

Table 3.--Geologic setting and sample data for Tables 1 and 2.

Localities are shown in Figures 1, 2, 3, 4, 5. Comments within brackets under Description of Sample refer to minerals identified by x-ray diffraction and/or thin section examination.

Locality	Location	Geologic Setting	Sample No.	Field No.	Description of Sample
1	Iliamna D-4 quad., 1000 feet N. 55° E. of Chekok Point	Small exposure of sheared diorite juxtaposed with banded chert	1	66AR141A	Selected sample of pyritized diorite
			2	66AR141B	Selected sample of pyritized diorite
2	Iliamna D-3 and D-4 quads., see figure 2	Coarse-grained granodiorite and quartz monzonite capped by Tertiary volcanics	No bedrock analyses		
3	Iliamna C-3 quad., 0.4 mile S. 25° W. from mouth of Iliamna River	Metavolcanics intruded by quartz diorite	3	66AR1387	Selected sample of greenstone replaced by irregular clots of pyrite. Sample taken from 1- to 2-foot-wide shear zone
			4	66AR1389	Quartz epidote vein with sulphides in greenstone cobble. A few similar discontinuous quartz epidote veins noted in greenstone along stream
4	Iliamna C-3 quad., see figure 3	Altered hornblende-biotite quartz diorite cut by shear zones and pyritized felsic dikes	5	66AR1405	Selected sample of bleached quartz diorite partially replaced by pyrite /quartz, sericite, plagioclase, chlorite/
			6	66AR1407	Selected sample representative of pyritized felsic dike
			7	66AR1410	Grab sample of altered quartz diorite from 50-foot-wide shear zone
5	Iliamna C-3 quad., see figure 3	Bedrock covered by glacial moraine, probably is quartz diorite which is capped, to west, by Tertiary volcanics	No bedrock analyses		
6	Iliamna C-3 quad., see figure 3	Extensively altered intrusive, probably hypabyssal; probable fault zone, cut by mafic dike	8	66ASJ77	Selected sample of argillized and pyritized intrusive with scattered flakes of molybdenite /quartz, kaolinite, andalusite, pyrite, molybdenite, barite, rutile, zircon/
			9	66ASJ74	Selected sample of bleached and pyritized intrusive
			10	66ASJ76	Selected sample of altered intrusive, iron stained, similar to 66ASJ77, and probably representative of altered intrusive
7	Iliamna C-4 quad., see figure 3	Subhorizontal graywackes and conglomerate cut by small altered intrusives	11	66ASJ92	Selected sample of pyritized and iron-stained intrusive
8	Iliamna C-4 quad., see figure 3	Volcanic flow breccias, volcanic conglomerates, and mafic flows. Local zones of iron staining	No bedrock analyses		
9	Iliamna C-4 quad., see figure 3	Metavolcanics cut by granitic intrusive. Igneous breccia	No bedrock analyses		
10	Iliamna C-4 quad., see figure 3	Altered granitic rock, cutting metavolcanics; mafic dikes cutting granitic intrusive	12	66AR1296B	Selected sample of altered and pyritized intrusive
			13	66AR1296A	Composite grab sample of iron-stained rock from 2-foot-wide shear zone in intrusive
			14	66AR1298A	Grab sample of bleached and pyritized intrusive
			15	66AR1300	Selected sample of altered intrusive /quartz, pyrite, sericite/
11	Iliamna C-3 quad., see figure 3	Quartz diorite intruding mafic volcanic flows. Local pyritization	No bedrock analyses		
12	Iliamna C-3 quad., see figure 4	Hydrothermally altered quartz porphyry and mafic Tertiary volcanics; capped by tuffs and volcanic conglomerate. Porphyry believed to intrude the volcanics. Local shear zones, with associated brecciation and alteration. Alteration consists chiefly of quartz, sericite, and pyrite with local kaolinite. Occasional specks of chalcocopyrite disseminated in porphyry. Porphyry may have originated as a rhyolitic hypabyssal intrusive. In many cases alteration is so complete that it is difficult to determine if the original rock was part of the volcanic series or quartz porphyry. Such rocks are referred to here as altered igneous rock	16	66AR1344	Grab sample of fractured and altered volcanics. Iron oxide stains and clots throughout rock
			17	66AR1346	Selected sample of 6-inch-wide light-gray porous altered zone /quartz, sericite, pyrite/
			18	66AR1347	Selected sample of altered iron-stained volcanics with stringers and irregular clots of pyrite and chalcocopyrite. Minor copper staining
			19	66AR1348A	Selected sample of 1/4-inch-wide pyrite stringers from 4-foot-wide altered shear zone in volcanics /quartz, sericite, kaolinite, pyrite, calcite/
			20	66AR1348B	Selected sample of 1/4-inch-wide pyrite stringer
			21	66AR1350	Selected sample of iron-stained altered igneous rock containing 1/8- to 1/2-inch pyrite stringers /quartz, sericite, pyrite/
			22	66AR1349	Fan concentrate from 1- to 2-foot-wide limonitic gouge zone in altered igneous rock. Concentrate chiefly pyrite, magnetite, iron-oxide coated grains, and minor chalcocopyrite
			23	66AR1351	Grab sample of altered fault gouge with disseminated pyrite /gouge: quartz, sericite, pyrite/
			24	66AR1354	Grab sample of propylitized volcanic rock containing veinlets of pyrite /quartz, chlorite, sericite, calcite, pyrite/

Table 3.--Continued

Locality	Location	Geologic Setting	Sample No.	Field No.	Description of Sample
12	Iliamna C-3 quad., see figure 4	(as above)	25	65AR1355	Selected sample of pyrite-bearing altered volcanic rock
			26	66AR1360	Grab sample of altered igneous rock containing disseminated pyrite
			27	65AR1358	Selected sample of gray quartz vein in altered igneous rock
			28	65AR1359	Selected sample of pyrite veinlets in altered igneous rock /quartz, sericite, pyrite, trace of kaolinite/
			29	66AR1330	Selected sample of pyritized mafic intrusive /quartz, chlorite, plagioclase, pyrite, calcite/
			30	66AR1325	Grab sample of altered (bleached and coated with iron oxides) quartz porphyry /quartz, sericite/
			31	66AR1310	Grab sample of altered quartz porphyry containing disseminated pyrite
			32	66AR1308	Grab sample of altered quartz porphyry containing disseminated pyrite
			33	66AR1307	Selected sample of iron-oxide stained breccia from 2-inch shear zone in quartz porphyry
			34	66AR1304A	Grab sample of altered quartz porphyry with disseminated pyrite /quartz, plagioclase, sericite, pyrite/
35	66AR1305	Grab sample of iron-oxide stained altered quartz porphyry /quartz, plagioclase, sericite; decrease in plagioclase, increase in sericite relative to sample 34/			
13	Iliamna C-4 quad., Tommy Creek, 4 miles S. 75° E. from mouth of Tommy Creek	Varied sequence of Tertiary volcanic flows and tuffs	No bedrock analyses		
14	See figure 1	Quartz diorite of Jurassic age	No bedrock analyses		
15	Iliamna B-5 quad., west of Emerald Lake, see figure 5	Chiefly hydrothermally altered rhyolitic tuffs and flows of Tertiary age capped by mafic flows	36	66AR1435	Grab samples of pyritized and iron-oxide stained rhyolite lithic tuff
			37	66ASJ101A	Grab sample of argillized tuff /kaolinite, quartz, sericite, pyrophyllite, pyrite, possible alunite/
			38	66ASJ100B	Grab sample of altered (pyritized) tuff
			39	66ASJ96B	Altered tuff
			40	66AR1424	Bleached and iron-stained rhyolite tuff /quartz, sericite/
			41	66AR1425	Altered rhyolite tuff
16	Iliamna A-5 quad., approx. 1 mile southeast of Mirror Lake; see figure 1	Probable fault contact between Tertiary volcanics and older metavolcanics. Metavolcanics cut by granodiorite	42	66AR1192	Grab sample of iron-stained and pyritized Tertiary volcanic rock
			43	66AR1198A	do
			44	66AR1198B	Blue altered rock found as rubble on possible fault zone /dumortierite, allevardite, illite/
17	Iliamna A-4 quad., samples 45-48 located at approximately 1500 feet in altitude on north side of valley wall, Lat. 59°14'45", Long. 54°28'55". Sample 49 located on south side of valley wall	Zone of igneous breccia 100-150-foot wide produced by quartz diorite intruding gabbro(?). Breccia locally replaced by sulphides, chlorite, biotite, quartz, and minor amphibole. Local iron oxide and malachite staining. Partially caved adit driven 15 feet into breccia	45	66AR1418A	Selected sample from 6-inches to 2-foot-wide malachite-stained fissure in quartz diorite. Sulphides (chiefly pyrite and chalcocopyrite) and chlorite replace quartz diorite
			46	66AR1418B	do
			47	66AR1419	Grab sample from adit of sulphides replacing breccia /sulphides, chlorite, biotite/
			48	66AR1420	Grab sample of sulphides in chlorite-rich breccia /chlorite, quartz, muscovite, pyrite, chalcocopyrite, malachite/
			49	66AR1421	Grab sample of pyrite-bearing fine-grained quartz diorite from south side of creek
18	Iliamna A-4 quad., on east tributary to Moraine Creek, see figure 1	Undifferentiated Tertiary volcanics, chiefly mafic flows	No bedrock analyses		
19	Iliamna A-4 quad., ridge northeast of Iron Springs Lake. See figure 6	Metavolcanics cut by quartz monzonite, granodiorite. Extensive areas of iron gossan	50	66AR1226	Grab sample of silicified quartz monzonite(?) /quartz, hematite, and minor alunite/
			51	66AR1243	Grab sample of silicified quartz monzonite(?) /quartz, hematite, and minor alunite/
			52	66AR1221	Grab sample of altered and brick-red iron-stained metavolcanic
			53	66AR1217A	Grab sample of altered metavolcanic rock
			54	66AR1217B	do