

Table 11. Semiquantitative spectrographic analyses and gold analyses of samples from the Reid Inlet gold area

(Results are reported in parts per million, which for the spectrographic analyses have been converted from percent to the nearest number in the series 1, 0.7, 0.5, 0.3, 0.2, 0.150, and 0.1, etc., which represent approximate midpoints of group data on a geometric scale. The assigned group for 6-step results will include more accurately determined values about 30 percent of the time. Gold and silver values are shown in parenthesis below their corresponding ppm values).

Symbols used: M = major constituent--greater than 10 percent; O = looked for but not detected; -- = not looked for; < = less than.

The following elements were looked for but not found: Be, Bi, Hg, La, Li, Pd, Pt, Sb, Sn, Ta, Tl, W.

Spectrographic analyses by J. C. Hamilton, Harriet Neiman, and A. L. Sutton, Jr.

Gold analyses by Claude Huffman, Jr., J. D. Mensik, O. M. Parker, V. E. Shaw, J. A. Thomas, and J. E. Troxel.

Locations of the deposits are shown in figure 3A and individual samples are described in the list appended to this table.

Locality 66A																						Au		
No.	Sample	Ag	Al	As	Ba	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Mo	Nb	Ni	Pb	Si	Ti	V	Y	Zn	A	B
A	No analyses																							
B	Mk-326	0	10,000	20,000	70	10,000	0	7	1.5	3	7,000	1,500	150	0	0	0	0	M	300	15	0	0	0.3 (0.0088)	--
	Mk-328	0	10,000	7,000	100	7,000	0	5	1.5	7	10,000	1,500	150	0	0	0	0	M	700	20	0	0	0.5 (0.015)	--
	Mk-329	0	15,000	15,000	100	30,000	0	5	1.5	15	15,000	7,000	300	0	0	0	50	M	700	30	10	0	1.0 (0.029)	2.0 (0.058)
	Mk-330	0	10,000	1,000	50	30,000	0	5	1.5	3	15,000	7,000	700	10	0	0	0	M	300	30	0	0	0.4 (0.012)	--
	Mk-332	0	7,000	70,000	70	3,000	0	0	1.5	3	15,000	700	70	0	0	0	20	M	300	15	0	0	10 (0.292)	15 (0.450)
	Mk-333	0	3,000	30,000	30	30,000	0	0	1	3	7,000	1,500	1,500	0	0	0	0	M	150	15	10	0	0.2 (0.006)	--
	Mk-334	0	30,000	0	300	70,000	0	10	3	7	30,000	15,000	1,500	0	0	2	0	M	1,500	70	30	0	0.3 (0.0088)	--
	Mk-383	1 (0.029)	20,000	2,000	200	7,000	70	5	2	50	30,000	5,000	200	0	0	0	1,500	M	2,000	30	0	500	11 (0.321)	8 (0.233)
	Mk-384	1.5 (0.045)	7,000	1,500	100	30,000	100	7	1	20	15,000	2,000	300	0	0	0	500	M	500	15	0	500	17 (0.495)	16 (0.466)
	Mk-385	10 (0.292)	30,000	7,000	200	30,000	300	7	2	70	70,000	7,000	500	0	0	0	7,000	M	1,500	50	0	2,000	12 (0.350)	13 (.379)
	Mk-386	15 (0.450)	20,000	0	100	30,000	1,000	10	7	70	50,000	7,000	700	0	0	3	7,000	M	1,500	30	10	15,000	37 (1.079)	24 (0.699)
C	Mk-387	0	30,000	1,500	1,000	3,000	0	0	5	20	10,000	1,500	300	0	0	0	70	M	700	15	0	0	4 (0.116)	7 (0.205)
	Mk-388	10 (0.292)	30,000	5,000	300	20,000	0	0	2	20	15,000	3,000	500	15	0	0	500	M	700	20	10	0	52 (1.518)	58 (1.664)
	Mk-389	10 (0.292)	30,000	1,500	700	700	0	0	7	50	15,000	1,500	200	10	0	3	300	M	1,000	20	10	0	57 (1.635)	55 (1.636)
	Mk-390	70 (0.223)	30,000	1,000	1,000	5,000	0	0	0	100	10,000	2,000	150	15	0	0	500	M	500	10	0	2,000	350 (10.208)	330 (9.624)
	Mk-391	0	50,000	0	500	10,000	0	0	1	7	15,000	5,000	300	0	0	0	0	M	1,000	15	10	0	.3 (0.0088)	.3 (0.0088)
	Mk-392	0	30,000	0	500	30,000	0	7	100	15	20,000	10,000	700	0	0	15	0	M	1,500	50	10	0	.5 (0.015)	.3 (0.0088)
D	Mk-393	0	30,000	0	1,000	30,000	0	10	50	50	30,000	10,000	700	0	0	5	0	M	2,000	50	10	0	4 (0.117)	3 (0.0875)
E	Mk-337	0	70,000	0	200	30,000	0	10	10	30	50,000	30,000	1,000	0	10	15	0	M	3,000	150	10	0	0.08 (0.0023)	<.05 (<.0015)
	Mk-339	0	M	0	700	7,000	0	0	20	7	15,000	5,000	300	0	0	3	0	M	1,500	20	10	0	.2 (0.006)	.4 (0.012)
	Mk-340	0	70,000	1,000	500	1,500	0	0	5	7	20,000	5,000	700	0	0	0	0	M	1,500	30	10	0	.4 (0.012)	.3 (0.0088)
	Mk-341	0	70,000	1,500	700	1,500	0	5	7	7	20,000	5,000	700	0	0	0	0	M	1,500	30	15	0	.2 (0.006)	.2 (0.006)
	Mk-342	0	70,000	1,500	700	1,500	0	0	2	15	20,000	3,000	500	0	10	0	15	M	1,500	20	15	0	1 (0.029)	1 (0.029)
	Mk-343	0	70,000	7,000	500	1,500	0	0	0	7	20,000	3,000	300	0	10	0	100	M	1,500	20	15	0	1 (0.029)	1 (0.029)
	Mk-344	0	20,000	2,000	300	700	0	0	0	10	7,000	1,000	300	0	0	0	10	M	700	0	10	0	.9 (0.026)	.8 (0.0233)
	Mk-345	0	30,000	1,500	700	10,000	0	0	1	10	10,000	2,000	700	0	0	0	0	M	500	10	0	0	.8 (0.023)	.6 (0.017)
	Mk-346	0	10,000	0	150	20,000	0	0	10	10	7,000	2,000	500	0	0	0	0	M	300	0	0	0	.1 (0.0029)	.1 (0.0029)
	Mk-348	0	70,000	1,500	500	2,000	0	7	20	7	20,000	10,000	700	0	0	5	10	M	2,000	50	15	0	.7 (0.020)	.8 (0.023)
F	Mk-375	0	50,000	0	50	50,000	0	100	150	1,000	M	50,000	1,000	0	0	150	0	M	1,000	100	20	0	.4 (0.012)	.4 (0.012)
G	Mk-350	0	70,000	2,000	700	1,500	0	5	15	7	20,000	3,000	700	0	10	3	10	M	1,500	30	15	0	.4 (0.012)	.4 (0.012)
	Mk-351	0	70,000	1,000	700	2,000	0	0	1.5	5	20,000	3,000	500	0	10	0	15	M	1,500	20	15	0	1 (0.029)	.7 (0.020)
	Mk-352	0	30,000	20,000	2,000	30,000	0	5	100	7	20,000	3,000	1,500	0	0	15	0	M	1,500	30	0	0	1 (0.029)	1 (0.029)
H	Mk-572	0	7,000	0	30	30,000	0	0	3	20	7,000	1,500	100	0	0	0	0	M	150	15	0	0	.05 (0.0015)	--
I	Mk-571	0	7,000	0	15	M	0	0	3	30	10,000	2,000	700	0	0	0	0	M	200	30	0	0	<.05 (<.0015)	--
J	No analyses																							
K	No analyses																							
L	Sj-5	0	M	0	1,500	700	0	5	10	50	30,000	10,000	100	0	0	0	300	M	5,000	200	20	0	.05 (0.0015)	<.05 (<.0015)
	Sj-6	0	10,000	5,000	150	300	0	15	1	150	20,000	1,000	30	0	0	0	50	M	700	15	0	0	5 (0.15)	4 (0.012)
	Sj-7	0	3,000	2,000	50	7,000	0	30	1	200	70,000	500	150	<5	0	0	0	M	200	0	0	0	7 (0.204)	5 (0.15)
	Sj-8	0	2,000	0	50	150	0	10	1	200	20,000	100	15	0	0	0	0	M	200	0	0	0	--	9 (0.263)
	Mk-545	0	7,000	30,000	100	7,000	0	0	1.5	20	7,000	700	150	0	0	0	30	M	200	7	15	0	1 (0.029)	--
	Mk-546	0	30,000	50,000	1,000	70,000	0	7	30	15	20,000	15,000	2,000	0	0	3	0	M	1,000	70	0	0	.5 (0.015)	--
	Mk-547	0	10,000	0	150	30,000	0	0	5	7	7,000	1,500	300	0	0	0	0	M	300	15	10	0	<.05 (<.0015)	--

The gold analyses are as follows: A -- analyzed by atomic absorption cyanide method; B -- analyzed by fire assay atomic absorption method.

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Table 11. (Continued) Sample data for Table 11. (Deposit localities are shown in figure 3A)

Deposit locality	Location	Geologic setting	Sample	Description of sample
A	Mt. Fairweather D-3 quad., 1,200 feet south of Glacier Bay, 2 miles west of Ptarmigan Creek	One claim; unpublished data from Alaska Division of Mines and Minerals	66A No analyses	
B	LeRoy mine, Mt. Fairweather D-3 quad. between Lamplugh Glacier and Reid Inlet	Gold in quartz veins and contiguous altered zones within metamorphic rocks. Sample localities are shown in figure 19.	Mk-326 -- Mk-328 -- Mk-329 -- Mk-330 -- Mk-332 -- Mk-333 -- Mk-334 -- Mk-383 -- Mk-384 -- Mk-385 -- Mk-386 --	chip sample 18 inches long at 2-inch intervals across quartz vein with minor horses selected sample of entire width of 4-inch wide quartz vein selected sample representative of 3-inch wide quartz vein channel sample across 6-inch thick quartz vein channel sample across 8-inch thick quartz vein channel sample across 5-inch thick quartz vein at surface channel sample across 3-inch thick quartz vein and 12 inch thick adjacent altered zone channel sample 15 inches long across quartz vein with subordinate altered wallrock channel sample 8 inches long across quartz vein channel sample 12 inches long across quartz vein and altered wallrock selected sample representative of 1-inch thick quartz vein and 1-inch thick altered wallrock
C	Rainbow mine, Mt. Fairweather D-3 quad., west of Reid Inlet about 15 feet above mean high tide.	Intermittent quartz veins in an altered fault zone. Sample localities are shown in figure 20	Mk-387 -- Mk-388 -- Mk-389 -- Mk-390 -- Mk-391 -- Mk-392 --	grab sample from small ore pile near face channel sample 1-foot long grab sample from quartz vein channel sample, 1-foot long channel sample, 1-foot long channel sample, 1-foot long
D	Sentinel mine, Mt. Fairweather D-3 quad. west of Reid Inlet.	Altered fault zone in granodiorite	Mk-393 --	channel sample, 1-foot long near easternmost outcrop of altered zone

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This report is preliminary  
and has not been reviewed by  
the Geological Survey.

Deposit	Location	Geologic setting	Sample	Description of sample
E	Monarch no. 1 and Monarch no. 2 mines, Mt. Fairweather D-3 quad. west of Reid Inlet	Quartz veins and adjoining altered wallrock in granitic rocks Sample localities are shown in figures 21 and 22	Mk-337 -- Monarch no. 1, 29-inch long channel sample Mk-339 -- Monarch no. 1, 10-inch long channel sample Mk-340 -- Monarch no. 1, channel sample 16 inches long Mk-341 -- Monarch no. 1, channel sample 24 inches long Mk-342 -- Monarch no. 1, channel sample 14 inches long Mk-343 -- Monarch no. 1, channel sample 12 inches long Mk-344 -- Monarch no. 2, channel sample 6 inches long Mk-345 -- Monarch no. 2, channel sample 6 inches long Mk-346 -- Monarch no. 2, channel sample 6 inches long Mk-348 -- Monarch no. 2, channel sample 8 inches long	across altered zone
F	Mt. Fairweather D-3 quad., west of Reid Inlet	Pyrite-rich pods <10 feet long and 1 foot thick in hornblende-rich diorite	Mk-375 -- grab sample of pyrite-rich pod	
G	Incas mine, Mt. Fairweather D-3 quad. west of Reid Inlet	Quartz veins intermittently distributed in an altered zone within granodiorite Sample localities are shown in figure 23	Mk-350 -- channel sample, 10 inches long Mk-351 -- channel sample, 18 inches long Mk-352 -- chip sample, 4 feet long at 4-inch intervals	
H	Sunrise prospect, Mt. Fairweather D-3 quad. east of Reid Inlet	Quartz veins cutting marble; some lamprophyre dikes in vicinity	Mk-572 -- selected sample representative of a 4-inch thick quartz vein	
I	Hopalong-Whirlaway prospect, Mt. Fairweather D-3 quad. east of Reid Inlet	Quartz veins in granitic rock	Mk-571 -- grab sample representative of veins	
J	Galena prospect, Mt. Fairweather D-3 quad. at an altitude of about 500 feet west of Reid Inlet	Quartz vein	No analyses	
K	Highland Chief prospect, Mt. Fairweather D-3 quad. at altitudes between 2,500 and 2,800 feet west of Reid Inlet	Quartz veins in metamorphic rocks	No analyses -- prospect concealed by snow during 1966	
L	Rambler prospect, Mt. Fairweather D-3 quad. east of Lamplugh Glacier	Quartz veins in granitic rocks and uncommonly in metamorphic rocks	Sj-5 -- grab sample of sheared and altered granodiorite from contact with quartz vein (Sj-5) Sj-6 -- selected sample of 1-inch massive white, unstained quartz vein Sj-7 -- selected sample from sulfide-bearing quartz vein Sj-8 -- selected sample from sulfide-bearing quartz vein Mk-545 -- grab sample from quartz veins 1 to 4 inches thick Mk-546 -- grab sample from quartz vein 2 inches thick Mk-547 -- grab sample from quartz vein 2 inches thick	