33	4.86	10	<0.01	0.16	<10	1.51	256	<1	0.29	57	1.33	8	5	8	93	0.11	98	10
2	11478	0.69	170	<2	25	<0.5	5	2.51	<10	<0.01	0.1	<10	2.61	640	<1	0.03	17	1.5	<2	2	7	662	0.03	18	10
3	11429	0.25	440	<2	1.35	<0.5	2	2.13	<10	<0.01	0.06	20	0.08	703	<1	0.07	2	<0.01	<2	10	10	31	0.01	11	10
3	11430	2.23	1060	2	3.48	<0.5	15	4.47	10	0.01	0.15	20	1.4	1290	<1	0.04	17	0.24	17	8	8	150	0.01	88	10
3	11445	0.29	940	<2	0.35	<0.5	1	1.44	<10	<0.01	0.08	20	0.07	956	8	0.06	1	0.06	<2	2	9	14	<0.01	5	10
3	11479	0.89	990	<2	0.44	<0.5	2	3.79	10	<0.01	0.18	10	0.27	967	1	0.08	1	0.48	<2	6	9	25	0.13	2	10
3	11480	0.68	1120	<2	0.25	<0.5	<1	2.58	<10	<0.01	0.1	10	0.11	446	3	0.12	1	0.48	<2	4	9	20	0.1	1	10
3	11481	0.32	140	<2	0.08	<0.5	<1	2.13	<10	0.01	0.19	70	0.03	551	5	0.1	3	0.63	<2	<1	9	9	<0.01	1	10
3	11482	1.7	240	5	17.8	21.1	9	3.02	<10	0.15	0.03	10	5.59	7750	<1	0.02	125	<0.01	19	6	9	2100	0.01	47	<10
3	11483	0.57	1560	<2	0.31	<0.5	1	1.88	<10	<0.01	0.28	30	0.05	298	<1	0.08	1	<0.01	<2	5	9	10	0.01	4	10
4	11449	0.98	120	<2	0.28	<0.5	34	19.3	20	0.01	0.03	70	0.49	1120	5	0.03	23	0.01	6	6	9	16	1.13	815	30
4	11499	3.71	550	<2	1.14	<0.5	17	4.53	10	<0.01	0.65	10	1.12	371	2	0.25	37	1.03	<2	6	9	105	0.09	92	10
4	11504	1.25	660	<2	0.5	<0.5	8	3.43	<10	0.01	0.16	20	0.47	426	<1	0.06	14	0.01	<2	4	12	37	0.17	93	10
4	11506	1.58	970	<2	0.39	<0.5	6	1.98	<10	<0.01	0.41	20	0.08	261	2	0.12	1	0.47	<2	1	10	24	0.02	2	10
4	11551	3.34	560	<2	0.79	<0.5	17	4.42	10	<0.01	0.47	10	1.17	469	1	0.17	30	0.76	<2	7	8	56	0.1	104	10
4	11552	0.68	720	<2	0.15	<0.5	2	2.17	<10	0.01	0.33	20	0.12	305	1	0.15	2	0.03	<2	3	8	6	0.1	15	10
5	11505	1	420	<2	0.36	<0.5	13	6.4	10	0.01	0.08	30	0.35	501	1	0.04	13	0.01	<2	4	9	22	0.36	243	10
6	11401	1.69	1030	<2	0.32	0.5	17	4.57	10	0.08	0.07	10	0.66	1095	1	0.03	55	0.03	<2	3	7	31	0.09	88	10
7	11567	0.58	1180	3	2.84	<0.5	17	35.6	<10	0.19	0.3	40	0.44	25600	4	0.03	139	0.1	2	4	7	340	0.04	459	10

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Pd ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
8	11565 Otter Lake NW	R	OC	G		carb, sil sch w/ py seams	<0.005	<0.001	0.149	0.2	101	14	17	22
8	11566 Otter Lake NW	R	RC	G		jasper w/ hem & py	<0.005	0.002	0.002	<0.2	19	2	9	8
9	11507 Otter Lake SE	R	OC	Rep		sch w/py	0.007	0.021	0.061	0.2	265	6	88	72
9	11508 Otter Lake SE	R	OC	S		feox sch	<0.005	0.016	0.087	0.7	1390	2	67	23
10	11559 Otter Lake SW	R	OC	C	3.2	feox chl sch w/ py	0.014	0.02	0.07	0.4	322	7	116	23
10	11560 Otter Lake SW	R	OC	S		chl sch w/ seams of py ± cpy	0.009	0.013	0.091	1.4	1785	10	67	292
10	11561 Otter Lake SW	R	OC	G		qtz boudin in chl sch lens/ w sulf	<0.005	0.005	0.003	<0.2	753	<2	43	4
10	11562 Otter Lake SW	R	OC	SC	16	chl sch w/ seams of py	<0.005	0.002	0.088	0.3	116	10	529	41
10	11563 Otter Lake SW	R	OC	S		chl sch w/ cpy & mag	<0.005	0.013	0.042	2	<b>2.07%</b>	4	84	13
10	11564 Otter Lake SW	R	OC	Rep	1.7	chl sch w/ py & cpy in layers	<0.005	<0.001	<0.001	<0.2	534	<2	70	<2
11	11569 South Currant Creek	R	OC	G		mafic dike in granitoid w/ cpy	<0.005	0.002	0.079	8.5	1210	26	141	3
12	11510 U.S. Currant Creek	R	FL	S		feox volc? w/ py	<0.005	<0.001	0.003	1.4	256	6	53	<2
12	11570 U.S. Currant Creek	R	RC	S		qtz-carb vn in granitoid w/ py & cpy	<0.005	0.001	0.015	5.8	125	496	3580	<2
12	11578 U.S. Currant Creek	R	RC	G		granitoid w/ py & mo	<0.005	<0.001	0.091	7.1	9310	4	67	3
12	11579 U.S. Currant Creek	R	RC	S		soft, alt rock w/ dissem & seams of mo	<0.005	<0.001	0.007	0.4	29	34	14	2
12	11580 U.S. Currant Creek	R	Rc	G		granitoid w/ py & mo	<0.005	0.001	0.006	0.9	989	9	57	4
12	11585 U.S. Currant Creek	R	RC	G		feox granitoid w/ py ± cpy	<0.005	<0.001	0.002	0.7	77	10	33	<2
13	11514 N. Currant	R	FL	S	70	meta w/ py	<0.005	0.015	0.088	0.7	1010	33	55	44
13	11583 N. Currant	R	RC	G		metavolc w/ py	<0.005	0.014	0.016	0.3	214	135	136	82
13	11584 N. Currant	R	OC	SC	36	alt dac w/ py	<0.005	0.027	0.038	<0.2	122	6	14	17
14	11412 Portage Ck	PC				2 pans	<0.005	0.002	0.002	<0.2	46	9	91	14
14	11413 Portage Ck	PC					--	--	--	3	74	10	314	14
14	11414 Portage Ck	PC				1 pan, 1 vf flake	--	--	--	30.6	49	6	84	15
14	11415 Portage Ck	PC				1 pan	--	--	--	1.7	44	12	122	16
14	11416 Portage Ck	PC				1 pan	<0.005	0.003	0.099	<0.2	44	6	75	12
14	11417 Portage Ck	PC				1 pan	--	--	--	--	--	--	--	--
14	11418 Portage Ck	PC				1 pan	--	--	--	0.3	64	47	203	38
15	11558 Gull	R	UW	G		rhy to dac in shear w/ tr py	<0.005	<0.001	0.003	0.2	6	117	40	2
16	11557 Gull Area	R	OC	G		feox rhy to dacite w/ minor py	<0.005	<0.001	0.01	0.3	10	121	54	4
17	11446 Kijik Lake	R	RC	S		feox alt rock w/ py	<0.005	0.004	0.001	0.4	81	4	267	6
18	11484 Kijik River area	R	OC	S		sil metased w/ py & cpy	<0.005	<0.001	0.004	51.7	2880	1225	865	3680
18	11485 Kijik River area	R	OC	S		qtz vn in fel volc w/ aspy, cpy, py, & gn	<0.005	<0.001	0.148	367	9650	1730	461	>10000
18	11486 Kijik River area	R	OC	Rep		granite shear w/py	<0.005	<0.001	0.029	25	2590	101	175	5810
18	11487 Kijik River area	R	OC	C	4	feox granite w/ py, aspy, ± cpy	<0.005	<0.001	0.005	21.3	548	92	33	2420
19	11489 NW Kijik Lake	R	OC	S		qzt w/ dissem & net of py	<0.005	0.001	0.003	1.3	56	13	7	108

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map No	Sample	Al	Ba	Bi	Ca	Cd	Co	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	S	Sb	Sc	Sn	Sr	Ti	V	W	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
8	11565	0.4	270	<2	0.34	<0.5	9	3.7	<10	0.01	0.14	10	0.11	73	8	0.01	36	1.73	3	1	8	14	<0.01	19	10	
8	11566	0.06	280	<2	0.28	<0.5	10	1.76	<10	0.02	0.04	<10	0.03	3680	<1	0.01	10	0.02	<2	<1	9	20	0.01	27	10	
9	11507	4.92	20	5	0.07	<0.5	80	18.3	10	0.06	0.01	<10	3.76	842	3	0.01	186	3.43	<2	13	7	1	0.11	222	10	
9	11508	4.68	20	5	0.2	<0.5	125	19.3	10	0.37	0.03	<10	3.94	987	7	0.01	46	3.68	<2	17	8	10	0.12	181	10	
10	11559	4.67	10	3	0.36	<0.5	30	14.5	10	0.16	0.01	<10	4.97	1095	<1	0.01	117	2.11	<2	24	8	2	0.09	206	10	
10	11560	3.64	10	2	0.03	<0.5	106	12.9	10	0.18	0.01	<10	3.01	760	9	0.01	78	4.59	<2	23	7	<1	0.04	241	10	
10	11561	1.48	<10	<2	0.14	<0.5	38	2.96	<10	0.03	0.01	<10	1.37	481	1	0.01	50	0.09	<2	9	8	2	0.01	58	10	
10	11562	2	170	<2	0.02	1.1	6	5.29	10	1.91	0.11	<10	1.44	918	10	0.02	13	1.41	<2	6	8	1	<0.01	42	<10	
10	11563	4.04	20	9	0.05	<0.5	96	16	10	0.15	0.15	<10	2.89	710	13	0.02	87	2.04	<2	19	7	2	0.01	152	<10	
10	11564	3.9	50	<2	1.47	<0.5	37	7.09	10	0.08	0.24	<10	3.09	1045	<1	0.04	28	0.06	3	20	8	29	0.01	155	10	
11	11569	3.59	410	4	1.38	0.8	21	3.87	10	<0.01	1.2	<10	1.1	1055	4	0.24	44	0.5	<2	6	9	99	0.19	65	10	
12	11510	1.83	410	2	0.7	<0.5	11	4.79	10	<0.01	0.2	10	0.92	506	40	0.13	5	2.89	<2	4	8	88	0.07	56	10	
12	11570	0.38	580	14	2.12	40.7	4	2.04	<10	0.22	0.24	10	0.19	1330	2	0.02	4	2.1	<2	1	8	44	<0.01	7	<10	
12	11578	1.54	310	13	0.58	<0.5	25	6.03	10	0.01	0.51	<10	1.09	481	78	0.1	6	2.08	3	6	8	47	0.21	133	10	
12	11579	2.84	240	<2	1.82	0.7	<1	0.11	<10	<0.01	0.15	<10	0.02	47	6550	0.06	<1	0.46	<2	<1	6	134	0.01	3	10	
12	11580	1.38	370	<2	0.57	<0.5	17	4.37	10	<0.01	0.13	<10	0.45	324	682	0.09	5	2.73	<2	1	8	69	0.05	22	10	
12	11585	0.32	880	2	0.13	<0.5	1	1.77	<10	<0.01	0.12	<10	0.12	177	3	0.04	1	0.78	<2	<1	8	12	0.02	11	10	
13	11514	2.68	210	<2	0.86	<0.5	45	7.35	10	0.02	0.55	<10	1.92	343	41	0.08	105	1.96	<2	21	8	25	0.54	286	10	
13	11583	1.71	60	<2	1.26	0.5	18	6.75	10	0.01	0.02	<10	1.18	821	3	0.06	26	1.96	5	7	7	20	0.77	193	10	
13	11584	1.18	70	2	1.02	<0.5	12	6.38	10	0.02	0.05	<10	1.19	220	2	0.06	30	1.64	5	10	8	12	0.71	209	10	
14	11412	1.82	570	2	0.95	<0.5	24	8.29	10	0.02	0.14	10	1.48	798	1	0.05	88	0.03	3	6	8	31	0.51	299	10	
14	11413	1.06	--	9	0.41	<0.5	66	36.2	30	0.2	0.03	<10	1	1900	1	0.02	91	0.04	7	10	--	9	1.87	1550	--	
14	11414	1.69	470	<2	0.89	<0.5	23	7.72	10	0.07	0.1	10	1.55	724	1	0.04	96	0.02	3	6	8	29	0.43	254	10	
14	11415	1.38	--	2	0.78	<0.5	28	12.55	10	0.1	0.08	10	1.15	929	2	0.05	83	0.1	3	6	--	27	0.7	491	--	
14	11416	1.74	490	<2	0.79	<0.5	19	5.74	10	0.02	0.14	10	1.44	747	1	0.04	82	0.02	2	6	8	26	0.33	165	10	
14	11417	--	1620	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10
14	11418	1.6	2690	14	0.61	0.6	35	18.2	10	<0.1	0.15	10	0.89	1430	4	0.06	45	0.98	5	7	8	41	0.69	511	10	
15	11558	1.13	50	<2	0.26	<0.5	<1	1.21	10	0.01	0.26	10	0.01	367	<1	0.19	1	0.1	<2	<1	8	27	0.01	1	<10	
16	11557	0.99	90	<2	0.15	<0.5	<1	1.55	10	0.01	0.32	20	0.01	126	1	0.22	1	0.04	<2	<1	8	19	0.01	2	10	
17	11446	2.77	840	<2	0.27	<0.5	19	4.1	10	<0.01	0.9	<10	1.99	909	<1	0.05	85	0.82	5	17	8	13	0.26	187	10	
18	11484	1.57	250	22	0.99	8.9	2	4.88	10	0.08	0.58	<10	0.3	788	13	0.01	8	1.84	29	2	80	89	0.01	11	10	
18	11485	0.37	30	191	0.02	5.1	5	11.3	<10	0.31	0.16	<10	0.01	83	15	0.01	<1	5.91	412	<1	51	2	<0.01	1	10	
18	11486	1.03	140	21	0.08	1.9	2	2.72	<10	0.02	0.67	10	0.02	116	6	0.01	1	1.25	14	<1	54	5	<0.01	1	10	
18	11487	0.95	180	8	0.02	<0.5	<1	2.73	10	0.02	0.56	10	0.01	105	9	0.02	1	0.22	8	<1	38	1	<0.01	1	10	
19	11489	0.08	20	34	0.01	<0.5	21	1.62	<10	<0.01	0.04	10	-0.01	28	2	-0.01	18	0.74	<2	1	14	3	<0.01	1	10	

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
19	11490 NW Kijik Lake	R	OC	SC	6	alt metased w/ sulf	<0.005	<0.001	0.5	8	24	2	22
19	11491 NW Kijik Lake	R	OC	G		granite w/ dissemin sulf	<0.005	0.001	0.002	0.4	25	4	65
20	11488 Thompson area	R	OC	G		feox felsic volc w/ minor py	<0.005	<0.001	0.5	36	17	118	79
21	11422 Pass	R	RC	G	0.5	feox dk gray, fg volc	<0.005	0.001	0.002	0.8	539	27	369
21	11423 Pass	R	RC	G		feox breccia w/ py	0.008	<0.001	0.009	3.4	2290	75	1370
21	11424 Pass	R	RC	G		feox breccia w/ py	<0.005	0.001	0.7	477	13	1150	6
21	11425 Pass	R	RC	G		feox dk gray, fg volc	0.008	<0.001	0.005	0.7	193	14	303
21	11452 Pass	R	OC	S		volc br w/ minor sulf	<0.005	<0.001	4.4	200	928	745	169
21	11453 Pass	R	OC	S		dacite w/ fg sulf	0.007	<0.001	0.4	38	28	161	17
21	11454 Pass	R	RC	S		dk dacite porph w/ minor py	<0.005	0.001	1.8	640	18	472	45
21	11469 Pass	R	OC	G		fg dk gray dacite w/ dissemin py/ po	<0.005	0.002	0.001	0.5	141	15	110
21	11470 Pass	R	OC	SC	90@5	dacite w/ dissemin fg py/ po	<0.005	0.001	0.4	117	10	135	56
21	11471 Pass	R	RC	S		dacite w/ fg to cg sulf of py/po ± gn & cpy	<0.005	<0.001	0.001	4.1	508	480	1140
21	11472 Pass	R	RC	S		feox sil dacite	<0.005	<0.001	0.4	55	168	2810	11
22	11553 Pass Area	R	OC	G		rhy to dac w/ minor py	<0.005	<0.001	0.002	0.3	6	10	20
22	11554 Pass Area	R	R	SC	7.5@0.5	sil br w/ minor py	<0.005	<0.001	0.002	0.3	5	13	8
22	11555 Pass Area	R	OC	S		dacite w/ py ± cpy	<0.005	0.001	0.005	0.3	11	14	126
23	11573 E. Gladiator	R	OC	SC	11	granitoid near shear w/ dissemin py	<0.005	<0.001	0.006	7.4	109	876	29
23	11574 E. Gladiator	R	OC	Rep		hornfels metased near shear w/ py	<0.005	0.001	<0.001	0.9	65	31	1220
23	11575 E. Gladiator	R	OC	S		feox msv py, sph, cpy & mo in granitoid	0.007	0.001	0.006	14.7	23	193	652
23	11576 E. Gladiator	R	OC	G		granitoid w/ dissemin & stringers of mo	<0.005	<0.001	0.009	15.2	13	216	72
23	11577 E. Gladiator	R	FL	G		gneissic seds w/ po/py ± cpy	<0.005	0.002	0.006	0.6	799	7	43
24	11511 Currant Creek	R	RC	G	1	feox fg dk gray meta w/ py	<0.005	<0.001	0.002	0.3	69	2	60
25	11556 Kontrashibuna Lake	R	RC	G		fel int w/ dissemin, seams, & patches of py	<0.005	0.001	0.002	<0.2	7	5	11
26	11571 W. Gladiator	R	FL	G		msv py clasts in granitoid br	<0.005	<0.001	0.353	1.7	1310	29	36
26	11572 W. Gladiator	R	FL	G		epi vn in volc w/ cpy	0.005	0.037	0.004	2.1	3800	12	37
27	11466 N. Kontrashibuna	R	FL	G		skarn w/ msv sulf containing po, cpy, & sp	<0.005	<0.001	0.02	4.4	2180	1980	688
27	11467 N. Kontrashibuna	R	OC	G		alt diorite w/ dissemin seams & knots of cpy	0.017	0.15	0.019	2.2	6300	18	73
27	11468 N. Kontrashibuna	R	RC	S		alt diorite w/ dissemin seams & knots of cpy	0.005	0.134	0.013	2	6250	15	60
28	11448 Kasna	R	OC	C	8	cust pyroxenite w/ sulf	<0.005	<0.001	0.059	4	7040	31	661
28	11497 Kasna	R	OC	SC	18@1	skarn w/ cpy, hem, mag, amph, & grt	<0.005	<0.001	0.101	28.9	2.24%	583	1280
28	11498 Kasna	R	OC	SC	60@3	skarn w/ cpy, hem & mag	<0.005	0.001	0.122	3.7	8270	23	172
28	11581 Kasna	R	OC	SC	30	skarn w/ mag, hem, & cpy	<0.005	<0.001	0.055	3.9	5760	11	250
28	11582 Kasna	R	OC	SC	42	skarn w/ mg, hem, & cpy	<0.005	<0.001	0.004	3.5	8500	4	164
29	11411 Tak II	R	RC	S			0.005	0.01	0.084	11.1	333	1260	434

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Al ppm	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Fe ppm	Ga ppm	Hg ppm	K ppm	La ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	S pct	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	
19	11490	0.62	340	5	0.01	<0.5	<1	1.52	<10	<0.01	0.24	20	-0.01	20	2	0.02	<1	0.17	<2	1	15	15	<0.01	7	10
19	11491	0.56	550	5	0.18	<0.5	<1	3.49	<10	<0.01	0.25	10	0.03	343	2	0.13	1	1.6	<2	10	8	3	0.08	3	10
20	11488	0.65	40	<2	0.08	1.0	<1	1.25	10	<0.01	0.17	40	0.02	82	3	0.11	<1	<0.01	<2	<1	8	4	<0.01	<1	10
21	11422	4.34	500	2	1.17	4.9	16	4.69	10	0.02	1.5	10	1.29	390	<1	0.36	6	0.26	13	12	10	106	0.15	115	10
21	11423	2.9	440	40	0.13	3.9	7	9.16	10	0.09	0.28	30	0.38	543	<1	0.01	4	0.63	18	4	12	6	0.03	57	20
21	11424	1.66	440	<2	0.59	19.1	6	3.97	10	0.01	0.52	50	0.51	656	<1	0.09	4	0.04	2	9	29	17	0.19	68	<10
21	11425	2.46	760	5	0.21	1.6	5	7.25	10	0.01	1.17	10	0.21	965	11	0.07	3	0.54	9	6	10	10	0.07	36	10
21	11452	1.44	400	3	0.02	1.0	1	5.17	10	0.03	0.14	10	0.04	353	3	0.01	1	0.21	13	2	16	2	0.01	4	<10
21	11453	0.41	800	<2	0.02	2.5	<1	0.98	<10	0.01	0.09	<10	0.01	76	1	0.05	<1	0.13	<2	1	10	2	<0.01	1	10
21	11454	4.3	780	5	1.22	6.7	17	4.42	10	0.01	1.45	10	1.28	443	<1	0.33	6	0.29	10	13	11	128	0.18	124	<10
21	11469	4.22	740	3	1.61	<0.5	19	4.47	10	0.01	1	<10	1.5	489	1	0.46	14	2.15	12	13	8	151	0.13	126	10
21	11470	3.77	630	<2	1.52	0.9	12	3.67	10	0.01	0.92	10	1.1	201	1	0.43	5	1.04	8	9	10	109	0.15	103	10
21	11471	2.58	870	5	0.03	20.3	3	8.08	10	0.01	0.31	10	0.13	1420	<1	0.02	<1	1.21	8	2	35	2	0.01	14	<10
21	11472	0.7	1260	<2	0.11	37.6	7	1.88	<10	0.01	0.12	30	0.08	3400	2	0.04	3	0.03	<2	2	32	6	0.01	10	<10
22	11553	0.43	550	<2	0.02	<0.5	<1	1.15	<10	0.06	0.15	10	0.01	24	4	0.06	1	0.1	<2	1	8	3	<0.01	2	10
22	11554	0.73	1690	<2	0.02	<0.5	<1	1.11	<10	0.03	0.12	10	0.02	25	4	-0.01	<1	0.14	<2	1	9	4	<0.01	3	10
22	11555	1.96	810	2	0.17	<0.5	11	3.31	<10	0.01	0.36	10	1.09	410	1	0.02	20	2.09	13	1	9	12	<0.01	15	10
23	11573	0.34	1230	102	0.02	6.4	4	3.31	<10	<0.01	0.22	10	0.06	1085	175	0.02	1	0.93	<2	1	15	2	0.07	5	10
23	11574	2.36	770	16	0.2	3.5	15	7.83	10	<0.01	0.22	<10	1.11	3350	29	0.04	17	3.83	<2	5	11	6	0.1	71	<10
23	11575	1.98	960	194	0.12	3.0	16	10.25	10	<0.01	0.23	<10	0.86	2910	42	0.02	18	6.65	<2	3	13	4	0.06	41	10
23	11576	0.28	1590	229	0.01	<0.5	1	4.43	<10	0.01	0.22	10	0.01	585	79	0.02	<1	0.39	<2	1	17	5	0.05	5	10
23	11577	1.93	690	2	1.09	<0.5	27	6.77	10	<0.01	0.4	<10	0.52	2120	16	0.12	35	4.78	<2	7	8	33	0.17	91	10
24	11511	2.62	200	<2	0.98	<0.5	24	6.21	10	0.01	0.07	<10	1.33	953	<1	0.33	32	4.93	<2	16	8	72	0.26	141	<10
25	11556	0.55	1020	<2	0.17	<0.5	1	1.3	<10	0.01	0.19	<10	0.08	177	2	0.14	1	0.43	<2	2	9	14	0.1	12	10
26	11571	1.7	180	6	0.4	0.5	1405	15.7	10	0.02	0.09	<10	0.8	221	21	0.04	249	10	8	2	7	8	0.02	28	10
26	11572	1.19	50	2	1.47	<0.5	10	2.3	<10	0.01	0.02	<10	0.61	236	2	0.04	20	0.06	3	5	8	83	0.41	92	10
27	11466	1.84	340	10	3.43	3.5	89	11.55	10	0.02	0.03	<10	0.85	562	65	0.08	241	0.08	11	2	7	67	0.07	47	10
27	11467	1.19	70	<2	1.2	0.8	31	4.91	10	0.3	0.05	<10	1.05	207	1	0.09	43	0.53	2	6	8	35	0.28	144	<10
27	11468	1.59	30	<2	1.64	0.5	26	5.53	<10	0.21	0.03	<10	1.24	270	2	0.06	87	0.55	4	6	8	95	0.32	123	10
28	11448	0.16	60	<2	3.44	1.0	93	23.5	<10	0.05	0.01	<10	0.29	6340	5	0.03	2	0.65	22	<1	7	55	0.01	41	20
28	11497	0.21	50	10	5.61	2.5	99	33.4	<10	0.15	0.01	<10	0.4	3840	19	0.04	4	7.12	26	1	7	89	0.01	24	10
28	11498	0.94	40	45	4.47	<0.5	312	19.3	<10	0.02	0.28	<10	1.42	2770	7	0.08	11	7.21	27	4	7	116	0.14	50	20
28	11581	0.17	60	7	6.31	0.8	26	17.5	<10	0.19	0.01	<10	0.65	5250	60	0.02	2	1.32	14	2	7	44	0.01	15	20
28	11582	0.11	70	15	6.45	0.9	26	18.6	<10	0.07	0.01	<10	0.41	5420	16	0.02	1	0.66	9	1	7	56	0.01	8	10
29	11411	3.51	220	20	0.05	<0.5	37	11.7	10	0.02	0.12	<10	2.01	1430	<1	0.01	36	3.74	19	15	8	1	0.1	180	10

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Pd ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
29	11447 Tak II	R	OC	SC	7.5@1	fel volc w/ minor feox	<0.005	<0.001	0.044	0.2	55	9	39	13
29	11450 Tak II	R	OC	SC	166@10	mafic volc w/ py & mag	<0.005	0.007	0.097	6	329	1830	851	84
29	11451 Tak II	R	OC	RC		feox gabbro w/ hem	<0.005	0.012	0.004	0.4	193	26	85	11
29	11492 Tak II	R	OC	SC	9	gs w/ cpy in stringers & patches	0.005	0.019	0.005	3.8	<b>1.04%</b>	9	53	14
29	11493 Tak II	R	OC	SC	10.5@0.5	gs w/ cpy in stringers	<0.005	0.018	0.005	1.8	4340	7	53	17
29	11494 Tak II	R	OC	SC	11@0.5	gs/ w minor cpy	0.005	0.016	0.001	<0.2	1590	6	43	10
29	11495 Tak II	R	OC	S		gs w/ cpy in stringers	<0.005	0.051	0.635	81	<b>4.37%</b>	56	167	9
29	11496 Tak II	R	OC	S		hem stringers in gs w/ cpy & py	<0.005	0.006	0.008	2.5	3330	19	43	6
30	11419 Tazinima	R	FL	G	0.5	fe stained, w/ minor cuox	0.005	0.004	0.048	8	5080	986	<b>1.87%</b>	<2
30	11420 Tazinima	R	FL	G		feox alterd rock w/ sulf	<0.005	0.001	0.136	19.7	3800	4850	<b>4.04%</b>	5
30	11421 Tazinima	R	FL	G	1	feox alterd rock w/ sulf	<0.005	<0.001	0.422	57.6	<b>2.48%</b>	1830	<b>2.41%</b>	2
30	11464 Tazinima	R	OC	S		feox sch w/ seams & pods of py/po± cpy	0.008	0.016	0.198	12.5	7900	106	2920	21
30	11465 Tazinima	R	OC	SC	14.5	feox sch w/ seams & pods of py/po± cpy	<0.005	0.005	0.034	2.6	1550	8	1120	7
30	11509 Tazinima	R	RC	S		feox volc?	<0.005	0.005	0.002	<0.2	37	3	90	<2
31	11568 Little Tazinima	R	OC	C	1.7	feox granite w/ dissemin cpy	<0.005	<0.001	0.109	47.1	<b>1.22%</b>	<b>1.17%</b>	1425	4
32	11402 Keefer	SS					--	--	0.045	<0.2	13	3	72	26
33	11407 Rocky K	SS					--	--	<0.005	<0.2	13	4	63	20
34	11405 Old Man Creek	SS					--	--	1.1	<0.2	12	5	57	14
34	11406 Old Man Creek	PC					--	--	0.017	<0.2	22	5	66	23
35	11403 Sleitat Mtn	R	RC	G	3	fg dk gray andesite w/ dissemin pyrr	--	--	0.057	4.4	30	70	45	928
35	11404 Sleitat Mtn	R	RC	G	3	light dacite porph w/ qtz vn(s)	--	--	0.158	276	627	1245	401	>10000
36	11432 Robin	SS					--	--	<0.005	<0.2	41	12	132	19
37	11431 Shotgun Hills	R	OC	Rep	1	rhyolite porph w/ qtz vn(s)	--	--	1.395	8	231	70	34	2350
38	11410 King Salmon River	SS					--	--	<0.005	0.2	36	11	99	169
39	11408 Tickchik Mtn	R	OC	C	0.5	aplite dike in granite	--	--	0.007	5.8	16	29	18	3490
39	11409 Tickchik Mtn	R	OC	C	1	granite	--	--	<0.005	0.6	3	6	44	297
40	11842 Canyon Creek	SS					<0.005	<0.001	0.003	<0.2	36	7	85	6
40	11843 Canyon Creek	PC				1 pan	<0.005	0.001	0.259	<0.2	39	7	176	<2
41	11811 Millet	R	TP	S		feox gossan in skarn w/ cpy	<0.005	<0.001	0.108	10.9	<b>4.95%</b>	8	891	113
41	11813 Millet	R	TP	C	4	feox, cuox skarn w/ cpy	<0.005	<0.001	0.036	13.5	<b>3.34%</b>	7	627	58
41	11814 Millet	R	TP	C	6	feox, cuox skarn w/ cpy	<0.005	<0.001	0.047	1.1	9860	5	78	13
41	11815 Millet	R	TP	G	2	feox, cuox skarn w/ cpy	<0.005	<0.001	0.089	3.1	4020	4	1280	29
41	11844 Millet	R	OC	C	6	dk skarn w/ dissemin cpy	<0.005	0.001	0.006	1.4	6550	3	79	10
41	11845 Millet	R	TP	Rep		feox cuox skarn	<0.005	<0.001	0.077	14.1	<b>5.86%</b>	5	784	65
41	11846 Millet	R	TP	S		dk gray feox skarn w/ dissemin cpy	<0.005	0.001	0.006	1.8	6340	2	184	19



Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Al ppm	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Fe ppm	Ga ppm	Hg ppm	K ppm	La ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	S pct	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	
29	11447	0.63	540	<2	0.16	<0.5	4	1.79	<10	0.01	0.1	10	0.3	165	<1	0.05	4	0.02	<2	2	9	9	0.06	27	<10
29	11450	3.98	180	8	0.5	8.7	18	9.21	10	0.03	0.09	<10	2.3	1490	<1	0.03	44	1.42	15	13	8	14	0.13	188	<10
29	11451	2.11	130	<2	1.31	<0.5	23	4.84	10	<0.01	0.09	<10	0.93	443	<1	0.18	28	0.05	5	5	8	44	0.21	137	10
29	11492	2.7	20	5	2.25	<0.5	19	5.26	10	0.01	0.06	<10	1.12	327	<1	0.23	41	0.67	<2	6	8	93	0.54	190	10
29	11493	2.1	40	3	1.96	<0.5	20	6	10	0.03	0.06	<10	1.17	313	<1	0.25	44	0.27	<2	6	8	75	0.53	240	10
29	11494	2.34	60	2	2.1	0.5	15	5.13	10	<0.01	0.1	<10	0.96	323	<1	0.25	35	0.01	<2	6	8	58	0.41	211	<10
29	11495	2.05	60	11	3.76	1.7	25	7.24	10	0.24	0.08	<10	1	482	2	0.04	43	3.15	<2	9	9	43	0.41	144	10
29	11496	1.69	110	12	7.54	<0.5	9	4.65	<10	0.05	0.23	<10	0.4	889	<1	0.02	25	0.01	<2	5	8	47	0.14	76	10
30	11419	1.43	70	2	0.07	69.1	12	33.9	10	1	0.05	<10	0.79	380	<1	0.03	36	10	33	4	7	4	0.03	33	<10
30	11420	3.12	40	9	0.87	173.0	24	22.1	10	2	0.02	<10	1.48	646	3	0.15	1	10	26	3	10	18	0.03	31	<10
30	11421	1.92	200	<2	0.08	95.7	54	26	10	1	0.03	<10	1.14	541	<1	0.01	26	10	25	5	8	1	0.02	45	<10
30	11464	3.48	70	<2	0.1	20.8	110	22.7	10	0.02	0.04	<10	2.29	905	14	0.03	12	10	27	17	7	2	0.03	125	<10
30	11465	3.23	180	3	0.22	6.1	35	8.07	10	0.01	0.07	<10	2.57	1140	1	0.05	7	3.46	10	18	7	9	0.06	138	<10
30	11509	3.04	810	<2	1.35	<0.5	14	4.77	10	<0.01	0.79	<10	1.38	783	<1	0.28	5	0.97	<2	9	8	74	0.32	106	10
31	11568	0.29	1940	440	0.17	8.9	1	1.41	<10	0.1	0.05	70	0.02	10250	76	0.03	2	0.4	<2	3	11	7	0.03	11	<10
32	11402	1.68	740	<2	0.34	<0.5	9	2.97	10	0.02	0.07	10	0.58	746	1	0.02	19	0.02	<2	3	9	21	0.09	54	10
33	11407	1.34	830	<2	0.23	<0.5	7	2.44	<10	0.02	0.06	10	0.45	370	1	0.02	17	0.01	<2	3	6	17	0.09	49	<10
34	11405	1.19	760	<2	0.21	<0.5	8	2.93	<10	0.02	0.05	10	0.35	474	1	0.02	17	0.01	<2	3	10	16	0.11	79	10
34	11406	1.75	790	<2	0.83	<0.5	9	5.28	10	0.07	0.29	70	0.58	820	1	0.12	20	0.03	<2	6	21	55	0.49	160	10
35	11403	1.34	800	27	0.09	1.0	2	1.84	<10	0.02	0.87	10	0.39	465	1	0.01	7	0.02	19	2	456	12	0.06	42	230
35	11404	0.29	130	99	-0.01	17.6	<1	18.4	10	0.88	0.17	10	0.01	32	27	-0.01	<1	0.34	728	4	660	14	<0.01	4	<10
36	11432	1.71	1440	<2	0.17	<0.5	17	4.03	<10	0.16	0.07	<10	0.41	895	1	0.01	54	0.02	<2	5	9	16	0.02	52	10
37	11431	0.16	130	21	-0.01	1.0	<1	4.01	<10	0.14	0.05	<10	-0.01	30	113	0.01	<1	0.08	87	<1	21	3	<0.01	2	340
38	11410	1.93	870	<2	0.28	<0.5	15	3.8	10	0.03	0.08	10	0.68	1055	1	0.02	44	0.01	9	4	11	18	0.08	57	10
39	11408	0.18	40	2	0.03	<0.5	<1	0.75	<10	0.13	0.08	<10	0.01	47	1	0.05	<1	0.02	17	1	75	1	<0.01	1	20
39	11409	0.49	220	<2	0.07	<0.5	1	1.33	<10	<0.01	0.31	20	0.11	247	<1	0.04	1	0.02	2	3	14	2	0.09	10	20
40	11842	1.07	600	2	0.83	<0.5	9	10.45	10	0.02	0.05	10	0.37	830	<1	0.03	3	0.09	<2	3	7	54	0.19	298	10
40	11843	0.41	170	3	0.64	<0.5	26	45.1	30	0.03	0.04	10	0.16	2030	1	0.03	7	0.05	<2	3	7	25	0.37	1200	10
41	11811	1.14	90	9	7.17	2.5	87	23.7	<10	0.11	0.02	10	0.7	6310	12	0.02	11	2.63	<2	4	7	67	0.01	32	10
41	11813	0.76	20	<2	6.98	1.2	232	18.9	<10	0.1	0.01	<10	0.99	7330	175	0.03	6	4.73	<2	2	7	71	0.01	49	<10
41	11814	0.26	30	<2	9.67	<0.5	27	16.7	<10	0.02	0.01	<10	0.62	6630	7	0.03	<1	0.7	<2	1	7	60	0.01	15	10
41	11815	0.5	50	5	14.4	3.2	54	12.4	<10	0.11	0.01	<10	0.82	6000	11	0.02	5	0.79	10	1	8	142	0.01	24	<10
41	11844	1.28	90	<2	6.94	<0.5	23	9.28	<10	0.02	0.02	<10	1.62	9820	5	0.02	11	0.62	7	5	7	78	0.04	39	10
41	11845	0.82	50	15	2.52	2.1	121	17.9	<10	0.2	0.01	<10	0.67	6750	11	0.01	30	5.25	17	4	7	19	0.02	34	<10
41	11846	2.61	100	<2	10.95	<0.5	34	5.95	10	0.03	0.03	<10	2.56	2960	1	0.07	61	0.48	9	11	8	267	0.04	67	<10

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Pd ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	
41	11847	Millet	R	TP	Rep	5	skarn w/ tr cpy	<0.005	0.002	0.161	43.8	6330	8	1620	124
41	11848	Millet	R	OC	C	5	feox dk skarn w/ cpy	<0.005	<0.001	0.007	1.3	4700	4	144	14
41	11849	Millet	R	OC	C	5	dk gray feox skarn w/ dissem cpy	<0.005	<0.001	0.018	6.8	<b>1.23%</b>	7	293	61
41	11850	Millet	R	TP	Rep	3	feox skarn w/ tr cpy	<0.005	0.001	0.108	10.1	9660	28	249	251
41	11851	Millet	R	TP	Rep	3	dk gray feox skarn w/ dissem cpy	0.006	<0.001	0.006	1.6	5700	10	202	14
41	11852	Millet	R	RC		3	dk gray feox skarn w/ dissem cpy	<0.005	<0.001	0.195	20.6	7170	50	2630	691
41	11853	Millet	R	TP	Rep	2	dk gray feox skarn w/ dissem cpy	<0.005	<0.001	0.01	2.7	8830	6	370	24
41	11854	Millet	R	TP	Rep	5	feox gossan skarn	<0.005	<0.001	0.049	7.3	2340	15	533	216
42	11855	Anelon	SS					<0.006	<0.001	<0.001	<0.2	7	5	54	4
42	11856	Anelon	PC			1	pan	<0.005	<0.002	0.094	<0.2	4	2	26	2
43	11863	Frying Pan	R	RC	G	10	feox volc w/ tr py	<0.005	0.014	0.266	2	88	15	17	18
43	11864	Frying Pan	R	RC	G	10	feox fel volc w/ dissem py	<0.005	<0.001	0.037	0.6	6	17	14	63
44	11826	308 Zone	R	OC	Rep	2	granite porph	<0.005	<0.001	0.028	0.3	104	2	24	2
45	10785	Pile	R	RC	G		mg hbl gabbro	<0.005	0.001	<0.001	<0.2	212	2	62	4
45	11812	Pile	R	OC	G	1	gb w/ mag	0.005	0.002	0.001	<0.2	210	2	37	3
46	10777	Dutton	R	RC	G		hem alt vn(s) in greenstone	0.005	<0.001	<0.001	<0.2	5	7	46	<2
46	10778	Dutton	R	OC	Rep		fest greenstone	<0.005	<0.001	0.006	<0.2	147	2	57	18
46	10781	Dutton	R	OC	C	3	shear in gs w/ cpy, mo, & gn	0.008	0.017	0.247	28.7	<b>1.88%</b>	22	1080	183
46	10782	Dutton	R	OC	Rep	2	msv cpy, gn, & mo in shear zone	<0.005	0.02	0.184	37.7	<b>2.47%</b>	14	1050	121
46	10783	Dutton	R	OC	C	3	cpy & cuox in feox shear	<0.005	<0.001	0.024	8.7	4990	6	21	35
46	11800	Dutton	R	RC	S	0.5	vn in di w/ dissm mag	<0.005	<0.001	<0.001	<0.2	29	7	25	<2
46	11801	Dutton	R	Rc	Rep	1	mag-hb-qtz rich diorite	0.007	0.002	<0.001	0.8	46	54	138	53
46	11806	Dutton	R	TP	C	2	feox gs w/ cpy	0.01	0.018	0.047	4.5	2170	9	161	252
46	11807	Dutton	R	TP	C	5	feox volc w/ tr cpy & py	0.01	0.004	<0.001	<0.2	50	5	9	2
46	11808	Dutton	R	RB	G		feox gossan in skarn w/ py & cpy	<0.005	0.002	0.007	43.7	61	2470	5050	3060
47	10779	Dunyea	R	RC	G		fest and cust gossan	<0.005	0.007	0.008	0.3	<b>1.55%</b>	43	416	20
47	11804	Dunyea	R	TP	S		feox gs w/ cpy, py ± mo, sph	<0.005	0.012	0.061	5.7	<b>2.42%</b>	5	117	7
48	11802	Dunyea area	R	OC	C	3	gs br w/ tr sulf	0.01	0.023	0.017	0.6	378	4	31	11
48	11803	Dunyea area	R	RC	C	1	skarn	<0.005	0.002	0.004	<0.2	482	2	8290	7
49	10780	Ground Hog	R	OC	C		gs	<0.005	0.002	0.043	4.1	4670	3	62	4
49	11805	Ground Hog	R	OC	C	3	skarn w/ sulf	<0.005	0.001	<0.001	0.4	238	8	31	30
49	11809	Ground Hog	R	TP	Rep	15	feox gossan in skarn w/ py & cpy	<0.005	0.002	0.048	3.3	3450	13	182	42
49	11810	Ground Hog	R	TP	Rep		feox gossan in skarn w/ py & cpy	0.005	0.008	0.083	3.1	5830	12	146	87
50	11825	Durant	R	OC	C	1	feox shear w/ carb.sil & tr sulf	0.007	0.008	0.002	<0.2	105	3	63	16
50	11831	Durant	R	OC	C	1	qtz-calc vein w/ py	<0.005	0.011	0.04	0.5	1220	<2	28	6

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map No	Sample No	Al ppm	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Fe ppm	Ga ppm	Hg ppm	K ppm	La ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	S pct	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm
41	11847	0.9	<10	<2	10.45	4.2	21	13.65	<10	0.51	0.01	<10	1.03	2830	34	0.02	11	1.38	20	4	8	201	<0.01	45	<10
41	11848	0.64	110	2	15.6	<0.5	28	9.85	10	0.04	0.03	10	1.02	7900	3	0.03	6	0.82	7	2	7	148	0.02	24	10
41	11849	0.65	70	<2	8.64	<0.5	164	18.3	<10	0.06	0.03	<10	0.74	5710	8	0.02	9	4.22	15	3	7	101	0.01	26	10
41	11850	0.23	40	<2	2.49	<0.5	41	29.9	<10	0.12	0.01	<10	0.33	3400	10	0.02	1	0.33	29	1	7	27	0.01	16	10
41	11851	0.28	20	<2	12.4	<0.5	42	16.3	<10	0.03	0.01	<10	0.85	5920	6	0.03	3	0.72	12	1	7	112	0.01	11	10
41	11852	0.12	<10	3	0.18	8.2	104	30	<10	0.21	-0.01	<10	0.05	924	22	0.01	3	1.3	36	1	7	3	<0.01	19	<10
41	11853	0.12	10	<2	12.4	0.5	79	16.8	<10	0.03	0.01	<10	0.36	10600	8	0.03	1	1.18	13	<1	6	104	<0.01	9	10
41	11854	0.08	<10	5	0.04	0.7	35	21.6	<10	0.07	-0.01	<10	0.01	487	18	0.01	<1	1.02	18	<1	7	1	<0.01	16	<10
42	11855	0.91	640	<2	0.49	<0.5	3	1.35	<10	0.01	0.03	10	0.5	179	<1	0.04	2	0.02	<2	4	9	31	0.15	26	10
42	11856	0.74	770	<2	0.38	<0.5	4	1.24	<10	0.01	0.07	10	0.28	226	<1	0.07	6	0.03	2	2	8	27	0.11	25	<10
43	11863	0.61	700	3	0.23	<0.5	6	5.04	<10	0.01	0.2	<10	0.41	203	7	0.02	1	0.42	<2	5	8	30	0.03	120	10
43	11864	0.66	1200	<2	0.02	<0.5	<1	0.91	<10	0.03	0.09	20	0.04	103	9	0.03	<1	0.02	<2	2	9	5	<0.01	2	10
44	11826	0.81	690	<2	0.38	<0.5	4	3.06	<10	0.01	0.05	<10	0.57	203	3	0.07	2	0.73	<2	3	8	21	0.09	60	10
45	10785	1.66	920	<2	0.52	<0.5	12	2.91	10	0.04	0.67	10	1.19	602	<1	0.08	5	0.03	<2	5	9	20	0.2	78	<10
45	11812	1.83	300	<2	1.49	<0.5	25	5.87	10	0.01	0.09	<10	1.79	396	<1	0.2	23	0.02	<2	19	8	36	0.25	323	10
46	10777	7	<10	2	4.16	<0.5	80	10.1	10	0.03	0.01	<10	9.08	1110	<1	0.34	173	0.02	<2	3	8	291	0.14	261	<10
46	10778	1.69	220	2	0.32	<0.5	8	6.43	10	0.03	0.07	<10	1.27	559	1	0.12	1	0.99	<2	9	9	12	0.11	115	10
46	10781	2.96	40	18	4.32	23.6	279	19.4	10	<0.1	0.11	<10	1.88	1080	6	0.04	95	7.17	<2	12	7	40	0.25	147	<10
46	10782	3.69	40	25	5.45	23.2	85	9.16	10	<0.1	0.09	<10	2.68	1440	3	0.04	48	2.77	<2	13	8	44	0.3	180	<10
46	10783	0.28	20	7	4.44	<0.5	28	7.14	<10	0.16	<0.01	<10	0.09	3610	<1	0.01	<1	0.87	<2	1	7	10	0.03	9	20
46	11800	1	1830	<2	0.44	<0.5	2	1.09	<10	<0.01	0.21	10	0.28	255	<1	0.11	1	0.01	<2	2	9	27	0.06	20	<10
46	11801	7.47	60	<2	4.98	<0.5	12	5.16	10	0.06	0.02	<10	0.65	2940	<1	0.5	17	0.01	<2	6	8	368	0.11	222	<10
46	11806	3.31	40	15	0.71	1.2	82	16.7	10	0.02	0.07	<10	2.27	1140	5	0.02	23	0.26	<2	13	7	11	0.34	185	10
46	11807	0.58	1710	2	0.74	<0.5	2	4.62	<10	<0.01	0.13	<10	0.31	184	3	0.02	4	0.29	<2	3	8	14	0.56	65	10
46	11808	0.18	630	12	0.69	10.2	1	39.2	<10	1.83	0.18	<10	-0.01	50000	25	0.06	9	0.01	71	4	7	664	<0.01	69	<10
47	10779	0.76	50	8	0.06	<0.5	32	50	10	0.27	0.02	<10	0.13	759	29	0.02	5	0.11	<2	2	7	5	0.02	62	10
47	11804	1.74	330	<2	0.85	0.9	59	5.36	<10	0.04	0.09	<10	1.16	509	237	0.03	24	2.35	<2	7	8	14	<0.01	56	10
48	11802	1.51	90	<2	0.72	<0.5	5	6.55	<10	0.03	0.07	<10	0.99	295	16	0.03	19	0.42	<2	6	8	56	0.62	135	10
48	11803	0.98	40	<2	6.73	62.2	36	1.84	<10	0.97	-0.01	<10	0.21	1320	3	0.03	3	0.82	<2	4	7	73	0.11	38	<10
49	10780	1.4	700	2	0.22	<0.5	18	3.8	<10	0.05	0.18	10	0.96	294	154	0.03	11	0.19	<2	4	9	6	<0.01	28	20
49	11805	0.19	10	4	17	<0.5	8	18.5	10	0.01	-0.01	<10	0.07	4550	1	0.02	5	<0.01	<2	<1	7	21	<0.01	6	100
49	11809	1.21	40	5	11	1.2	12	20.1	20	0.11	0.05	<10	0.73	4300	10	0.02	8	0.43	5	3	9	72	0.06	100	350
49	11810	2.22	110	<2	7.51	<0.5	20	22.7	10	0.21	0.08	<10	1.23	4890	119	0.02	15	0.11	13	9	9	29	0.09	140	280
50	11825	0.74	20	<2	12.4	<0.5	27	4.54	<10	0.5	0.07	<10	4.7	1830	<1	0.02	76	0.08	3	15	8	57	<0.01	78	10
50	11831	1.01	10	<2	1.9	<0.5	35	2.56	<10	0.06	0.02	<10	0.61	345	<1	0.02	33	0.92	<2	4	7	18	0.22	54	10

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map No	Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	
51	11823	Durant area	SS					0.006	0.01	0.082	<0.2	158	2	41	9
51	11824	Durant area	SS					0.01	0.017	0.001	<0.2	84	4	40	5
52	11832	Easy	R	OC	Rep	3	fg gs w/ qtz vn(s)	0.006	0.021	0.002	<0.2	130	<2	37	3
52	11833	Easy	R	FL	S	0.5	msv clot of py in gs	<0.005	0.009	0.097	4	1450	2	29	129
53	10784	Meadow area	SS					0.01	0.008	0.009	<0.2	39	2	54	11
54	11835	Meadow	R	OC		2	fg gs w/ disseminated py	<0.005	0.001	<0.001	0.2	73	9	58	5
54	11839	Meadow	R	OC	Rep	2	feox gs	<0.005	0.003	<0.001	<0.2	75	6	42	5
55	11840	Karen	R	OC	Rep	5	milky white qtz	<0.005	<0.001	0.002	<0.2	20	<2	<2	13
55	11841	Karen	R	OC	Rep	5	gdi	<0.005	<0.001	<0.001	<0.2	42	<2	38	6
56	11836	N. Copper Lake	R	OC	Rep	50	feox volc w/ disseminated py	<0.005	0.001	0.002	0.4	36	40	66	20
56	11837	N. Copper Lake	R	OC	C	5	alt gdi w/ py & tr cpy	<0.005	0.001	0.01	<0.2	57	5	31	13
56	11838	N. Copper Lake	R	OC	C	10	feox sheared gdi w/ disseminated py & tr cpy	<0.005	0.001	0.008	<0.2	4	3	12	9
57	11834	N. Copper Lake area	R	OC	Rep	6	feox alt volc/ w tr py	<0.005	<0.001	0.002	<0.2	35	14	114	8
58	11861	Copper River	R	OC	C	3	feox bleached volc w/ disseminated sulf	<0.005	0.004	0.002	<0.2	34	2	4	15
59	11816	Fog Lake	R	OC	G	2	alt fel volc w/ disseminated py	<0.005	<0.001	0.063	0.4	205	3	10	4
59	11827	Fog Lake	R	OC	C	5	feox volc w/ qtz & sulf	<0.005	<0.001	0.381	0.5	350	3	24	11
59	11828	Fog Lake	R	OC	S	0.5	qtz vein in volc w/ cpy & py	<0.005	<0.001	1.45	2	778	5	9	25
59	11829	Fog Lake	R	OC	C	2	alt volc w/ qtz vn & sulf	<0.005	<0.001	0.026	0.2	67	3	13	4
59	11830	Fog Lake	R	OC	SC	30	alt feox volc w/ py & tr cpy	<0.005	<0.001	0.025	0.2	33	7	16	7
60	11822	Sister	R	OC	Rep	20	gdi	<0.005	<0.001	<0.001	<0.2	13	<2	54	3
60	11859	Sister	R	OC	C	2	feox bleached volc w/ disseminated py	<0.005	0.005	<0.001	<0.2	46	4	26	293
60	11860	Sister	R	OC	G	2	feox bleached volc w/ disseminated sulf	<0.005	0.004	0.002	<0.2	17	2	3	4
61	11817	Dream Creek	R	OC	Rep		gdi	<0.005	<0.001	<0.001	<0.2	120	4	50	<2
62	11818	Lower Dream Creek	R	OC	C	1	fel volc w/ py	0.005	<0.001	0.004	<0.2	12	23	48	8
62	11819	Lower Dream Creek	R	OC	Rep	2	fel volc w/ py	0.005	0.002	0.055	<0.2	105	4	32	4
63	11858	Gibraltar Lake	R	OC	C	2	feox bleached volc w/ disseminated py	<0.005	<0.001	0.002	0.2	46	8	41	13
64	11820	Golden Fleece	R	RC	Rep	6	fel volc	<0.005	0.001	<0.001	<0.2	28	2	2	27
65	11862	Peter's Plug	R	OC	G		fg basalt	<0.005	<0.001	<0.001	<0.2	41	2	52	14
66	11857	Aukney	R	OC	Rep	5	feox volc w/ fg disseminated py	<0.005	<0.001	0.006	0.2	92	11	50	345
67	11821	KUY	R	RC	C	2	fel volc w/ py	<0.005	<0.001	0.001	<0.2	43	38	53	3
68	11865	Mirror Lake	R	RC	Rep	5	feox fel volc w/ fg disseminated sulf	<0.005	<0.001	0.001	<0.2	15	6	85	28
68	11866	Mirror Lake	R	OC		5	dk volc w/ fg disseminated cpy	<0.005	<0.001	0.001	<0.2	53	3	23	13
68	11867	Mirror Lake	R	OC	C	3	feox volc w/ disseminated cpy	<0.005	0.001	0.007	<0.2	33	7	94	6
69	11874	Hard Core Work	R	RC	Rep	10	feox dac w/ disseminated fg py & cpy	<0.005	<0.001	0.025	1.6	125	5	2	6
70	11868	Mirror Lake outlet	R	OC	C	5	feox volc w/ disseminated sulf	<0.005	<0.001	0.003	0.2	9	8	44	3

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map No	Sample No	Al ppm	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Fe ppm	Ga ppm	Hg ppm	K ppm	La ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	S pct	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm
51	11823	1.6	170	<2	0.51	<0.5	18	3.53	<10	0.04	0.04	<10	1.07	414	<2	0.04	48	0.03	2	4	8	12	0.17	117	10
51	11824	1.58	190	<2	0.48	<0.5	14	3.41	<10	0.02	0.02	<10	1.01	342	<1	0.04	43	0.02	<2	3	8	20	0.15	110	10
52	11832	1.58	<10	<2	1.15	<0.5	18	2.61	<10	0.01	0.02	<10	1.22	353	<1	0.05	37	0.16	<2	5	8	7	0.18	67	10
52	11833	0.58	10	3	0.16	<0.5	25	17.6	<10	0.04	0.01	<10	0.42	177	65	0.02	70	10	13	3	7	2	0.03	57	10
53	10784	1.56	360	<2	0.56	<0.5	11	4.09	<10	0.03	0.03	<10	0.49	--	<1	0.05	15	0.03	--	2	7	27	0.18	143	10
54	11835	1.42	430	<2	0.99	<0.5	18	4.56	<10	0.02	0.07	<10	0.27	161	<1	0.21	20	1.7	2	2	8	50	0.11	47	10
54	11839	1.8	420	<2	1.2	<0.5	22	5.15	10	0.01	0.09	<10	0.4	202	<1	0.27	29	2.48	3	3	7	61	0.12	47	10
55	11840	0.1	10	<2	0.04	<0.5	<1	0.28	<10	<0.01	0.01	<10	-0.01	23	32	0.04	2	0.03	<2	<1	9	4	<0.01	1	<10
55	11841	1.69	300	<2	0.86	<0.5	9	3.14	10	<0.01	0.33	<10	0.79	282	<1	0.2	4	0.01	<2	4	8	44	0.13	116	10
56	11836	1.34	670	<2	0.11	<0.5	9	5.19	<10	0.02	0.26	<10	0.94	782	1	0.05	5	2.41	5	3	8	6	0.02	39	10
56	11837	1.43	440	<2	0.59	<0.5	10	4.07	<10	0.01	0.17	<10	0.92	362	<1	0.06	9	0.8	2	6	9	24	0.01	65	<10
56	11838	0.98	650	<2	0.06	<0.5	3	2.37	<10	0.01	0.11	<10	0.51	157	<1	0.04	2	0.58	<2	2	9	12	<0.01	24	10
57	11834	3.75	330	3	1.53	<0.5	20	7.04	10	0.01	0.14	<10	2.15	1010	<1	0.15	6	6.69	11	9	8	71	0.17	139	10
58	11861	0.3	800	<2	0.04	<0.5	20	4.98	<10	0.01	0.06	<10	0.01	18	<1	0.05	24	5.18	<2	1	8	31	<0.01	7	<10
59	11816	0.62	1080	<2	0.25	<0.5	9	5.02	<10	0.02	0.17	<10	0.35	150	3	0.02	5	4.81	<2	<1	9	6	<0.01	5	10
59	11827	1.55	430	<2	0.23	<0.5	10	8.38	<10	0.02	0.12	<10	1.07	222	1	0.03	10	5.09	7	4	8	10	<0.01	44	10
59	11828	0.41	230	9	0.04	<0.5	14	28	<10	0.05	0.09	<10	0.22	50	3	0.02	7	10	24	1	7	4	<0.01	9	10
59	11829	1.66	500	<2	0.12	<0.5	8	5.25	10	0.01	0.1	<10	1.12	127	19	0.03	7	1.7	3	1	9	8	<0.01	27	10
59	11830	0.81	320	<2	0.03	<0.5	4	3.44	<10	0.01	0.11	<10	0.56	85	2	0.04	6	1.23	<2	1	9	6	<0.01	14	<10
60	11822	1.85	310	<2	0.62	<0.5	13	3.68	10	0.01	0.05	<10	1.38	456	<1	0.07	4	<0.01	3	3	9	29	0.13	79	10
60	11859	2.48	60	4	0.15	<0.5	7	5.68	10	<0.01	0.04	<10	1.59	364	<1	0.05	5	1.15	12	10	9	8	<0.01	113	10
60	11860	0.32	800	<2	0.05	<0.5	9	3.94	<10	0.01	0.05	<10	0.01	18	<1	0.06	15	3.66	<2	1	8	45	<0.01	8	10
61	11817	1.33	270	<2	1.02	<0.5	7	3.04	<10	0.01	0.04	<10	0.5	393	<1	0.17	1	0.02	<2	2	8	64	0.09	64	10
62	11818	2.27	550	<2	0.08	<0.5	2	3.87	10	<0.01	0.1	<10	1.9	748	5	0.06	4	0.45	3	6	9	353	<0.01	90	10
62	11819	3.59	550	3	0.21	<0.5	19	5.87	10	0.01	0.09	<10	3.55	495	<1	0.07	45	2.74	9	9	9	24	0.01	116	<10
63	11858	3.28	550	2	0.76	<0.5	6	5.2	10	0.01	0.1	<10	1.46	384	<1	0.12	6	1.49	6	5	8	132	0.12	67	<10
64	11820	0.3	760	<2	0.01	<0.5	<1	4.94	<10	0.01	0.02	<10	0.01	16	<1	0.01	<1	0.08	<2	1	8	24	<0.01	15	10
65	11862	1.36	530	<2	1	<0.5	11	3.92	<10	<0.01	0.05	10	0.13	377	<1	0.23	6	0.01	<2	3	8	80	0.57	214	10
66	11857	0.81	880	<2	0.42	<0.5	4	4.06	<10	0.41	0.1	<10	0.23	396	3	0.04	1	3.61	<2	2	8	10	0.08	6	10
67	11821	1.37	870	<2	0.14	<0.5	6	4.83	10	0.01	0.11	<10	1.07	421	1	0.07	7	1.35	2	5	8	23	0.02	55	<10
68	11865	4.62	340	<2	1.66	<0.5	12	5.06	10	0.03	0.06	<10	1.36	509	1	0.29	5	2.72	12	6	8	186	0.14	88	10
68	11866	3.31	1740	2	0.52	<0.5	9	9.14	10	<0.01	0.24	10	0.36	554	2	0.07	32	0.77	12	9	9	85	0.27	150	10
68	11867	3.13	1080	2	0.38	<0.5	11	7.18	10	<0.01	0.24	<10	1.22	1030	<1	0.08	28	2.14	9	5	8	91	0.01	65	10
69	11874	0.22	440	3	-0.01	<0.5	4	2.41	<10	0.02	0.2	<10	-0.01	13	1	0.02	4	1.28	<2	1	9	7	<0.01	5	10
70	11868	2.07	600	<2	0.42	<0.5	8	3.95	10	0.01	0.19	<10	1.2	451	<1	0.06	4	2.44	2	4	8	39	0.05	53	<10

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
70	11869 Mirror Lake outlet	R	OC	C	4	feox volc w/ dissem sulf	<0.005	0.003	<0.2	15	10	28	3
71	11875 Iron Spring	R	RC	Rep	5	feox dac w/ dissem fg sulf	<0.005	0.034	1.2	73	12	54	16
72	10789 Pfaff	R	OC	C	5	qtz veins w/ py, cpy, & bn in shear in gs	<0.005	1.02	53.5	5660	630	1580	125
72	10790 Pfaff	R	OC	C	8		<0.005	0.001	0.775	34.2	6480	254	84
72	10791 Pfaff	R	OC	G		vesicular andesite w/ rare sulf	<0.005	0.001	0.088	1.5	205	17	100
72	10792 Pfaff	R	OC	C	2	qtz veins w/sulf & cust in shear in gs	<0.005	0.006	0.894	103	<b>3.04%</b>	657	800
72	11597 Pfaff	R	TP	C	4.4	qtz vn in volc/ w bn, cpy, cuox	<0.005	0.001	2.28	54.8	6470	274	395
72	11598 Pfaff	R	TP	C	2.2	qtz vein in volc w/ bn & cuox	<0.005	0.001	1.385	86	<b>1.28%</b>	381	513
72	11599 Pfaff	R	TP	SC	11	calcite shear w/ qtz vn(s) & cuox	<0.005	0.003	1.055	75.2	<b>1.72%</b>	125	790
72	11870 Pfaff	R	OC	C	0.7	vuggy qtz vn w/ sulf	<0.005	<0.001	0.321	12.5	319	378	271
72	11871 Pfaff	R	RC	S	1	vuggy qtz vn in volc w/ clots of bn	<0.005	0.003	24.6	107	<b>1.42%</b>	669	456
72	11872 Pfaff	R	RC	S	0.5	vuggy qtz vn in volc w/ clots of bn	<0.005	0.001	1.745	226	<b>1.86%</b>	109	197
72	11873 Pfaff	R	RC	S	0.5	vuggy qtz vn in volc w/ clots of bn	<0.005	<0.001	5.67	317	<b>1.67%</b>	153	192
72	11910 Pfaff	R	TP	S	0.5	qtz vn w/ cuox & bn	<0.005	0.002	0.924	175	<b>2.45%</b>	2290	4230
72	11911 Pfaff	R	TP	S	1	cuox volc	<0.005	0.001	<0.001	0.6	75	17	40
72	11912 Pfaff	R	TP	S	1	feox, cuox qtz vn/ w sulf	0.007	<0.001	24.0	898	<b>8.56%</b>	1555	630
72	11913 Pfaff	R	TP	C	20	qtz vn w/ cu sulf	0.01	0.003	15.4	316	<b>7.04%</b>	504	1375
73	11914 Battle Lake	R	OC	G		feox volc w/ tr py	<0.005	0.001	0.154	19.8	1960	49	42
74	11400 Muklung	SS					--	--	0.013	<0.2	62	4	93
75	11503 Marsh Mtn	R	MD	G		gw w/ carb ± cin	--	--	0.011	0.2	13	9	125
76	11501 Heigemeister Strait	PC				2 pans	--	--	0.005	<0.2	47	2	77
77	11502 Slug River	PC				1 pan	--	--	0.006	<0.2	29	2	78
78	11884 KAMI	SS	RC	G, S	0.17		<0.005	0.001	0.078	2.1	562	8	32
79	11885 Cottonwood Creek	SS					<0.005	0.004	0.016	<0.2	16	2	39
79	11886 Cottonwood Creek	PC				1 pan	<0.005	0.002	0.138	<0.2	167	<2	41
80	10793 Kulik Copper	R	FL	G		dark volc w/py clots	<0.005	0.007	0.101	1.2	133	10	45
80	10794 Kulik Copper	R	TP	S	15	fg volc w. py & cuox	<0.005	0.001	0.009	2	<b>1.91%</b>	17	110
80	10795 Kulik Copper	R	OC	G		feox volc br	<0.005	0.001	0.018	0.6	575	6	54
80	11601 Kulik Copper	R	TP	G		skarn w/ msv hem, py ± cpy	<0.005	0.003	0.051	1.7	1150	16	135
80	11602 Kulik Copper	R	OC	S		skarn w/ hem, py & cpy	<0.005	0.005	0.015	0.8	378	67	290
81	11600 Kulik Copper area	R	RB	G		int w/ dissem & seams of po/py ± cpy	<0.005	0.002	0.02	1.3	241	13	39
81	11603 Kulik Copper area	R	OC	G		di w/ seams & dissem py	<0.005	0.001	0.007	0.2	205	5	29
82	10796 B2020-56	R	OC	G		feox volc w/ fg dissem py	<0.005	0.007	0.021	0.5	434	9	27
82	11887 B2020-56	R	OC	S	1	feox qtz vn w/ py	<0.005	0.002	0.416	3.4	114	399	1185
82	11888 B2020-56	R	OC	S	0.5	feox qtz vn in gdi w/ py	<0.005	0.002	0.02	0.2	19	8	10

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map No	Sample No	Al ppm	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Fe ppm	Ga ppm	Hg ppm	K ppm	La ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	S pct	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm
70	11869	1.29	420	2	0.03	<0.5	5	3.22	<10	<0.01	0.09	<10	0.87	277	<1	0.05	2	1.87	<2	2	8	7	<0.01	22	<10
71	11875	3.18	490	4	0.29	<0.5	11	5.9	10	0.01	0.1	<10	2.35	638	1	0.06	13	1.79	11	5	8	22	0.05	96	<10
72	10789	1.12	170	78	0.22	3.9	8	2.64	<10	0.01	0.07	<10	0.36	1470	<1	0.02	5	0.03	42	4	10	18	0.02	127	<10
72	10790	1.24	150	26	0.51	1.7	7	2.36	<10	<0.01	0.05	<10	0.52	1160	<1	0.01	5	0.04	18	5	10	40	0.03	76	<10
72	10791	4.06	170	2	3.6	<0.5	21	5.38	10	0.03	0.06	<10	1.93	1040	<1	0.16	18	0.31	3	22	8	77	0.41	193	10
72	10792	0.68	190	9	0.23	2.1	5	4.46	10	0.1	0.04	<10	0.21	718	4	0.01	3	0.02	76	3	12	20	0.01	130	<10
72	11597	0.85	100	75	0.29	0.6	5	2.1	<10	0.03	0.03	<10	0.32	996	<1	0.02	1	0.07	2	3	10	19	0.02	59	10
72	11598	1.54	80	7	0.98	1.5	6	2.26	<10	0.1	0.03	<10	0.43	1115	<1	0.01	3	0.03	<2	6	11	74	0.03	91	<10
72	11599	2.88	720	<2	0.38	0.9	24	5.44	10	<0.1	0.14	<10	1.53	4160	<1	0.01	9	0.03	2	9	10	38	0.03	96	<10
72	11870	0.7	70	4	0.15	0.6	5	1.23	<10	<0.01	0.01	<10	0.37	664	<1	0.01	4	<0.01	<2	2	9	27	0.02	44	<10
72	11871	0.86	190	619	0.07	1.2	10	2.88	<10	0.2	0.04	<10	0.38	1070	<1	0.01	3	0.01	5	2	12	4	0.01	79	<10
72	11872	0.37	20	108	0.04	0.9	6	2.13	<10	0.1	0.01	<10	0.13	551	<1	0.01	1	0.04	13	1	16	3	<0.01	32	10
72	11873	0.08	10	249	0.02	2.0	<1	1.4	<10	0.3	-0.01	<10	0.01	32	1	-0.01	1	<0.01	513	1	23	2	<0.01	13	40
72	11910	2.13	660	2	0.91	11.8	16	5.35	10	0.1	0.07	<10	0.93	2500	<1	0.05	4	0.01	9	10	13	52	0.11	126	<10
72	11911	1.27	550	<2	0.38	<0.5	4	1.99	<10	<0.01	0.37	10	0.26	406	<1	0.06	2	0.01	<2	5	8	22	0.16	37	<10
72	11912	1.24	110	613	0.21	2.3	13	7.85	10	0.1	0.04	<10	0.29	1575	2	0.01	2	0.36	595	3	27	25	0.01	84	<10
72	11913	1.51	30	195	0.06	4.0	24	4.8	10	0.1	0.06	<10	0.39	3330	2	0.01	3	0.26	94	2	16	3	<0.01	73	<10
73	11914	1.41	230	13	0.03	<0.5	<1	3.97	10	0.01	0.22	10	0.77	379	<1	0.16	<1	0.8	15	5	10	32	0.03	45	10
74	11400	2.99	710	<2	0.44	<0.5	19	4.84	10	0.03	0.57	10	0.71	1465	2	0.03	18	0.03	<2	8	5	41	0.24	130	10
75	11503	0.21	110	<2	20.4	<0.5	5	3.53	<10	100	0.02	<10	5.3	1185	<1	0.02	16	<0.01	3	5	<5	604	<0.01	79	20
76	11501	2.53	470	<2	1.33	<0.5	18	6.03	10	0.08	0.16	10	1.44	1270	1	0.08	48	0.04	3	10	<5	55	0.37	209	10
77	11502	2.54	400	<2	1.3	<0.5	14	4.39	10	0.03	0.12	10	1	919	<1	0.06	30	0.03	<2	9	5	63	0.35	129	10
78	11884	0.93	430	<2	0.32	<0.5	14	13.7	10	0.02	0.29	<10	0.4	250	2	0.13	26	0.05	<2	3	8	24	0.13	192	10
79	11885	1.23	640	<2	0.74	<0.5	8	3.21	<10	0.02	0.03	<10	0.59	405	<1	0.02	10	<0.01	<2	7	6	38	0.19	118	10
79	11886	0.73	410	<2	0.4	<0.5	19	18.9	10	0.04	0.09	<10	0.39	440	2	0.04	39	0.05	<2	3	7	20	0.15	683	10
80	10793	0.87	10	3	1.25	<0.5	3	11.05	<10	<0.01	0.01	<10	0.27	338	<1	0.02	18	0.32	2	4	7	68	0.21	101	10
80	10794	1.69	490	<2	1.83	<0.5	125	4.47	<10	<0.01	0.1	20	0.72	1110	<1	0.15	16	0.44	2	23	8	48	0.09	158	<10
80	10795	2.56	610	3	0.17	<0.5	12	6.45	10	0.01	0.21	<10	1.35	733	4	0.05	7	0.2	<2	12	9	13	0.03	118	20
80	11601	1.13	190	5	3.45	<0.5	10	10.5	<10	0.02	0.05	10	0.62	2310	4	0.03	16	0.17	<2	7	8	28	0.06	48	200
80	11602	1.17	50	<2	4.21	1.3	19	5.16	<10	0.01	0.02	10	0.36	2000	2	0.04	41	1.01	3	6	8	63	0.1	49	10
81	11600	1.82	310	<2	1.24	<0.5	12	3.01	10	<0.01	0.06	<10	0.74	312	1	0.28	8	0.72	<2	5	8	50	0.13	72	10
81	11603	1.14	740	<2	0.84	<0.5	12	4.09	<10	<0.01	0.05	<10	0.64	435	1	0.2	4	0.53	<2	7	8	35	0.21	163	10
82	10796	1.79	320	5	0.17	<0.5	5	5.95	10	0.01	0.36	<10	0.96	246	3	0.07	2	0.44	<2	9	9	9	0.01	98	10
82	11887	1.01	300	2	7.31	4.4	10	7	<10	0.23	0.28	<10	1.67	21200	1	0.02	4	2.16	5	12	8	48	<0.01	70	10
82	11888	0.68	900	3	0.03	<0.5	<1	2.27	<10	0.01	0.41	<10	0.05	101	5	0.02	<1	0.35	2	1	11	2	<0.01	7	20

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
83	10797 American Creek	PC				abundant black sand	--	26.3	0.3	18	<2	228	7
83	10798 American Creek	PC				5 fine flakes	<0.005	0.002	10	0.8	16	<2	157
83	11500 American Creek	PC				1 pan	--	0.034	0.2	16	21	162	29
83	11607 American Creek	R	OC	Rep	0.16	intermed volc w/ qtz vn & py	<0.005	0.001	0.005	2.2	169	257	268
83	11608 American Creek	R	OC	G		fg volc w/ dissem & seams of py	<0.005	<0.001	0.006	1.9	192	600	407
83	11609 American Creek	PC				1 pan	<0.005	0.001	0.062	<0.2	12	<2	117
83	11881 American Creek	SS					<0.005	<0.001	0.002	<0.2	15	2	45
83	11883 American Creek	PC				1 pan	<0.005	0.003	1.17	<0.2	17	<2	149
84	11604 Big River	R	OC	C	0.42	alt gdi w/ qtz vn & py	<0.005	0.001	0.032	10.6	504	84	87
84	11605 Big River	R	OC	S		msv gn, cpy, py in alt vein in gdi	0.006	0.001	0.084	368	<b>5.18%</b>	<b>12.55%</b>	<b>9.91%</b>
84	11915 Big River	R	OC	SC	6	sulf rich vn	<0.005	0.001	0.08	3.2	937	12	34
84	11916 Big River	R	OC	C	4	sulf rich vn	0.008	<0.001	9.07	26.8	1360	4250	8980
85	11606 Gorge Creek	PC				1 pan	--	--	<0.2	19	<2	143	<2
85	11889 Gorge Creek	SS					<0.005	0.002	0.002	<0.2	15	2	36
85	11890 Gorge Creek	PC				1 pan, 3 vf gold	<0.005	0.004	0.091	<0.2	16	2	69
86	11896 B2020-103	R	OC	S	0.25	feox qtz vn w/ py	<0.005	0.002	0.006	<0.2	51	4	15
86	11897 B2020-103	R	OC	C	1	feox qtz vn w/ py	<0.005	0.004	0.009	<0.2	74	4	24
86	11898 B2020-103	R	FL	G		cuox alt sed w/ tr cpy	<0.005	0.002	0.006	4.8	7120	51	308
86	11899 B2020-103	R	FL	S		cuox alt sed w/ cpy	<0.005	0.001	0.017	57.6	<b>3.90%</b>	47	1790
87	11610 Ikagluik River	R	RC	S		alt volc w/ qtz vn, gn, & py	<0.005	<0.001	0.602	11.1	119	<b>1.09%</b>	686
87	11611 Ikagluik River	R	OC	SC	12	sil alt volc w/ py ± cpy	<0.005	0.002	0.009	0.5	33	115	38
87	11612 Ikagluik River	R	OC	C	7.4	fg sed in shear w/ cuox	<0.005	0.002	0.002	0.2	2520	85	769
87	11613 Ikagluik River	R	OC	Rep	4.5	shear in sed w/ fg py	<0.005	0.002	0.385	20.5	2910	147	236
88	11891 B2020-87	R	OC	Rep, G	3	fg di w/ py & cpy	<0.005	0.001	0.027	<0.2	320	9	17
88	11892 B2020-87	R	OC	C	1	feox di w/ qtz, py & cpy vn	<0.005	0.006	0.203	1.3	3940	7	19
88	11893 B2020-87	R	OC	C	5	feox di w/ qtz, py & cpy vn	<0.005	0.001	0.043	<0.2	97	8	18
88	11894 B2020-87	R	OC	S	0.5	di w/ py & cpy	<0.005	0.011	0.26	1.9	9680	6	29
88	11895 B2020-87	R	RC	S		feox di w/ qtz, py, cpy & mo vn	<0.005	0.003	0.67	32.5	1830	34	5640
88	11917 B2020-87	R	OC	SC	4	di w/ qtz vn(s) & dissem py + cpy	<0.005	<0.001	0.081	0.8	971	10	27
88	11918 B2020-87	R	OC	C	2	di w/ qtz vn(s) & dissem py + cpy	<0.005	0.002	0.2	1.2	1230	81	173
88	11919 B2020-87	R	OC	RC	5	di w/ qtz vn(s) & dissem py + cpy	<0.005	0.01	0.015	0.4	241	5	14
88	11920 B2020-87	R	OC	S	3	di w/ qtz vn(s) & dissem py + cpy	<0.005	0.001	0.036	0.4	967	8	23
89	11878 Kabugakli Lode	R	OC	C	3	fel dike w/ dissem sulf	<0.005	0.001	0.032	<0.2	5	7	25
89	11902 Kabugakli Lode	R	OC	C	3	felsic dike w/ qtz vn(s)	0.005	0.001	0.001	0.2	121	7	51
89	11903 Kabugakli Lode	R	OC	C	5	shear in sed w/ py	<0.005	<0.001	0.009	0.5	292	7	58



Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Al ppm	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Fe ppm	Ga ppm	Hg ppm	K ppm	La ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	S pct	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	
83	10797	0.53	10	<2	0.51	<0.5	34	44.9	20	0.03	0.02	10	0.22	1440	1	0.01	36	0.01	<2	7	12	0.86	1900	10	
83	10798	0.7	100	<2	0.7	<0.5	28	37.1	10	0.02	0.03	10	0.26	1110	<1	0.04	35	<0.01	<2	6	7	22	0.58	1540	10
83	11500	0.75	110	<2	0.72	<0.5	26	36.4	20	0.02	0.04	10	0.29	1155	3	0.06	33	0.02	<2	5	<5	26	0.75	1615	10
83	11607	1.64	1160	<2	12	0.8	4	2.82	10	0.01	0.24	20	0.86	1505	1	0.05	2	0.4	<2	5	8	157	<0.01	27	<10
83	11608	1.92	910	<2	3.12	1.3	4	3.48	10	<0.01	0.19	20	0.76	1270	6	0.06	<1	0.58	2	9	9	39	0.01	34	<10
83	11609	0.83	360	<2	0.56	<0.5	19	16.7	10	0.01	0.04	10	0.31	863	<1	0.04	18	<0.01	<2	5	7	27	0.43	769	10
83	11881	1.28	560	<2	0.6	<0.5	8	3.77	<10	0.01	0.04	<10	0.45	426	<1	0.04	9	0.01	<2	4	8	44	0.13	146	10
83	11883	0.79	180	<2	0.64	<0.5	26	31.7	10	0.01	0.03	10	0.28	1035	<1	0.04	29	0.01	<2	5	6	25	0.51	1310	10
84	11604	2	2500	2	0.85	<0.5	36	5.39	<10	0.01	0.38	<10	0.54	3910	11	0.12	14	4.76	3	3	9	58	0.05	29	20
84	11605	2.13	3250	<2	0.29	405.0	91	10.75	<10	0.1	0.09	<10	0.41	6720	23	0.03	5	10	44	3	10	30	0.04	63	720
84	11915	2.53	90	3	1.66	<0.5	20	2.91	10	<0.01	0.05	<10	0.78	240	<1	0.43	4	2.25	<2	4	9	103	0.1	57	10
84	11916	1.67	250	32	0.95	40.0	23	23.8	<10	<0.01	0.18	<10	0.4	1620	20	0.02	6	10	8	2	8	64	0.06	28	<10
85	11606	1.04	--	<2	0.94	<0.5	25	13.25	10	0.01	0.02	10	0.53	937	<1	0.02	18	0.07	2	12	--	28	0.99	726	--
85	11889	1.1	480	<2	0.66	<0.5	7	2.91	<10	0.01	0.03	<10	0.54	372	<1	0.01	9	<0.01	<2	6	8	33	0.18	108	10
85	11890	1.33	280	<2	1.15	<0.5	14	8.97	10	0.01	0.05	10	0.62	707	<1	0.04	14	<0.01	<2	9	7	44	0.51	416	<10
86	11896	0.67	810	<2	0.09	<0.5	6	2.98	<10	0.01	0.34	<10	0.06	62	3	0.02	3	1.71	3	1	9	6	0.02	8	<10
86	11897	1.95	710	<2	0.67	<0.5	15	7.81	10	0.01	0.17	<10	1.02	124	6	0.1	11	2.86	<2	6	9	44	0.2	77	10
86	11898	3.62	220	14	2.41	2.5	17	4.07	10	0.01	0.04	<10	0.68	871	4	0.14	14	2.55	<2	6	9	219	0.12	60	<10
86	11899	2.36	990	36	2.28	4.1	14	6.32	<10	<0.1	0.11	<10	1.02	2670	5	0.01	17	3.75	<2	5	9	190	0.12	51	<10
87	11610	0.61	450	2	0.23	3.2	1	2.35	<10	0.14	0.28	<10	0.06	118	8	0.01	1	1.36	2	1	9	8	0.01	9	<10
87	11611	1.12	340	<2	0.07	<0.5	3	1.33	<10	<0.01	0.24	<10	0.54	50	1	0.12	2	0.93	<2	2	7	22	0.01	16	10
87	11612	2.43	670	<2	1.67	2.2	20	1.61	10	0.01	0.07	<10	1.46	1025	1	0.12	22	0.22	<2	6	9	101	0.16	68	<10
87	11613	0.92	8490	7	6.57	0.5	34	8.42	<10	0.1	0.2	<10	0.11	4980	4	0.01	7	9.72	14	2	9	38	<0.01	13	<10
88	11891	1.73	400	<2	0.4	<0.5	13	3.41	<10	0.01	0.35	<10	0.96	213	12	0.11	11	2.05	<2	4	9	56	0.01	39	10
88	11892	2.29	540	6	0.48	<0.5	19	4.56	10	0.07	0.7	<10	1.34	240	71	0.1	25	1.55	2	11	9	45	0.09	92	10
88	11893	2.51	420	<2	0.41	<0.5	8	3.7	10	<0.01	0.37	<10	1.54	188	2	0.19	19	0.8	<2	9	9	190	0.07	89	10
88	11894	1.63	80	3	0.13	<0.5	230	33.7	<10	0.07	0.16	<10	0.54	116	2	0.05	329	10	<2	5	6	12	0.03	55	10
88	11895	1.47	710	5	2.42	59.5	7	4.25	<10	2.52	0.43	<10	0.69	209	386	0.05	13	2.01	504	4	10	27	0.01	32	<10
88	11917	2.27	340	<2	0.52	<0.5	10	3.22	10	0.01	0.39	<10	1.18	127	<1	0.17	17	1.45	<2	4	8	69	0.02	53	10
88	11918	3.06	560	<2	0.68	0.6	18	4.3	10	<0.01	0.98	<10	1.88	274	14	0.23	27	1.35	3	14	8	57	0.17	125	10
88	11919	1.91	470	<2	0.28	<0.5	12	3.15	<10	<0.01	0.42	<10	0.98	127	5	0.12	11	1.24	<2	4	8	87	0.02	38	10
88	11920	2.04	570	<2	1.09	<0.5	8	1.61	<10	0.01	0.48	10	1.02	252	10	0.13	15	0.24	<2	5	8	90	0.02	44	10
89	11878	1.08	600	<2	5.52	<0.5	1	1.95	<10	0.01	0.24	<10	0.57	678	<1	0.07	<1	0.09	<2	2	8	97	0.01	17	<10
89	11902	2.02	90	<2	2.55	<0.5	12	3.34	<10	1.13	0.06	<10	0.07	549	<1	0.04	20	0.03	2	15	8	34	<0.01	91	10
89	11903	1.17	580	<2	2.61	<0.5	5	1.92	<10	0.08	0.28	10	0.35	638	1	0.15	3	0.26	<2	3	9	92	<0.01	29	<10

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Location	Type	Site	Method	Size (ft)	Description	Pt ppm	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
89	11904 Kabugakli Lode	R	OC	C		fel dike w/ qtz vns	<0.005	0.111	<0.2	9	9	40	477
89	11905 Kabugakli Lode	R	OC	C	1	feox shear in dike w/ tr py	<0.005	<0.001	<0.2	43	8	101	38
89	11906 Kabugakli Lode	R	OC	C	2	carbon rich zone in shear w/ py	<0.005	0.837	<0.2	21	24	34	3780
89	11908 Kabugakli Lode	R	OC	C	2	arg w/ tr py	<0.005	0.008	<0.2	37	9	102	26
90	11593 Kabugakli Lode Area	R	OC	S		calc alt sed w/ carb vn(s) & sulf	0.009	0.021	0.3	20	76	130	7960
90	11594 Kabugakli Lode Area	R	OC	G		calc & sil alt seds w/ sulf veinlets	<0.005	0.007	<0.2	17	7	34	67
90	11595 Kabugakli Lode Area	R	OC	SC	11	qtz-dio w/ dissemin po/py	<0.005	0.009	<0.2	25	7	70	40
90	11596 Kabugakli Lode Area	R	RC	G		fg siltstone w/ dissemin py/po	<0.005	0.003	<0.2	131	7	36	2
90	11882 Kabugakli Lode Area	R	RC	G	1	feox dio w/ dissemin sulf	<0.005	0.001	0.3	72	16	72	<2
91	10788 Kabugakli Placer	PC				3 pans, 1 cs, 3 f, >20 vf	--	--	1500	167	<2	97	9
91	11900 Kabugakli Placer	SS					<0.005	0.003	2.62	<0.2	161	4	59
91	11901 Kabugakli Placer	PC				2 pans, 6 f, & 30 vf gold	<0.005	<0.001	183.0	6.2	137	5	61
91	11907 Kabugakli Placer	R	RC	C	1	py in arg w/ carb vn & tr py	<0.005	0.003	<0.2	44	19	92	27
91	11909 Kabugakli Placer	PC				3 pans, 6 f gold	--	--	11.6	226	3	68	44
92	11588 Becharof Lake	SS					0.006	0.008	--	<0.2	21	<2	53
92	11879 Becharof Lake	SS					<0.005	<0.001	0.002	<0.2	22	<2	47
92	11880 Becharof Lake	PC				1 pan	0.034	0.021	0.007	<0.2	21	<2	91
93	11589 Kejulik River	PC				2 pans	--	--	0.844	<0.2	9	<2	61
93	11590 Kejulik River	PC				1 pan	--	--	--	<0.2	15	9	61
93	11591 Kejulik River	PC				1 pan	--	--	--	<0.2	13	3	80
93	11592 Kejulik River	PC				2 pans	--	--	--	<0.2	11	2	78
94	10786 Puale Bay Area	R	RC	G		med to thinly bedded ox ss	<0.005	0.003	<0.001	<0.2	25	4	48
94	10787 Puale Bay Area	R	OC	G		med to thinly bedded ox ss	<0.005	0.003	0.005	<0.2	42	6	71
94	11586 Puale Bay Area	R	RC	S		ss w/ carb & barite(?) vn(s)	<0.005	0.002	<0.001	<0.2	48	5	76
94	11587 Puale Bay Area	R	RC	G		concretions in ss w/ sulf	0.007	0.003	0.001	<0.2	44	5	61
94	11876 Puale Bay Area	R	OC	G	3	feox mudstone w/ fg dissemin py	0.006	0.003	0.012	0.5	145	18	85
95	11877 Sulfur Creek	R	OC	G		feox volc w/ carb	<0.005	0.003	0.004	<0.2	62	16	90

Table 2. Analytical results for rock chip, stream sediment, and pan concentrate samples

Map Sample No	Al ppm	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Fe ppm	Ga ppm	Hg ppm	K ppm	La ppm	Mg ppm	Mn ppm	Mo ppm	Na ppm	Ni ppm	S pct	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	
89	11904	1.18	550	<2	2.04	<0.5	3	1.55	<10	0.02	0.28	10	0.21	713	<1	0.11	<1	0.21	<2	2	8	53	<0.01	11	<10
89	11905	1.87	330	<2	7.34	<0.5	13	4.73	<10	0.19	0.09	10	0.48	985	21	0.12	10	0.1	<2	9	8	208	<0.01	96	10
89	11906	1.05	690	<2	11.9	<0.5	4	4.38	<10	0.03	0.16	<10	4.44	1050	3	0.07	4	1.2	21	4	8	588	<0.01	36	10
89	11908	2.6	450	<2	2.98	<0.5	16	4.63	10	0.01	0.07	10	1.46	998	<1	0.13	13	0.17	<2	10	8	115	0.01	120	<10
90	11593	1.33	870	<2	4.74	<0.5	9	3.98	<10	0.03	0.24	<10	1.44	1150	<1	0.09	8	0.78	33	5	8	244	0.01	48	<10
90	11594	1.03	170	<2	12.45	<0.5	5	6.56	<10	0.04	0.07	<10	2.85	1825	<1	0.07	9	0.24	3	5	8	206	0.01	47	10
90	11595	2.52	300	<2	1.62	<0.5	7	3.21	10	0.01	0.11	<10	1.16	718	1	0.33	5	0.37	<2	5	8	129	0.11	71	<10
90	11596	4.49	290	<2	2.39	<0.5	14	4.56	10	0.01	0.5	<10	1.15	512	1	0.69	13	1.66	<2	7	9	200	0.23	130	10
90	11882	2.65	270	<2	1.14	<0.5	4	2.94	10	<0.01	0.08	<10	1.18	442	1	0.4	7	0.56	<2	5	8	120	0.12	65	10
91	10788	0.6	--	<2	0.44	<0.5	39	48	10	1.6	0.05	<10	0.28	820	2	0.02	45	0.37	<2	7	--	14	0.5	1615	--
91	11900	1.76	380	<2	0.36	<0.5	18	4.44	<10	0.02	0.15	<10	0.85	494	3	0.05	17	0.09	<2	6	7	35	0.11	106	10
91	11901	1.59	320	<2	0.56	<0.5	19	12.5	10	0.03	0.15	<10	0.7	551	2	0.1	25	0.11	<2	6	7	44	0.19	352	20
91	11907	2.3	430	<2	2.91	<0.5	16	4.64	10	0.03	0.18	10	1.37	1050	<1	0.1	14	0.18	<2	10	9	117	0.01	115	<10
91	11909	0.81	--	<2	0.46	<0.5	45	36.6	10	0.04	0.07	<10	0.41	671	3	0.03	46	0.99	<2	6	--	16	0.32	1120	--
92	11588	1.87	380	<2	1.06	<0.5	12	4.89	10	0.01	0.04	<10	0.55	451	<1	0.12	16	0.01	2	4	8	87	0.27	249	<10
92	11879	1.9	450	<2	1.1	<0.5	11	3.9	<10	0.01	0.06	<10	0.51	447	<1	0.12	14	<0.01	<2	4	8	96	0.21	189	10
92	11880	1.25	170	<2	0.68	<0.5	32	10.65	10	<0.01	0.03	<10	1.15	813	<1	0.09	39	<0.01	<2	5	7	48	0.61	698	10
93	11589	0.67	170	<2	0.41	<0.5	9	6.54	<10	<0.01	0.04	10	0.22	947	<1	0.03	9	<0.01	2	5	8	49	0.92	255	10
93	11590	0.92	350	<2	0.5	<0.5	9	5.73	<10	<0.01	0.06	10	0.27	1025	<1	0.06	8	<0.01	<2	6	8	68	1.03	190	10
93	11591	0.86	160	<2	0.46	<0.5	14	8.66	10	0.01	0.04	10	0.28	1080	<1	0.04	12	<0.01	<2	7	7	38	1.11	407	10
93	11592	0.79	50	<2	0.48	<0.5	13	9.19	10	<0.01	0.04	10	0.27	1525	<1	0.04	12	<0.01	<2	8	7	43	1.36	388	10
94	10786	3.29	440	<2	1.61	<0.5	8	4.55	10	0.03	0.1	10	0.61	371	2	0.29	9	1.05	2	9	8	298	0.32	91	<10
94	10787	3.13	370	<2	2.18	<0.5	15	5.8	10	0.02	0.09	10	1.29	678	5	0.22	20	1.78	<2	13	8	166	0.41	220	10
94	11586	5.68	280	<2	3.67	<0.5	11	4.15	20	<0.01	0.06	10	0.91	627	<1	0.39	9	0.02	<2	8	8	234	0.33	125	<10
94	11587	3.28	560	<2	1.95	<0.5	8	4.48	10	0.01	0.12	10	0.66	474	<1	0.3	9	2.07	<2	9	9	386	0.36	88	10
94	11876	2.84	550	<2	1.75	<0.5	17	5.07	10	0.02	0.09	10	1.29	571	1	0.23	29	2.26	<2	12	8	97	0.33	128	10
95	11877	6.7	120	<2	7.34	<0.5	14	4.8	20	0.02	0.09	10	1.09	734	8	0.12	18	0.04	<2	19	8	29	0.38	161	10



**TABLE 3**  
**LATITUDE AND LONGITUDE COORDINATES FOR SAMPLES**



Table 3. Latitude and longitude coordinates for 2005-2006 samples. Coordinates are in decimal degrees and use the North American Datum 1927.

Sample No	Latitude	Longitude	Sample No	Latitude	Longitude
11502	58.70962	-161.64127	11594	57.88099	-155.07410
11503	59.27735	-158.53439	11595	57.88260	-155.07360
11504	60.85538	-154.22413	11596	57.88986	-155.09487
11505	60.86425	-154.19644	11597	59.10945	-154.87217
11506	60.36882	-154.43242	11598	59.10902	-154.87524
11507	60.47141	-153.83034	11599	59.10823	-154.88030
11508	60.47157	-153.83096	11600	58.91046	-154.89357
11509	60.06775	-153.95185	11601	58.90894	-154.89892
11510	60.26320	-153.56685	11602	58.90928	-154.89969
11511	60.15659	-153.85446	11603	58.91138	-154.89952
11512	60.28135	-153.55684	11604	58.68306	-153.87259
11513	60.16061	-154.05155	11605	58.68317	-153.87259
11514	60.31285	-153.88760	11606	58.67135	-154.84047
11551	60.84450	-154.18945	11607	58.96149	-155.57651
11552	60.84869	-154.16473	11608	58.96149	-155.57619
11553	60.36757	-154.43099	11609	58.96141	-155.57607
11554	60.36824	-154.43101	11610	58.32162	-155.00046
11555	60.35706	-154.47212	11611	58.32083	-155.00030
11556	60.14480	-153.87615	11612	58.33117	-154.99902
11557	60.29316	-154.24837	11613	58.33203	-154.99502
11558	60.29301	-154.25063	11800	59.67625	-153.78538
11559	60.47505	-153.82900	11801	59.67602	-153.78439
11560	60.47486	-153.82933	11802	59.69499	-153.92936
11561	60.47450	-153.82967	11803	59.69574	-153.92723
11562	60.47454	-153.82521	11804	59.68112	-153.95042
11563	60.47161	-153.83093	11805	59.67574	-153.96357
11564	60.47156	-153.83088	11806	59.67672	-153.96374
11565	60.51523	-153.78833	11807	59.67146	-153.95936
11566	60.51498	-153.78656	11808	59.67319	-153.95802
11567	60.51824	-153.78214	11809	59.68421	-153.94467
11568	60.06933	-153.95556	11810	59.68410	-153.94491
11569	60.26512	-153.56255	11811	59.78139	-154.50877
11570	60.26519	-153.56235	11812	59.74333	-153.94667
11571	60.19191	-153.91687	11813	59.78460	-154.51097
11572	60.19186	-153.91684	11814	59.78459	-154.51100
11573	60.16003	-153.85385	11815	59.78453	-154.51146
11574	60.16003	-153.85368	11816	59.50914	-154.35996
11575	60.16006	-153.85370	11817	59.33708	-154.53241
11576	60.16006	-153.85368	11818	59.33664	-154.55869
11577	60.18129	-153.73682	11819	59.33709	-154.56207
11578	60.28194	-153.56073	11820	59.31424	-154.76834
11579	60.28368	-153.55887	11821	59.26554	-154.60590
11580	60.28368	-153.55881	11822	59.41593	-154.20521
11581	60.16130	-154.04839	11823	59.71196	-154.02530
11582	60.16176	-154.04810	11824	59.71544	-154.01504
11583	60.31691	-153.88537	11825	59.71068	-154.00748
11584	60.31607	-153.88982	11826	59.78541	-155.48645
11585	60.25073	-153.58138	11827	59.50911	-154.36101
11586	57.76885	-155.38959	11828	59.50918	-154.36106
11587	57.76876	-155.39007	11829	59.50903	-154.36068
11588	57.93477	-155.97873	11830	59.50908	-154.36152
11589	57.85109	-155.74134	11831	59.71086	-154.00771
11590	57.85128	-155.74280	11832	59.68848	-153.99943
11591	57.85312	-155.74231	11833	59.68840	-153.99933
11592	57.85289	-155.74204	11834	59.61399	-154.11642
11593	57.88357	-155.07251	11835	59.66665	-154.07008

Table 3. Latitude and longitude coordinates for 2005-2006 samples. Coordinates are in decimal degrees and use the North American Datum 1927.

Sample No	Latitude	Longitude	Sample No	Latitude	Longitude
11836	59.61097	-154.13682	11892	58.26882	-155.43439
11837	59.59905	-154.05373	11893	58.27065	-155.43981
11838	59.59903	-154.05387	11894	58.26919	-155.43697
11839	59.66664	-154.06998	11895	58.26917	-155.43396
11840	59.63826	-153.94342	11896	58.32276	-155.00432
11841	59.63828	-153.94342	11897	58.32132	-155.00042
11842	59.85234	-154.35359	11898	58.33425	-154.99463
11843	59.85238	-154.35355	11899	58.33322	-154.99421
11844	59.78067	-154.50827	11900	57.88267	-155.07431
11845	59.78073	-154.50830	11901	57.88267	-155.07431
11846	59.78088	-154.50793	11902	57.88342	-155.07270
11847	59.78111	-154.50849	11903	57.88409	-155.07239
11848	59.78136	-154.50870	11904	57.88407	-155.07251
11849	59.78143	-154.50880	11905	57.88225	-155.07316
11850	59.78513	-154.51128	11906	57.88218	-155.07313
11851	59.78533	-154.51129	11907	57.88288	-155.07465
11852	59.78575	-154.51159	11908	57.88264	-155.07436
11853	59.78587	-154.51134	11909	57.88485	-155.08327
11854	59.78615	-154.51141	11910	59.10704	-154.89099
11855	59.67448	-154.94996	11911	59.10700	-154.88552
11856	59.67448	-154.95000	11912	59.10838	-154.88066
11857	59.41364	-155.25040	11913	59.10861	-154.87802
11858	59.34360	-154.60003	11914	59.08372	-154.95558
11859	59.49702	-154.39384	11915	58.68255	-153.87207
11860	59.54624	-154.27568	11916	58.68304	-153.87303
11861	59.54644	-154.27574	11917	58.26773	-155.43276
11862	59.39392	-155.10748	11918	58.26830	-155.43366
11863	59.85655	-155.33068	11919	58.27023	-155.43940
11864	59.85673	-155.31734	11920	58.26918	-155.43430
11865	59.24145	-154.70365			
11866	59.24697	-154.74756			
11867	59.24709	-154.74680			
11868	59.24632	-154.81803			
11869	59.24635	-154.81805			
11870	59.10986	-154.86903			
11871	59.10970	-154.87002			
11872	59.10956	-154.86742			
11873	59.10995	-154.86379			
11874	59.08319	-154.79513			
11875	59.07729	-154.83418			
11876	57.76093	-155.66800			
11877	57.69431	-155.82301			
11878	57.88338	-155.07277			
11879	57.94316	-155.95036			
11880	57.94314	-155.95035			
11881	58.92638	-155.64830			
11882	57.88989	-155.09483			
11883	58.92638	-155.64826			
11884	58.89156	-154.55029			
11885	58.92471	-154.93359			
11886	58.92472	-154.93370			
11887	58.84309	-154.96980			
11888	58.84375	-154.97065			
11889	58.67634	-154.82446			
11890	58.67634	-154.82445			
11891	58.26748	-155.43262			