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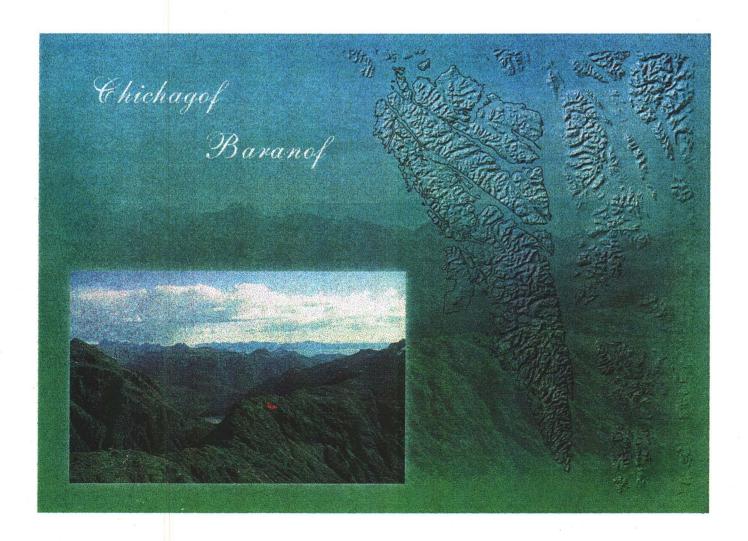
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Alaska State Office 222 West 7th Avenue, #13 Anchorage, Alaska 99513

Mineral Resources of the Chichagof and Baranof Islands Area, Southeast Alaska

Peter E. Bittenbender Jan C. Still Kenneth M. Maas, and Mitchell E. McDonald, Jr.



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Anchorage, Alaska 99513

Mission Statement

The Bureau of Land Management sustains the health, diversity and productivity of the public lands for the use and enjoyment of present and future generations.

Authors

Peter E. Bittenbender, Kenneth M. Maas and Mitchell E. McDonald, Jr. are geologists in the BLM-Alaska Division of Lands, Minerals and Resources, working for the Juneau Mineral Information Center, Bureau of Land Management, Juneau, Alaska.

Jan C. Still is a mining engineer in the Division of Lands, Minerals and Resources, working for the Juneau Mineral Information Center, Bureau of Land Management, Juneau, Alaska.

Cover

Digital elevation model of northern Southeast Alaska with the Chichagof and Baranof Islands Study Area outlined. Inset shows the west ridge of Mt. Muravief on southern Baranof Island.

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Technical Reports issued by the Bureau of Land Management-Alaska present the results of research, studies, investigations, literature searches, testing, or similar endeavors on a variety of scientific and technical subjects. The results presented are final, or are a summation and analysis of data at an intermediate point in a long-term research project, and have received objective review by peers in the author's field.

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MINERAL ASSESSMENT REPORT

Mineral Resources of the Chichagof and Baranof Islands Area, Southeast Alaska

Prepared By:	9:11
(Signature)	(Signature)
Geologist (Title)	Mining Engineer (Title)
12/18/98 (Date)	12/18/98' (Date)
Kewiller (Signature)	MEN. Oml./ (Signature)
Geologist (Title)	Geologist (Title)
12/18/98 (Date)	12/18/95 (Date)
Technical Reviewers:	Management Acknowledgment:
Donald Baggs, BLM, Anchorage, Alash	(Signature)
John Kato, USDA, FS, Juneau, Alaska	Deputy State Director, Lands, Minerals & Resources (Title)
Cliff Taylor, USGS, Denver, Colorado	

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MINERAL RESOURCES OF THE CHICHAGOF AND BARANOF ISLANDS AREA, SOUTHEAST ALASKA

By Peter E. Bittenbender, Jan C. Still, Kenneth M. Maas, and Mitchell E. McDonald, Jr.

ABSTRACT

The Chichagof and Baranof Islands area constitutes over two and a half million acres along the northwest coast of southeast Alaska. BLM personnel investigated mineral occurrences in the area between 1995 and 1997. This report provides information on those investigations and includes sections on land status, history and production, previous studies, general geology, and potential land use and resource development conflicts.

The historic Chichagof and Hirst-Chichagof Mines account for most of the past production of 791,000 ounces of gold and 228,000 ounces of silver from the Chichagof-Baranof area. These mines also account for most of the area's gold and silver resources of 675,000 ounces of gold and 195,000 ounces of silver. Much of the land with gold and silver potential in the west Chichagof area is covered by a wilderness designation that precludes mineral development.

Twenty-four million tons of nickel-copper-

cobalt-bearing resources are located at Bohemia Basin on Yakobi Island. Similar, but smaller, magmatic segregation deposits occur at Mirror Harbor and Snipe Bay. A wilderness designation covers the Mirror Harbor area.

The Pacific Coast Gypsum Company produced 500,000 tons of gypsum from a mine near Iyoukeen Cove on eastern Chichagof Island between 1906 and 1923. The Chichagof-Baranof area also has the potential for porphyry copper and molybdenum, volcanic-related copper, and skarn deposits.

The Chichagof-Baranof study reveals for the first time information on volcanic-related copper on southern Baranof Island, and porphyry molybdenum and skarn, near Freshwater Bay on eastern Chichagof Island. The history of mineral activity in Silver Bay, along with previously unpublished maps and sample results are presented.

EXECUTIVE SUMMARY

The Chichagof and Baranof Islands area constitutes over two and a half million acres located along the northwest coast of southeast Alaska. The area includes historic producers of gold, silver, and gypsum. The area's main gold producers, the Chichagof and Hirst-Chichagof Mines, produced 791,000 ounces of gold and 228,000 ounces of silver between 1906 and 1943. Approximately 500,000 tons of gypsum was produced by the Pacific Gypsum Company from a mine near Iyoukeen Cove on eastern Chichagof Island between 1906 and 1923.

Bureau of Land Management (BLM) personnel (employees of the Bureau of Mines prior to 1996) investigated mineral occurrences in the Chichagof and Baranof Islands area during 1995. 1996, and 1997. BLM crews examined 46 mines and prospects, and over 50 reconnaissance sites, and collected over 850 samples. A 220sample stream sediment reconnaissance program was carried out on southern Baranof Island. Detailed work was not performed on western Chichagof Island and Yakobi Island because extensive prior studies were conducted by the Bureau of Mines in 1978 and 1979 (Still and Weir, 1981; Kimball, 1982). Discussion of the western Chichagof and Yakobi Island mineral deposits is included here for completeness and to allow a comparison to be made with other deposits in the study area.

Based on the current mineral assessment, as well as on previous Bureau of Mines and U. S. Geological Survey (USGS) studies, 13 known mineral deposit areas (KMDA's) have been delineated. The boundaries of these areas were determined by geology, and the distribution and type of mineral deposits. Deposit types and

commodities include: vein gold (gold, silver) magmatic segregation (nickel, copper, cobalt, chromium), porphyry (copper, molybdenum), and volcanic-related massive sulfide (copper, zinc). The potential to develop the minerals in each of the KMDA's depends upon the size and grade of the deposits, deposit types, mineralogy, commodities, access, and potential land use conflicts. Mineral development potential is addressed with regard to each of the KMDA's.

There are four KMDA's with vein gold potential, Doolth Mountain, West Coast Gold, Lisianski, and Silver Bay. The one with the highest potential for development is the Doolth Mountain KMDA. With inferred/hypothetical resources of 675,000 ounces of gold and 195,000 ounces of silver, it contains the largest known gold and silver resources in the Chichagof-Baranof study area. Most of these resources are within the 39 patented mining claims that form the Chichagof Mine and the Hirst-Chichagof Mine properties. The remainder of the Doolth Mountain KMDA is within a designated wilderness where mineral development is not allowed, except on claims with valid existing rights. The West Coast Gold KMDA has a significant number of known mineral occurrences, but also has a wilderness designation (except for one unpatented claim) and mining is not allowed without valid existing The Lisianski KMDA also has a rights. significant number of mineral occurrences, with about half of the area open to mining. The open area includes the Apex and El Nido Mines, which are reported to contain an approximately 26,000-ounce unconfirmed gold resource. The land status in most of the Silver Bay KMDA allows for mineral development, but the size. grade, and continuity of the deposits makes development unlikely.

Five KMDA's with potential for magmatic segregation deposits are located in the study The Bohemia Basin KMDA contains resources of over 24 million tons of nickelcopper-cobalt-bearing rock and is the area most likely to be developed. According to the economic feasibility studies by Coldwell (1998), the deposit at present is subeconomic, and would require approximately a doubling of metal value or size to approach economic viability. The Bohemia Basin resources are covered by nine patented claims. The Mirror Harbor and Snipe Bay KMDA's contain resources of 1 million tons and 94,000 tons of nickel-coppercobalt-bearing rock, respectively. Both of these, however, are less likely to be developed. All of the land within the Mirror Harbor KMDA is designated as wilderness, as is about three quarters of the Snipe Bay KMDA. Two areas of magmatic segregation-type deposit potential least likely to be developed are the Red Bluff Bay and Hill KMDA's. Both are of limited size and grade, and are covered by land status designations restrictive to mineral development.

There are four KMDA's in the study area with potential for porphyry-type deposits and for volcanic-related massive sulfide deposits. The Warm Springs Bay and Slocum Arm KMDA's host porphyry-type mineralization. The mineralized rock in both areas covers a broad extent, however the Warm Springs Bay area is more likely to attract development, given its land status that is less restrictive to mineral development. The likelihood of mineral development in the KMDA's marked by volcanic-related deposits is considered as medium in the Mt. Baker area, and as low in the Mt. Muravief area.

The Chichagof-Baranof study reveals for the first time information on volcanic-related copper on southern Baranof Island. Results of the first examination of a molybdenum occurrence in a road pit south of Freshwater Bay is also discussed. BLM investigators discovered skarn minerals near Gypsum Creek on eastern Chichagof Island and report on recent claims staked for skarn potential near East Point, north of Tenakee Inlet. The history of mineral activity in Silver Bay, along with previously unpublished maps and sample results, is also presented.

TABLE OF ABBREVIATIONS / ACRONYMS

ANILCA Alaska National Interest Lands Conservation Act (1980)

BLM United States Department of Interior, Bureau of Land

Management

Bureau of Mines
United States Department of Interior, Bureau of Mines
Forest Service
United States Department of Agriculture, Forest Service

KMDA('s) know mineral deposit area(s)

LUD Forest Service's "Land Use Designation"

MAS Minerals Availability System (BLM's minerals database)

no. number oz troy ounces

oz/t troy ounces per short ton oz/yd³ troy ounces per cubic yard PGM platinum-group metals

ppb parts per billion ppm parts per million tons short tons

USGS United States Department of Interior, Geological Survey

odegrees of azimuth (unless otherwise noted)

INTRODUCTION

Mining in the Chichagof-Baranof study area (Fig. 1) dates back to about 1870 and represents some of the earliest mining in Alaska. The area corresponds to the historic Chichagof District, also known as the Sitka Mining District (Knopf, 1912), which is an area that has produced significant quantities of gold, silver, and gypsum. Exploration efforts have also targeted occurrences of nickel, chromium, copper, and molybdenum. Occurrences of tungsten, iron, potassium feldspar, palygorskite, andalusite, and cement-grade limestone have also been noted. Mineral deposit types include vein gold, epithermal vein, magmatic segregation. hydrothermal or sedimentary gypsum, volcanicrelated massive sulfide, porphyry copper and/or molybdenum, pegmatite, and iron-copper skarn.

The Bureau of Land Management (BLM) finished a three-year mineral assessment of the Chichagof and Baranof Islands area in 1997. This report summarizes the mineral endowment of the area from data generated during the current study and also from previous investigations, particularly those of the Bureau of Mines between 1979 and 1980 (Still and Weir, 1981; Kimball, 1982).

The Chichagof-Baranof study was initiated by the Bureau of Mines in 1995. With the closure of the Bureau of Mines in 1996, responsibility for the investigation was taken over by the BLM. Investigation of the area was undertaken at the request of the USDA, Forest Service (Forest Service) whose goal is to encourage and facilitate orderly mineral development, while ensuring operations are conducted in an environmentally sound manner, and that disturbed lands are reclaimed for other productive uses. Each element of this goal requires a thorough understanding of the mineral

endowment and development potential of the selected area.

The Chichagof-Baranof mineral assessment included site surveying, geologic mapping, and sampling of historic mines, prospects, and mineral occurrences as well as reconnaissance investigations of prospective mineralized areas. BLM personnel investigated approximately 90 mines, prospects, or mineral occurrences during the course of this study. Reconnaissance-type investigations examined numerous exposures, particularly along the logging road network on the northeast side of Chichagof Island. A 220sediment reconnaissance sample. stream program was carried out on southern Baranof Island in search of mineralized rock similar to that found in the Mt. Muravief area. In total, over 850 rock chip, placer, and stream sediment samples were collected for geochemical analysis. The overall project objectives were to:

- identify the type, amount, and distribution of mineral deposits in the district
- determine mineral resource estimates when possible
- conduct feasibility studies for selected deposit types
- address land use and resource issues related to mining activities

Field investigations during the current study explicitly excluded the historically significant deposits in the west Chichagof-Yakobi Island area. Mineral assessments of this area were previously completed by Bureau of Mines workers Still and Weir (1981) and Kimball (1982). A discussion of the west Chichagof-Yakobi Island area is included here, however, for completeness and so that a comparison can

be made with other mineralized areas on Chichagof and Baranof Islands.

Discussion of the mineral endowment of the study area is structured upon 13 known mineral deposit areas (KMDA's) and the deposit type within each area. This approach provides an overview of the most important mineralized areas and allows a comparison to be made between areas with similar deposit types. Each KMDA is evaluated with regard to the size and grade of known resources, the extent and nature of the deposits, results of BLM sampling where applicable, current land status and how it affects mineral development activities, and accessibility of the areas. A brief discussion of additional prospects and mineral occurrences outside the more significant KMDA's is also provided. Detailed work was accomplished in the south Baranof and Freshwater Bay areas by the BLM in 1997, and in the Silver Bay area during the course of the study. The work accomplished in these areas is presented in separate sections, outside the framework of the KMDA comparison.

This report presents an overview of land status, mining history, previous studies, general geology and mineral deposit types, and a bibliography of geological and mining-related reports pertaining to the study area. Plate 1 shows the location of the KMDA's, mines, prospects, and mineral occurrences within the study area as well as many of the geographic locations mentioned in the text. Table A-1 summarizes pertinent information on mines, prospects, and mineral occurrences and is presented in Appendix A. Plate 1 and Table A-1 are cross-referenced using "prospect" numbers or "P" numbers (eg., P63). Plate 2 shows the locality of all samples collected from 1995 to 1997. Table B-1 in Appendix B is a corresponding table of analytical results. Plate 2 and Table B-1 are

cross-referenced using a different set of "map" numbers. An alphabetical listing of mines, prospects, and mineral occurrences with correlated prospect and map numbers is presented in Appendix C.

Several publications have already been released regarding the current mineral assessment of the Chichagof-Baranof area. Bureau of Mines and BLM investigations conducted during 1995 and 1996 were published by Maas and others (1996) and Bittenbender and Still (1997), respectively. A report on the economic feasibility of mining low sulfide, vein gold- and magmatic segregation-type deposits in the Chichagof-Baranof area was published by Coldwell (1998).

PURPOSE OF PROGRAM

Mineral assessment studies in Alaska expand the body of public, minerals-related, knowledge and support Department of the Interior policies that improve Federal stewardship and land-use planning on public lands. They provide important geoscience, mining engineering, and mineral economic information that become part of a comprehensive inventory of resources on Federal land. The total data set allows physical, biological, and economic sciences to be considered in Federal land planning and decision The information and the resulting policies are necessary to ensure the sound use of natural resources, while preserving and protecting environmental and cultural values. Information provided by these studies is also useful to legislators, other land-managing agencies, and mineral industry leaders to make informed decisions affecting future mineral resource activities and their associated socioeconomic effects on the State of Alaska.

Mineral assessment studies improve the understanding of the mineral development

potential of an area by creating an inventory of mineral resources, evaluating the likelihood that more resources may exist, and estimating the environmental, technical. and economic feasibility of mining certain mineral deposits. They also review land-use and environmental issues as they relate to potential mineral scenarios. development The mineral assessments address specific data and analysis requirements mandated by the National Environmental Policy Act (NEPA), the Federal Land Management and Policy Act (FLPMA), the National Forest Management Act, the Alaska National Interest Lands Conservation Act (ANILCA), and other statutes.

Area-wide mineral assessments of Alaska are conducted in coordination with several Federal agencies. Historically, these have included the Bureau of Mines, U.S. Geological Survey (USGS), BLM, and the Forest Service. Early in 1996, the Bureau of Mines was closed as an agency and its functions, personnel, and mandates in Alaska were transferred to the BLM under Secretarial Order 3196, dated January 19, 1996.

Under the BLM mineral assessment program, several mining districts (including Goodnews Bay, Juneau, Valdez Creek, Colville, and Ketchikan), national forests (Chugach), and BLM resource planning areas (Steese-White Mountains, Forty Mile, and Black River) have been investigated. Many of these studies have been conducted in coordination with State and nongovernmental organizations as well.

Authorities

In accordance with Section 1010 of the ANILCA (PL 96-487; 94 Stat. 2371) the Secretary of the Interior is authorized, "...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 database with respect to the mineral potential of such lands. The mineral assessment program may include, but shall not be limited to, ... core and test drilling for geologic information.... To the maximum extent practicable, the Secretary shall consult and exchange information with the State of Alaska regarding the responsibilities of the Secretary under this section and similar programs undertaken by the State." Wilderness Act, National Environmental Policy Act (NEPA), and Federal Land Policy and Management Act (FLPMA) also require interdisciplinary resource assessments before a major Federal land use decision is made on public lands.

Priorities

Mineral assessment study areas are chosen using a prioritization process that weighs several factors, including land status, mining history, current prospecting activity, geologic potential, accessibility, and conflicting land uses. The extent and age of previous studies is also taken into account. Input from other Federal agencies and the State of Alaska are heavily weighted in the process of prioritization. For instance, the priorities of the Forest Service, the leading land manager in southeast Alaska, were a major consideration in undertaking the Chichagof and Baranof Islands area study.

METHODOLOGY

Mines, prospects, and mineral occurrences are selected for examination after considering information from several different sources. An initial list is compiled from the Minerals Availability System (MAS) database, which was created and maintained by the Bureau of Mines through 1995. The Alaska portion of the MAS

database is currently maintained by the BLM and contains information on mines, prospects, and mineral occurrences throughout Alaska. Each site from the MAS list is reviewed and prioritized after completing a thorough literature search. Properties with multiple references and evidence of past production or development are given high priority. Sites where recent work or claim staking has been performed are given moderate priority for field investigation. The literature may reveal that some sites represent claim staking only, consequently, locations and information are scarce. These sites are given a low priority. The literature search may also reveal properties that were not included in the MAS database. but nonetheless merit investigation.

Previous studies by government agencies such as the USGS or Alaska Division of Geological and Geophysical Surveys may contain geophysical or geochemical information on sites that warrant follow-up examination. Other factors that influence site selection include favorable regional geology and newly created access (e.g., logging roads, glacial retreat, etc.). Site examinations may also be recommended by area land managers, prospectors, and geologists.

LOCATION AND ACCESS

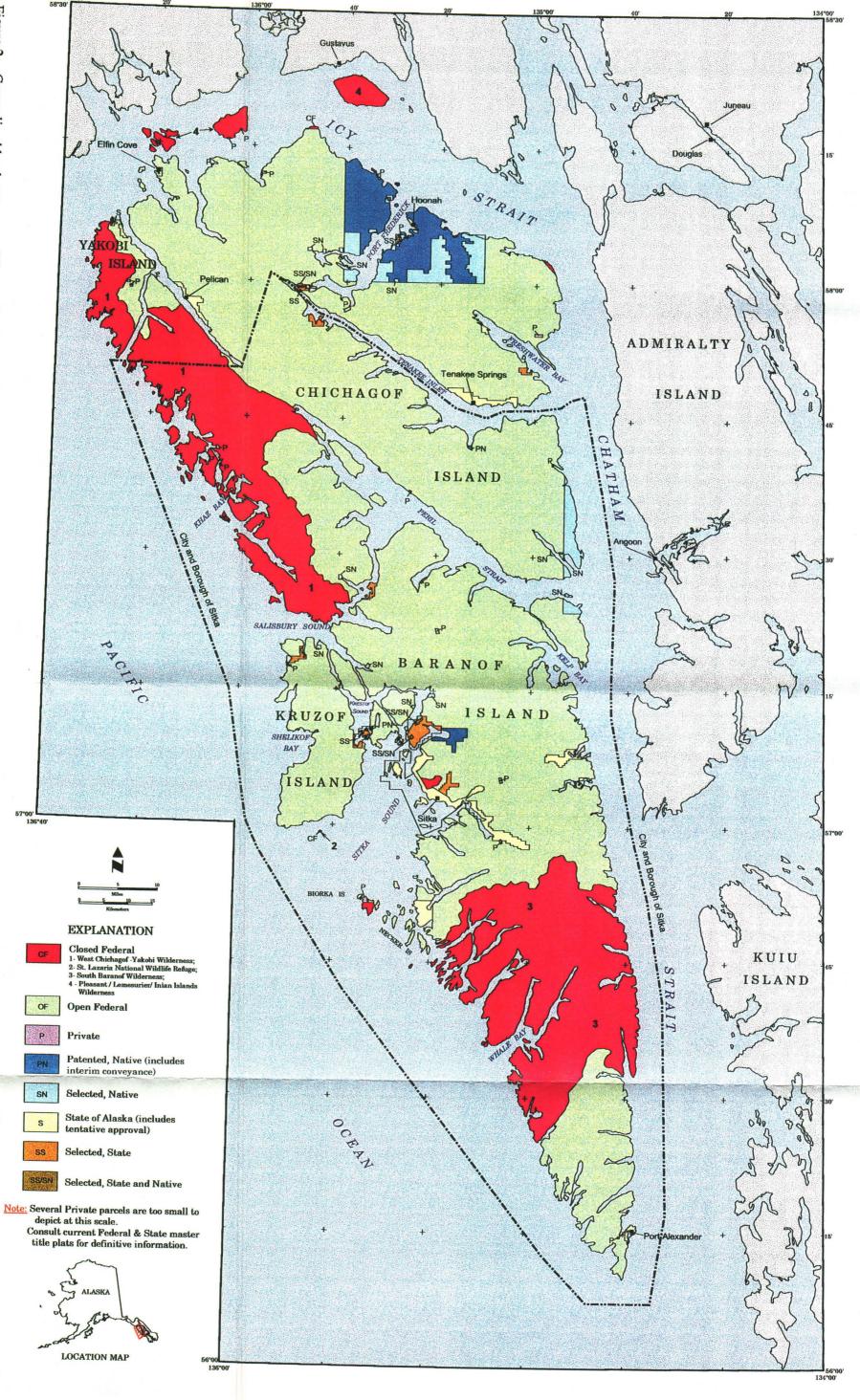
The Chichagof and Baranof Islands study area consists of the islands west of Chatham Strait and south of Cross Sound and Icy Strait. It includes Chichagof, Baranof, Inian, Lemesurier, Yakobi, Kruzof and the smaller islands along the Pacific coast (Fig. 1, Plate 1). The area is depicted on parts of the Mt. Fairweather, Juneau, Sitka, and Port Alexander 1:250,000-scale USGS quadrangle maps. Population centers in the district include Sitka, Hoonah, and the smaller communities of Tenakee Springs, Pelican, Elfin Cove, Port Alexander, and

Baranof.

The area is characterized by rugged, glaciated topography with peaks in excess of 4,800 feet. The steep terrain restricts foot access in many places. Numerous inlets and bays cut through the islands providing rock exposure along shorelines that can be accessed by boat. Extensive logging road networks traverse the northeast part of Chichagof Island and can be accessed from Hoonah. Logging roads also provide access to the Sitkoh Bay-Corner Bay area. A short paved-road network surrounds The Alaska Marine Highway System (ferry) provides service to Sitka, Hoonah, Tenakee Springs, and Pelican. Fixed-wing and helicopter service can be obtained from Sitka. Sitka is the largest population center in the area and offers some supplies and services. Juneau, approximately 90 miles northeast of Sitka, can also be used for logistical support.

LAND STATUS

Land management responsibilities in the Chichagof-Baranof area are divided among the Forest Service, regional and village Native corporations, the State of Alaska, and private entities (Fig. 2; see Plate 1 for additional geographic locations). Most of the land on Baranof Island and the adjacent islands is administered by the Forest Service and is open to mineral location and development. There are several exceptions. The major exception is the 319,568-acre South Baranof Wilderness created by ANILCA. It is managed by the Forest Service, but is closed to mineral entry. The St. Lazaria National Wildlife Refuge, located on a small island south of Kruzof Island, is managed by the Fish and Wildlife Service and is also closed to mineral entry. A small parcel of land north of Sitka is included within an enacted Municipal watershed classification (PL 78-262)



that precludes mineral entry. Several lakes on the east side of Baranof Island, including Baranof, Kasnyku, Carbon, Antipatr, Deer, and Betty Lakes, have been withdrawn by the State of Alaska as potential power sites. This classification does not preclude mineral entry, but it may place specific restrictions on miningrelated activities.

A large part of Chichagof Island is managed by the Forest Service and is open to mineral location and development. However, significant acreage has been designated as LUD II (Land Use Designation II) by the Tongass Timber Reform Act (1990) and subsequent updates resulting from the Tongass Land Management Plan (1996). This designation restricts certain activities and provides for the area to be managed in a roadless state. Roads supporting mineral exploration and development activities in LUD II designated areas are allowed as specifically authorized uses.

The West Chichagof-Yakobi Wilderness occupies 265,529 acres on West Chichagof and Yakobi Islands, and is closed to mineral location and development. The newly created Pleasant-Inian-Lemesurier Islands Wilderness is also closed to mineral entry.

The Huna Totem Village Corporation (Native village corporation for Hoonah) owns a large tract of land on northeastern Chichagof Island, centered around the town of Hoonah. Mineral rights on this native corporation land are managed by Sealaska Corporation, the regional Native corporation for southeast Alaska. Sealaska also holds title to several parcels of subsurface estate in the same vicinity. Several parcels in this area are currently in selection status. The Shee-Atika Corporation (Native village corporation for Sitka) owns land near the Sitka airport as well as a parcel near Katlian

Bay. The Kootznahoo Corporation (Native village corporation for Angoon) has selected land along Chatham Strait from Basket Bay south to Point Thatcher. Most Native corporation lands are available for mineral exploration and development as long as this use does not conflict with traditional, cultural, and subsistence uses. Lease arrangements must be made with the appropriate Native corporations prior to any activity.

State and Municipal land is found adjacent to Sitka, Tenakee Springs, Pelican, Elfin Cove, Baranof, and Port Alexander. Other small conveyances are scattered throughout the study area. The City and Borough of Sitka developed a draft comprehensive plan for lands within its jurisdiction in February, 1995. A general provision affecting the mining industry states, "any uses that can potentially degrade the natural habitat will be reviewed and monitored on a case-by-case basis (City and Borough of Sitka, 1995)." Users are encouraged to provide information to the Borough early in the permitting process.

Active and patented mining claims are present Patented claims are within the study area. present in the following locations: Lemesurier Island, Bohemia Basin, Kimshan Cove (Hirst-Chichagof Mine), Klag Bay (Chichagof Mine), Iyoukeen Cove (Kaiser Gypsum Mine), Rodman Bay and southeast of the head of Rodman Bay, Silver Bay (Stewart Mine), and Pande Basin. Ownership information for the patented claims within the City and Borough of Sitka boundaries can be obtained from the assessors office in Sitka. Records for unpatented, active claims are kept by the BLM and are available from the BLM offices in Anchorage and Juneau as well as from the Forest Service offices in Sitka and Juneau.

Private parcels are scattered throughout the study area, but most are too small to depict at the scale of Figure 2. Consult the Forest

Service, BLM or State of Alaska to obtain more precise, up-to-date information on these parcels.

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The authors extend thanks to the Forest Service

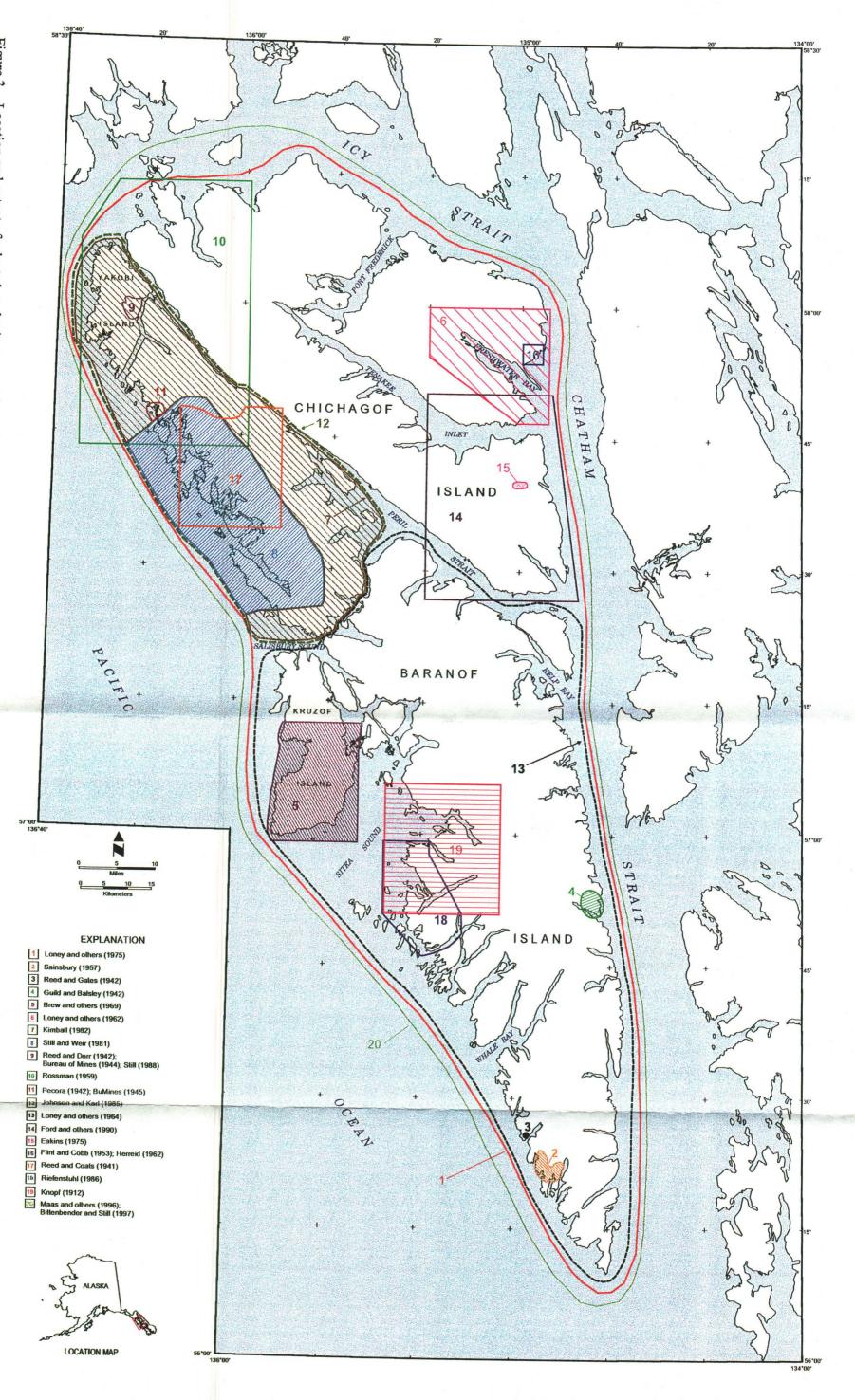
for the use of their extensive communications network established in the area. Ron Baer, Forest Service, Sitka, contributed minerals information that was not otherwise available. Superior accommodations and logistical support were provided by Jake Yearty, skipper of the M/V Ocean Ranger and by Gary McWilliams, skipper of the M/V Hyak. Coastal Helicopters and Ward Air of Juneau and Mountain Aviation of Sitka provided reliable air service. Personnel from the Forest Service's Hoonah Ranger Station provided boat and vehicle transportation to road networks outside of the main Hoonah road system.

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PREVIOUS STUDIES

There have been several geologic and mineral resource assessments conducted in the Chichagof and Baranof Islands area since the original discoveries of gold-bearing quartz veins near Sitka in 1871 (Fig. 3). A list of publications is presented in the bibliography of this report (p. 133). The following is a description of the more significant work completed in the study area.

Wright and Wright (1905, 1906) prepared the first summaries of mining developments in the Sitka Mining District in 1904 and 1905. Several other USGS workers compiled annual summaries of mineral activity in Alaska that contain a review of the Sitka Mining District. These include: Wright (1906, 1907a, 1908a, 1909), Knopf (1910, 1911), Brooks (1911a, 1911b, 1912, 1913, 1914, 1915, 1916, 1918,



1923, 1925), Burchard (1914, 1920), Chapin (1916), Martin (1919, 1920), Brooks and Martin (1921), Brooks and Capps (1924), Buddington (1925, 1926), Moffit (1927), and Smith (1926, 1929, 1930a, 1930b, 1932, 1933, 1934a, 1934b, 1936, 1937a, 1937b, 1938, 1941, 1942a, 1942c, 1942e).

Examinations of the geology, mineral deposits, and geochemistry of various parts of the study area have been completed by USGS workers. The first extensive study of the Sitka Mining District was completed by Knopf (1912). Overbeck (1919) produced a compilation of the geology and mineral resources of the west coast of Chichagof Island. Reed and Coats (1941) summarized the geology and ore deposits of the Chichagof Mining District. Pecora (1942) described the nickel-copper deposits on the west coast of Chichagof Island, near Mirror Harbor. Rossman (1959) produced a report detailing the geology and ore deposits of Northwestern Chichagof Island. Loney, Condon, and Dutro produced a geologic map of the Freshwater Bay Area, Chichagof Island (Loney and others, Loney, Berg, Pomeroy, and Brew compiled a reconnaissance geologic map of Chichagof and Northwestern Baranof Islands (Loney and others, 1963). Berg and Hinckley (1963) produced a reconnaissance geologic map of Northern Baranof Island. Loney, Brew, Muffler. and Pomerov produced reconnaissance geologic map of Chichagof, Baranof, and Kruzof islands (Loney and others, 1975). Decker (1980a) produced a geologic map of western Chichagof Island. Johnson and Karl (1982) generated a reconnaissance geologic map of the Western Chichagof and Yakobi Islands Wilderness Area and a final geologic map in 1985 (Johnson and Karl, 1985). The most recent geologic map of Southeastern Alaska is by Gehrels and Berg (1992), and includes the Chichagof and Baranof Islands study area.

Several USGS reports detail the geology and mineral deposits of the West Chichagof/Yakobi Islands Wilderness Area. Analytical results from various types of samples taken in the wilderness area were compiled in 1980 (Hessin and others, 1980). A series of geochemical reports were produced in 1982 showing the distribution of individual elements from stream sediment samples, water samples, and heavy-mineral concentrate samples taken within the wilderness area (Hessin, 1982; Hessin and Crenshaw, 1982; Hessin and others, 1982a-f, Hessin and Day, 1982; Hessin and Hoffman, 1982). Johnson and Elliott (1984a-k) produced geochemical maps of individual elements from bedrock samples taken in the wilderness area in 1984. Johnson. Kimball, and Still compiled a report on the mineral resource potential of the wilderness area in 1982 (Johnson and others, 1982).

More site-specific work by USGS workers in the Chichagof-Baranof study area include reports on: Iyoukeen Cove (Burchard, 1920a; Stewart, 1932b; Twenhofel and others, 1949; Flint and Cobb, 1953); Red Bluff Bay (Guild and Balsley, 1942; Kennedy and Walton, 1946a); Bohemia Basin (Reed and Dorr, 1942; Kennedy and Walton, 1946b); Mirror Harbor (Kennedy and Walton, 1946a); Snipe Bay (Reed and Gates, 1942); Redfish Bay (Sainsbury, 1957); and the Apex El Nido area (Twenhofel, 1949).

E. H. Cobb of the USGS compiled metallic mineral resource maps for the Juneau, Mt. Fairweather, Port Alexander, and 1:250,000-scale quadrangles (Cobb, 1972a-d). He also wrote summaries of references to the mineral occurrences in the same quadrangles (Cobb. 1978a-d). H. C. Berg completed a report detailing the regional geology. metallogenesis, and mineral resources of Southeastern Alaska, by quadrangle (Berg, 1984). Brew, Drew, Schmidt, Root, and Huber developed a methodology to estimate the undiscovered locatable mineral resources throughout the Tongass National Forest (Brew and others, 1991). The report discusses a number of mineral deposits in the current study area. Goldfarb and Miller (1997) edited a compilation of papers on the mineral deposits of Alaska that also mentions a number deposits in the Chichagof-Baranof study area.

Several reports pertaining to the mineral deposits in the area have been prepared by Bureau of Mines workers. One report describes the status of mining in the Chichagof Mining District (Thorne, 1967). Mineral assessment reports address the west part of Western Chichagof Island (Still and Weir, 1981) as well as adjacent parts of Chichagof Island and Yakobi Island (Kimball, 1982). A geochemical report describes the distribution of gold, platinum, palladium, and silver in parts of Bohemia Basin (Still, 1988).

Site-specific Bureau of Mines publications on mines in the area include reports on the Chichagof Mine (Humphrey, 1936a; Metz, 1978); the Hirst-Chichagof Mine (Humphrey, 1936b, 1938; Metz, 1978); Yakobi Island nickel (or Bohemia Basin; U. S. Bureau of Mines, 1944; Kennedy, 1944; East and others, 1948); Mirror Harbor nickel deposits (U. S. Bureau of Mines, 1944b; Traver, 1948); Snipe Bay nickel-cobalt deposits (Foley, 1989); Slocum Arm molybdenum (Thorne, 1952); diamond drilling of the Gypsum-Camel (or Camel Gypsum) prospect at Iyoukeen Cove (Jermain and Rutledge, 1952); and the Lucky Devil claims (or Mt. Baker; Thorne, 1960).

Geologists and mining engineers from the Alaska Territorial Department of Mines and its successor, the Division of Mines and Minerals, reported on specific mineral properties and mineralized areas in the Chichagof-Baranof area between 1918 and 1968. These reports are listed in Table 1, along with other reports published by the two agencies.

Table 1. Alaska Territorial Dept. of Mines and Division of Mines and Minerals reports

	Property				
Author	Author's	This report	Date		
Ballard Slocum Arm Molybdenite		Slocum Arm (P95)	1968		
Bush and Kenly	Lucky Devil mining claims	Mt. Baker (P44)	1962		
Gustafson	Camel Gypsum	same (P20)	1946		
Herreid	Camel Gypsum/Pacific Gypsum	same (P20)	1962		
Holdsworth and Williams	Red Bluff Bay	same (P138)	1953		
Laney	Alaska Nickel Mines	Mirror Harbor (P45)	1942		
McPhar Geophysics Ltd.	Chichagof area	-	1961		
Racey	New Chichagof Mining Syndicate	same (P49)	1938		

	Property				
Author	Author's	This report	Date		
Roehm	Lucky Strike	Koby (P31)	1936f		
Roehm	Alaska Gold Digger group	American Gold Company (P69)	1936c		
Roehm	Chichagof Creek group	Helen Chichagof (P76)	1936b		
Roehm	Goldwin group	same (P13)	1936d		
Roehm	New Chichagof Mining Syndicate	same (P49)	1936e		
Roehm	Mike Wall prospect	Woll (P82)	1936g		
Roehm	Slocum-Grunter prospect	Cobol Mine (P91)	1936h		
Roehm	Green Lake Group	same (P128)	1938a		
Roehm	Halleck Island	same (P109)	1938b		
Roehm	Krestof Group	same (P107)	1938c		
Roehm	Little Blonde & High Grade Groups	same (106)	1938d		
Roehm	Bohemia Tunnel	Bohemia Basin (P11)	1938e		
Roehm	Lucky Chance Mine	same (P135)	1940		
Ryason	Mt. Baker Copper prospect	same (P44)	1961		
Smith	Doolth Peninsula		1924		
Stewart	Mineral Resources - Chichagof Is.		1931		
Vevelstad	Yakobi Island drill logs	Bohemia Basin (P11)	unknow n		
Williams	El Nido Mine	Apex El Nido (P17)	1955		
Winchell	Alaska Nickel Mines	Mirror Harbor (P45)	1918		

Several unpublished reports and theses on mineral locations in the area have been completed and include: an M.S. thesis on wall-rock alteration at the Chichagof and Hirst-Chichagof Mines (Dadoly, 1987); reports on the Hirst-Chichagof Mining Company (Fiedler, 1941b; Kazee, 1941); New Chichagof Mining Syndicate (Nelson, 1932); an M.S. thesis on the Takanis copper-nickel-cobalt prospect, Bohemia Basin (Jirik, 1982); Bohemia Basin nickel

(Ricker, 1941); Alaska Nickel Mines/Mirror Harbor (Flemming, 1917; Rogers, 1917; Healy, 1918; Jackson, 1918; Sanford, 1942; Traver, 1944); Apex El Nido Mine (Holmes, 1941); Mt. Baker copper prospect (Moerlein, 1971); report on several Chichagof Island prospects (Nelson, 1931a); Cobol Mine (Williams, 1928; Ship and Shipman, 1938); molybdenum ore dressing at Cobol (Wells, 1952); E. B. Sparling's Haywire Group (or Apex and El Nido; Decker, 1931);

Helen (Chichagof) Group (Nelson, 1932); Slim and Jim copper prospect (Storm, 1917); a Ph.D. thesis on the Cretaceous subduction complex on Western Chichagof Island (Decker, 1980b); an

M.S. thesis on the geology of the Goddard Hot Springs area (Riefenstuhl, 1983).

MINING HISTORY/PRODUCTION

The history of mining activity in the Chichagof-Baranof area extends from the early 1870's to the present. Mineral production came predominantly from the Chichagof and Hirst-Chichagof Mines on the west side of Chichagof Island, but other sites recorded production as well. A summary of mine production in the study area is presented in Table 2.

The earliest mining activity in the study area took place on the Indian River near Sitka in 1871 (DeArmond, 1997a). No significant developments followed in the Indian River area. but additional discoveries were made in 1872 at the Stewart property in Silver Bay, southeast of Sitka. By 1879, a 10-stamp mill was erected on the Stewart property (Knopf, 1912). About the same time a 5-stamp mill was erected at the Lucky Chance Mine, also in the Silver Bay area, although exact details of this mine's development are unknown (Roehm, 1940). The gold rush to Juneau, which began in 1880-81, prompted an exodus from Silver Bay, and mining activity slowed considerably in the area.

Early prospecting also took place in the vicinity of Yakobi Island. Gold was discovered at the Bon Tara Mine near the eastern tip of the island, in 1887. About \$1,100 worth of gold (55 oz) was recovered from the property (Overbeck, 1919). Yakobi Island was also the site of the Bohemia Basin nickel-copper-cobalt discovery in 1919 (Reed and Dorr, 1942). The area was drilled extensively during World War II (U.S. Bureau of Mines, 1944a; Kennedy and Walton,

1946b). The International Nickel Company (INCO) continued drilling the deposit in the 1950's (Kimball, 1982). Later, Inspiration Development Company completed 29,000 feet of drilling at Bohemia Basin between 1972 and 1979. They established a resource of about 24 million tons of mineralized rock (Thornsberry and DeWilliam, 1982).

Before the discovery of the larger Bohemia Basin deposit, a copper-nickel-cobalt deposit was found at Mirror Harbor on the northwest side of Chichagof Island in 1911 (Overbeck, 1919). Mirror Harbor was also drilled by the Bureau of Minesas part of its strategic minerals program during World War II (U.S. Bureau of Mines, 1944b).

The discovery of gold at Klag Bay in 1905 (Knopf, 1912) was the first chapter on what would become the principal gold-producing region of the study area. A quartz outcrop found at the Degroff Mine (later known as the Chichagof Mine) was so rich that ore was sacked and shipped directly to the Tacoma Smelter in Washington State (Still and Weir, 1981). The Golden Gate Mine was discovered in 1905 along the same fault that hosted mineralized rock at the Degroff Mine (Knopf, 1912). The Jumbo Mine was discovered in 1909, and 1,450 oz of gold were produced from a high-grade pocket found near the beach in Klag Bay (Still and Weir, 1981). This property was operated separately from the Degroff and Golden Gate Mines. A power plant was installed at Sister Lake in 1909 to provide power for the Degroff and Golden Gate properties. Operations at these two mines were consolidated in 1911 under the control of the Chichagof Mining Company (Reed and Coats, 1941). The consolidated mine operated almost continuously until 1942, and produced over 600,000 tons of ore, containing nearly 660,000 oz of gold and 195,000 oz of silver. Intermittent cleanup operations at the mine and reworking of old tailings continued until 1973 (Still and Weir, 1981).

The Alaska Chichagof Mine, also located in the Klag Bay area, was discovered in 1928, and incorporated into the Alaska Chichagof Mining Company by 1931. A test shipment was made in 1932. The Chichagof Mining Company optioned the property in 1936, and their records indicate that 660 oz of gold had been recovered from the mine (Reed and Coats, 1941; Still and Weir, 1981).

The Hirst-Chichagof Mine was discovered in 1905 at Kimshan Cove, north of Klag Bay. By 1918 the Hirst-Chichagof Mining Company was formed (Reed and Coats, 1941). The company began mining in 1922, and continued until 1943. The mine produced approximately 131,000 oz of gold and 33,000 oz of silver from over 140,000 tons of ore (Still and Weir, 1981).

The gold-bearing quartz veins at the Apex and El Nido properties turned out to be the next most productive after the Chichagof area mines. The veins were discovered west of Pelican by J. Cann in 1919 and 1920. The two mines that were developed produced over 17,000 oz of gold and 2,400 oz of silver during intermittent operation from 1924-1939. The majority of production came from the Apex workings (Holmes, 1941).

Other discoveries on the west side of Chichagof Island were less productive. The Mine Mountain veins were discovered in 1921 (Reed and Coats, 1941). Production between 1933 and 1935 amounted to about \$3,500 worth of gold (about 100-150 oz; Kimball, 1982). The Koby gold prospect was discovered in 1933 by J. Koby (Roehm, 1936f). Most development work was completed by 1936, but no production was reported from the prospect (Kimball, 1982).

Gold and base metals were not the only products mined in the Chichagof-Baranof area. The gypsum deposit of the Pacific Coast Gypsum Company was discovered at Iyoukeen Cove in 1902. Active mining commenced in 1906 and continued intermittently until 1923 (Flint and Cobb, 1953). Nearly 500,000 tons of gypsum were removed from the site (Stewart, 1932b).

Several companies have recently explored deposits in the district. Sites receiving attention include the Chichagof, Hirst-Chichagof, Apex El Nido, Warm Springs Bay, and Silver Bay areas.

Table 2. Summary of mine production

Mine (Plate 1 #)	Activity Years	Gold (oz.)	Silver (oz.)	Gypsum, tons
Bon Tara (P12)	1887	55		
Apex El Nido (P17)	1924-28, 1934-35, 1937-39	17,000	2,400	
Mine Mountain (P34)	1933-35	100-150		
Jumbo (P70)	1909	1,450		
Chichagof (P75)	1912-1942	659,955	195,000	
Hirst-Chichagof (P60)	1922-1943	131,000	33,000	
Alaska Chichagof (P71)	1936	660		
Cobol (P91)	1926-1959	100		
Iyoukeen Cove (P21)	1906-23			500,000
TOTAL PRODUCTION		810,370	230,400	500,000

GENERAL GEOLOGY

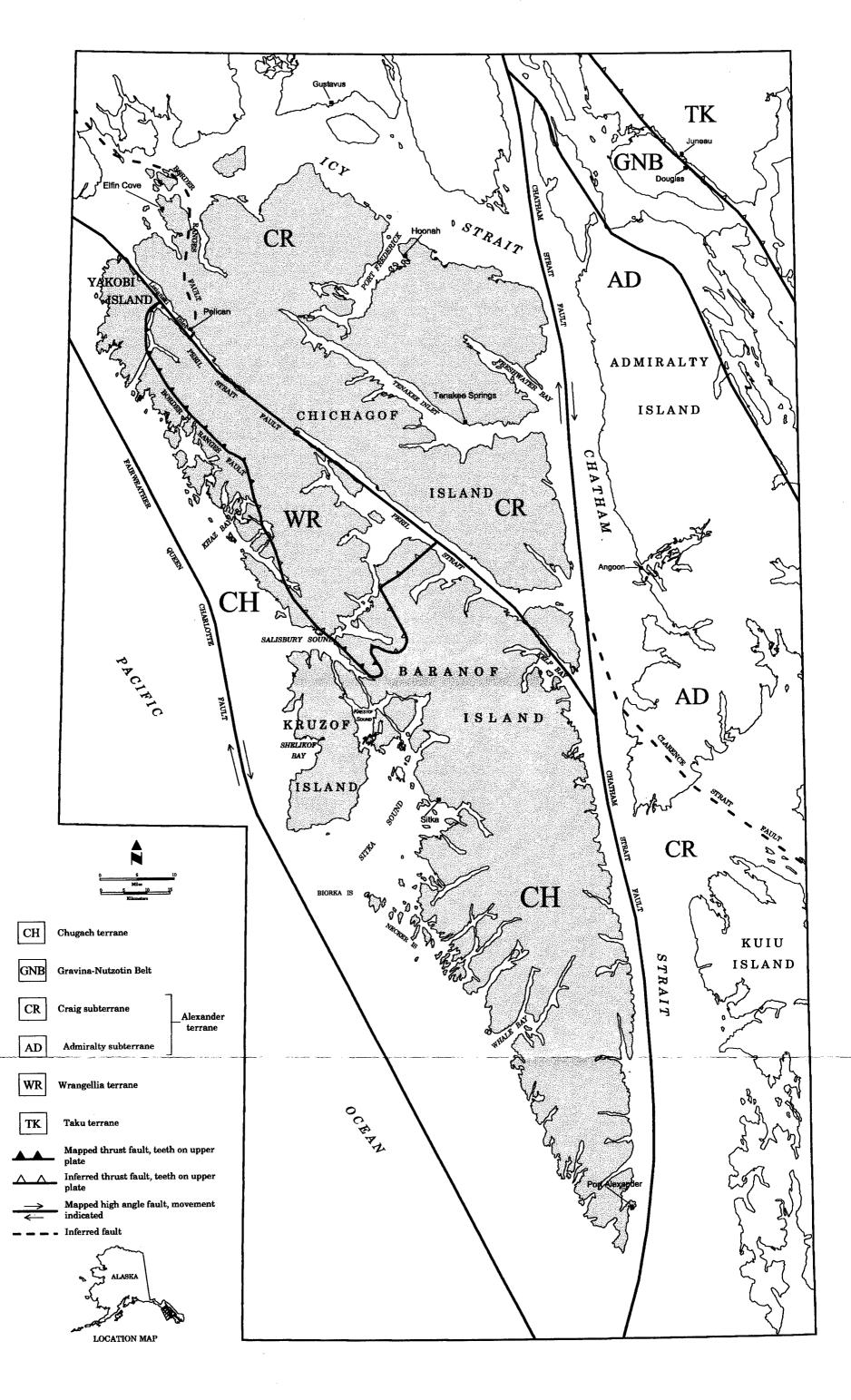
The Chichagof-Baranof study area is underlain by rocks belonging to three tectonostratigraphic terranes (Berg and others, 1978). From west to east these are the 1) Chugach, 2) Wrangellia, and 3) Alexander terranes (Fig. 4).

The Chugach terrane extends from Baranof Island around the Gulf of Alaska to Kodiak Island (Silberling and others, 1992). It lies outboard of the Wrangellia and Alexander terranes and makes up most of Baranof Island and the west side of Chichagof Island. On Chichagof and northern Baranof Island the terrane is separated from the Wrangellia and Alexander terranes to the northeast by the west-vergent Border Ranges thrust fault and the Peril

Strait right-lateral, strike-slip fault, respectively. East of Baranof Island the Chatham Strait regional, strike-slip fault separates the Chugach terrane from the Alexander terrane (Gehrels and Berg, 1994).

Chugach terrane rocks in the study area are made up of marine sedimentary and volcanic rocks that have been interpreted as a deformed flysch and melange sequence that forms a continental margin accretionary complex (Decker and others, 1979; Plafker and others, 1976; Plafker and others, 1977). Dominant units are the Cretaceous Kelp Bay Group that forms the melange and the Cretaceous Sitka Graywacke flysch sequence. The Kelp Bay

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Group west of the Border Ranges Fault includes the Pinnacle Peak Phyllite, the Waterfall Greenstone, and metavolcanic and metasedimentary rocks of the Khaz formation (Johnson and Karl, 1985; Karl and others, 1982). These units have been incised by Tertiary high-angle faults that include the northwest trending Sitka fault zone (Loney and others, 1975, Brew, 1997). These faults have been instrumental in the localization of gold-bearing quartz veins in the Klag Bay and Silver Bay areas.

The Wrangellia terrane extends along the northwest margin of North America from Vancouver Island to south-central Alaska (Jones and others, 1977; Silberling and others, 1992). Within the study area, Wrangellia terrane rocks are located on southwestern Chichagof Island and northwestern Baranof Island. They are separated from the Alexander terrane on the northeast by the Peril Strait fault. The Border Ranges fault separates Wrangellia from the Chugach terrane to the west and south (Gehrels and Berg, 1994).

The oldest Wrangellia terrane rocks found in the study area are late Paleozoic in age (Berg and others, 1978; Johnson and Karl, 1985). These rocks consist of a sequence of marine sedimentary and volcanic rocks. overlain by the Triassic Goon Dip Greenstone and Whitestripe Marble (Loney and others, 1975). These two units have been correlated with the Late Triassic Nickolai Greenstone and Chitistone Limestone of the Wrangellia terrane in the Wrangell Mountains (Plafker and others, 1976). Minor Jurassic sedimentary rocks are also included in the Wrangellia terrane as well as a Jurassic tonalite (Berg and others, 1978; Loney and others, 1975). The late Paleozoic Wrangellian depositional environment has been interpreted as an oceanic volcanic arc followed by rifting in Triassic time (Gehrels and Berg, 1988, 1994).

The Alexander terrane hosts the oldest rocks in the study area. The terrane is exposed throughout southeast Alaska and extends northward into southern Alaska (Silberling and others, 1992). The terrane has been divided into two subterranes, of which the Craig subterrane is found within the study area. It is located northeast of Peril Strait and Lisianski Inlet on the northeast side of Chichagof Island. Within the study area, the Alexander terrane is separated on the southwest from the Wrangellia and Chugach terranes by the Peril Strait fault and the Border Ranges fault. East of Chichagof Island, the Chatham Strait fault separates the Craig and Admiralty subterranes of the Alexander terrane (Silberling and others, 1992; Gehrels and Berg, 1994).

The Alexander terrane consists of Paleozoic sedimentary, volcanic, and intrusive rocks. Bedded units of the terrane include clastic sedimentary rocks of the Silurian Point Augusta Formation, the Silurian-Devonian Kennel Creek Limestone, the clastic and overlying limestone members of the Middle and Upper Devonian Cedar Cove Formation, the Upper Devonian Freshwater Bay andesitic and basaltic volcanics, and the Mississippian Iyoukeen Formation limestones (Loney and others, 1975). Intrusive rocks include the Silurian or older Sitkoh Bay alkalic suite (Ford and others, 1990). Alexander terrane rocks have been interpreted as evolving in an oceanic volcanic arc environment followed by a more stable, shallow marine setting (Gehrels and Saleeby, 1987; Gehrels and Berg, 1994).

Several plutonic belts have been distinguished in southeast Alaska, of which two occur in the Chichagof-Baranof study area: the "FairweatherBaranof' belt and the "Muir-Chichagof' belt (Brew and Morrell, 1983; Brew, 1994). The Fairweather-Baranof belt includes early to mid-Tertiary granodiorites, tonalites, trondhjemites, and gabbros on Baranof Island, on the west side of Chichagof Island, and on Yakobi Island. The Tertiary gabbroic rocks at the head of Tenakee Inlet are also included in this belt. Several outcrops of Mesozoic ultramafic rocks, particularly those at Red Bluff Bay and between Red Bluff Bay and Silver Bay have been prospected mainly for chromium and are included in this belt (Brew and Morrell, 1983; Loney and others, 1975).

Brew and Morrell's (1983) Muir-Chichagof belt includes the Cretaceous granodiorites, tonalites, diorites, and gabbros that crop out in an area from southwest of Peril Strait and Lisianski Inlet to northwest of the head of Tenakee Inlet. Scattered outcrops of granodiorite, quartz monzonite, and diorite northeast of this area are also included in the Muir-Chichagof belt (Brew and Morrell, 1983; Loney and others, 1975). The Silurian or older Sitkoh Bay alkalic suite (Ford and others, 1990) defines a third belt on northeast Chichagof Island, which was intruded into the Alexander terrane prior to accretion.

The Quaternary volcanic field at Mount Edgecumbe on Kruzof Island contains basalts, andesites, and dacites and represents the youngest lithified rocks in the study area (Brew and others, 1969; Brew, 1994). Volcanic activity ceased with explosive eruptions dated at

about 5,000 years before present (Riehle and Brew, 1984).

Quaternary surficial sedimentary deposits are found along most drainages. These include glacial, glaciofluvial, alluvial, and colluvial deposits.

The structural grain of the Chichagof-Baranof study area is generally oriented northwest-southeast. This includes terranes and terrane boundaries, regional fault patterns, outcrop patterns of both bedded and intrusive rocks, bedding, and metamorphic foliation. In detail, the structural patterns of the area are complex and include areas disrupted by multiple episodes of folding and faulting. Intense folding ended by early Tertiary, but movement on faults in the area continues to the present (Loney and others, 1975; Gehrels and Berg, 1994).

Metamorphic belts have been defined across southeast Alaska by Brew and others (1992) and by Dusel-Bacon (1994). The metamorphism in the Chichagof-Baranof study area is generally related to accretionary tectonic events as well as to local intrusive activity. The degree of metamorphism in the area ranges from albite-epidote hornfels to possibly pyroxene hornfels facies contact metamorphic grades and from prehnite-pumpellyite to greenschist facies regional metamorphic grades (Brew and others, 1992; Dusel-Bacon, 1994).

LAND USE AND RESOURCE ISSUES

Land use and resource issues have been examined with respect to the 13 KMDA's in the Chichagof-Baranof area. The land use designations are those employed by the Forest

Service, which is the dominant Federal land management agency in the study area. Various sources were used to determine land use designations including the 1996 Tongass Land Management Plan (TLMP), a January 21, 1998 draft copy of a 1997 Forest Plan map, and Alaska Department of Fish and Game information on anadromous fish streams. A discussion of the land use designations within each KMDA and potential conflicts between land use designations and resource development are presented in each of the KMDA descriptions in the "Known Mineral Deposit Areas" section. The location and physical extent of each KMDA was compared to the boundaries of the land use designations listed below (A-O). In many cases a visual estimate was made to determine the amount of land covered by various land use designations in each KMDA.

A rating system is provided to estimate the scope of potential conflict between land use designations and resource development. Information used to determine the ratings includes the type and size of the deposits within the KMDA's and the potential mining method if developed, as well as possible access options for development. Ratings of 'none' through '3' are described following Table 3 below.

Below is a description of the various land use designations employed by the Forest Service. A table summarizing the land use designations within each KMDA and a rating of potential conflicts is also provided (Table 3).

A - The 'Wilderness' assessment was made from information provided on the 1997 Forest Plan map. This designation is characterized by extensive unmodified natural environments, and is withdrawn from all mineral entry. An act of Congress is required to withdraw areas from wilderness status before mineral development would be permitted. An exception to the restriction on mineral development is the existence of claims with valid existing rights that were located prior to the designation of

wilderness. In this case access and mineral development would be allowed. Only the Doolth Mountain KMDA has claims with valid existing rights within a wilderness area.

- B The 'Land Use Designation II (LUD II)' assessment was made from information provided on the 1997 Forest Plan map. This designation is managed in a roadless state to preserve wildland character, and is open to locatable mineral entry with potentially significant restrictions.
- C No KMDA's encompassed any 'Special Interest Areas.'
- D No KMDA's encompassed any 'Wild & Scenic River Candidates.'
- E -The 'Enacted Municipal Watershed' assessment was made from information provided on the 1997 Forest Plan map. This designation is mandated for Municipal water supply purposes. Municipal watersheds are closed to all mineral entry. Silver Bay was the only KMDA to encompass enacted Municipal watershed.
- F No KMDA's encompassed any 'Experimental Forest.'

G -The 'Deer Hunting' assessment was made from the 1996 Community Deer Harvest map of TLMP. This resource mapping datum is based on average harvest levels of Sitka black-tail deer for the years of 1987 - 1994. The location and physical extent of the KMDA was compared to known average harvest levels within hunting units or parts of hunting units encompassed by the KMDA. 'Low' deer harvest levels were attributed to areas averaging less than 100 deer per year, 'moderate' as averaging 100 to 500 per

year, and 'high' harvest levels as averaging over 500 per year.

H - The 'Anadromous Fish Streams' assessment was made from information provided by the Alaska Department of Fish and Game, 1997. This resource mapping datum identifies all streams supporting any anadromous fish. Anadromous streams outside KMDA boundaries that may be affected by mineral development are also considered.

I - The 'Recreation' assessment was made from the 1996 Recreation Places Inventory map from TLMP. This designation includes both primitive and semi-primitive recreation. The areas are managed for a wide variety of recreation activities in a predominantly natural setting. They are considered particularly attractive to users engaged in recreation activities and receive recurring use. They include beaches, streamside or roadside areas, trail corridors or other features. A semi-primitive designation allows road-building. Recreation areas are open to mineral entry.

J - The 'Recreation Developments' assessment was made from the 1996 Recreation Places Inventory map from TLMP. Recreation developments include shelters, observation sites, campgrounds, cabins, and picnic sites. These developments are withdrawn from all mineral entry.

K - The 'Tourism Areas' assessment was made from the 1996 Recreation Places Inventory map from TLMP. Tourism areas are recreation areas important for commercial recreation and tourism, which are of value to the local and regional economy. They include areas used by outfitters and guides, resorts, charter boat operations, and bus lines as well as areas identified as attractions in tourism brochures.

L - The 'Timber Harvest' assessment was made from information provided on the 1997 Forest Plan map. This designation marks areas for timber production and is open to mineral development. Only the Slocum Arm KMDA includes any 'Timber Harvest' designated areas.

M - The 'Minerals Prescription Candidate' assessment was made from information provided on the 1997 Forest Plan map. This designation encompasses areas managed to encourage and facilitate locatable mineral exploration and development in an environmentally sound manner. The Lisianski and Bohemia Basin KMDA's were the only ones to include minerals prescription areas.

N-The 'State Land' assessment was made from information provided on the 1997 Forest Plan map. State land includes all intertidal lands. All the KMDA's encompass intertidal lands except for the Hill and Slocum Arm areas. In the Doolth Mountain area, significant resources are situated on State land in the intertidal zone. Intertidal lands are open to mineral entry. The Silver Bay and Warm Springs Bay KMDA's contain blocks of State land outside the intertidal zone.

O - The 'Private Land' assessment was made from information provided on the 1997 Forest Plan map as well as from master title plats and individual maps of mineral patent lands. Private land locations having the most significance for mineral development are the patented mining claims. The KMDA's with patented mining claims are Doolth Mountain, Bohemia Basin, and Silver Bay. The Silver Bay and Warm Springs Bay KMDA's include private land, other than patented mining claims. Mineral development is allowed on private land.

Table 3. Summary of land use and resource issues for each KMDA

			LAND USE / RESOURCE ISSUE													
		A	В	С	D	Е	F	G	Н	1	J	K	L	М	И	0
<u>K</u> N	DOOLTH MOUNTAIN	3	,	•	-	•	•	1	3	1	,	2	•	ı	3	3
O. W	WEST COAST GOLD	3	-	•		•	1	1	2	1	•	2	ı	•	•	-
N	LISIANSKI	2	1	•	•	-	•	1	2	2	•	2	•	2	•	-
M I	SILVER BAY	-	-	-	1	1	ı	2	2	2	2	2	-	•	1	1
N E	BOHEMIA BASIN	1	1	-	•	•	-	1	3	2	-	2	-	3	ı	3
R A L	MIRROR HARBOR	3	-	-	-	-	-	1	1	2	1	2	-	-	1	-
	SNIPE BAY	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-
D E P	RED BLUFF	3	-	-	-	-	-	1	2	1	-	2	•	•	-	-
OS	HILL PROSPECT	3	-	-	-	_	-	•	1	-	-	-	-	-	•	-
I	WARM SPRINGS BAY	-	-	-	-	•	•	1	1	3	-	3	-	-	1	2
<u>A</u>	SLOCUM ARM	3	-	-	-	-	-	1		-	-	-	•	1	-	-
R E	MT. BAKER	3	-	-	-	-	-	1	2	1	-	2	-	-	-	-
A S	MOUNT MURAVIEF	-	-	-	-	-	-	1	2	1	-	-	-	-	-	-

Ratings of potential land use and resource issue conflicts:

- (-) None- No land use conflicts; no effect identified
- (1) Minor- Land use conflicts possible, but unlikely to affect mineral development; a slight effect identified which may be easily mitigated.
- (2) Moderate- Land use designations affect some mineralized areas; any effect may be mitigated by site specific stipulations.
- (3) Major- Land use designations affect most prominently mineralized areas; a considerable effect is identified requiring extensive mitigation measures and/or relocation.

Issues A-O defined as follows:

- A Wilderness/Monument
- B Land Use Designation II (LUD II)
- C Special Interest Area
- D Wild & Scenic River Candidate
- E Enacted Municipal Watershed
- F Experimental Forest
- G Subsistence Deer Hunting
- H Anadromous Fish Streams
- I Recreation
- J Recreation Developments
- K Tourism Areas
- L Timber Harvest
- M Minerals Prescription Candidate
- N State Land
- O Private Land

KNOWN MINERAL DEPOSIT AREAS

Known mineral deposit areas (KMDA's), as used in this report, are areas with a concentration of mineral occurrences of a single type. The boundaries of the KMDA's were delineated using information derived from the current investigation as well as from past Bureau of Mines and USGS studies. The areas have been defined to facilitate a discussion of the mineral endowment in the Chichagof-Baranof

study area. By limiting the KMDA's to a single deposit type, a more meaningful comparison can be made regarding the mineral development potentials within the study area. The format is designed to provide a comparative overview for land managers, who are responsible for mineral activities on Federal, State, Municipal, and Native lands.

Vein Gold

There are four KMDA's in the study area that are defined by fault controlled, low sulfide, vein gold deposits: 1) Doolth Mountain, 2) West Coast Gold, 3) Lisianski, and 4) Silver Bay. Gold-bearing quartz veins of the Doolth Mountain, West Coast Gold, and Silver Bay predominately hosted KMDA's are Cretaceous Sitka Graywacke or rocks of the Cretaceous Kelp Bay Group. The veins of the Lisianski KMDA are hosted in metamorphosed Paleozoic or Mesozoic volcanic and sedimentary rocks and Jurassic or Cretaceous diorite or granodiorite (Loney and others, 1975). Plate 1 shows the location of these KMDA's. Doolth Mountain, West Coast Gold, and Silver Bay quartz veins generally strike to the northwest, parallel to the regional structural grain. The Lisianski veins strike northeast to east, at a high angle to the northwesterly regional grain. 40 Ar/39 Ar data suggest that gold vein formation in all four KMDA's was the product of a short-lived Eocene thermal event (Taylor and others, 1994; Haeussler and others, 1995).

The Doolth Mountain KMDA accounts for almost all of the study area's precious metal production and almost all of the area's resources

of 675,000 oz of gold and 195,000 oz of silver. It is one of the areas most likely to be developed because of the relatively high tonnages and grades of its calculated resources and because it is covered by patented claims that allow for mineral development.

Evidence suggests only a moderate potential for economic deposits to be developed in the West Coast Gold and Lisianski KMDA's. Prospects in the West Coast Gold area have good geologic potential, but are limited in overall development potential because of the wilderness land use designation that covers the area, which prohibits mineral development. The data generated to date for the Lisianski prospects suggest restricted tonnages and therefore limited potential.

Examination of the mineral occurrences in the Silver Bay area indicates a small likelihood of locating an economic deposit. Despite the numerous quartz veins in the area, the veins are discontinuous and contain very spotty values.

Wilderness designations have a significant impact on the vein gold development potential in the study area. Outside the private holdings, all of the Doolth Mountain and West Coast Gold KMDA's are designated as wilderness where mining is prohibited. About half of the Lisianski KMDA is wilderness. Thirty-nine patented mining claims in the Doolth Mountain area,

which contain almost all the resources in the study area, are in-holdings (private property) within the wilderness and could conceivably be developed.

Doolth Mountain KMDA

Location / Access

A series of fault-controlled, vein gold deposits define the 5- by 6-mile Doolth Mountain KMDA, located 50 air miles north-northwest of Sitka on the west coast of Chichagof Island (Plate 1, KMDA no. 5). The area topography rises from sea level to the summit of Doolth Mountain at an elevation of 2,159 feet and ranges from flat lying, brushy, forested lowlands to cliffy, alpine areas. Klag Bay, Kimshan Cove, and Ogden Passage comprise the area waterways. Most of the area prospects are located at, or sufficiently close, to tidewater so that they can be easily accessed by foot. Waterways in the area can be accessed by float plane or boat from Sitka. Figures 5 and 6 show important mines, prospects, patented claims, and the general geology in the Doolth Mountain area.

History / Production

Gold was discovered at the Chichagof and Hirst-Chichagof deposits in 1905 (Knopf, 1912; Reed and Coats, 1941). The Chichagof Mine, initially financed on high-grade gold ore float, operated from 1906 to 1942. The Hirst-Chichagof Mine operated from 1922 to 1943. They jointly produced 791,000 oz of gold and 228,000 oz of silver from over 740,000 tons of ore (Still and Weir, 1981). The Jumbo Mine was discovered in 1909 and 1,450 oz of gold was reportedly mined from a high-grade pocket at the high tide

line. The Alaska Chichagof Mine was discovered in 1928. The Chichagof Mining Company operated this property in 1936 and recovered 660 oz of gold from 600 tons or ore using the Chichagof Mill facilities (Still and Weir, 1981).

Other prospects in the Doolth Mountain area include the McKallick Lode, Basoiniuer, Chichagof Prosperity, Baney, and American Gold Company. These prospects were explored between 1906 and World War II (Still and Weir, 1981). There is no production reported from these prospects, nor are there sufficient data to estimate resources.

Geology

The Doolth Mountain area is underlain by the Cretaceous Sitka Graywacke, which is a flysch and melange member of the Chugach tectonostratigraphic terrane. The flysch and melange represent an accretionary prism on the outboard margins of the terrane (Plafker and others, 1977). The Sitka Graywacke is composed of weakly metamorphosed sandstone, siltstone, mudstone, and massive graywacke, which generally strikes to the northwest and dips steeply to the southwest (Loney and others, 1975).

The Sitka Graywacke is pervasively fractured by a network of parallel to subparallel, northwest striking, steeply southwest dipping faults (Fig.

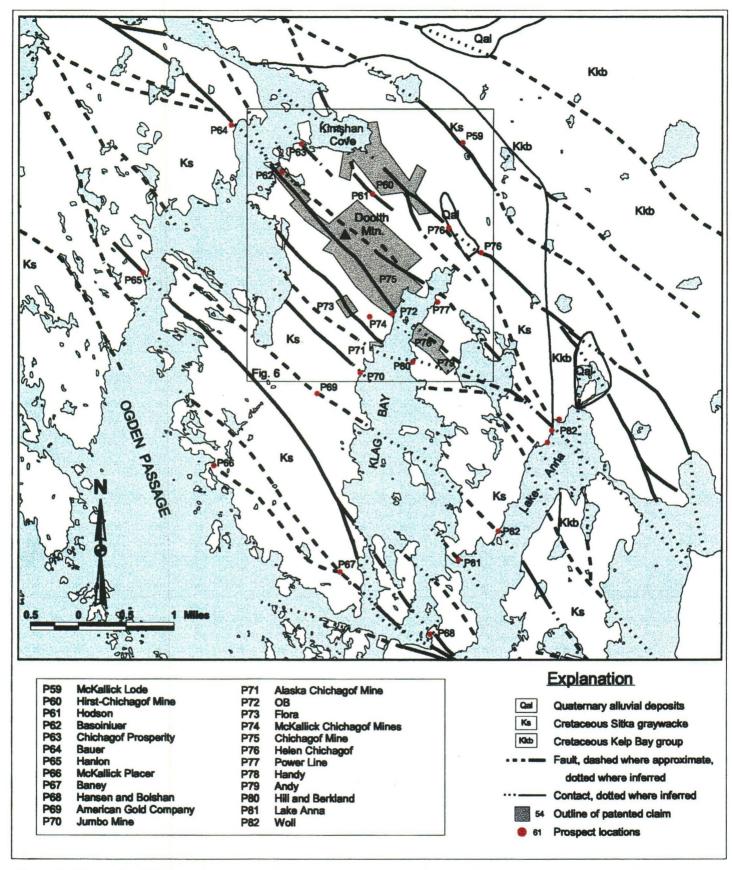
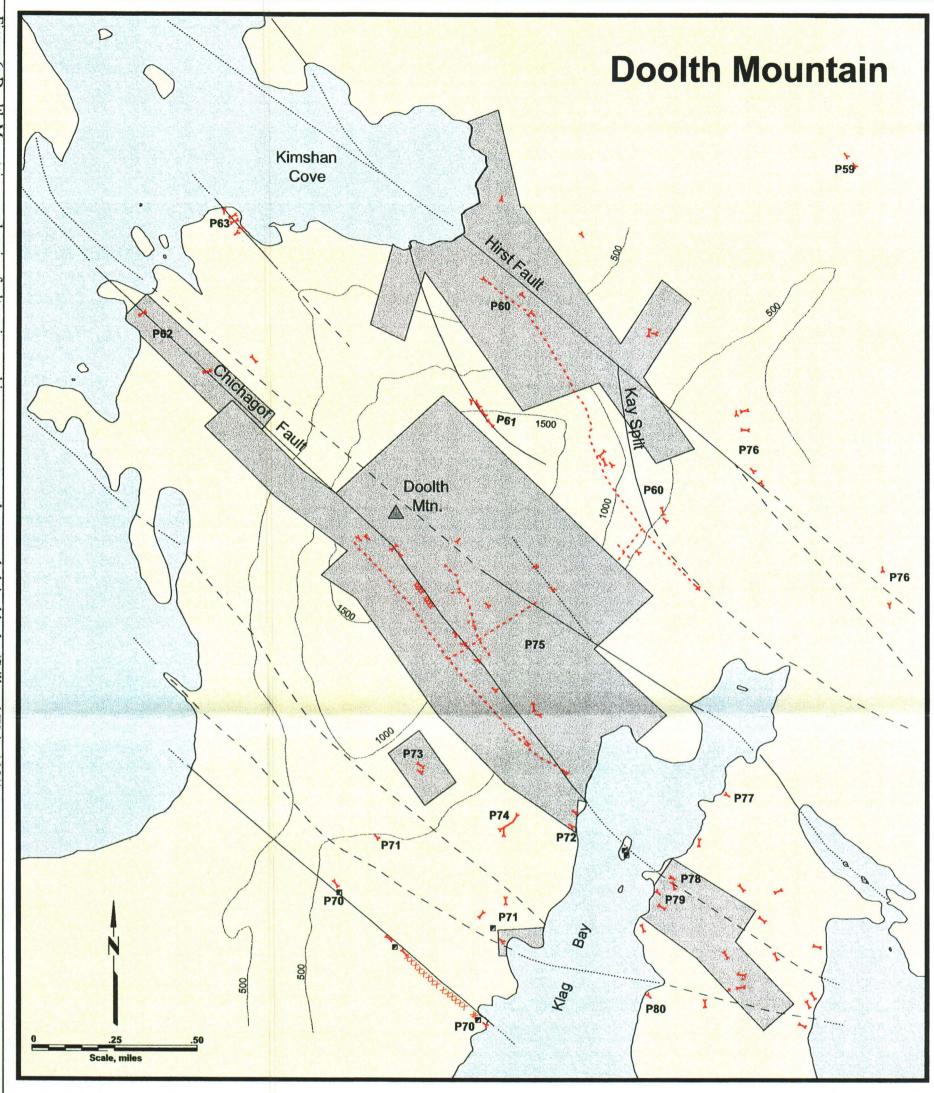
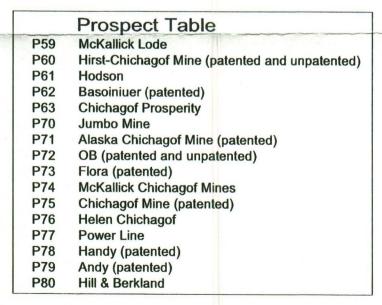
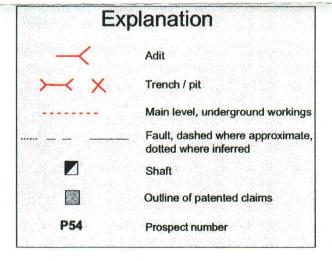


Figure 5: Greater Doolth Mountain area showing geology, prospects, and patented claims (Still and Weir, 1981; Johnson and Karl, 1985).







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All the mines in the Doolth Mountain KMDA and most of the significant prospects are located along these faults. In the vicinity of the mines, the faults generally strike more northerly and dip more steeply than other faults in the area and cut the foliation in the enclosing rocks at a higher angle. This change in orientation created releasing bends that allowed for increased fluid migration and mineral deposition. Felsic dikes were intruded along the faults and are invariably sheared and deformed by later fault movement. Gold-bearing quartz veins were emplaced along sections of the faults. Gold was deposited along ribbons in the quartz, which indicate that deposition coincided with fault movement and that the deposition was probably episodic (Still and Weir, 1981).

Gold mineralization in the area is centered around Doolth Mountain itself, with grades decreasing away from the mountain. The gold occurs as tiny specks in the quartz and also with sulfides. Sulfides make up less than three percent of the veins and consist of pyrite, arsenopyrite, galena, sphalerite, and chalcopyrite. About 70-90% of the gold was free-milling and the remainder was recovered in the sulfide concentrate (Still and Weir, 1981).

Eocene granitic plutons are located about three miles west of the Doolth Mountain area. ⁴⁰Ar/³⁹Ar data suggest that the gold-bearing vein formation and the granitic plutons are products of a short-lived Eocene thermal event. They are thought to be related to the subduction of a spreading center beneath the Chugach accretionary prism (Taylor and others, 1994, Haeussler and others, 1995).

Chichagof Mine (P75)

The Chichagof Mine is located near the head of Klag Bay on the south side of Doolth Mountain.

It is located along the Chichagof fault, which has an inferred strike length of at least 12 miles (Fig. 6).

The mine opened in 1905, when gold-bearing quartz float was discovered in a creek near the head of Klag Bay. Later that year, ore from a quartz outcrop was shipped to the Tacoma Smelter. The proceeds were used to finance a mill and further mining (Reed and Coats, 1941). From 1906 to 1942, the Chichagof Mine produced 660,000 oz of gold and 195,000 oz of silver from over 600,000 tons of ore (Still and Weir, 1981). Because of shortages of men and equipment created by World War II, the mine closed in 1942. From 1942 to 1973 small amounts of tailings were reworked. The mine and adjacent mineralized area is covered by 29 patented claims and ranks as the third largest lode-gold producer in Alaska (Still and Weir, 1981).

During 1978 and 1979, Bureau of Mines crews examined the Chichagof Mine surface and accessible underground workings and calculated resources. The following mine description and resource estimates are based on that investigation (Still and Weir, 1981). Resource calculations for the Big Croppings veins are from Golden Sitka Resources (1987), who completed additional work in that area.

At the Chichagof Mine tabular but irregular ore zones have a long dimension that plunges to the south and a short dimension parallel to strike. Ore zones have widths to 15 feet, strike lengths to 1,000 feet, and vertical heights to 1,800 feet. One 14-foot-wide stope averaged 6 oz of gold per ton, whereas the average tenor for the life of the mine was 1.10 oz of gold per ton. Mining reached a depth of 2,700 feet below sea

level. Underground workings explore the fault for 4,800 feet in a horizontal direction and 4,300 feet vertically. Twenty-three percent of the area explored by underground workings was mined. Almost all mine workings are currently inaccessible.

Resources:

1. Big Croppings area of Chichagof fault: Based on reopening of underground workings, diamond drilling, trenching, and detailed sampling of mine-car loads of ore, Golden Sitka Resources estimated a tonnage and grade for the Big Croppings veins as follows (Golden Sitka Resources Inc., 1987):

Probable: 17,800 tons at 0.4 oz of

gold per ton

Possible: 22,800 tons at 0.4 oz of

gold per ton

Inferred: 36,000 tons at 0.4 oz of

gold per ton

Total: 76,600 tons at 0.4 oz of

gold per ton (30,640 oz of

gold)

Inferred resources: (mining width ranging from 3 to 15 feet)

- 2. Unmined explored area bv underground workings--Mine records and geologic inference suggest 155,000 tons at 0.30 oz of gold per ton (46,500 oz of gold) and 0.09 oz of silver per ton (13.950 oz of silver) above the main haulage level; 308,000 tons at 0.30 oz of gold per ton (92,400 oz of gold) and 0.09 oz of silver per ton (27,720 oz of silver) below the main haulage level.
- 3. Golden Gate #3--26 Bureau of

Mines underground samples on 11 sample lines, with a 3-foot mining width, indicate 13,500 tons at 0.11 oz of gold per ton (1,485 oz of gold) and 0.04 oz of silver per ton (540 oz of silver).

4. Chichagof dump--38 Bureau of Mines surface samples on 4 lines (inadequate to estimate grade for whole dump) indicate approximately 200,000 tons having surface value of 0.04 oz of gold per ton and 0.012 oz of silver per ton.

Indicated resources:

Chichagof tailings--36 Bureau of Mines shelby-tube and shovel samples on 4 sample lines, mine records, company drill data, and resource calculations indicate 456,000 tons at 0.11 oz of gold per ton (50,160 oz of gold) and 0.03 oz of silver per ton (13,680 oz of silver).

Hypothetical resources:

Unexplored Chichagof claim area or very limited underground exploration--Mine records, geologic inference, and Bureau of Mines sampling of near-surface workings suggest 500,000 tons at 0.60 oz of gold per ton (300,000 oz of gold) and 0.18 oz of silver per ton (90,000 oz of silver).

In 1981, based on the above Bureau of Mines resource estimates, Exvenco, Inc. initiated environmental studies and conducted a sampling and exploration program at the mine. In 1983, Queenstake Resources, Ltd. and Exvenco, Inc., formed the Chichagof Joint Venture and obtained an option on the property. The joint

venture began an ambitious program of exploration, rehabilitation, and development at the mine.

In 1985, the joint venture evaluated the reprocessing of mill tailings and explored extensions of five vein structures. About 2,000 feet of underground drifting and 2,500 feet of drilling tested the vein systems. Metallurgical testing began, environmental studies continued, and permit applications were submitted (Golden Sitka Resources Inc., 1987).

In 1986, the joint venture rehabilitated the No. 2 shaft on the main level. The venture also considered new mine designs, including a barge-mounted mill and plant that could be inexpensively moved to other properties in the area (Golden Sitka Resources Inc., 1987).

In 1987, only limited fieldwork was done due to ownership and financial restructuring. The two joint venture partners and Vector Mining Company formed Golden Sitka Resources Inc. and raised \$2 million from an initial public offering on the Vancouver Stock Exchange (Golden Sitka Resources Inc., 1987).

In 1988, planned work, including a 5,250-foot drilling program, was halted after a fire destroyed the project's camp. The company had driven a bypass around an old production stope in the mine to access the face of the Golden Gate adit and planned to explore extensions of the vein systems by extending the adit and driving crosscuts. Golden Sitka Resources announced that operations at the project would be temporarily suspended.

Operations never resumed and the owners of the Chichagof property regained full control after Golden Sitka Resources' lease expired. The owners are considering options for permitting

and operating the project (Coldwell, 1998).

Hirst-Chichagof Mine (P60)

The Hirst-Chichagof Mine is located on the south side of Kimshan Cove on the north side of Doolth Mountain. It is located along the Hirst fault, which is parallel to and approximately 0.8 miles northeast of the Chichagof fault (Fig. 6).

The mine was discovered in 1905. By 1918 the Hirst-Chichagof Mining Company had been formed and by 1920 three drifts had been started and mill equipment had been delivered to the mine (Reed and Coats, 1941). From 1922 to 1943 the mine produced 131,000 oz of gold and 33,000 oz of silver from over 140,000 tons of The mine closed in 1943 because of ore. shortages of men and equipment caused by World War II. An attempt was made to reopen the mine in 1950 but the low price of gold and the deteriorated condition of the mine and mill made the attempt unsuccessful. From 1950 to 1954, 124 oz of gold was recovered from a mill clean-up and from mine tailings (Still and Weir, 1981).

During 1978 and 1979 Bureau of Mines crews examined the surface and accessible underground workings and calculated resources (Still and Weir, 1981). The following mine description and resource estimates are based on that report:

The Hirst fault is explored along 5,000 feet of strike, and up to 2,200 feet vertically. Mining reached a depth of 1,800 feet below sea level. Mine records indicate that less than 10% of the area explored by underground workings was mined. Almost all the of old workings are currently inaccessible. The mine and adjacent mineralized area are partially

covered by 12 patented claims. The deposit is similar to the Chichagof Mine; the major exception is that a high-grade ore shoot was found 1,600 feet along the Kay split (Fig. 6), a hanging wall split off the Hirst fault. At the Chichagof Mine, all ore shoots are situated along the main Chichagof fault. At least 5,500 feet of strike length on the main Hirst fault, in the vicinity of the underground workings, was not explored.

Inferred resources: (mining width exceeding three feet)

- 1. Continuation of Kay ore shoot (mining halted in 1943)--Mine records and geologic inference suggest 80,000 tons at 1.00 oz of gold per ton (80,000 oz of gold) and 0.25 oz of silver per ton (20,000 oz of silver).
- 2. Unmined area explored by underground workings--Mine records, limited Bureau of Mines underground and surface samples, and geologic inference suggest 70,000 tons at 0.25 oz of gold per ton (17,500 oz of gold) and 0.06 oz of silver per ton (4,200 oz of silver).
- 3. Hirst-Chichagof tailings--11 Bureau of Mines shelby-tube and shovel samples on 3 sample lines, mine records, and an assumption that at least 50% of original mine tailings are located in or near the tidal zone where potential recovery is possible, suggest 70,000 tons at 0.14 oz of gold per ton (9,800 oz of gold) and 0.03 oz of silver per ton (2,100 oz of silver).
- 4. Hirst-Chichagof dump--13 Bureau of Mines surface samples in 2 lines (inadequate to determine grade for

whole dump) suggest approximately 70,000 tons having surface value of 0.04 oz of gold per ton and 0.01 oz of silver per ton.

Hypothetical resources:

Unexplored part of the Hirst fault in the mine area--Mine records and geologic inference suggest the possibility of 100,000 tons at 1.00 oz of gold per ton (100,000 oz of gold) and 0.25 oz of silver per ton (25,000 oz of silver).

In 1981, Enserch Inc. started work on the property. They continued exploration and work on reentry to the mine and evaluation of the tailings through 1983 (Coldwell, 1998).

In 1986, the Chichagof Joint Venture (Queenstake Resources, Ltd. and Exvenco, Inc.) started evaluation of the Kay ore shoot by driving a 160-foot crosscut into the main shear zone and establishing a drill station. By 1988, Golden Sitka Resources (Chichagof Joint Venture and Vector Mining Co.) rehabilitated underground workings and had completed about 3,215 feet of core drilling to assess the possible extension of the Kay ore shoot below previously developed mine levels. Four of the six diamond drill holes intercepted a barren aplite dike with only minor quartz veining at the expected ore zone. The company dropped its option on the Hirst-Chichagof property in late 1988 (Golden Sitka Resources Inc., 1987).

The 1986 work on the Kay ore shoot and subsequent resource estimate by Golden Sitka Resources differs from the 1981 Bureau of Mines resource estimate. Golden Sitka Resources based its revised estimate on only a partial reopening of underground workings, but with detailed sampling. The revised estimated

tonnage and grade for the Kay ore shoot is (Golden Sitka Resources Inc., 1987):

Probable: 380 tons at 1.5 oz of gold per

ton

Possible: 12,000 tons at 1.0 oz of gold per

ton

Inferred: 18,000 tons at 1.0 oz of gold per

ton

Total: 30,380 tons at 1.0 oz of gold per

ton (30,380 oz of gold)

Alaska Chichagof Mine (P71)

The Alaska Chichagof Mine is located near sea level on the west side of Klag Bay about half a mile southwest of the Chichagof fault (Fig. 6). It is located along a fault zone that can be traced for at least one mile. The setting and mineralization are similar to that of the nearby Chichagof Mine. The deposit was discovered in 1928 and by 1931 the Alaska Chichagof Mining Company was incorporated to develop the property. Their holdings consisted of 14 claims that crossed the Doolth Mountain peninsula (Reed and Coats, 1941; Still and Weir, 1981). About 510 feet of underground workings were developed from a portal near the beach (Reed and Coats, 1941), which is covered by a patented claim. In 1936 the property was optioned by the Chichagof Mining Company and 660 tons of ore were mined and processed at the Chichagof mill (Still and Weir, 1981). The next reported activity at the property was a reopening of the underground workings by Enserch Inc. during the early 1980's. There are insufficient data to determine resources for this property.

Jumbo Mine (P70)

The Jumbo Mine is located on the west side of Klag Bay about three quarters of a mile southwest of the Chichagof Mine (Fig. 6). It is located along a fault zone that can be traced for

at least one mile. The deposit was discovered in 1909 (Reed and Coats, 1941) when 1,450 oz of gold were reportedly mined from a high grade pocket located in the intertidal zone (Still and Weir, 1981). Overbeck (1919) reported that some of the richest ore and finest gold specimens in the district were from the Jumbo Mine. From 1909 to 1931 a 400-foot shaft, 1,580 feet of drift off the shaft, and numerous pits and trenches were dug to expose mineralized rock in the fault zone (Reed and Coats, 1941).

Bureau of Mines examination during 1978 and 1979 revealed three flooded shafts, a 48-foot drift, and numerous trenches and pits that expose quartz along a fault zone for 3,000 feet. The highest-grade sample collected was 0.15 oz of gold per ton (Still and Weir, 1981). Maps and samples of the underground workings have never been published, so no resource estimates are available. Given the reports of spectacular gold, but little published information and markedly subeconomic Bureau of Mines surface samples (Still and Weir, 1981), questions remain regarding the resources at this property.

Land Use and Resource Issues

There are seven land use and resource issues identified in the Doolth Mountain KMDA. They relate to 1) a wilderness designation, 2) private land, 3) State land, 4) recreation areas, 5) recreation areas important to tourism, 6) Sitka black-tail deer hunting, and 7) anadromous fish streams.

All of the Federal land in the Doolth Mountain KMDA is located within the West Chichagof-Yakobi Wilderness. However, the area includes 39 patented mining claims, and State land in the intertidal zone. Most of the mineral resources are situated on private or State lands. Recreation areas, including areas important to

tourism, are recognized along much of the shoreline in the area. There is a moderate level of deer hunting in the area. Some of the mineral occurrences are located near anadromous fish streams within the KMDA. Development of the resources at the Chichagof and Hirst-Chichagof Mines would be unlikely to impact the anadromous fish streams.

Mineral Development Potential

Significant past production, extensive gold quartz vein formation, and inferred/hypothetical resources totaling over 675,000 oz of gold and 195,000 oz of silver establish the Doolth Mountain area as having a high mineral development potential. The Doolth Mountain area is located within the West Chichagof-Yakobi Wilderness area where mining is prohibited, except on patented mining claims. Almost all the resources in the KMDA are from the Chichagof and Hirst-Chichagof Mines and

are covered by patented claims or located within State intertidal lands where mining is allowed. The only exception is the resource at the Kay ore shoot, where the land status has a wilderness designation.

Based on the economic feasibility studies of the Chichagof-Baranof area by Coldwell (1998), the deposits in the Doolth Mountain KMDA are subeconomic. The Chichagof hard rock deposit would require an approximately 150% increase in the price of gold (1987-1996 average gold price of \$441.98 used by Coldwell, 1998) to approach economic viability. Coldwell's calculations indicate that the Chichagof tailings are close to economic viability, but that the Hirst-Chichagof hard rock deposit would require an approximately 200% increase in the price of gold. Given the restrictions caused by land status in the area, the possibility of large increases in deposit size are unlikely.

West Coast Gold KMDA

Location / Access

A series of fault-controlled, vein gold deposits define the 8-mile wide by 28-mile long West Coast Gold KMDA, located 50 miles northwest of Sitka on the west coast of Chichagof Island (Plate 1, KMDA no. 6). The smaller, but more highly mineralized, Doolth Mountain KMDA is located at the center of the West Coast Gold area, but is not considered within it. The area topography rises from sea level to over 3,000 feet at the crest of Chichagof Island. Portlock Harbor, Khaz Bay, and Slocum Arm comprise the main waterways in the area. Numerous additional bays and inlets dot the area. Most of the area prospects are located near tidewater and are easily accessible by float plane or boat.

Geology

The West Coast Gold area is underlain by the Cretaceous Sitka Graywacke, the Cretaceous Kelp Bay Group, and the Triassic Whitestripe Marble. The Sitka Graywacke and the Kelp Bay Group are part of the Chugach tectonostratigraphic terrane and consist of weakly metamorphosed sandstone, siltstone, graywacke, and volcanics that generally strike northwest and dip steeply southwest (Johnson and Karl, 1985). The Whitestripe Marble forms part of the Wrangellia terrane (Plafker and others, 1976). Within the West Coast Gold area the rocks are cut by a series of northwesterly striking, steeply dipping faults. Sheared and deformed felsic dikes are found along these faults. Gold-bearing quartz veins were deposited along some of the fault zones. These vein gold deposits are similar in mode of formation and age to those at Doolth Mountain (Still and Weir, 1981, Johnson and others, 1982).

History / Production

Gold was discovered in the West Coast Gold area during the early part of the 20th century. The most significant mines and prospects are the Golden Hand Apex, New Chichagof Mining Syndicate, Falcon Arm, and Cobol Mine. Production from the area consists of 100 oz of gold from the Cobol Mine and a few oz of gold from the Golden Hand Apex Mine (Still and Weir, 1981).

Golden Hand Apex Mine (P51)

The Golden Hand Apex Mine was staked in 1921 along a northwest striking, quartz-bearing fault zone (Stewart, 1922). Workings, mostly completed in the 1920's, consist of a 150-foot sloughed trench, 140 feet of crosscut, and 85 feet of drift. A small amount of high-grade ore was produced in 1979 by Floyd Branson, the claim holder at the time (Still and Weir, 1981). A quartz vein exposed for 23 feet in two trenches averaged 0.34 oz of gold per ton (six sample lines) across a 3-foot mining width. A representative sample across a 0.2- by 3-foot high-grade zone in the footwall of the same vein assayed 187 oz of gold per ton, and a single select sample assayed 489 oz of gold per ton (Still and Weir, 1981). The active Golden Hand Apex claim covers this property and represents an inholding within the West Chichagof-Yakobi Wilderness area.

Cobol Mine (P91)

The Cobol Mine property was staked in 1925 (Stewart, 1932a) along gold-bearing quartz veins hosted in a north striking fault zone. Workings include 2,150 feet of drifts in 2 adits. Production is estimated at over 100 oz of gold. A 57-foot zone, exposed underground, averages 0.28 oz of gold per ton over a 3-foot mining width. A float sample below a reported 140-foot high-grade zone, now covered by a landslide, assayed 8.74 oz of gold per ton (Still and Weir, 1981). Activity on the property continued until 1986. Currently, there are no active mining claims in the area.

New Chichagof Mining Syndicate prospect (P49)

The New Chichagof Mining Syndicate prospect was discovered in 1933 along a northeast striking fault zone (Roehm, 1936e). Gold is found in a quartz-carbonate cemented, limestone breccia. Workings consist of almost 1,000 feet of adits and numerous surface cuts that intermittently expose mineralized rock along a strike length of over 500 feet. A 110-foot section of mineralized quartz vein exposed in the underground workings averages 0.24 oz of gold per ton across a 4-foot mining width (Still and Weir, 1981).

Falcon Arm prospect (P90)

The Falcon Arm prospect was staked in 1916 (Overbeck, 1919) along a northwest striking fault zone that extends over 5,000 feet. Gold is found in quartz veins that are hosted in mafic dikes and graywacke. Workings consist of 3,130 feet of adits. One adit crosscuts 3,010 feet and fails to intersect mineralized rock. The most significant mineralized rock was found in quartz rubblecrop with blocks up to 1.2 feet

thick that assayed from 0.5 to 2.15 oz of gold per ton (Still and Weir, 1981).

Land Use and Resource Issues

There are five land use and resource issues identified in the West Coast Gold KMDA. They relate to 1) a wilderness designation, 2) recreation areas, 3) recreation areas important to tourism, 4) anadromous fish streams, and 5) Sitka black-tail deer hunting.

The West Coast Gold KMDA encompasses the Doolth Mountain KMDA, but does not include it. (See the "Land Use and Resource Issues" section on page 41 for a discussion of issues affecting the Doolth Mountain KMDA.) All of the West Coast Gold area is contained within a designated wilderness, except for a single active claim at the Golden Hand Apex property. There are anadromous fish streams within the KMDA and several mineral occurrences are located near

these streams. The active claim is located along an anadromous fish stream as well. There is a moderate level of deer hunting in the area.

Mineral Development Potential

The four prospects described are the most significant within the West Coast Gold area. Numerous less significant gold prospects are found within the area as well. The extent and persistence of gold values in the four prospects and the proximity and similarity to the highly mineralized Doolth Mountain area suggest a medium mineral development potential for the West Coast Gold area. Except for the active claim at the Golden Hand Apex, all of the West Coast Gold area is located within the West Chichagof-Yakobi Wilderness area where mining is prohibited. This restrictive land status limits the likelihood of mineral development in the area.

Lisianski KMDA

Location / Access

Vein gold deposits define the 4-mile wide by 15-mile long Lisianski KMDA located on the northwest side of Chichagof Island and on the southeast end of Yakobi Island (Plate 1, KMDA no. 2). The area is 75 miles northwest of Sitka and 2 miles west of Pelican. Lisianski Inlet, Lisianski Strait, and Stag Bay comprise the area waterways. Steep-walled bays and inlets, and rugged mountains up to 3,613 feet in elevation characterize the area. The waterways can be reached by float plane or boat. The high elevation prospects (e.g., Apex and El Nido) can be reached by a steep, rugged climb from tidewater or by helicopter.

History / Production

Gold was discovered at the Bon Tara Mine on the east tip of Yakobi Island in 1887 (Overbeck, 1919). Between 1919 and 1923 gold was discovered at the Goldwin, Mine Mountain, and Apex and El Nido Mines. About 17,200 oz of gold and 2,400 oz of silver were produced from the Lisianski area prior to 1940. The Apex and El Nido Mines were the principal producers (Kimball, 1982).

Geology

Rocks in the Lisianski KMDA consist of late Paleozoic to Mesozoic volcanic and sedimentary rocks that have been metamorphosed to medium or high grade (Loney and others, 1975). These rocks are intruded by Jurassic to Cretaceous diorite, quartz diorite, and tonalite (Johnson and Karl, 1985). The structural grain of the area trends northwest-southeast.

Deposits in the area consist of low sulfide, gold-bearing, quartz veins that are controlled by northeast to east-west striking, steeply dipping, faults that are oriented at a high angle to the grain of the regional structures. Sulfides in the veins consist mainly of pyrite and arsenopyrite (Kimball, 1982).

Apex and El Nido Mines (P17)

The Apex and El Nido gold-bearing quartz veins were discovered in 1919 and 1920, respectively. They produced about 17,000 oz of gold and 2,400 oz of silver in the periods 1924-28, 1934-35 and 1937-39 (Holmes, 1941).

The deposits consist of one to four feet thick, steeply dipping, gold-bearing quartz veins emplaced in faults in diorite and amphibolite. Scheelite is erratically distributed in the veins. The main Apex vein strikes northeast and dips about 50° to the northwest; the El Nido vein strikes about 070° and dips 30° to 80° to the southeast. The two vein systems are separated by approximately 2,000 feet of country rock (Kimball, 1982).

Most of the gold production came from the Apex property. The condition of the underground workings during Bureau of Mines examination in 1978-1979 was such that, although both El Nido levels were sampled, only one of four Apex levels was accessible and no stope in either mine was safe to enter. Eighty-five measured surface samples were collected along a complex set of quartz veins over a strike length of 800 feet on the apparent up-dip

projections of the Apex veins. The samples did not contain consistent gold values nor reasonable correlation with a 1929 company sampling program (Kimball, 1982). The 1929 company data (Holmes, 1941) indicated high gold values over a long strike length. Holmes (1941) implied that a resource of 26,600 tons having an average grade of nearly 1 ounce of gold per ton was present in 1941. Rossman (1959) stated that the resources at the Apex Mine are not large. Because of the lack of correlation of the surface samples, inaccessibility of underground workings, and the complex character of the vein system, Kimball (1982) was not able to calculate resources for the Apex and El Nido Mines. No additional information regarding resources was available for this report.

Bon Tara Mine (P12)

The Bon Tara Mine, discovered in 1887 (Overbeck, 1919), consists of gold-bearing quartz veins in shear zones hosted in diorite. The veins have been explored by open cuts and a 35-foot adit. The only reported production is \$1,100 in gold (55 oz at @ \$20/ounce) at the time of discovery (Overbeck, 1919). Sampling by the Bureau of Mines revealed low grade gold-bearing veins (Kimball, 1982).

Goldwin Mine (P13)

Located in 1920 (Buddington, 1925), the Goldwin Mine consists of quartz veins up to two feet wide hosted in diorite. The veins have been explored by a 240-foot adit (Kimball, 1982). Rossman (1959) reported an assay of 69 oz of gold per ton over a half-foot section of pyriterich vein. Three other representative samples collected nearby assayed from a trace to 0.11 oz of gold per ton (Kimball, 1982).

Mine Mountain Mine (P34)

The Mine Mountain Mine (also known as the Cobol or Cobol North Mine) was discovered in 1921 (Reed and Coats, 1941) and has had a reported production of approximately 100 to 150 oz of gold. It consists of gold-bearing quartz veins hosted in diorite and greenstone that were explored by an adit with 250 feet of crosscuts and drifts. Samples across a 0.2- to 1.2-foot-wide vein within a 70-foot stoped area assayed from nil to 2.45 oz of gold per ton. Other samples from an unstoped area, 120 feet long, across a 0.2- to 0.7-foot-wide vein yielded results of nil to 0.15 oz of gold per ton (Kimball, 1982). The Mine Mountain Mine is located in the West Chichagof-Yakobi Wilderness area.

Land Use and Resource Issues

There are seven land use and resource issues identified in the Lisianski KMDA. They relate to 1) a wilderness designation, 2) recreation areas, 3) recreation areas important to tourism, 4) a LUD II classification, 5) anadromous fish streams, 6) Sitka black-tail deer hunting, and 7) a minerals prescription designation.

The southern part of the Lisianski KMDA is included in the West Chichagof-Yakobi Wilderness. The rest of the area is designated for semi-primitive recreation, with corridors along the coastline recognized as recreation areas important to tourism. In the northern part of the KMDA, an area has been designated as

LUD II. The Apex and El Nido Mines are north of the wilderness boundary and outside the LUD II and important tourism areas. The Mine Mountain Mine, on the other hand, is included within the wilderness area. There are three anadromous fish streams identified in the Lisianski KMDA. All are situated near the head of Stag Bay, where only the Cub Mountain occurrence is located. The areas most likely to be developed in the KMDA would not impact any of the identified streams. A small part of the northwest end of the KMDA (overlapping with the Bohemia Basin KMDA) has a minerals prescription designation, but no known prospects are situated in this area. There is a moderate level of deer hunting in the area.

Mineral Development Potential

There are insufficient data to determine resources in the Lisianski area. The only published resource calculation is for 26,600 oz of gold at the Apex Mine (Holmes, 1941), but that calculation was not validated by 1978-1979 Bureau of Mines sampling nor with the likely extent of the ore shoot in the underground workings (Kimball, 1982). The amount of historic production suggests the potential for a larger resource. Though the southern half of the Lisianski area is located within the West Chichagof-Yakobi Wilderness area where mining is prohibited, the Lisianski area as a whole has a medium mineral development potential.

Silver Bay KMDA¹

Location / Access

The Silver Bay KMDA is located east-southeast of Sitka (Plate 1, KMDA no. 9). It includes historic mines. and prospects, mineral occurrences around Silver Bay as well as properties east of Sitka in the Indian River basin. Access to the properties near sea level is possible by small boat from Sitka and by float plane. The higher elevation sites are most easily accessed by helicopter. Access to the area is also possible via private road along the northeast shore of the bay, which serves the Green Lake hydro-power station and reservoir (see Fig. 12). Several trails in the area allow access by foot as well.

History / Production

The Silver Bay area includes numerous sites that have been prospected for their gold potential from the 1870's to the 1990's (Knopf, 1912, DeArmond, 1997a). The first mining activity in the Chichagof-Baranof area occurred in the Silver Bay area in the 1870's. The Stewart Mine was the first lode gold mine in Alaska (Alaska Yukon Mining Journal, 1901) and the first place a stamp mill was operated in the State (DeArmond, 1997a). The history of individual properties in the area is difficult to ascertain. Complicating the history are the numerous claims, numerous owners, and the very early start of mining activity in the area. DeArmond (1997a) gives a good picture of activity in Silver Bay in a series of articles published in the Daily Sitka Sentinel in 1997.

Despite the long history of mining activity in the

Silver Bay area, little gold was produced. Stamp mills were erected at the Stewart and Lucky Chance Mines as well as at the Edgecumbe Exploration property. Arrastres may have been installed at other properties (DeArmond, 1997a). The Stewart mill, although the first in Alaska, only operated for one or two years (DeArmond, Total production from the mill is unknown, but judging from the limited extent of tailings present, it was evidently minor. Production from the Lucky Chance Mine was also small. Roehm (1940) cites an earlier report that about 60 tons of ore had been processed by Total production from the mine is unknown, but an estimated 1,200 tons of ore were reportedly removed from stopes by 1940 (Roehm, 1940).

Geology / Deposit Type

Gold in the Silver Bay area is contained in quartz veins hosted in graywacke and argillite of the Cretaceous Sitka Graywacke (Johnson and Karl, 1985). The Sitka Graywacke is part of the Chugach terrane (Monger and Berg, 1987), which represents an accretionary complex of flysch and melange (Plafker and others, 1977; Plafker and Berg, 1994). The discontinuous quartz veins and lenses are up to 16 feet thick (e. g., Stewart), but are generally barren. They commonly include fragments and partings of graywacke and argillite, but very few sulfides. The sulfides present are pyrite, pyrrhotite, arsenopyrite, and rare galena. The veins and lenses are commonly parallel to the structure in the country rock, which is generally northwest trending and steeply dipping. Haeussler and others (1995) suggest the quartz veining and

¹Additional information on the Silver Bay area, including maps, is provided in a special section of this report, p. 87.

mineralization in the Silver Bay area is related to an Eocene thermal event that is also responsible for the mineralization in the Doolth Mountain, West Coast Gold, and Lisianski KMDA's to the north.

Most Important Prospects

The BLM's MAS database catalogues 24 mineral locations in the Silver Bay area. The Lucky Chance (P135) and Stewart (P130) Mines are the only ones in the Silver Bay area with any reference to production. A mill was also erected on the Edgecumbe Exploration property (P125), but the BLM found no record of production. Adits, shafts, pits, and trenches mark other prospects in the area. BLM personnel examined many of these prospects including the Liberty (P121), Eureka (P126), Lower Ledge (P129), Bauer (P132), Wicked Fall (P133), and Free Gold (P134) prospects. The more important sites in the Silver Bay area are described in a special section on Silver Bay (p. 87).

Land Use and Resource Issues

There are eight land use and resource issues identified in the Silver Bay KMDA. They relate to 1) State and Municipal land, 2) enacted Municipal watershed, 3) private land, 4) recreation areas, 5) recreation developments, 6) recreation areas important to tourism, 7) anadromous fish streams, and 8) Sitka black-tail deer hunting.

Land management in the Silver Bay area is divided between Federal, State, and Municipal governments. The non-Federal lands include the power site corridor associated with the Green Lake hydroelectric facility, and a proposed corridor northeast from the head of Bear Cove. The Blue Lake and Indian River drainages are Municipal watershed areas. The most significant mineral occurrences known in the Silver Bay KMDA are on Federal land, with the exception of one patented claim at the Stewart Mine. The Federal land in the area is recognized for its recreation potential and includes recreation developments and recreation areas important to tourism. There are five anadromous fish streams in the area. Two of these streams, near the head of Silver Bay, drain areas with significant mineral occurrences. There is a moderate level of Sitka-black tail deer hunting in the area.

Mineral Development Potential

The Silver Bay area has a low mineral development potential. Although considerable exploration has been conducted in the area, particularly in the early years of mining in southeast Alaska, no significant discoveries have been made. The main reason for the lack of success is that the quartz veins in the area, though numerous, are discontinuous and contain spotty gold concentrations.

Magmatic Segregation

Five KMDA's in the study area are defined by magmatic segregation-type deposits that are hosted in mafic or ultramafic intrusives. These are the Bohemia Basin, Mirror Harbor, Snipe Bay, Red Bluff Bay, and Hill KMDA's.

Resources of nickel-copper-cobalt-bearing rock have been determined at three of the KMDA's: Bohemia Basin - 24 million tons; Mirror Harbor - 1 million tons; and Snipe Bay - 94,000 tons.

No production has occurred from any of the occurrences.

The deposits in the Bohemia Basin KMDA have the highest likelihood of mineral development of any of the magmatic segregation deposits. The tonnages and grades calculated to date are marginally attractive and the land status allows for potential development. A wilderness designation covers about one quarter of the KMDA, but all of the resources defined in the area are located outside the wilderness and are included within nine patented mining claims.

Development of the deposits at the Mirror Harbor and Snipe Bay KMDA's is unlikely. Although Mirror Harbor has higher tonnages and grades than those at Snipe Bay, its inclusion in the West Chichagof-Yakobi Wilderness area reduces the possibility of its development. The

South Baranof Wilderness covers about three quarters of the Snipe Bay KMDA, but excludes the Snipe Bay occurrence.

No economically significant resources have been identified to date at the Red Bluff Bay or Hill KMDA's. Both contain small amounts of chromium. And even though copper-mineralized rock with traces of platinum and palladium have been found in the Hill area, its relatively inaccessible location makes its development unlikely. Land status designations restrictive of mineral development also affect both areas. The South Baranof Wilderness covers all of the Red Bluff Bay KMDA, and about one quarter of the Hill KMDA. Because of the limited resources and restrictive land status, neither area is likely to attract mineral development interest.

Bohemia Basin KMDA

Location / Access

Bohemia Basin nickel-copper-cobalt deposits define a three- by five-mile KMDA located on the southeast side of Yakobi Island (Plate 1, KMDA no. 1). It is located about 75 miles north-northwest of Sitka and about 8 miles west of Pelican. A four wheel drive road and trails extend between the deposits and tidewater at Lisianski Inlet, which is accessible by float plane or boat. Elevations in the area range from sea level to 2,400 feet with rolling hills and some steep cliffs. Resources at Bohemia Basin are contained in three deposits: the Basin, Takanis, and Flapjack deposits. The location of deposits and general geology in the Bohemia Basin area are shown on Figure 7.

History / Production

Exploration activity in the Bohemia Basin area has been extensive and has taken place over a period of 60 years. The first claims were located in 1920, the same year a 156-foot adit was driven on the southeast side of the Basin deposit. By 1940, there were 15 prospect trenches 15 to 30 feet long (Reed and Dorr, 1942). In 1942 and 1943 the Bureau of Mines and the USGS drilled 15 diamond drill holes, mapped the area, and trenched and sampled along the outcrops. The combined work of both agencies resulted in a Bureau of Mines War Minerals Report (Bureau of Mines, 1944a), which is summarized by Kennedy and Walton (1946b).

In the 1940's the property was obtained by S.H.P. Vevelstad who optioned the claims to

International Nickel Company (INCO) in the mid 1950's. INCO held the property for three years and completed 28 diamond drill holes on the Basin and Takanis deposits. INCO lost its option to the property after a lawsuit with Vevelstad. Aleco, Inc. acquired the property from Vevelstad in 1971 and optioned it to Inspiration Development Company (Inspiration) in 1972 (Kimball, 1982). Inspiration completed 94 drill holes, conducted extensive geological mapping, geochemical and geophysical surveys, conducted preliminary feasibility studies. including pit designs, did metallurgical testing, and acquired patents for Aleco on nine lode claims covering the Basin and Takanis deposits (Thornsberry and DeWilliam, 1982).

In 1982 Inspiration released the property back to Aleco because of economic factors within the company. The property was purchased by Galactic Resources, Ltd. and Cornucopia Resources, Ltd. of Portland, Oregon in 1983. In 1984, over 5,000 feet of diamond drilling was completed on the property (Still, 1988). The drilling data remain confidential and were unavailable for this report. No production has occurred from the property.

Between 1979 and 1981 the Bureau of Mines briefly examined the property (Kimball, 1982). A reexamination in 1982 determined that precious metals and PGM concentrations are very low, that they are confined to the nickel-copper occurrences, and that the highest values coincide with the highest nickel-copper values (Still, 1988). A bulk sample (approximately 200 pounds) from the Bohemia Basin adit was supplied to the Bureau of Mines Albany Research Center for metallurgical testing. The results of this testing concluded that gold, platinum, and palladium are concentrated with copper and that they could potentially be low grade metallurgical byproducts (Dahlin and

others, 1981).

Geology

A northwest trending belt of Tertiary gabbroic plutons extends from the Fairweather Stock, located 75 miles northwest of Bohemia Basin in Glacier Bay National Park, to Snipe Bay, located on the southwest side of Baranof Island. Within the Chichagof-Baranof study area, this belt hosts the Bohemia Basin, Mirror Harbor and Snipe The plutons intrude older Bay deposits. metamorphosed alkalic rocks, amphibolites, hornfels, and metagraywackes. Two of these plutons, the Fairweather and the Crillon stocks, exhibit well-defined lavering that varyies in composition from diorite to pyroxenite or dunite. The Crillon Stock, located northwest of the Chichagof-Baranof study area, contains the Brady Glacier nickel-copper deposit. That deposit has 180 million tons of indicated and inferred resources averaging 0.53% nickel, 0.33% copper, 0.03% cobalt, and by-product PGM (Brew and others, 1978; Still, 1988). The Brady Glacier resource serves to illustrate the size of potential magmatic segregation deposits in this belt of plutons.

A Tertiary composite stock comprises about one-third of the land area of Yakobi Island. Rock types include tonalite, quartz diorite, diorite, gabbro, gabbronorite, and norite (Himmelberg and others, 1987). These rocks grade into each other and in places can only be identified microscopically. In general, the gabbronorite, which hosts the mineralized rock, occurs as discrete irregular bodies within or bordering the tonalite. The Yakobi Island stock, although much smaller in size, is similar in mode of occurrence to the layered Fairweather and Crillon stocks (Thornsberry and DeWilliam, 1982).

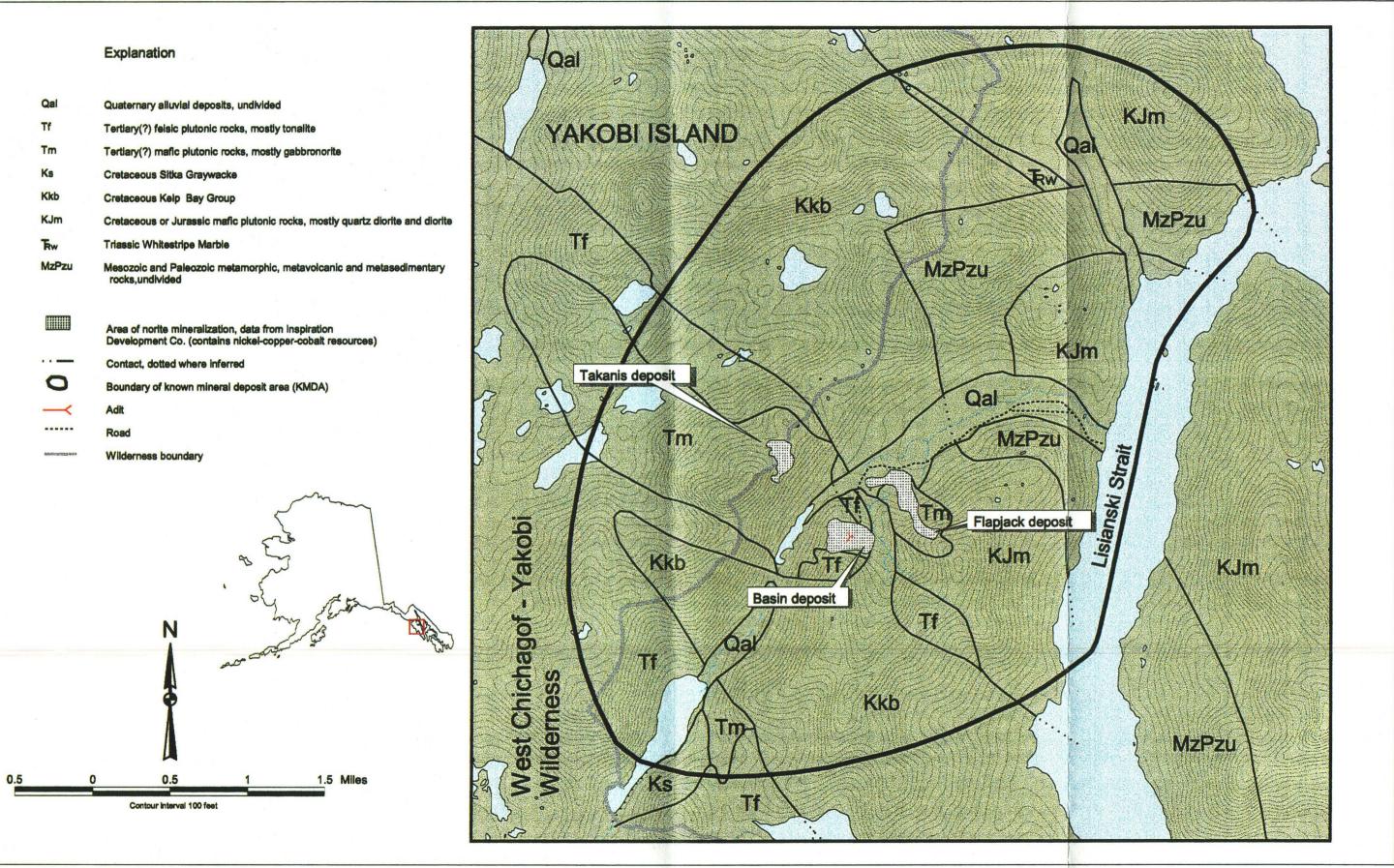


Figure 7: Bohemia Basin area showing general geology and location of deposits (Johnson & others, 1982; Still, 1988).

Mineralization at the three Bohemia Basin deposits is similar. Sulfide mineralization includes pentlandite, chalcopyrite, pyrrhotite, and pyrite as disseminated grains, blebs, interstitial networks, and massive aggregates. The nickel-copper-cobalt-bearing mineralized rock is generally restricted to the gabbronorite and all evidence points to concentration of sulfides by segregation within a cooling magma (Himmelberg and others, 1987). Variations within the gabbronorite can be abrupt or gradational with igneous layering a common feature. Generally, the mineralized units are pyroxenite within gabbronorite bodies. At the Basin deposit the mineralized rock occupies the basal zone; however, this is not necessarily the case with the other deposits (Thornsberry and DeWilliam, 1982).

The Basin deposit is contained within an elliptically-shaped gabbronorite plug, 1,200 to 1,400 feet in diameter. The plug is bounded on the east and southwest by barren diorite and pyrrhotite-rich amphibole schist, and on the north and west by the main gabbroic complex. The gabbronorite body is layered, with composition ranging from anorthosite to pyroxenite. The compositional variations are arranged concentrically in a funnel-like shape around the core of the gabbronorite plug. The main mineralized zone is a basal pyroxenite unit, 50 to 150 feet thick, with smaller, usually lower-grade zones, 5 to 20 feet thick, parallel to the main zone (Thornsberry and DeWilliam, 1982).

The Takanis deposit contains at least three separate gabbronorite intrusions with many variations in rock types. It is intruded by a later diorite phase and siliceous to mafic dikes. The mineralized host rock is a dark gray to brown, medium-grained, equigranular gabbronorite, grading to peridotite and pyroxenite. The latter characteristically contains hypersthene and

actinolite, and is usually moderately altered. The Takanis ore body dips steeply and is tabular in shape, striking approximately 050° and dipping 70° to the southeast. It is approximately 900 feet long by 200 feet wide (Thornsberry and DeWilliam, 1982).

The Flapjack deposit is more poorly delineated than the Basin and Takanis deposits. It is thought to contain a sill-like gabbronorite body within a layered intrusion. The gabbronorite contains tabular-shaped mineralized horizons similar to those in the Takanis deposit (Thornsberry and DeWilliam, 1982).

Resources

Identified resources for the Bohemia Basin deposits reported by Thornsberry and DeWilliam (1982) are as follows:

Basin deposit: (based on 73 diamond drill holes) 16,186,000 tons, which average 0.31% nickel, 0.18% copper, and 0.02% cobalt.

Takanis deposit: (based on 47 diamond drill holes) 3,971,500 tons, which average 0.29% nickel, 0.18% copper, and 0.02% cobalt.

Together, the Basin and Takanis deposits have proven resources accessible by open-pit mining of 15.1 million tons grading 0.37% nickel, 0.22% copper, and 0.02% cobalt at a 2.5.1 stripping ratio.

Flapjack deposit: (based on 4 diamond drill holes) 4,000,000 tons inferred, which average 0.21% nickel and 0.12% copper.

Based on Bureau of Mines beneficiation tests, small amounts of gold, platinum, and palladium are recoverable from these deposits (Dahlin and others, 1981). However there are insufficient data to estimate specific resources for these commodities (Still, 1988).

Land Use and Resource Issues

There are eight land use and resource issues identified in the Bohemia Basin KMDA. They relate to 1) private property, 2) a wilderness designation, 3) a LUD II classification, 4), recreation areas, 5) recreation areas important to tourism, 6) minerals prescription designation, 7) anadromous fish streams, and 8) Sitka black-tail deer hunting.

The main mineral deposits at Bohemia Basin are covered by nine patented mining claims. Outside the patented claims, are wilderness, LUD II, and recreation lands. The wilderness boundary abuts the Takanis deposit and may affect its potential development. The LUD II designated area is to the northeast of the known deposits and is therefore a less significant issue. The recreation designation includes areas important for tourism and encompasses the patented claims and the known deposits. Most of the KMDA, outside

the wilderness and LUD II areas, falls under a minerals prescription designation. Bohemia Creek is an anadromous fish stream that drains the valley containing the deposits. There is a moderate level of Sitka black-tail deer hunting in the area.

Mineral Development Potential

Based on economic feasibility studies of the Chichagof-Baranof area by Coldwell (1998), the 24-million ton Bohemia Basin deposit would require twice the current total metal values of nickel, copper, and cobalt to approach economic The deposit would also approach viability. economic viability if about twice the tonnage was developed with the current average grade of 0.29% nickel, 0.17% copper, and 0.017% cobalt. The possibility of open-pit mining and the close proximity to tidewater enhance the development potential of the Bohemia Basin area. So although the deposit is subeconomic at present, the area is likely to continue to attract mineral development interest in the future.

Mirror Harbor KMDA

Location / Access

Nickel-copper-cobalt deposits define the 2- by 3-mile Mirror Harbor KMDA, located 65 miles north-northwest of Sitka and 14 miles south of the Bohemia Basin deposit. Plate 1 shows the location of the KMDA on the northwest side of Chichagof Island (KMDA no. 3). Elevations in the area extend from sea level to under 300 feet; the area is flat lying, brushy and covered with timber. Many small waterways between Bertha Bay and Little Bay cut the Mirror Harbor area. Access can be made by float plane or boat from

Sitka and by foot to the mineral occurrences.

History / Production

Nickel-copper-cobalt occurrences were discovered near Mirror Harbor in 1911. In 1915, a 175-foot shaft was sunk with crosscuts at 75 feet and 175 feet below the surface (Pecora, 1942). This shaft is now flooded. During World War II the Bureau of Mines and the USGS mapped, trenched, and drilled the property (U. S. Bureau of Mines, 1944b; Traver, 1948). Inspiration Development Company

conducted extensive mapping, sampling, and geochemical and geophysical surveys at the property from 1972 to 1982. In 1982 Inspiration dropped the property (Still 1988). There are no active claims in the Mirror Harbor area, which is now part of the West Chichagof-Yakobi Wilderness. No production has occurred from the area.

Geology

The Mirror Harbor area is underlain by Cretaceous Kelp Bay sedimentary and volcanic rocks, and the Cretaceous Sitka Graywacke. These are intruded by Tertiary tonalite and gabbronorite (Johnson and Karl, 1985). The gabbronorite hosts nickel-copper-cobalt magmatic segregation deposits that contain masses and disseminations of pyrrhotite, pentlandite, and chalcopyrite (Still, 1988). The geologic setting and deposit type are similar to those at Bohemia Basin, described above.

Resources

Three deposits have been delineated within the Mirror Harbor area; two consist of massive sulfides and one of disseminated sulfides. A high-grade massive sulfide body, on which the shaft was driven, contains 7,300 tons averaging 1.60% nickel and 0.90% copper. A massive sulfide body on the south side of Davison Bay contains a few tons with a slightly lower grade than that at the shaft. A disseminated deposit located between Mirror Harbor and Davison Bay contains 1,000,000 tons averaging 0.32% nickel and 0.12% copper (Still, 1988).

Land Use and Resource Issues

There are seven land use and resource issues identified in the Mirror Harbor KMDA. They relate to 1) a wilderness designation, 2) State land, 3) recreation areas, 5) recreation areas important to tourism, 5) a recreation development, 6) anadromous fish streams, and 7) Sitka black-tail deer hunting.

The Mirror Harbor KMDA is located within the West Chichagof-Yakobi Wilderness area. In addition, the area is designated for recreation and as important for tourism. A Forest Service recreation cabin at White Sulphur Springs is located in the area. The known occurrence in the Mirror Harbor area is located in flat-lying terrain, much of it in, or near, State intertidal lands. Although there are at least two anadromous fish streams within the KMDA, they are situated on the north side of the KMDA. Development of the known occurrence would not impact either of the streams. There is a moderate level of deer hunting recognized in the area.

Mineral Development Potential

The Mirror Harbor deposits are of sufficient size and grade to attract mineral development interests. Though the deposits are relatively small, they are more attractive for development due to the location of similar deposits at Bohemia Basin to the north. A mill facility at Bohemia Basin could potentially process ore extracted from the Mirror Harbor deposits. The land status of the Mirror Harbor KMDA within the West Chichagof-Yakobi Wilderness, detracts from its mineral development potential.

Snipe Bay KMDA

Location / Access

Mineralized rock bearing nickel, copper, and cobalt defines the Snipe Bay KMDA. It is located 45 miles southeast of Sitka on the west side of Baranof Island, on the north side of Snipe Bay (Plate 1, KMDA no. 13). Topography in the area is fairly rugged, with steep cliffs rising from sea level to over 500 feet in elevation. The area is densely forested and brushy. The surge of waves from the open ocean to the west prevents safe access to the area by float plane. Boat access can be made to Snipe Bay, where landing by skiff in relatively calm seas is practical, but more reliable access can be had via helicopter. A steep trail provides access to the deposits from tidewater.

History / Production

The Snipe Bay deposit was discovered in 1922 (Buddington, 1925). From 1922 to 1942, work on the deposit was limited to trenching. The USGS examined the property in 1929 and 1941 (Reed and Gates, 1942). The Bureau of Mines examined it in 1963 (Pittman, 1963). In 1973 the Inspiration Development Company acquired the property and explored the deposit with 21 diamond drill holes. Claims on the deposit lapsed in 1979 (Roberts, 1983). Bureau of Mines personnel collected metallurgical test samples at the property in 1981 and 1988 (Foley, 1989). There has been no production from the area

Geology / Resources

The Snipe Bay area is underlain by Cretaceous Sitka Graywacke, which has been intruded by Tertiary gabbro and norite (Reed and Gates, 1942; Foley, 1989). The magmatic segregation

nickel-copper-cobalt deposit occurs in the gabbro. Two mineralized zones are exposed in trenches and have been tested by 21 diamond drill holes. The zones are located in a steep gully at elevations between 480 and 550 feet, and 170 and 320 feet. The ore minerals are nickeliferous pyrrhotite, pentlandite, and chalcopyrite. The zones form a deposit with an indicated resource of 94,000 tons of 0.97% copper and 0.33% nickel (Roberts, 1983; Foley, 1989).

The known mineralized zones at Snipe Bay were not re-examined during this study, because of recent work by other Bureau of Mines workers (e.g., Foley, 1989). In 1995 a Bureau of Mines crew collected stream sediment samples in Snipe Bay and examined iron-stained zones in the sea cliffs near the mouth of the bay (Plate 2; Map nos. 338-340, 342-344). Additional mineralized rock was not found and the stream sediment samples had low metal values (Maas and others, 1996).

Land Use and Resource Issues

There are three land use and resource issues identified in the Snipe Bay area. They relate to 1) a wilderness designation, 2) anadromous fish streams, and 3) Sitka black-tail deer hunting.

The northern part of the Snipe Bay KMDA is located within the South Baranof Wilderness area. However, the occurrence is located just south of the wilderness boundary. Development of the known occurrence may not be affected by this designation, but the potential for future exploration and development in the area is limited by the adjacent wilderness. There is one anadromous fish stream within the KMDA that is located north of the mineralized bodies, in the

wilderness area. It is unlikely that development would affect the anadromous fish stream. Deer hunting pressure in the south Baranof Island area is listed as moderate, but is likely to be low in the Snipe Bay area itself.

Mineral Development Potential

Although small, the Snipe Bay deposit is of sufficient size and grade to be given a medium mineral development potential. A medium

development designation takes into consideration the presence of similar deposits to the north at Bohemia Basin and Mirror Harbor. Milling requirements could potentially be handled by a facility at Bohemia Basin. The South Baranof Wilderness area borders the Snipe Bay deposit on the north, which limits the possibility of additional exploration in the area.

Red Bluff Bay KMDA

Location / Access

The Red Bluff Bay deposit, which defines the KMDA, is located on the northeast side of Red Bluff Bay, about 25 miles southeast of Sitka (Plate 1, KMDA no. 11). The bay takes its name from the bare reddish-brown weathered surface of chromite-bearing ultramafic rocks that underlie 1.25 square miles on a long ridge north and east of the bay. Moderate to steep slopes rise from tidewater to a ridge crest that ranges in elevation from 520 to 1,200 feet. Access is by float plane or boat to Red Bluff Bay and then by foot to the deposit.

History / Production

Chromite was first recognized in the Red Bluff Bay area in 1933 when 28 claims were staked (Guild and Balsley, 1942). During the 1940's the Alaska Juneau Mining Company held the claims (Carnes, 1980). The USGS mapped and sampled the deposit in 1939 and 1941 (Guild and Balsley, 1942). The Territorial Department of Mines conducted a magnetic survey over the deposit in 1953 (Holdsworth and Williams, 1953). No production has occurred from this property.

Geology

The Red Bluff Bay ultramafic complex consists of partly serpentinized dunite and pyroxenite. Pyroxenite predominates in the northwestern half of the area where it crops out in large irregular masses. The pyroxenite is commonly altered to amphibolite. The dunite predominates in the eastern and southern parts of the complex. The dunite includes bands of pyroxenite-rich layers that strike north and dip steeply. places, the pyroxenite and dunite are finely interlayered. Chromite is found disseminated in the dunite, and in richer layers and bands within the dunite that are parallel to the pyroxenite bands. Zones containing disseminations and small lenses of chromite are up to 30 feet wide and several hundred feet long. Chromite lenses up to 3 feet wide and 40 feet long have been found. The chromite lenses probably formed as magmatic segregations during cooling of the intrusive mass (Guild and Balsley, 1942). Greenschist and phyllite surround the Red Bluff Bay intrusive. The complex is bounded by faults, leading to the suggestion that it may have been tectonically emplaced (Loney and others, 1975).

Two pan concentrate samples were taken during this study to determine the presence of platinum-group metals (PGM) in the deposit (Plate 2; Map nos. 160, 162; samples 2036, 2037). Although chromium values were high, only trace amounts of PGM were detected.

Resources

Eight areas of chromium mineralization scattered over a 6,000-foot-long area have been identified by previous workers. These areas contain from 5% to 50% Cr₂O₃ and a 30,000-ton inferred resource of 12% Cr₂O₃ has been identified. The chromite to iron ratio of the deposit is low, somewhere below the desired threshold of 3:1 (Guild and Balsley, 1942).

Land Use and Resource Issues

There are five land use and resource issues identified in the Red Bluff KMDA. They relate to 1) a wilderness designation, 2) a recreation area, 3) a recreation area important to tourism 4) an anadromous fish stream, and 5) Sitka blacktail deer hunting.

The entire Red Bluff Bay KMDA is included in

the South Baranof Wilderness area. The area is also designated for recreation and is recognized as important for tourism. There is an anadromous fish stream within the KMDA and the known occurrence is located just to the east of it. Mineral development in the area would likely require mitigation for impacts to the stream. There is a moderate level of deer hunting identified in the area.

Mineral Development Potential

The mineral development potential of the Red Bluff Bay area is low. The chromium deposit is small and low grade, and contains an insufficient chromium to iron ratio to attract serious development interest. In addition, there are no PGM associated with the deposit. The style of mineralization and characteristics of the intrusive body at Red Bluff Bay are similar to those found at the Hill prospect (see below), but not typical of a zoned, Alaska-type ultramafic body (Taylor, 1967; Foley and others, 1997) common in southeast Alaska, which may hold a higher potential for hosting an economic ore body. The area is also within the South Baranof Wilderness where mining is prohibited.

Hill KMDA

Location / Access

The Hill KMDA, defined by chromite-bearing ultramafic rocks, is located 15 miles southeast of Sitka along the rugged crest of Baranof Island (Plate 1, KMDA no. 10). The area consists of rugged, glacier-clad mountains that rise to an elevation of over 4,000 feet. Access is by helicopter.

History / Production

Chromite was first discovered in the Hill area about 1935 (Guild and Balsley, 1942). Claims were staked, but were abandoned by 1942. There are brief references to the prospect in Guild and Balsley (1942), Kennedy and Walton (1946), and Berg and Cobb, (1967). Each report states that the grade and extent of mineralized rock is insufficient to constitute ore. There has been no production from the area.

Geology

The chromite-bearing mafic/ultramafic rocks at the Hill prospect are similar to those at Red Bluff Bay, described above. They consist predominately of pyroxenite and dunite. The dunite contains whisps and disseminations of chromite. Disseminated chalcopyrite, pyrite, and pyrrhotite are found within the pyroxenite.

During 1996, the BLM sampled exposures of sulfide-bearing pyroxenite for their copper, nickel, and PGM potential. The samples contained from 12 to 3,050 ppm copper and from 7 to 1,100 ppm nickel (Plate 2, Map nos. 237, 238; samples 1409, 1410, 1456, 1457). The sample with the highest copper value (sample 1409) also contained the highest PGM value of 55 ppb platinum and 68 ppb palladium. The remaining samples contained up to 5 ppb platinum and 10 ppb palladium. (Bittenbender and Still, 1997).

Land Use and Resource Issues

There are two land use and resource issues identified in the Hill KMDA. They relate to 1) a wilderness designation, and 2) Sitka black-tail deer hunting.

The southern part of the Hill KMDA, which includes the Hill prospect itself, is included in the South Baranof Wilderness area. The northern part of the KMDA, where there is potential, but no known mineralized rock, is open to mineral entry. Given the remote setting of the Hill KMDA, deer hunting pressure is low, even though the area as a whole is listed with a low to moderate level of deer hunting. There are no anadromous fish streams within the boundaries of the KMDA. However, there are anadromous fish streams, both to the east and west of the area. Mineral development may require some mitigation measures to protect these streams.

Mineral Development Potential

The mineral development potential of the Hill prospect area is low. The size and extent of chromium mineralization at the occurrence is too low to present a serious exploration target. Concentrations of nickel, copper, and PGM that might make the prospect more attractive were not revealed by this study. In addition, the remoteness of the site and the land use restriction on mineral development lowers the area's development potential.

Porphyry

Two of the study area's KMDA's are defined by porphyry occurrences. They are the Warm Springs Bay and Slocum Arm KMDA's shown on Plate 1.

Rock mineralized with molybdenum extends across several miles at Warm Springs Bay, but is mainly low grade. It is hosted in Eocene tonalite (Loney and others, 1975). Although surface sampling has revealed a limited occurrence to

date, the broad extent of the mineralized rock might attract subsurface exploration. The land status at Warm Springs Bay allows for mineral development.

The molybdenum occurrence at Slocum Arm extends over one square mile and is hosted in Triassic greenstone and Tertiary granodiorite (Loney and others, 1975). Although widespread, the occurrence is low grade. There

are insufficient data to establish a tonnage and grade at the site. The low grade of the occurrence and the fact that the area is covered

by a wilderness designation, lowers the potential of exploration interest in the area.

Warm Springs Bay KMDA

Location / Access

Porphyry copper-molybdenum and associated mineralization defines the Warm Springs Bay KMDA. It is located 27 miles due east of Sitka, on the east side of Baranof Island (Plate 1, KMDA no. 8). The Warm Springs Bay KMDA extends for several miles, from the north side of Warm Springs Bay to Chatham Strait. The topography of the area ranges from sea level to over 2,200 feet in elevation. Brush and timber dominate the lower elevations, whereas the upper elevations are alpine and cliffy. Access is possible by float plane, boat, or helicopter.

History / Production

Mineralized rock at Warm Springs Bay was discovered by El Paso Natural Gas Company in 1973. They staked a block of claims that extended from the north side of Warm Springs Bay to Chatham Strait, a distance of two and a half miles (unpublished BLM records). Results of the company's work have not been released. No production has occurred from this property.

Geology

The Warm Springs Bay area consists of Eocene hornblende-biotite tonalite and hornblende-biotite granodiorite that contain septa and inclusions of Triassic biotite schist, gneiss, amphibolite, and phyllite (Loney and others, 1975). Examination revealed coppermolybdenum mineralization scattered across a one square-mile area, stretching from the

abandoned townsite of Manleyville, east to Chatham Strait, and one mile to the north, along the shoreline. The mineralized rock is found at sea level and extends to over 1,700 feet in elevation. A hornfels zone containing zinc and copper was identified in the contact area adjacent to the intrusion. The contact is exposed at the north edge of the KMDA.

The most extensive zone of copper-molybdenum mineralized rock is exposed along the north shore of Warm Springs Bay. Pyrite. chalcopyrite, and molybdenite are disseminated in silicified tonalite, along the edges of granodiorite inclusions, and in fracturecontrolled quartz stringers. Exposures of tonalite west of Manleyville contain up to five percent pyrite with little chalcopyrite or molybdenite. East of Manleyville, a 300-footlong exposure in the intertidal zone contains more abundant chalcopyrite and molybdenite. Twenty chip samples were taken to evaluate this exposure. Sample results averaged 600 ppm copper and 85 ppm molybdenum. The highest values were found in a 10-foot chip sample that contained 1,550 ppm copper and 600 ppm molybdenum (Plate 2, Map no. 203, sample 2718). A select sample across a 1.5-foot-thick quartz lens contained 5,300 ppm copper and 925 ppm molybdenum (Plate 2, Map no. 203, sample 2725). No samples from this mineralized zone had appreciable precious metal values.

Small amounts of molybdenite and sphalerite were found in narrow quartz stringers hosted in granodiorite about three quarters of a mile east of Manleyville. Samples of the stringers contained up to 1,650 ppm molybdenum and 1,100 ppm zinc (Plate 2, Map nos.199, 200; samples 2579, 2749). Samples collected from quartz stringers and tonalite located north of the 300-foot-long showing contained up to 6,000 ppm copper and 415 ppm molybdenum (Plate 2, Map nos. 201, 203; samples 2577, 2545-47). Seven stream sediment samples collected to the east and west of Manleyville did not contain significant metal values.

Examination along the ridge crest, half to three quarters of a mile north of Manleyville, revealed significantly less silica alteration and pyrite in the tonalite. Samples collected from this area contained variable amounts of chalcopyrite, molybdenite, and sphalerite (Plate 2, Map nos. 193-195). Analyses revealed up to 7,200 ppm zinc (Plate 2, Map no. 193, sample 2753), 1,900 ppm copper (Plate 2, Map no. 194, sample 2587), and 550 ppm molybdenum (Plate 2, Map no. 195, sample 2754). The highest gold value from all samples collected in the Warm Springs Bay area, 170 ppb (Plate 2, Map no. 193, sample 2585), came from this area.

Much of the mineralized rock observed in the Warm Springs Bay area was found along or near a steeply dipping fault zone that extends about one and a half miles from Manleyville northeast to Chatham Strait. This zone contains boulders of quartz and silicified tonalite, and a quartz vein containing pyrite, chalcopyrite, and sphalerite (Plate 2, Map no. 189). Three samples were taken that contained up to 1,750 ppm copper (sample 2751), 544 ppm bismuth, and 2,750 ppm zinc (sample 2584). Zinc values increase and molybdenum values decrease to the northnortheast along the fault zone.

Land Use and Resource Issues

There are six land use and resource issues identified in the Warm Springs Bay KMDA. They relate to 1) private land, 2) a recreation area, 3) a recreation area important to tourism, 4) State land, 5) Sitka black-tail deer hunting, and 6) anadromous fish streams.

The Federal land in the Warm Springs Bay area is open to mineral development. There are, however, several issues that would most likely need to be addressed prior to resource development. The community of Baranof is situated near the center of the KMDA and includes a significant amount of private land. The Warm Springs Bay area is the site of numerous hot mineral springs that attract tourists and other recreational users to the area. The Baranof townsite and hot springs are near the head of Warm Springs Bay, whereas the known occurrence is closer to the mouth of the The valley to the southwest of Warm Springs Bay is the site of a proposed road and power transmission corridor, so the State has some interest in the land management of the area. The deer hunting level in the area is low and is unlikely to be an issue. At least two anadromous fish streams cut through the KMDA, but development in the area of the known occurrence would be unlikely to affect the streams.

Mineral Development Potential

The discontinuous nature of the mineralized rock and the low metal values in the rocks sampled at Warm Springs Bay discourage additional surface examination of the deposit. A further detraction is the low precious metal values in the samples collected. However, the broad extent of the mineralized rock means the potential for a large, low-grade deposit still exists, and might

encourage subsurface exploration of the area. Subsurface exploration may include geophysics, detailed soil sampling, or eventually, drilling. The Warm Springs Bay KMDA is given a medium mineral development potential.

Slocum Arm KMDA

Location / Access

The Slocum Arm KMDA is defined by rock mineralized with molybdenum found in dikes, quartz veins, and greenstone. The 2- by 6-mile area is located on Chichagof Island, 35 miles northwest of Sitka and 1.5 miles east of Hidden Cove, near the head of Slocum Arm (Plate 1, KMDA no. 7). Most of the area is above timberline, except for the southern part, which consists of steep brushy gullies. Access to the area can be obtained by float plane or boat to Hidden Cove. From Hidden Cove, foot access through heavy brush is required to reach the mineralized area. The area can also be accessed by helicopter.

History / Production

Molybdenum was discovered in the Slocum Arm area in 1943, but there is no evidence of claim staking or development work at that time (unpublished BLM records). By 1952 claims had been staked and the Bureau of Mines examined the property (Thorne, 1952). In 1968 John Ballard, a claim holder, reported on the geology and mineral potential of the area (Ballard, 1968). The prospect was examined again in 1978 by Bureau of Mines personnel (Still and Weir, 1981). No production is known to have occurred from the property.

Geology

Rocks in the prospect area include Triassic Goondip Greenstone that has been intruded by Tertiary granodiorite (Johnson and Karl, 1985). Molybdenum is found scattered in quartz stringers and in felsic to intermediate dikes along a 50-foot wide fault zone cutting the greenstone that strikes 020°, and dips up to 55° to the southeast or northwest. The fault can be traced for 8,500 feet from elevations of 500 to 2,400 feet. A series of north-northwest striking, felsic to intermediate dikes and sills are hosted in greenstone about 1,000 feet east of the fault zone. West striking, steeply dipping quartz veins up to half a foot thick are also hosted in the greenstone at this location (Still and Weir, 1981).

Mineralized rock at the Slocum Arm prospect is hosted in a variety of settings: in quartz veins, in a shear zone with quartz stringers, in fault gouge, in an assortment of dikes, in greenstone, and in the Tertiary granodiorite. mineralized rock is spread across an area greater than one square mile (Still and Weir, 1981). The following analytical data, taken from the 1981 study, illustrate the grade of the molybdenum mineralization: Samples from the dikes contained up to 190 ppm molybdenum; samples from a diorite sill contained 280 ppm molybdenum; samples from the greenstone contained up to 32 ppm molybdenum; and samples from the quartz veins contained up to 5,400 ppm molybdenum. The quartz sample contained the highest molybdenum value found on the property.

BLM workers attempted to define additional molybdenum occurrences to the east and north

of the main prospect during this study. A 0.7mile traverse was made along a prominent ridge Samples were collected of to the east. granodiorite, greenstone, and quartz veins hosted in greenstone and granodiorite (Plate 2, Map nos. 146-151). They contained up to 6 ppm molybdenum. A traverse was also made 1,500 feet to the north of the known occurrence. Examination revealed quartz stringers hosted in greenstone and intermediate dikes and sills in greenstone. A sample of quartz in greenstone contained 5 ppm molybdenum and 570 ppm copper (Plate 2, Map no. 147, sample 2772). Analysis of dike samples did not reveal significant metal values. Although similar geology was identified north and east of the Slocum Arm molybdenum deposit, sampling failed to reveal additional mineralized rock.

Land Use and Resource Issues

There are three land use and resource issues identified in the Slocum Arm KMDA. They relate to 1) a wilderness designation, 2) a timber harvest designation, and 3) Sitka black-tail deer hunting.

Most of the Slocum Arm KMDA is designated as wilderness. The wilderness designation precludes mineral entry and there are no pre-existing active mining claims present in the area that might allow for mineral development in a wilderness. The northeast side of the KMDA is designated as a timber harvest area, which would be open for mineral development. This part of the KMDA, however, has no known mineral occurrences. There is a moderate level of deer hunting recognized in the area, but given the remote setting of the occurrence, mineral development would unlikely effect hunting.

Mineral Development Potential

The Slocum Arm KMDA is assigned a low mineral development potential. Even though the mineralized rock is scattered over a large area, it is relatively low grade. In addition, the mining claims in the area are no longer active, so the area has reverted to a wilderness designation where mining is prohibited.

Volcanic-Related Massive Sulfide

Two KMDA's located in the study area contain volcanic-related copper occurrences. They are the Mt. Baker and Mt. Muravief KMDA's shown on Plate 1.

The copper occurrence at Mt. Baker is hosted in Triassic Goondip Greenstone (Johnson and Karl, 1985) and extends over an area of about two by three miles. Although some areas of high grade mineralized rock have been found, most of the area contains low grade concentrations. The broad extent of mineralized rock at the site would encourage further evaluation, but the

wilderness designation that covers the property makes further exploration unlikely.

At Mt. Muravief, copper-zinc mineralization is hosted in greenstone and in the surrounding schist of the Cretaceous Sitka Graywacke. Investigations to date have established a correlation between the occurrence of greenstone and the copper mineralization. The limited extent of greenstone in the area therefore suggests a limited potential for additional copper mineralization discoveries. Although the land status of the Mt. Muravief KMDA allows for

mineral development, the potential for further development is low.

Mt. Baker KMDA

Location / Access

Rock mineralized with copper defines the 2- by 3-mile Mt. Baker area, located 65 miles northwest of Sitka (Plate 1, KMDA no. 4). The area ranges from sea level, at Goulding Harbor, to the summit of Mt. Baker, at an elevation of over 2,000 feet. Treeline in the area is at about 1,500 feet. Above treeline, the terrain is rugged and has alpine vegetation. Below the treeline, the area is covered with dense brush and timber.

History / Production

Copper was discovered near the summit of Mt. Baker in 1910. By 1917 over 300 feet of underground workings had been driven and numerous trenches dug. The workings exposed mineralized rock between elevations of 1,300 and 2,000 feet (Overbeck, 1919). The Bureau of Mines examined the property in 1952 and 1953 and conducted detailed rock and soil sampling (Thorne, 1960). Geo-Recon Inc. completed magnetic and self-potential surveys in the area in 1962 (Bush and Kenly, 1962). In 1971, an extensive soil sampling survey was conducted by Moerlein (1971) covering an area 1,000 feet wide and 1,400 feet long. production has occurred from this property.

Geology

The Mt. Baker copper occurrence is hosted in greenstone and consists of disseminations and localized masses of chalcopyrite and pyrite. It is classified as a basaltic copper deposit by Berg (1984). Aplite dikes intrude the greenstone, and

according to Berg (1984), the adjacent basaltic wallrock is altered and both dikes and wallrock locally contain disseminations and small masses of pyrite and chalcopyrite. The largest concentration of copper is hosted in a northwest striking, vertical, altered zone, 400 feet long. Samples taken from a trench at the southeast end of the zone contained 2.0% copper across 13 feet. A shallow shaft at the northwest end of the zone exposes 7.5% copper across 2 feet. Other smaller mineralized sections are exposed within the altered zone as well. Geochemical and geophysical studies indicate a possible three-mile extension of the zone (Kimball, 1982).

Land Use and Resource Issues

There are five land use and resource issues identified in the Mt. Baker KMDA. They relate to 1) a wilderness designation, 2) a recreation area, 3) a recreation area important to tourism, 4) anadromous fish streams, and 5) Sitka blacktail deer hunting.

The entire Mt. Baker KMDA is included in the West Chichagof-Yakobi Wilderness. Along the southeast edge of the KMDA is an area designated for recreation and is recognized as important for tourism. This area includes the course of a major drainage, which is an anadromous fish stream. There is at least one other anadromous fish stream that drains the area of known mineralization. There is a moderate level of deer hunting recognized in the area.

Mineral Development Potential

The possible three-mile extent of mineralized rock, as indicated by geophysics and geochemistry, encourage continued exploration of this deposit. However, the evident lack of continuity of the copper mineralization warrants

a medium mineral development potential for the area. The mining claims associated with this property are no longer active, so the area has reverted to a wilderness designation where mineral development is not allowed.

Mt. Muravief KMDA²

Location / Access

Mt. Muravief is located on the southeast side of Baranof Island, north of Port Herbert and just south of Deep Cove, which is near Patterson Bay (Plate 1, KMDA no. 12). The three mineralized areas on Mt. Muravief are located between 2,400 and 3,000 feet elevation, above the local treeline. The area is marked by rugged topography with Mt. Muravief standing at 3,330 feet. The general area may be accessed by boat. Cliff Lake to the north and Deer Lake to the south are suitable for float plane landing. However the high elevation of the occurrences makes helicopter access preferable (see Fig. 8).

History / Production

Donald MacDonald, now of Pelican, Alaska, reportedly brought pieces of copper-bearing rock to the Bureau of Mines in Juneau for identification sometime around 1969. Copper had originally been discovered in the area in the 1930's when a 'Vevelstad' held claims there (D. MacDonald, personal communication). A petrographic report, generated by MacDonald's request for sulfide identification (Gnagy, 1969), was discovered by BLM personnel during the

current study. Examination of the area in the fall of 1996 resulted in the location of three mineralized occurrences on Mt. Muravief. Only one of the occurrences shows evidence of development, which includes minor stripping and a small opencut. No production has occurred from the property.

Geology

The copper occurrence at Mt. Muravief is associated with greenstone lenses hosted in Cretaceous Sitka Graywacke. The mineralized rock is commonly concentrated along the greenstone-graywacke contacts and occurs in both lithologies. The association between the copper mineralization and greenstones is unclear, although the secondary nature of mineralization is apparent. A specific deposit type has not been determined for the occurrence.

BLM personnel located copper-mineralized rock in three main areas on the slopes of Mt. Muravief, 1) in a cirque on the southwest side of the mountain, 2) on a ridge extending from the peak to the west, and 3) on the north face of the mountain (see Fig. 8). In each of these areas the copper minerals are associated with lenses of greenstone within the surrounding

²Additional information on the South Baranof area including Mt. Muravief is provided in the "BLM Work in 1997" section of this report (p. 73).

metasedimentary rocks. The lenses are up to 100 feet wide and extend up to 1,000 feet along strike. Overall, the lenses strike generally to the northwest and dip steeply to the southwest.

Copper minerals in the area occur disseminated in greenstone and graywacke, in massive sulfide lenses, and associated with a volcaniclastic breccia. The sulfides, mainly pyrrhotite and chalcopyrite, occur in seams parallel to the foliation and in patches that cut across the foliation. The greenstone and graywacke hosting the disseminated minerals are commonly ironstained and schistose.

BLM personnel collected 32 samples from the 3 mineralized areas on Mt. Muravief. The samples indicate copper grades up to 6.33% (Plate 2, Map no. 301, sample 1473), gold to 600 ppb (Plate 2, Map no. 302, sample 1433), silver to 14.5 ppm (Plate 2, Map no. 301, sample 1474), and zinc to 2,200 ppm (Plate 2, Map no. 301, sample 1474). A sample across 18 feet of the mineralized, altered schist on the west ridge returned 1.63% copper, 3.6 ppm silver, and 560 ppm zinc (Plate 2, Map no. 301, sample 1427).

Two hundred and twenty stream sediment samples were collected from Baranof Island, south of the South Baranof Wilderness area, in an attempt to locate additional copper occurrences. Copper-, zinc-, gold-, and silver-anomalous samples were present in the sample set (see Fig. 10) and follow-up traverses were made to locate sources, however, no significant occurrences were discovered.

Copper-mineralized rock was examined in several locations in the Mt. Muravief area. However, the location of the occurrence described by Gnagy (1969) that led the BLM to the area may not have been located. The petrographic report describes stringers of

massive chalcocite; no such occurrence was discovered during the field examination.

Land Use and Resource Issues

There are three land use and resource issues identified in the Mt. Muravief KMDA. They relate to 1) a recreation area, 2) anadromous fish streams, and 3) Sitka black-tail deer hunting.

The primitive recreation designation covering the Mt. Muravief KMDA does not specifically preclude mineral development. Development, however, would have to include mitigation measures to protect the anadromous fish streams in the area. At least one anadromous fish stream drains the area with the known occurrence on the north side of Mt. Muravief itself. There is a moderate level of deer hunting recognized in the area as a whole, but hunting pressure is likely to be low in the immediate Mt. Muravief vicinity.

Mineral Development Potential

The Mt. Muravief area has a low mineral development potential. The style of mineralization present is not common elsewhere in southeast Alaska, and is not known in deposits with historic development. In addition, the greenstones with which the mineralization is associated are limited in occurrence on southern Baranof Island. The geochemical stream sediment sampling program carried out by the BLM did not locate significant mineralized rock.

The Mt. Muravief area deserves further examination, however. The "massive chalcocite from stringers" mentioned in a petrographic report from the area (Gnagy, 1969) was not located by the BLM during the present study. Although the development potential remains low, the possibility of additional mineral occurrences in the area may be investigated.

OTHER MINES, PROSPECTS, OR MINERAL OCCURRENCES

Kaiser Gypsum Mine

The Kaiser Gypsum Mine is located on eastern Chichagof Island at Iyoukeen Cove, about 35 miles southwest of Juneau (Plate 1, Prospect no. P21). The deposit and mine workings are located about one mile up Gypsum Creek, north of Iyoukeen Cove.

Gypsum was first discovered at Iyoukeen Cove in 1902. Soon after, the Pacific Coast Gypsum Company began developing the deposit. Workings consisted of two shafts, a raise, and up to 3,500 feet of drifts. The deepest workings were 300 feet below the surface. Pacific Coast Gypsum produced 500,000 tons of gypsum from 1906 to 1923. Flooding by a creek that cuts across the property was an ongoing problem at the mine, and pumps were necessary to keep the underground workings open (Stewart, 1932b; Flint and Cobb, 1953). In 1923 the mine flooded and was closed. The mine's closure may have been due to the flooding or lack of adequate reserves (Flint and Cobb, 1953). The Bureau of Mines drilled the deposit in the early 1960's, but drilling difficulties prevented the calculation of resources. Six claims covering the deposit were patented in 1915 (MS647). The patented claims apparently became delinquent for tax reasons and were acquired by the Kaiser Company Gypsum in the late 1950's (unpublished BLM records).

The Kaiser Gypsum deposit is hosted in the limestone and shaley limestone of the Mississippian Iyoukeen Formation. It consists of translucent gypsum, mostly pure white in color with irregular narrow gray bands. A limestone

breccia that may be a fault breccia or an intraformational breccia at the top of the limestone is in contact with the gypsum. The limestone is cut by irregular lamprophyric dikes. Whether the deposit is sedimentary or hydrothermal in origin has not been established (Flint and Cobb, 1953; Loney and others, 1963). A petrographic examination of samples from Iyoukeen Cove led Gnagy (1962) to suggest the gypsum to be tectonically mobilized and of sedimentary origin.

Resources at the Kaiser Gypsum Mine have not been determined. It is possible that the Pacific Coast Gypsum Company ceased operations in 1923 because of flooding and not because of a lack of adequate reserves. In 1924 the Standard Gypsum Company acquired the property and tried unsuccessfully to resume operations. The fact that this company attempted to reactivate the mine suggests that they may have had some knowledge of additional reserves (Flint and Cobb, 1953). On the other hand, the Standard Gypsum Company also acquired the nearby Camel Gypsum property in 1924, and may have tried to begin commercial operations there (Redman, 1989). They may have had no knowledge of additional reserves at the Kaiser Gypsum Mine. BLM records mention a possible 4.5 million-ton reserve of gypsum remaining in the Kaiser deposit. This figure was apparently derived from descriptions of the underground workings of the mine at the time of closure and was mentioned by J. Cole, of the Kaiser Gypsum Company (unpublished BLM records).

Camel Gypsum

The Camel Gypsum deposit is located on the east side of Chichagof Island at Iyoukeen Cove, about 35 miles southwest of Juneau (Plate 1, Prospect no. P20). The gypsum deposit and workings are located near the beach and are accessible by boat or float plane.

Gypsum was discovered at the Kaiser Gypsum property (p. 67) near Iyoukeen Cove in 1902 (Flint and Cobb, 1953). In 1910, a second deposit was discovered at the Camel Gypsum property, about 1.2 miles to the east. By 1942 the Camel Gypsum deposit had been developed by 5 adits, 3 winzes, and a sublevel drift with a total length of 1,060 feet (Jermain and Rutledge, In 1946, Fir-Tex Insulation Board Company of Oregon optioned the property (Flint and Cobb, 1953). In 1948, Bureau of Mines engineers cleaned and pumped out the winzes and adits, mapped and sampled the property, and drilled two holes (Jermain and Rutledge, 1950, 1952). In 1962 the Bureau of Mines conducted further development work, drilling an additional four holes (U. S. Bureau of Mines, 1962).

The gypsum deposit is hosted in the limestone

and shaley limestone of the Mississippian Iyoukeen Formation (Loney and others, 1963). It consists of gypsum, mostly pure white in color, which in places grades to light bluish gray. The gypsum is fine grained and translucent, and approaches alabaster in grade (Jermain and Rutledge, 1952). It is associated with cream or buff limestone breccia and dark-gray cherty limestone. The origin of the deposit has not been determined. Whereas the proximity of a intrusive monzonite supports quartz hydrothermal origin, the deposit's restriction to the highest part of the Iyoukeen Formation suggests a sedimentary origin (Loney and others, 1963). Gnagy (1962) suggests a tectonically mobilized deposit of sedimentary origin, based on petrographic examination of gypsum samples.

According to unpublished information generated by the 1948 Bureau of Mines examination, "the Camel Gypsum deposit is of small economic importance." Based on sampling and drilling of the deposit, the Bureau of Mines estimated an indicated and inferred resource of 92,500 tons of gypsum (Jermain and Rutledge, 1950).

Sealion Cove

Narrow quartz veins are exposed in the intertidal zone near Sealion Cove, on the northwest end of Kruzof Island (Plate 2, Map no. 173). BLM personnel examined the area in 1995 and 1996 (Maas and others, 1996; Bittenbender and Still, 1997). Quartz veins in the area were originally reported by Loney and others (1963) as containing molybdenum and minor copper. BLM sampling revealed low copper and molybdenum values, but anomalous gold concentrations.

The Sealion Cove quartz veins are from a quarter to a half foot in width, and are oriented from about 300° to 070° and have steep dips. They commonly pinch and swell, and anastomose along strike. The veins are exposed for up to 100 feet along strike, between tidewater and inland vegetation. They crop out for about 200 feet along the shoreline. The veins are hosted by hornfelsed graywacke and generally crosscut felsic dikes that intrude the area. Bedding in the graywacke is oriented

about 310°. A brecciated zone in the hosting hornfels includes graywacke clasts and quartz stringers. The zone contains minor pyrrhotite that locally comprises up to one to two percent of the rock. There is no obvious structural control to the veining in the area. Small northerly trending faults, with offsets of one to two feet, cut the veins in some places.

The quartz veins contain minor amounts of sulfides including pyrrhotite, arsenopyrite, and

chalcopyrite. Vein samples revealed gold values up to 2,450 ppb (Map no. 173, sample 2769). One sample of the graywacke hornfels adjacent to the vein contained 2,360 ppb gold and 6,900 ppm arsenic (Map no. 173, sample 1460). Higher gold values are commonly associated with the higher arsenic values. Samples of the brecciated zone in the hornfels contained very low precious metal values (Map no. 173, samples 1462, 1463).

Big Ledge

The Big Ledge prospect (Plate 2, Map no. 106) is situated at an elevation of 500 feet, on the north side of Tenakee Inlet, about 8 miles east of Tenakee Springs and 1.6 miles west-southwest of East Point. The prospect consists of a nickel-copper bearing dike exposed in a small gully. The site was discovered sometime prior to 1923, when it was examined by Buddington (1925). Claims covering the prospect were staked and maintained between 1955 and 1957, otherwise no activity or development has been recorded (unpublished BLM records).

BLM personnel examined the Big Ledge occurrence in 1995. The occurrence consists of sulfides hosted in a mafic dike. The dike is oriented north-south and vertical to steeply eastward dipping. It is exposed for about 100 feet on the east bank of a steep gully and is about 40 feet thick at one end and about 10 feet thick at the other. Whether the wedge shape is due to incomplete exposure or a fault that cuts the dike has not been determined. Gouge along the western edge of the dike indicates fault movement, but heavy vegetative cover prevents definitive determination. The dike is cut off along strike by a fault in the creek that forms a gully to the south and is covered by vegetation

to the north. About 40 feet north and above the dike is a 25-foot trench, 2 feet wide that is sloughed and overgrown. Only conglomerate rubble was found in the bottom of the trench. The dike is hosted by a conglomerate member of the Silurian to Devonian Kennel Creek Limestone (Loney and others, 1975). Prominent iron staining marks weathered surfaces of the mafic dike.

Sulfides in the dike at Big Ledge include pyrrhotite, chalcopyrite, pyrite, and pentlandite, and occur as stringers, knots, and disseminations. The stringers are commonly parallel to the margins of the dike and average about one eighth inch thick. One stringer ranged up to half an inch thick and 2.8 feet long. Shearing of the dike is evident parallel to the stringers. The knots of sulfides are up to six inches across.

Samples collected by BLM personnel reveal moderate grades of copper and nickel with some zinc, cobalt, gold, and silver. The weighted average of two samples returned 0.84% nickel and 0.91% copper over 40 feet (Map no. 106, sample nos. 2051, 2052). Another measured sample contained 0.96% nickel, 2.25% copper,

8.8 ppm silver, and 502 ppb gold over 4 feet (Map no. 106, sample no. 2120). A select sample contained 4.4% nickel, 7.02% copper,

1,066 ppm zinc, 910 ppm cobalt, and 22 ppm silver (Map no. 106, sample no. 2121).

East Point Pit

A rock pit located on the south side of a road above East Point (north of Tenakee Inlet) was examined during this study (Plate 2, Map no. The pit is about nine miles east of Tenakee Springs and eight tenths of a mile due east of East Point. The pit contains float boulders with massive sphalerite and associated galena and chalcopyrite. Limestone of the Silurian to Devonian Kennel Creek Formation (Loney and others, 1975) is the dominant rock type in the pit, although a mafic dike trending 015° and dipping 60° northwest cuts through the pit. The dike may be related to the sulfide mineralization. A few of the sulfide-rich boulders contain pieces of dike material. Other dikes found in the pit contain pyrite and/or pyrrhotite, but no other sulfides were found.

The sphalerite is reddish-black and yellow in color and occurs as large clots up to three inches across, and as wisps, tubes, and disseminations. It appears to have selectively replaced parts of the limestone, and does not appear to be structurally controlled. Galena and chalcopyrite are found in lower concentrations within the sphalerite. Much of the limestone outcrop near the dikes contains ankerite or siderite, but no sulfides were found. High-grade samples contained up to 52 ppm silver, 26.4% zinc, 1.74% lead, and 460 ppm copper (Map no. 104, samples 2048, 2119).

Gypsum Creek

BLM geologists examined rock exposures along a logging road on the north side of Gypsum Creek (Plate 2, Map nos. 57-66). Skarn mineralization is exposed in two rock pits and several road cuts, and occurs on both sides of the contact between fossiliferous cherty limestone and granodiorite. The limestone is part of the Mississippian Iyoukeen Formation and the intrusive has been mapped as hornblende-biotite adamellite (Loney and others, 1975).

The easternmost pit is the larger of the two pits and exposes a zone of sheared hornfels and endoskarn up to 60 feet wide. This zone locally contains abundant pyrite, pyrrhotite, and minor chalcopyrite. Garnet, epidote, diopside, and calcite are evident in the endoskarn. A sample of massive pyrrhotite with small stringers of chalcopyrite contained 116 ppm copper and 310 ppm nickel (Map no. 57, sample 2076). No precious metal values were found in the sample. Pyrite seams up to half an inch thick are found in the limestone.

The west pit is located about two and a half miles to the west and exposes similar, but less extensive skarn minerals. A two-foot-wide zone of gossanous, mineralized hornfels containing chalcopyrite and pyrrhotite was sampled and contained 2,210 ppm copper (Map no. 64, sample 2080). Two samples taken from

rubble in the pit (Map no. 65, samples 2139-2140) contained up to 1,950 ppm copper, 28 ppm molybdenum, 300 ppm cobalt, 0.4 ppm silver, and 50 ppb gold. Although the metal values in the skarn are low, the presence of this

type of mineralization is noteworthy. These exposures broaden the extent of skarn-type deposit potential on the east side of Chichagof Island.

BLM WORK IN 1997

Mt. Muravief

A copper occurrence in the Mt. Muravief area (Plate 2, Map nos. 301-305) on southern Baranof Island was apparently discovered in the 1930's. At that time, claims in the area were reportedly held by 'Vevelstad.' Donald MacDonald, a prospector, found additional mineralized rock in the area and brought samples to the Bureau of Mines office in Juneau for sulfide mineral identification (D. MacDonald, personal communication). A subsequent petrographic report indicated the presence of chalcocite and bornite in the samples. report described "massive chalcocite from stringers" and other outcrops of copper-bearing rocks on the slopes of Mt. Muravief (Gnagy, Following up on the report, BLM workers located copper minerals in the area in the fall of 1996. During 1997, workers mapped and sampled the occurrence. In an effort to locate additional mineralized rock in the area, a stream sediment geochemical sampling plan was carried out. Anomalous sample results were investigated without significant finding additional occurrences.

The Mt. Muravief area is located within the Chugach terrane (Monger and Berg, 1987). On southern Baranof Island, the terrane is composed of the Sitka Graywacke (Loney and others, 1975), which represents a Cretaceous accretionary wedge complex of flysch and melange (Plafker and Berg, 1994). The area was mapped by Loney and others (1975) as lineated, schistose graywacke and slate, where the Sitka Graywacke has undergone dynamothermal metamorphism.

The country rock in the Mt. Muravief area consists of interlayered graywacke and argillite,

with minor greenstone (Fig. 8). In places the layering of the graywacke and argillite is distinct; in others, ductile deformation has transposed bedding such that stretched, rounded clasts and boudins of graywacke are surrounded by argillite. The rock is well foliated with foliation generally striking to the northwest and dipping steeply to the southwest. Tight to open folds, defined by folded foliation surfaces and compositional layering, have axes that plunge about 30° to the southeast. Iron staining is common on weathered surfaces. The staining is probably derived from oxidation of pyrrhotite that commonly occurs in elongate lenses parallel to the foliation.

Several sets of brittle faults cut the rocks in the Mt. Muravief area and postdate the metamorphic fabric and folding. The faults shown in Figure 8 were determined from air photo lineations and from ground observation. The northwest and east-west trending faults appear to be the youngest and crosscut the more predominant northeast trending faults. Only small offsets were observed on any of the faults in the area. Indicators of sense-of-movement were not definitive.

BLM personnel located copper-mineralized rock in three main areas on the slopes of Mt. Muravief, 1) in a cirque on the southwest side of the mountain, 2) on a ridge extending from the peak to the west, and 3) on the north face of the mountain (Fig. 8). In each of these areas the copper minerals are associated with lenses of greenstone within the surrounding metasedimentary rocks. The lenses are up to 100 feet wide and extend up to 1,000 feet along strike. Overall, the lenses strike generally to the

northwest and dip steeply to the southwest. They are elongate parallel to the foliation in the metasediments. The contacts between greenstone and metasediments appear to be depositional or intrusive and predate the metamorphic fabric. The lenses are tightly folded, with fold axes plunging 15° to 40° to the southeast (Fig. 9). The folds are commonly asymmetric, which in places are consistent with parasitic folds on larger fold structures. The greenstone lenses show some evidence of brittle deformation, whereas the surrounding country evidence of more ductile rock shows deformation. In places, tension gashes filled with quartz are limited to the greenstone.

The greenstone is dark greenish gray, fine- to medium-grained, and commonly well foliated (greenschist). It is made up predominantly of plagioclase, biotite, chlorite, and calcite with minor amphibole and epidote. The amphibole commonly forms porphyroblasts that crosscut the metamorphic foliation. The calcite occurs in lenses and pods that when weathered, causes the greenstone to have a pitted surface.

The copper minerals in the area occur disseminated in greenstone and graywacke, in massive sulfide lenses, and associated with a volcaniclastic breccia. At the West Ridge (Fig. 9), North Face, and SW Cirque occurrences, disseminated copper minerals are associated with an iron-stained, schistose part of the greenstone. This altered zone is commonly concentrated near the greenstone-graywacke contact and occurs on both sides of the contact. The associated schists contain biotite, chlorite, plagioclase, and amphibole, plus sulfides. The sulfides, mainly pyrrhotite and chalcopyrite, occur in seams parallel to the foliation and in patches that cut across the foliation.

Along the west ridge of Mt. Muravief, massive

lenses of sulfide occur within the band of altered schists. The lenses are up to 3 feet wide and extend up to 10 feet along strike. The lenses are parallel to the surrounding foliation; they strike about 315° and dip about 60° to the southwest. Sulfides include pyrrhotite, chalcopyrite, sphalerite, and bornite. A few small specks of native copper were also found within a massive sulfide lens.

Copper minerals in float were found below the greenstone lens in the southwest cirque of Mt. Muravief. BLM personnel found a 12-foot by 8-3-foot boulder composed bv metamorphosed volcaniclastic breccia in which coarse-grained chalcopyrite and pyrrhotite is found in the matrix. Chalcopyrite is also disseminated in the fine- to very fine-grained metavolcanic clasts in the breccia. The breccia exhibits evidence of high strain with elongated clasts and a matrix that has flowed around the clasts. Small isoclinal folding of the clasts is also common.

In several locations on the north face of Mt. Muravief malachite stains greenstone surfaces. The source of the copper stain is chalcopyrite that is disseminated in the greenstone, concentrated along fracture surfaces, and forming patches and seams parallel to the foliation. One sample of this copper-bearing greenstone contained up to 3,900 ppm copper and 110 ppb gold (Map no. 303, sample 1444).

BLM personnel collected 32 samples from the 3 mineralized areas on Mt. Muravief. The samples indicate copper grades up to 6.33% (Map no. 301, sample 1473), gold to 600 ppb (Map no. 302, sample 1433), silver to 14.5 ppm (Map no. 301, sample 1474), and zinc to 2,200 ppm (Map no. 301, sample 1474). A sample across 18 feet of the mineralized altered schist on the West Ridge returned 1.63% copper, 3.6 ppm silver,

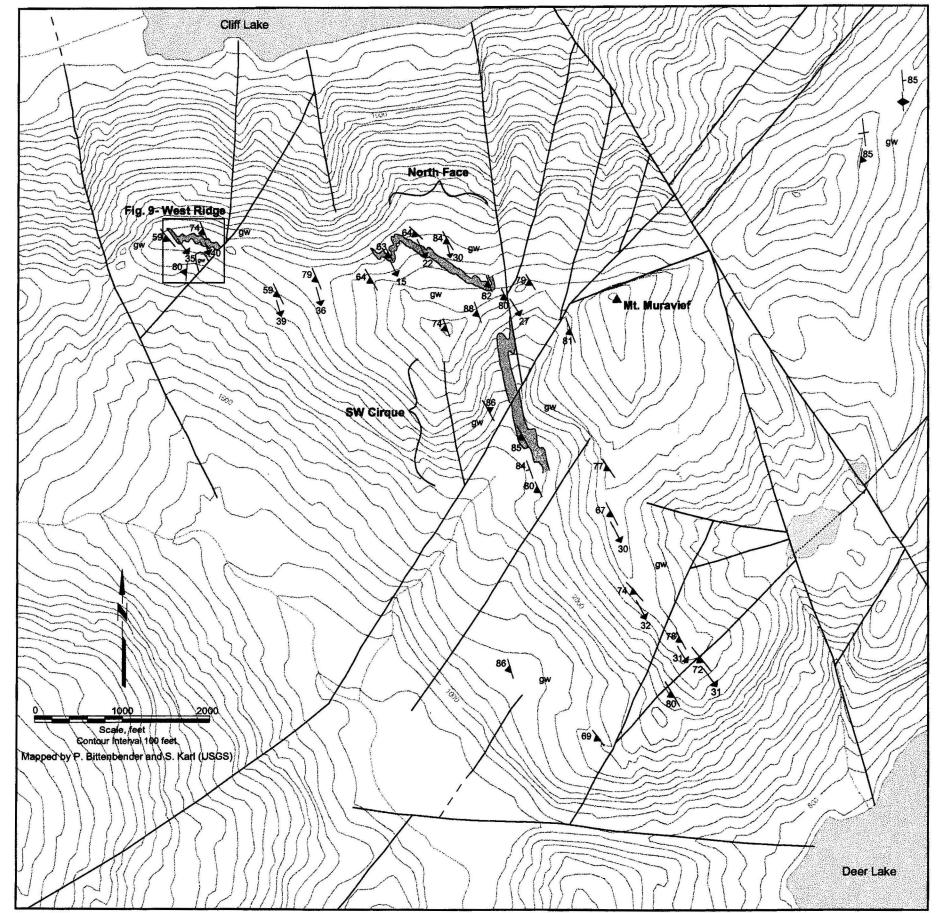
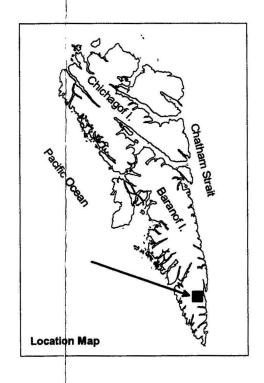
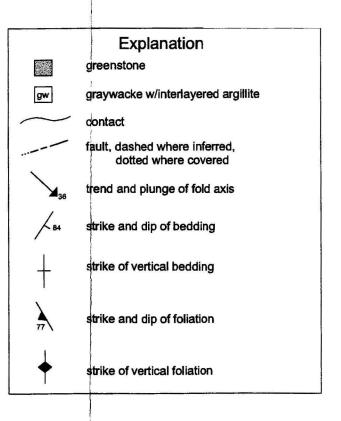
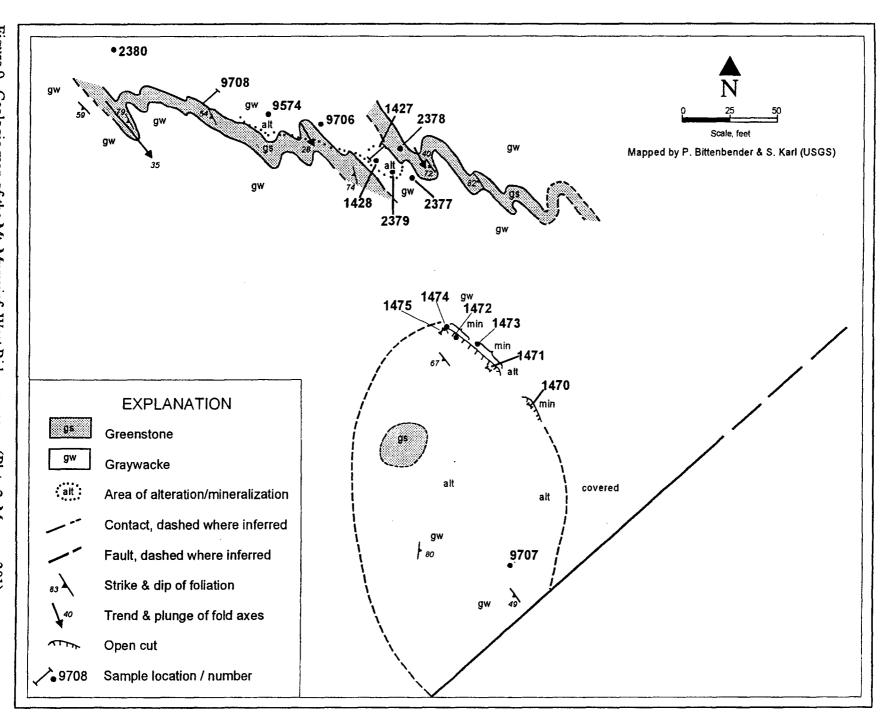


Figure 8. - General geologic map of the Mt. Muravief area.







and 560 ppm zinc (Map no. 301, sample 1427). The copper grades indicated by the sampling are lower than would be expected from examination of the massive sulfide lenses. However, closer examination indicates that the predominant mineral is pyrrhotite and that the chalcopyrite in the samples is mottled, with more than 50% made up of very fine-grained inclusions of an unidentified material.

Two miles west-southwest of Mt. Muravief, BLM personnel located another lens of foliated greenstone that is about 100 feet wide and extends about 400 feet up the slope of a mountain. Within the predominantly greenstone lens are sections of interlayered greenstone and argillite/graywacke with layers about 5 to 10 feet thick. In the interlayered sections the greenstone is silicified and iron stained, and contains minor chalcopyrite. One sample of the altered greenstone contained 1,300 ppm copper (Plate 2, Map no. 296, sample 1512).

Two hundred and twenty stream sediment samples were collected from Baranof Island, south of the South Baranof Wilderness area, in an attempt to locate additional copper occurrences. Copper-, zinc-, gold-, and silver-anomalous samples were present in the sample set and follow-up traverses were made to locate sources. No significant occurrences were discovered. Figure 10 shows the localities of the samples collected and highlights the anomalous samples. Anomalous values were assigned by

natural breaks in the sample sets that in each case were above the 95th percentile and/or 2 standard deviations above the mean. Anomalous value thresholds for copper, zinc, gold, and silver are shown in Figure 10. Analytical results from the stream sediment samples are presented in Appendix Table B-1 (between Map nos. 260 and 487, marked with an "SS" sample type).

The copper mineralization at Mt. Muravief appears to be epigenetic. It has been found only where greenstone lenses occur, but it cuts across greenstone-graywacke contacts. The association of copper mineralization and greenstone may be because the greenstone was the source for the copper. However, even though the quantities of copper are small, it far exceeds the quantity expected in the small amount of greenstone exposed. An alternate explanation for the association is that the competency contrast between the greenstone and graywacke may have provided avenues for fluid migration during deformation

Copper-mineralized rock was examined in several locations in the Mt. Muravief area. However, the location of the occurrence described by Gnagy (1969) that led the BLM to the area may not have been located. The petrographic report describes stringers of massive chalcocite; no such occurrence was discovered during the field examination.

Freshwater Bay

In 1997, BLM personnel examined a molybdenite and skarn occurrence located in a rock pit on Kennel Creek near Freshwater Bay on the east side of Chichagof Island (Plate 2, Map no. 87). Jim McDonald, an equipment

operator on contract to the Forest Service, brought a piece of rock containing molybdenite into the BLM office in Juneau. Subsequent examination of the pit included sketch mapping and sampling. The Freshwater Bay occurrence consists of molybdenite associated with a felsic intrusive that has intruded, migmatized, and hornfelsed the host sedimentary rock. A skarn mineral assemblage with minor sulfides occurs in the country rock and likely accompanied the intrusion (Fig. 11).

The country rock in the rock pit area is a metamorphosed conglomerate and banded hornfels. These rocks are probably part of the Silurian Point Augusta Formation (Loney and others, 1975). The conglomerate commonly contains pebble- to cobble-sized, rounded fragments of felsic and mafic intrusive rocks. Elongated fragments and mineral lineations define a crude foliation in the conglomerate. The conglomerate matrix is a siliceous, dark green-gray, fine-grained hornfels. fragments in the conglomerate in places appear to be migmatized and have scalloped to wavy edges. Some originally rounded fragments are not only flattened, but also stretched. Alteration in the conglomerate includes chloritization and the formation of skarn minerals.

Skarn minerals occur in pods and veins that cut across the foliation of the conglomerate. The pods are up to two feet across and three feet long, but, along with the veins, are generally only one to two inches across. Skarn minerals include garnet, epidote, chlorite, and minor wollastonite or tremolite. The pods are commonly zoned calcite with and wollastonite/tremolite in the middle, surrounded by garnet, then epidote, then chlorite. Minor sulfides are found in patches and seams, mainly in the matrix of the conglomerate. Sulfides include pyrrhotite and pyrite, plus a little chalcopyrite.

A leucocratic felsic intrusive crops out in several places in the rock pit. It is very light-colored,

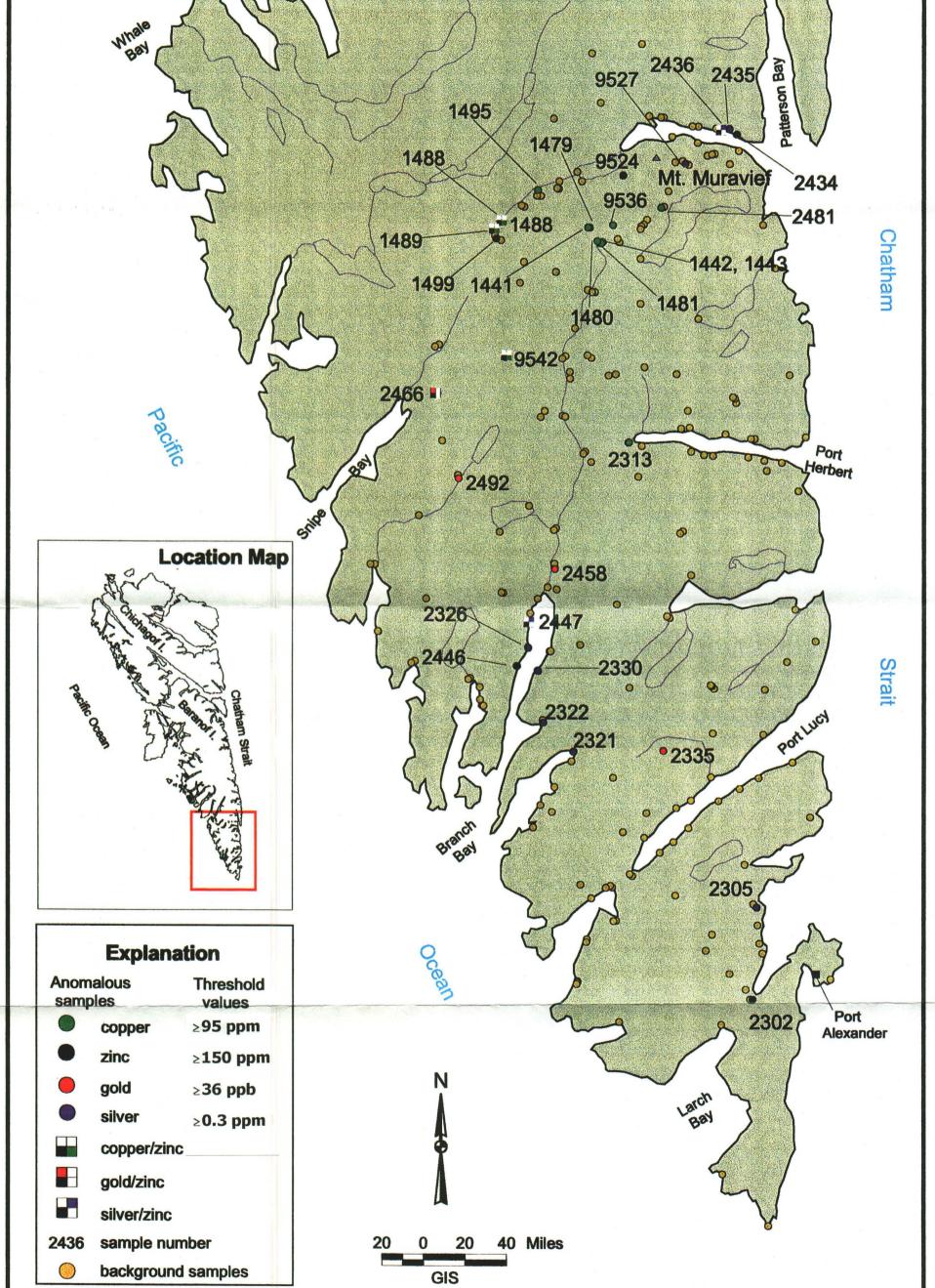
fine- to medium-grained, and includes minor mafic enclaves. It is made up predominantly of feldspar and quartz with less than five percent mafic minerals, mainly hornblende. Loney and others (1963, 1975) have mapped a Jurassic pluton of varying composition in the area. The intrusive in the pit likely corresponds to their mapped biotite alaskite or hornblende adamellite (Loney and others, 1975).

Molybdenite associated with the intrusive appears to be typical of porphyry-type occurrences. It commonly occurs as thin coatings on planar surfaces, in patches, and finely disseminated. In places the coatings are up to several tenths of an inch thick. Molybdenite is also associated with thin siliceous veinlets that commonly cut the intrusive and extend into the surrounding country rock. Patches and disseminations of pyrrhotite also occur in the intrusive.

Molybdenite is also associated with a mottled, dark grayish-green to dark gray, fine- to medium-grained migmatite. Mafic enclaves appear as breccia fragments in the altered, porphyritic melt fraction of the migmatite. In places the melt portion includes coarse, subhedral, phenocrysts of amphibole. migmatite is cut by numerous siliceous veinlets and is commonly chloritized. Molybdenite occurs most commonly as surface coatings or seams, but also with the siliceous veinlets, in small patches, and finely disseminated. Pyrrhotite is the only other sulfide seen in the migmatite.

BLM personnel collected 10 samples from the rock pit to assess the molybdenite mineralization (Table 4). No mineralized rock was seen in outcrop; most molybdenite was seen in the pit rubble. Several select samples of migmatized rock from the contact zone were collected from

90



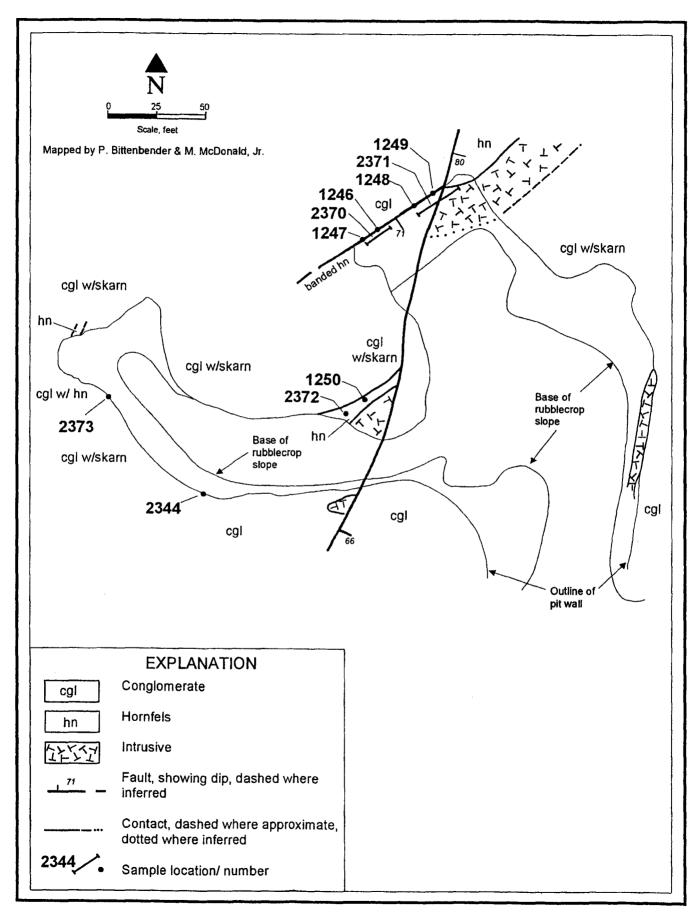


Figure 11. Geologic map of rock pit at Freshwater Bay molybdenum occurrence (Map no. 87).

pit rubble that contained up to 2,030 ppm molybdenum (sample 1248). Analyzed samples from the pit walls above the mineralized rubble failed to detect the molybdenum mineralization (samples 2370-71). No significant amounts of molybdenum were associated with the skarn assemblages.

The Freshwater Bay occurrence represents the intrusion of a molybdenum-bearing, felsic intrusive rock into metasedimentary country rocks. Migmatization and minor skarn mineral formation accompanied the intrusion. Porphyrystyle molybdenum mineralization is associated

with the intrusion itself as well as with the migmatized country rock and represents the later stages of intrusion. Additional work in the area should focus on the porphyry potential associated with the intrusion. No economic significance is indicated by the skarn occurrence at this location itself. However, additional small skarn occurrences have been identified in the area, particularly along Gypsum Creek, across Freshwater Bay to the northeast, and at East Point, to the southeast. The East Point Pit skarn and Gypsum Creek occurrences are described on page 70 of this report.

Table 4. Description and selected analytical results of samples collected at the Freshwater Bay rock pit. Sample locations are shown on Fig. 11. Abbreviation descriptions and additional analytical results can be found in Appendix B (p. 175)

Sam no.	Sam type	Sam size (ft)	Sam site	Sample description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Fe %
1246	S		RC	Contact zone	<5	<0.1	7 3	5	12	409	2.24
1247	S		RC	Banded hornfels w/ quartz veins & blebs	<5	<0.1	134	11	11	611	3.03
1248	S	1.5	RC	Banded green/black hornfels w/in a pebble conglomerate	<5	<0.1	57	4	23	2030	2.04
1249	S		RC	Quartz-rich granodiorite at contact, minor banded hornfels	<5	<0.1	66	3	9	822	2.0
1250	S		RC	Dark garnet hornfels	<5	0.2	168	5	82	1566	6.66
2370	sc	15	TP	Fault surface in skarnified hornfels	<5	<0.1	75	8	30	7 6	2.89
2371	SC	25	TP	Felsic intrusive w/ minor pyrrhotite & pyrite	<5	<0.1	50	6	19	70	1.6
2372	RC		RC	Heavily iron-stained hornfels w/ disseminated pyrrhotite	<5	<0.1	116	6	97	54	6.28
2373	Rep	3	TP	Dark gray hornfels w/ disseminated pyrrhotite & trace pyrite	<5	<0.1	68	5	109	49	4.98
2344	G	0.5	TP	Iron-stained hornfels w/ fine-grained disseminated pyrite & pyrrhotite	<5	<0.1	65	5	26	46	2.35

SPECIAL SECTION: SILVER BAY AREA

Introduction

Mining activity in the Silver Bay area influenced the history of Sitka and of southeast Alaska. Joe Juneau and Richard Harris, the prospectors credited with the announcement of gold on which Juneau was founded, were grubstaked by George Pilz, who came to Alaska to develop Silver Bay mining properties (DeArmond, 1997a). Though the Silver Bay properties contributed little to Alaska's mining industry, they represent several firsts in the industry. The State's first developed lode gold mine and the first stamp mill were in the Silver Bay area. The gold occurrences in Silver Bay may have more historical than geological significance, however.

setting and a model for vein formation is provided. More detailed history and site specific maps for selected properties are presented in the individual property summaries (beginning on p. 91). The summaries also discuss the work done by BLM personnel during the present study and the significant results of that work. Figure 12 shows the location of the various prospects in Silver Bay. Complete analytical results are available in Appendix B (p. 175). The "Map nos." listed with each property in the text refer to Figure 12 and Plate 2. The analytical table in Appendix B is ordered by these map numbers.

Bay area. It briefly discusses the area's general

history and mineral production. The geologic

This section provides an overview of the Silver

Location and Access

The Silver Bay area is located southeast of Sitka (Fig. 12). It includes historic mines, prospects, and mineral occurrences around Silver Bay itself as well as properties east of Sitka in the Indian River basin. Access to the properties near sea level is possible by small boat from Sitka and by floatplane. The higher elevation sites are most

easily accessed by helicopter. Access to the area is also possible via private road along the northeast shore of the bay, which serves the Green Lake hydro-power station and reservoir. Several trails in the area allow access by foot as well.

History / Production

Mining activity in the Silver Bay area represents some of the first of its kind in Alaska. Prospecting for gold in the area began around 1871. The first gold reportedly discovered in the Sitka area was by an ex-soldier, Edward Doyle, who found gold-bearing float in the Indian River east of Sitka. Prospecting at the head of Silver Bay soon followed. Edward Doyle, Frank Mahoney, and William Dunlap are credited as the first gold prospectors in the

Silver Bay area in about 1871 (DeArmond, 1997a). Initial development of the Stewart Mine in 1872 (Knopf, 1912) represents the earliest lode gold mining in Alaska (Alaska Yukon Mining Journal, 1901). The Stewart's stamp mill, which first operated in 1879, was the first to operate in Alaska. The first claims were recorded in 1874 for the Francis Lode, in the Lucky Chance Mine area (DeArmond, 1997a). The early interest in the Silver Bay area was

curtailed by the exodus of miners to the new gold discoveries around Juneau in 1880-81. The Klondike Rush of 1897 also drew the interest of miners away from the area. Nonetheless, the Silver Bay area has seen continued prospecting even to the 1990's. From 1981 to 1993, Phillips Petroleum held a block of up to 184 claims in the Silver Bay area. Over 100 years of activity has left behind a complex history of claim names, owners, and prospect development.

Despite the early start of mining in the area, Silver Bay produced only minor amounts of gold. The two most prominent properties, the Stewart and Lucky Chance Mines, boasted 10-stamp mills, but officially recorded no production. Newspaper accounts record the activity at the mines (DeArmond, 1997a) and, along with evidence from the properties themselves (e.g., stopes and tailings), indicate

that only minor production occurred. Stewart mill operated for one or two years and some of its production reportedly came from rock hauled in from other Silver Bay prospects (DeArmond, 1997a). Roehm (1940) cites an earlier report that about 60 tons of ore had been processed at the Lucky Chance mill by 1887. He also estimated that about 1,200 tons of ore were removed from the stopes at the mine (Roehm, 1940). The only other mill known in the area was at the Edgecumbe Exploration Company's Bonanza Nos. 21 & 22 claims on the southwest side of Silver Bay. This mill was apparently active in the 1940's, and may also have milled rock from other prospects in the area (J. Burgess, personal communication). No production figures are available, but evidence suggests that any production that occurred was minor.

Geology

Gold in the Silver Bay area is hosted in quartz veins in graywacke and argillite of the Cretaceous Sitka Graywacke. The Sitka Graywacke is part of the Chugach terrane (Monger and Berg, 1987) which represents an accretionary complex of flysch and melange (Plafker and Berg, 1994). The discontinuous quartz veins and lenses are up to 16 feet thick (e.g., Stewart), but are generally barren. They commonly include fragments and partings of graywacke and argillite, but very few sulfides. The sulfides present are pyrite, pyrrhotite, arsenopyrite, and rare galena. The veins and lenses are commonly parallel to the structure in the country rock, which is generally northwest trending and steeply dipping.

Recent work by the USGS has correlated Eocene magmatism related to subduction off the

coast of Chichagof and Baranof Islands with vein formation in Silver Bay (Haeussler and others, 1995). They relate the thermal event responsible for the magmatism mineralization to subduction of a slab window beneath the overlying accretionary complex. An age of 49.4 Ma, from white mica in quartz veins from the Lucky Chance Mine, correlates to subduction of the Kula-Farallon spreading ridge beneath the North American plate. The quartz veins in Silver Bay were emplaced along fractures that may have propagated during subduction of the topographic high related to the spreading ridge (Haeussler and others, 1995). Alternatively, the veins may have been controlled by preexisting faults such as those of the Sitka fault zone (Loney and others, 1975; Brew, 1997).

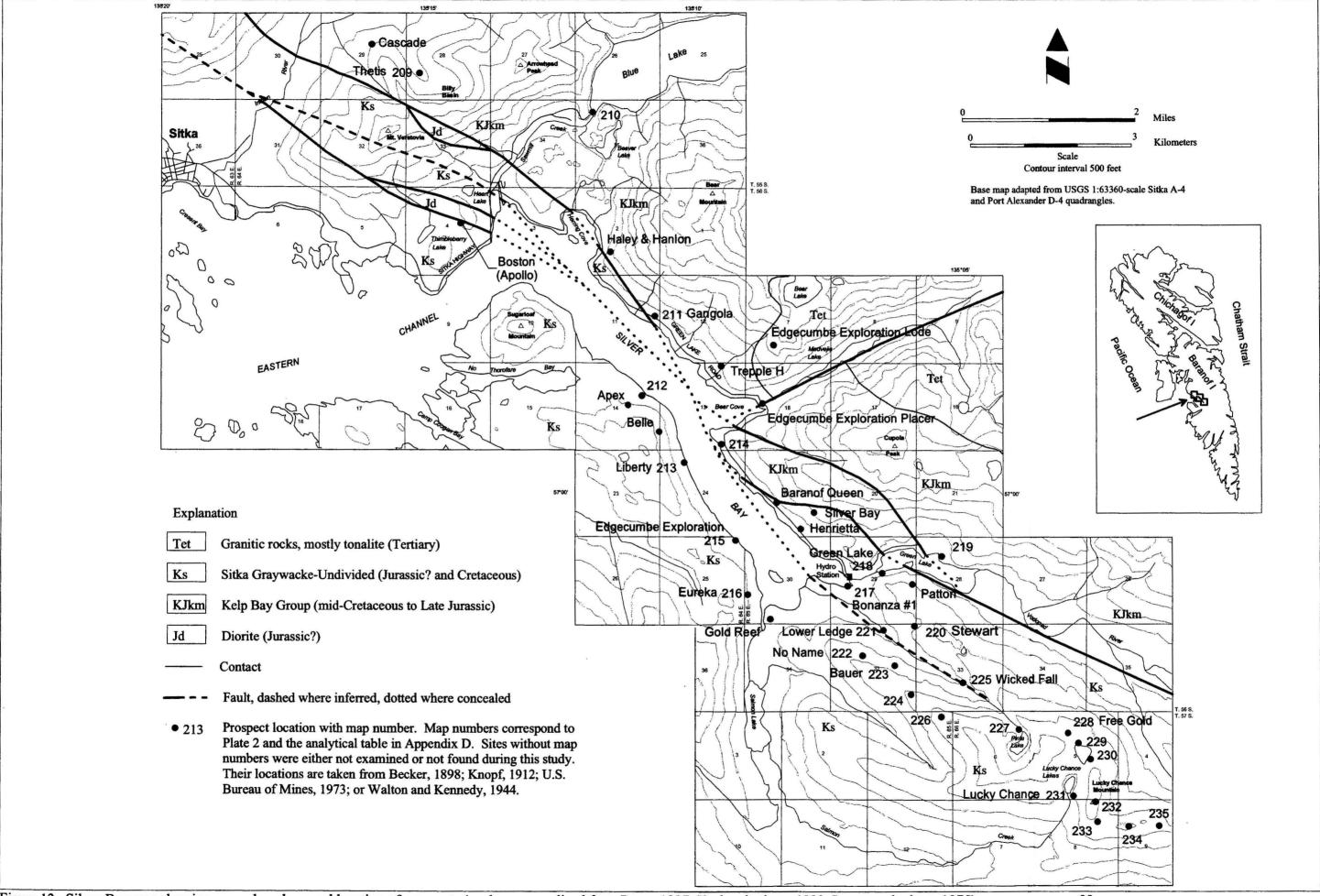


Figure 12. Silver Bay area showing general geology and location of prospects (geology generalized from Brew, 1997; Karl and others, 1990; Loney and others, 1975).

Selected Mines and Prospects

THETIS (Fig. 12, Map no. 209)

The Thetis prospect is located in an area known as Billy Basin, on the east fork of the Indian River, northeast of Sitka. The Thetis claim was one of four claims staked in the area by William Millmore in 1888 (DeArmond, 1997a). Reference is made to the property in Becker (1898) and Wright and Wright (1905). These publications report two adits in the area as well as a sawmill and two "prospecting mills." Becker describes the occurrence as two and a half feet of quartz with calcite, pyrrhotite, and galena. He reports a mill test as yielding seven dollars worth of gold and one dollar of silver in 1898 (Becker, 1898). Based on a gold price of \$20 an ounce, this gold grade equals 0.35 oz per ton, a value significantly higher than that found in most places in the Silver Bay area.

BLM personnel located, mapped, and sampled one adit in the Thetis area (Fig. 13). The 28-foot adit cuts graywacke with discontinuous quartz stringers. A quartz vein adjacent to a north trending fault in the adit was sampled along with a sample of the quartz stringers. Gold values were below analytical detection limits (sample nos. 1450-53).

GANGOLA (Fig. 12, Map no. 211)

Joseph Gangola, a Sitka prospector, staked a tungsten claim in 1970 on the northeast side of Silver Bay between Herring Cove and Bear Cove. BLM workers examined the area and found a quartz vein exposed in the bed of a small stream and two additional quartz veins located 130 and 145 feet to the southeast. The veins are hosted in Kelp Bay greenstone. They strike 035° to 070°, dip steeply, and are up to 1.5 feet thick along a 15-foot strike length. Scheelite, chalcopyrite, and pyrrhotite were found in the veins. The southernmost vein is exposed at an elevation of 260 feet by a small open cut measuring 5 feet wide. This vein contained the

most sulfides and highest metal values. A 1.5-foot-long chip sample taken across the vein at the cut contained 80 ppb gold, 375 ppm copper, and 380 ppm tungsten (sample 2570). A sample of sulfide-bearing, iron-stained greenstone on either side of the vein contained 570 ppb gold, 960 ppm copper, and 1,100 ppm tungsten (sample 2572). A select dump sample of sulfide-bearing quartz contained 85 ppb gold, 260 ppm copper, and 760 ppm tungsten (sample 2573). Samples of the remaining quartz veins contained up to 450 ppb gold, 169 ppm copper, and 180 ppm tungsten (sample 2575).

APEX (Fig. 12, Map no. 212)

The Apex prospect is located on the west side of Silver Bay, northwest of the Liberty prospect. Historical reference to this property is limited to Knopf (1912). BLM geologists examined the Apex area and found abundant quartz float in a

small creek, a quartz-breccia vein cropping out in a fault zone, and an eight-foot adit. The vein strikes 330°, dips 75° southwest, and is up to 1.7 feet wide. Arsenopyrite and trace chalcopyrite were found in the vein and associated gouge

zone. A sample across the vein (sample 2018) contained 270 ppm copper, 44 ppm arsenic, and 0.2 ppm silver. A select sample of quartz float found in a nearby creek contained 920 ppm

copper and 1.0 ppm silver (sample 2017). The highest gold value from the area was only 40 ppb (sample 2107).

LIBERTY (Fig. 12, Map no. 213)

The Liberty property is mentioned in a report on mining in Alaska during 1896 and 1897 (Becker, 1898). Its discovery date is unknown. The property includes 2 adits that are 30 feet and 300 feet in length (Fig. 14). The adits are adjacent to each other and are found within 10 feet of high-tide line on the west side of Silver Bay. The adits cut graywacke, graywacke and phyllite, and slate. In the longer adit, a discontinuous quartz vein is exposed for about 100 feet and is up to 5 feet wide. It is a continuation of a vein that is exposed in a creek 80 feet above the adit. The

vein is situated along a fault zone between slate on the footwall, and graywacke and phyllite on the hanging wall, and in places forms the matrix of a fault breccia. The quartz contains minor amounts of sulfides, mainly pyrite. Analytical results revealed low precious metal values. The highest gold value was 60 ppb across 3 feet (sample 2236). Most of the samples had elevated arsenic values and two samples contained more than 2 ppm mercury (2235, 2236).

EDGECUMBE EXPLORATION, BONANZA NOS. 21 & 22 CLAIMS (Fig. 12, Map no. 215)

The Bonanza Nos. 21 & 22 claims were held by the Edgecumbe Exploration Company that was founded in Sitka in 1930. Charlotte Taylor, President of the company, had control over many of the mining claims in the Silver Bay area in the 1930's and 1940's (Plate 3; DeArmond, 1997a). The history of the Bonanza Nos. 21 & 22 claims themselves is sketchy. A mill was erected on the property, probably in 1941. It was reportedly installed to process ore from the adjacent workings as well as from other claims Bay Silver (DeArmond, Developments include a 120-foot adit with a winze, and a raise to the surface. Much of the mill itself was recently removed from the property (J. Burgess, personal communication).

BLM personnel mapped and sampled the adit on the Bonanza claims (Fig. 15). The adit was driven in graywacke to undercut a four-footwide quartz vein that crops out near the top of the raise. The vein is emplaced along a fault zone. Underground, the quartz reaches a width of five feet, but pinches and swells along strike. The vein is oriented about 320° and dips 60° to 85° to the southwest. It pinches out to the southeast and is cut off by a fault to the northwest. Subhorizontal fault movement after vein emplacement is evident by lineations on the vein's margins. Much of the vein is made up of barren milky quartz, but graphitic ribbon texture is also present. Pyrite and arsenopyrite are present as disseminations as well as localized adjacent to the ribbons in the vein. Analytical results indicate relatively low precious metal values. The highest assays were 1,810 ppb gold in a select sample (sample 2162) and 1,170 ppb gold across 0.7 feet (sample 2161). commonly found elsewhere in the Silver Bay area, high arsenic and elevated mercury values are associated with the higher gold values.

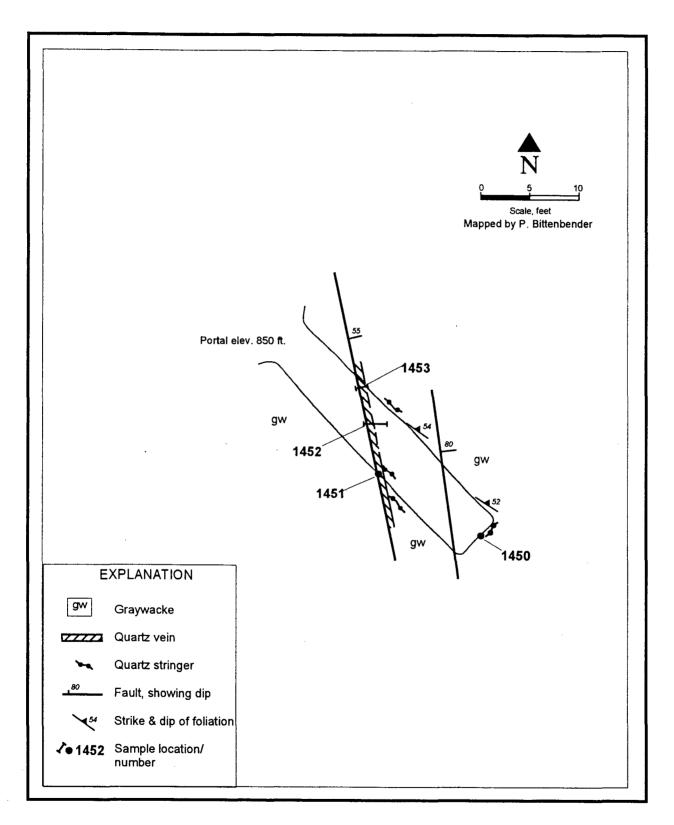
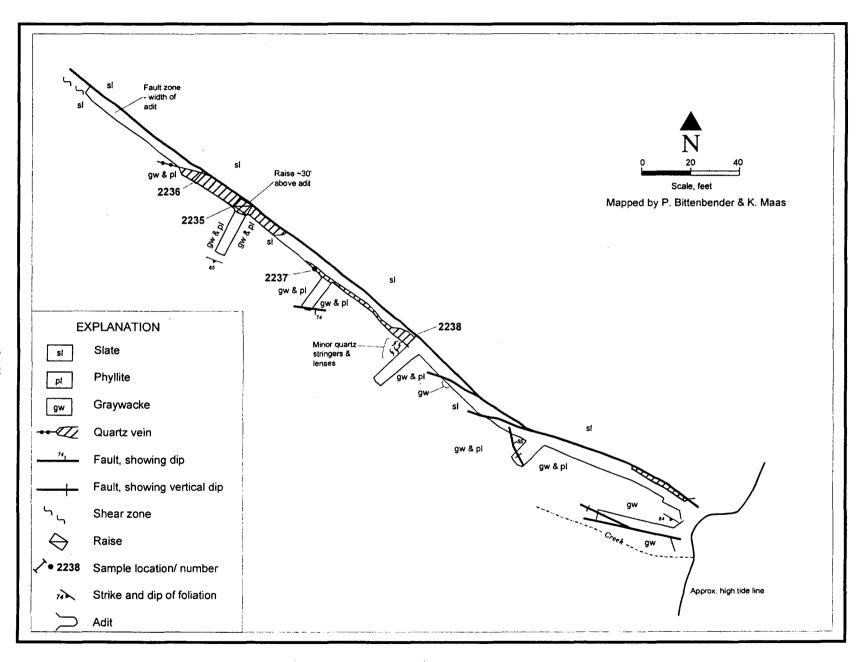


Figure 13.- Thetis prospect adit (Fig. 12, Map no. 209).



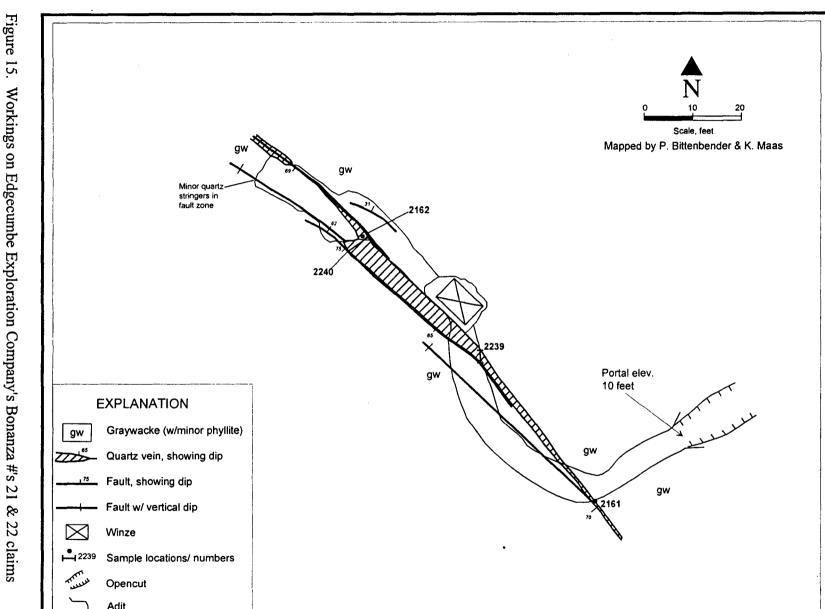


Figure 15. Workings on Edgecumbe Exploration Company's Bonanza #'s 21 & 22 claims (Fig. 12, Map no. 215).

EUREKA (Fig. 12, Map no. 216)

The Eureka prospect is located on the west side of the head of Silver Bay, at an elevation of 210 to 300 feet. Historical information on this prospect is limited to a general map location provided by Knopf (1912). BLM geologists found an 85-foot adit at an elevation of 210 feet, and a caved adit to the north at 300 feet elevation. The adit exposes a two-inch-thick quartz vein in a fault zone that is localized along

a slate-graywacke contact (Fig. 16). The fault zone strikes 310° and dips 75° southwest. A sample taken across the vein contained 27.5 ppm gold, 3.2 ppm silver, and 4,060 ppm arsenic (sample 2245). Samples of quartz float taken from a creek below the caved adit contained up to 30 ppb gold and nil silver (sample 2243, 2244).

BONANZA No. 1 (Fig. 12, Map no. 217)

Little is known of the history of the Bonanza No.1 prospect. It is shown on the Edgecumbe Exploration Company's map of the 1940's (Plate 3). A 105-foot adit comprises the only development on the property (Fig. 17). The adit was driven along a shear in black slate with

minor graywacke. Scattered quartz stringers are present in the sheared slate. BLM sampling revealed only minor metal values. One sample, however, had over 11 ppm mercury (sample no. 1404).

STEWART MINE (Fig. 12, Map no. 220)

Gold-bearing quartz veins were discovered at the Stewart Mine around 1872 (Knopf, 1912) or 1873 (DeArmond, 1997a). Mining began in 1877 (Kaufman, 1958) and included the driving of three adits. In 1879, a 10-stamp mill began to process ore (Knopf, 1912). By 1880, the mine was closed and in the following years was the subject of litigation (Alaska Yukon Mining Journal, 1901). T. C. Doran of Sitka acquired the property in 1892 and renamed it the Cash Mine. His attempts to put the mine into production failed and no further work is reported on the property after 1893 (DeArmond, 1997a). One claim was patented in 1904 (MS567). The current owner is believed to be the Sheldon Jackson College in Sitka (DeArmond, 1997a).

BLM geologists mapped and sampled

underground workings and surface exposures at the Stewart property (Fig's. 18-21). The quartz vein at the Stewart is exposed in outcrop and by the 3 adits over a horizontal distance of 200 feet and vertical distance of 120 feet. The vein appears to be fault-bounded on both ends and in places is offset by east-northeast trending faults. The vein reaches a maximum width of over 16 feet, but averages about 5 to 6 feet in width. The quartz locally contains inclusions and partings of graywacke, which hosts the vein. Pyrite is the only visible sulfide present and is concentrated near the inclusions or partings. Analytical results revealed the presence of arsenopyrite as well. Samples of the vein generally contained low gold values. The highest values from BLM sampling were 3,130 ppb gold over a 3- by 5-foot area (sample 2202) and 2.780 ppb gold across 5 feet (sample 2201:

Fig. 20). A sample of mill concentrate contained 57.9 ppm gold, 2,000 ppm lead, greater than 1%

arsenic, and greater than 0.1% mercury (sample 2222; Fig. 21).

LOWER LEDGE (Fig. 12, Map no. 221)

The Lower Ledge prospect was one of the first prospects to be staked and developed in the Silver Bay area (DeArmond, 1997a). Its history however is obscure, mainly due to the numerous names by which it has been recorded. It is mentioned in Becker's report of 1898, the first published report on the area, as the "Haley and Rogers."

BLM personnel located and mapped a 63-foot adit and flooded shaft near the Silver Bay trail at the head of Silver Bay (Fig's. 22-24). These workings most closely fit the location of the Lower Ledge prospect given by Knopf (1912) and the Edgecumbe Exploration claim map

NO NAME (Fig. 12, Map no. 222)

BLM personnel located an adit half a mile northwest of the Bauer prospect whose name and history is unknown. The adit crosscuts graywacke, and graywacke with interbedded phyllite (Fig. 25). Two hundred forty feet from the portal, a 24-foot drift follows a silicified, brecciated zone in graywacke at a contact with greenstone. The brecciated shear zone is oriented 295° and is steeply dipping. Thin quartz stringers are found at a high angle to the shear. The greenstone southwest of the shear

BAUER (Fig. 12, Map no. 223)

The Bauer property was reportedly staked in 1895. Development of the claim occurred intermittently from 1896 through 1923 (DeArmond, 1997a). By 1904, at least 900 feet of workings had been completed (Wright and

(Plate 3). The adit was driven on a one and a half-foot-wide shear zone in Sitka Graywacke and contains quartz stringers up to half an inch wide. The shear is oriented 290° and is vertical to steeply southwest dipping. Samples taken from the adit contained no visible sulfides and had no detectable precious metal values. Samples of quartz from the dump near the shaft contained minor pyrite, arsenopyrite, and a trace of galena. Most of the dump samples had very low precious metal values. One select sample of float from the creek near the shaft contained 2,350 ppb gold (sample 2518; Fig. 24).

contains minor pyrite on fracture surfaces. Samples from the adit contained very low precious metal values. The highest grade sample contained 60 ppb gold across 3.5 feet (sample 2223). All samples had elevated arsenic values, up to 632 ppm (sample 2223) and two contained 1.6 and 1.9 ppm mercury (samples 2225 and 2223 respectively). The high mercury values correlate with higher gold values here, as they commonly do elsewhere in Silver Bay.

Wright, 1904). By 1912, a 150-foot drift had been added to the workings (Knopf, 1912). BLM personnel mapped and sampled the Bauer adit (Fig. 26). The adit crosscuts graywacke and lesser phyllite, and drifts along a zone of fine-

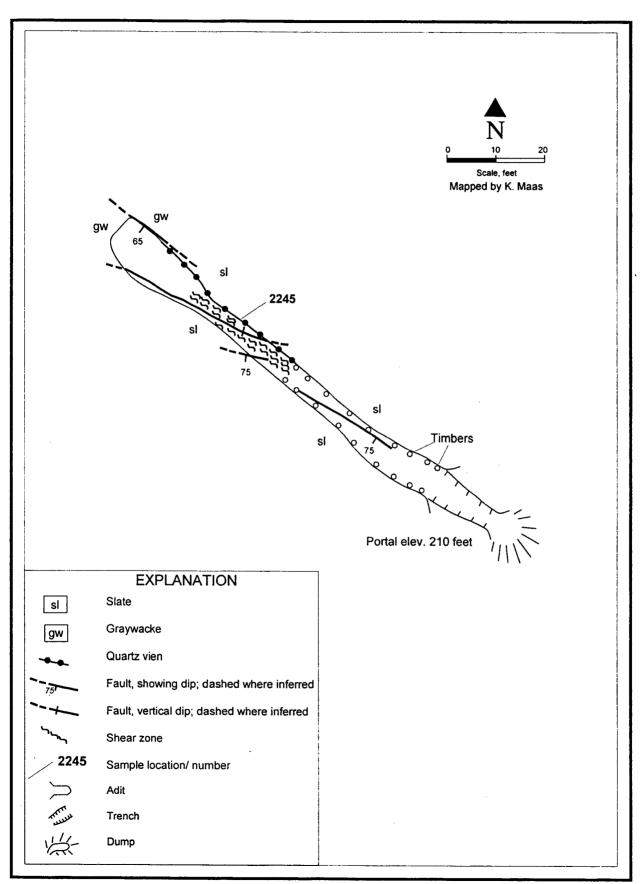


Figure 16. Eureka prospect adit (Fig. 12, Map no. 216).

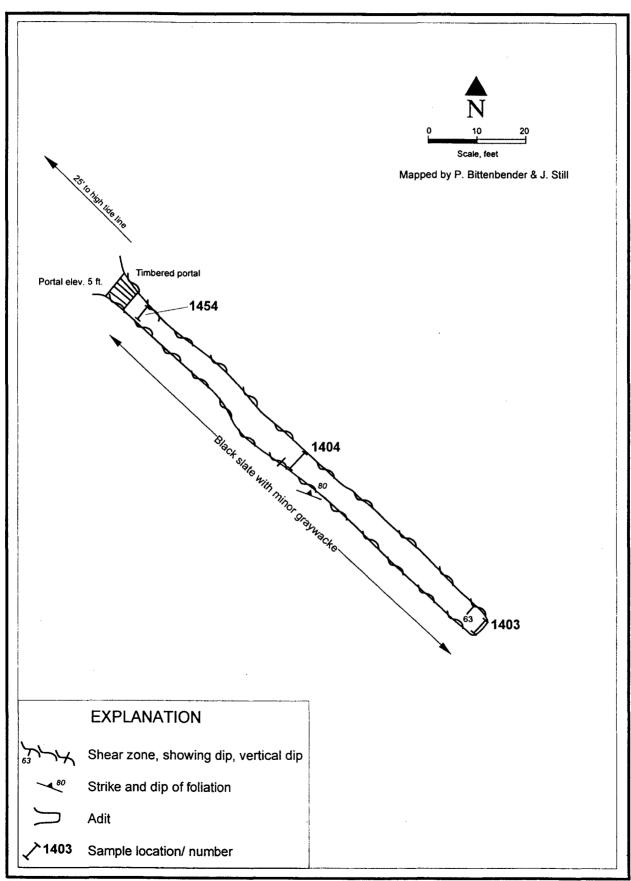


Figure 17. Bonanza No. 1 adit (Fig. 12, Map no. 217).

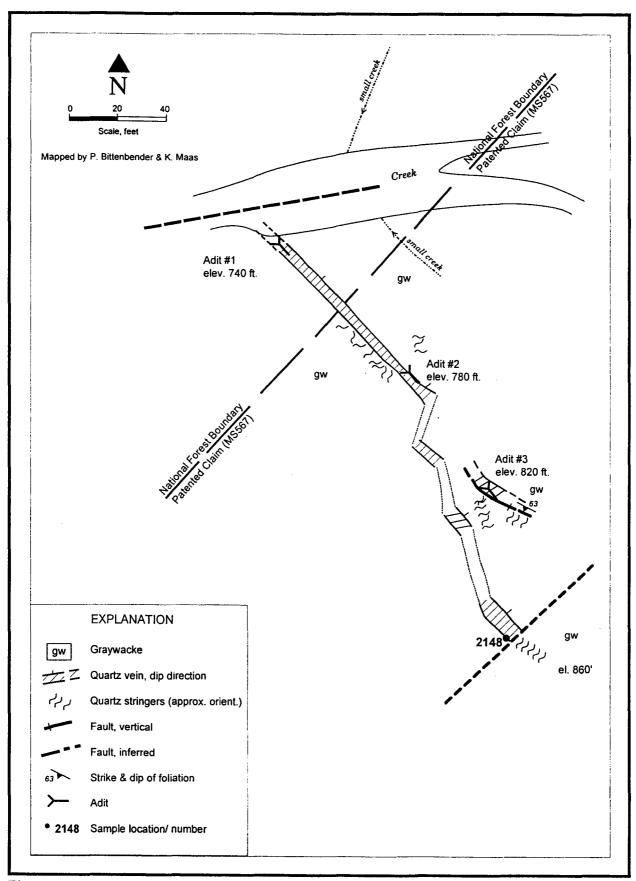
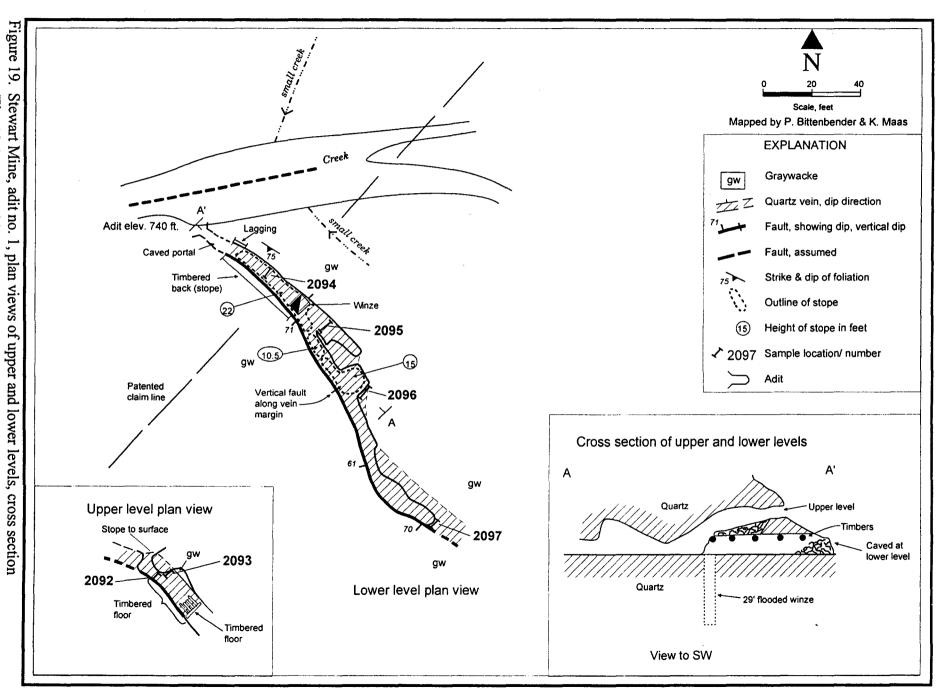
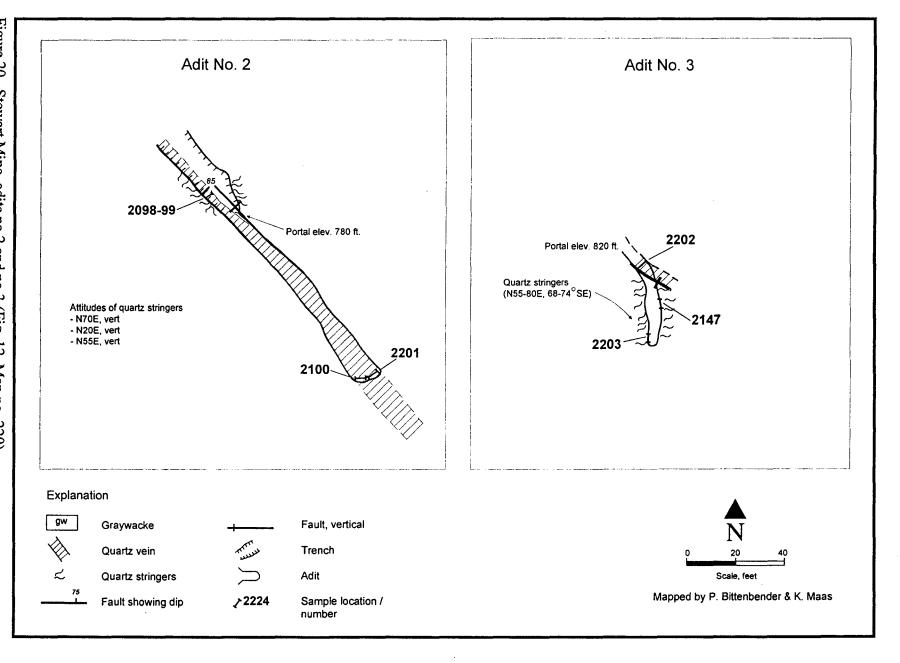
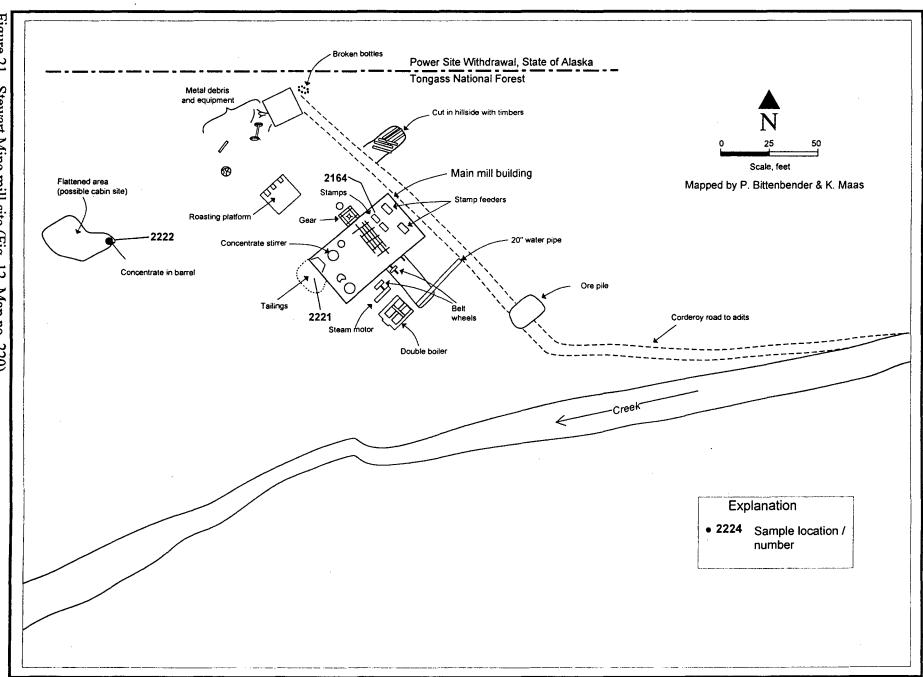
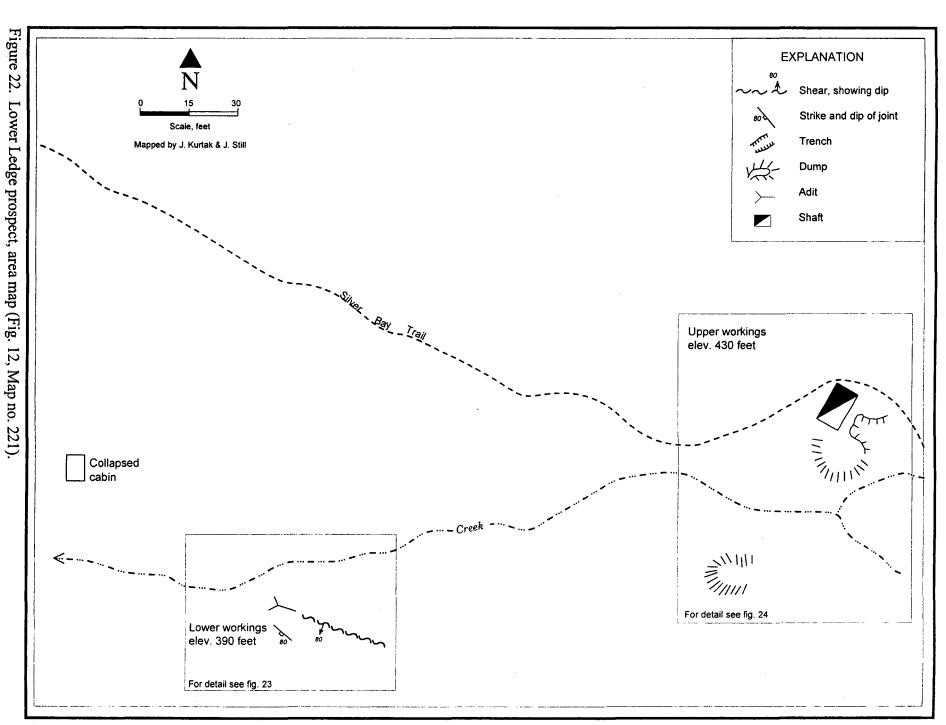


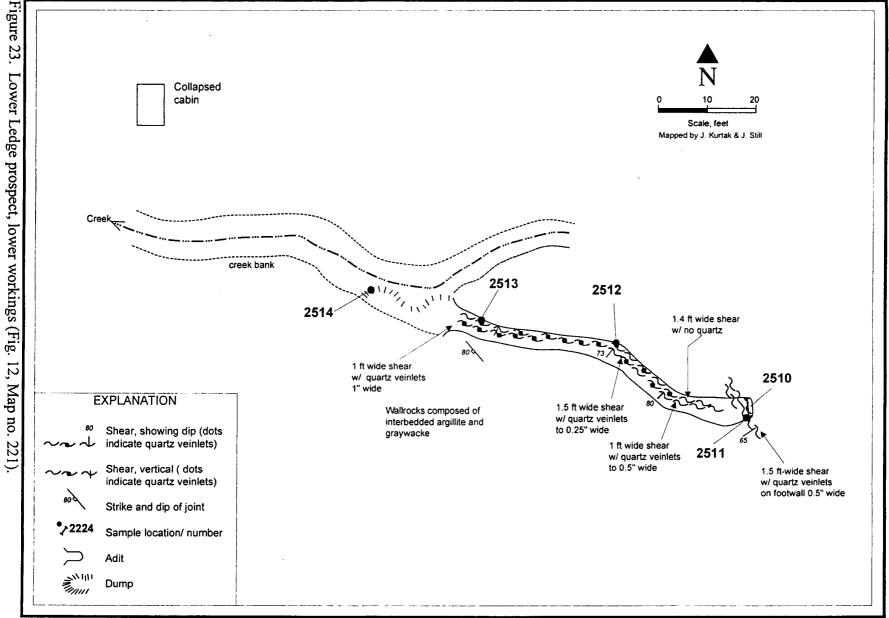
Figure 18. Stewart Mine area showing location of workings and land boundaries (Fig. 12, Map no. 220).











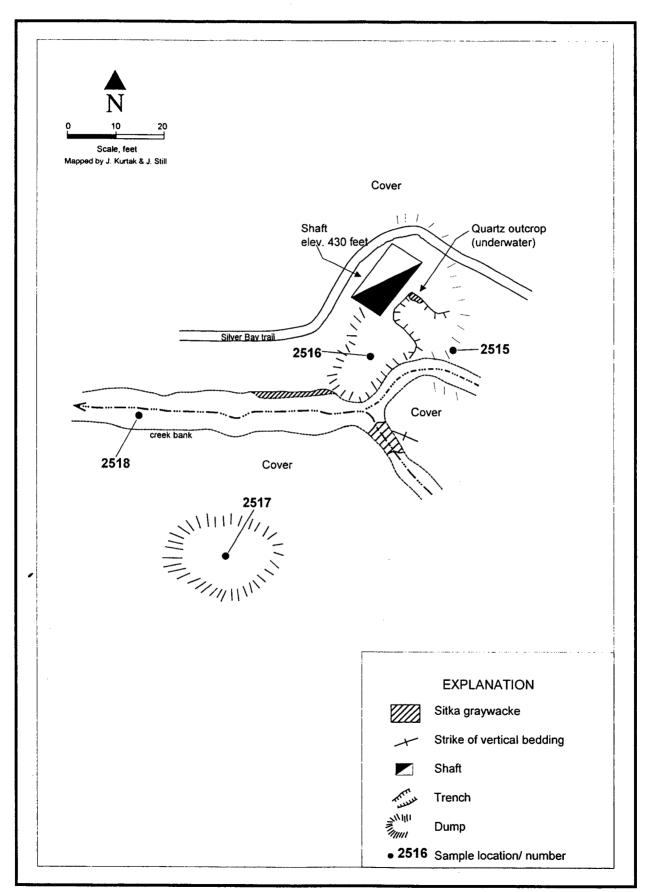


Figure 24. Lower Ledge prospect, upper workings (Fig. 12, Map no. 221).

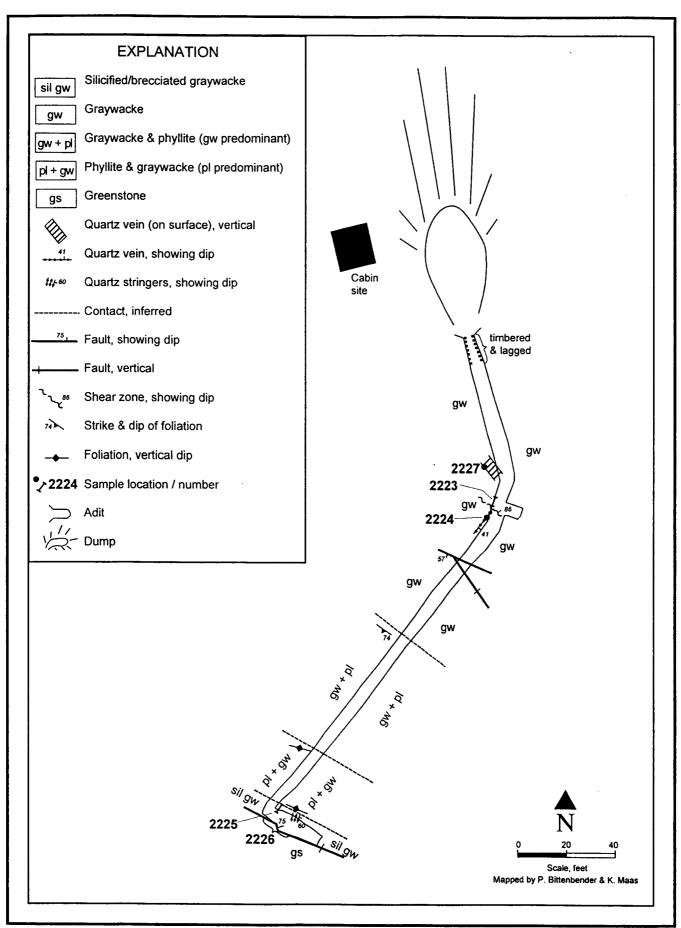


Figure 25. No Name prospect adit (Fig. 12, Map no. 222).

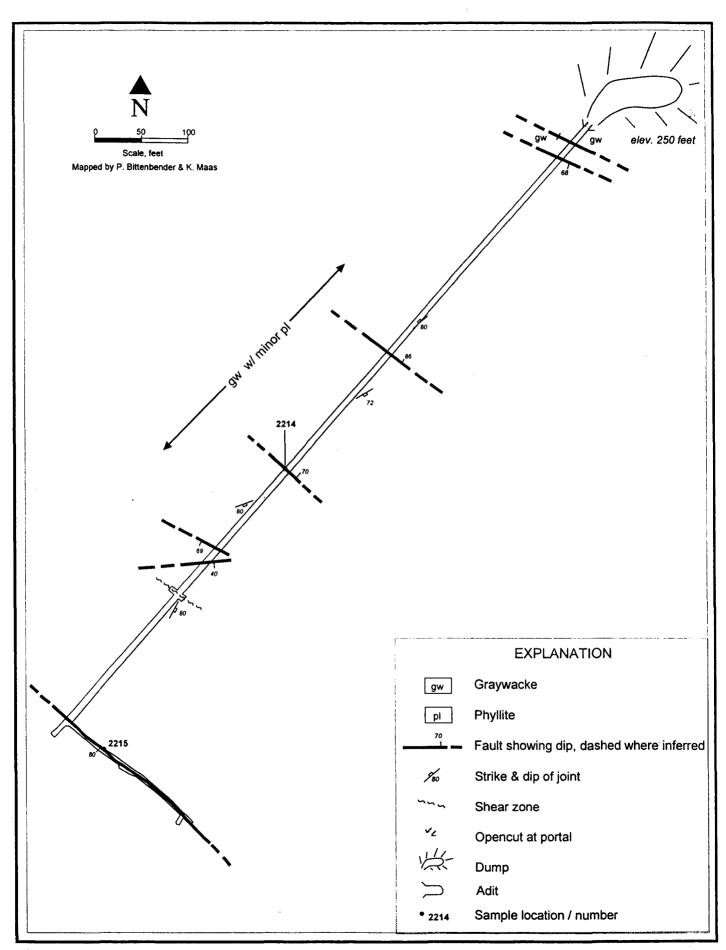


Figure 26. Bauer prospect adit (Fig. 12, Map no. 223).

grained quartz and quartz stringers containing minor amounts of pyrite and pyrrhotite. The quartz-rich zone is localized on a northwest trending fault, similar to other properties in the Silver Bay area. Analytical results indicate low precious metal values. Sample 2214, taken across 1.5 feet, contained 280 ppb gold. This sample also contained 716 ppm arsenic and 1.1 ppm mercury.

WICKED FALL (Fig. 12, Map no. 225)

The Wicked Fall prospect is located about two miles southeast of the head of Silver Bay, on the creek that drains from Pinta Lake (Fig. 12). It is marked on a map of prospects in the Sitka and Silver Bay areas, that was published by Knopf in 1912. It is also located on an Edgecumbe Exploration Company map of the 1940's (Plate 3). Nothing further is known of its history.

The Edgecumbe Exploration Company map (Plate 3) shows two "tunnels" on the Wicked Fall prospect. BLM personnel located, mapped, and sampled only one 17-foot adit (Fig. 27). Mineralized rock in the area occurs near the fault

contact between graywacke and slate of the Cretaceous Sitka Graywacke. Discontinuous quartz veins up to 1.8 feet thick occur adjacent to the fault. Quartz stringers at a high angle to the fault are also common. The veins and stringers of milky quartz pinch and swell and commonly contain slate partings. Minor sulfides, mainly pyrite and arsenopyrite, are concentrated adjacent to the partings and in the sheared slate. Precious metal values are low. A select sample of iron-stained quartz and slate returned 280 ppb gold (sample no. 1407).

PINTA LAKE AREA (Fig. 12, Map nos. 224, 226, 227)

Several outcrops of quartz near Pinta Lake, and along the ridge west of the lake, toward Silver Bay, were examined by BLM geologists during this study. Quartz veins and pods are up to six feet wide, however most are barren of sulfide minerals. The quartz is emplaced in fault zones

with little continuity to any of the occurrences. A sample taken near the outlet of Pinta Lake contained 205 ppb gold, 0.4 ppm silver, and 2,550 ppm arsenic (Map no. 227, sample 2218).

FREE GOLD (Fig. 12, Map no. 228)

DeArmond (1997a) mentions the "Witch" claim, staked in 1876, which is thought to be the same as the Free Gold prospect. Activity on the property included the construction of various mine buildings and the installation of an arrastre in 1879. The Free Gold prospect was mentioned in a 1904 report (Wright and Wright, 1905) and again in 1912 (Knopf, 1912). It was described as being "partly developed" at those times. The

Edgecumbe Exploration Company map of the Silver Bay area (Plate 3) locates a Free Gold adit about a quarter of a mile north of the northern Lucky Chance Lake. BLM geologists did not locate the adit in 1995, but collected samples of quartz veins and veinlets from outcrops and trenches in the area. The veins are hosted in massive graywacke that also includes interbeds of phyllite. The veins strike northeast and dip

about 70° to the northwest. There are no visible sulfides in the quartz veins, but iron staining is present. Analytical results indicated low

precious metal values (samples 2154-2156).

LUCKY CHANCE MOUNTAIN (Fig. 12, Map nos. 229, 230, 232-235)

While investigating the Lucky Chance Mine. BLM geologists discovered several adits and trenches driven on quartz veins in the Lucky Chance Mountain area. One set of workings lies about half a mile southeast of the Lucky Chance adits (Map nos. 232-235). These workings consist of 4 trenches and a 20-foot adit. The quartz veins generally strike northwest and dip steeply, both to the southwest and northeast. They are typically hosted by graywacke and phyllite. Many of the veins are cut by northnorthwest trending faults. Sulfides are rare. Select samples of iron-stained quartz with pyrite and arsenopyrite contained 4,840 ppb gold (Map no. 235, sample 2229) and 2,230 ppb gold (Map no. 233, sample 2158).

BLM personnel examined an adit and trench on the east side of the northern Lucky Chance Lake, northeast of the Lucky Chance Mine. The workings expose quartz lenses and stringers that are situated along a fault zone oriented 332° and dipping 67° northeast. The quartz is hosted by phyllite and graywacke and is exposed for 90 feet along strike and 35 feet vertically. Sulfides include pyrite and arsenopyrite, but are rare. Precious metal values are low. A select sample taken from float on the northwest side of the lake contained 1,180 ppb gold (Map no. 229, sample 2153).

LUCKY CHANCE MINE (Fig. 12, Map no. 231)

The Lucky Chance Mine has an obscure history, complicated mainly by the numerous owners and names associated with the property. original stakers were the Francis brothers of Sitka who named their claims the Francis Lode. Their 1874 claims were the first recorded in the Silver Bay area. Soon after recording their claims, the Francis brothers sold their interest in them to Nicholas Haley, a mining promoter closely associated with the mining history of Silver Bay. Additional owners included the Lake Mountain Mining Company, and the Providence and Sitka Gold Mining Company (DeArmond, 1997a). These two owners were responsible for most of the developments at the site.

The first reports of development of the Lucky

Chance Mine are from a newspaper article in 1885. The article reports a 25-foot shaft with a 30-foot drift at the mine (DeArmond, 1997a). By 1887, a 5-stamp mill was in operation and about 60 tons of ore had been processed from 2 adits (Roehm, 1940). By 1904 a 10-stamp mill, a sawmill, and a water-power plant were in operation (Wright and Wright, 1904). Although the total production from the mine is unknown, 1,200 tons of ore were reportedly removed from stopes above the 468-foot, 'No. 2 tunnel' (Fig's. 28, 29). In addition to this adit, workings included a 45-foot adit ('No. 1 tunnel'), a shaft, an open stope or glory hole, and other small open cuts and trenches (Roehm, 1940). A 3,000 to 4,000-foot aerial tram, erected in 1901, connected the mine site to the mill below. A corduroy road ran from the head of Silver Bay

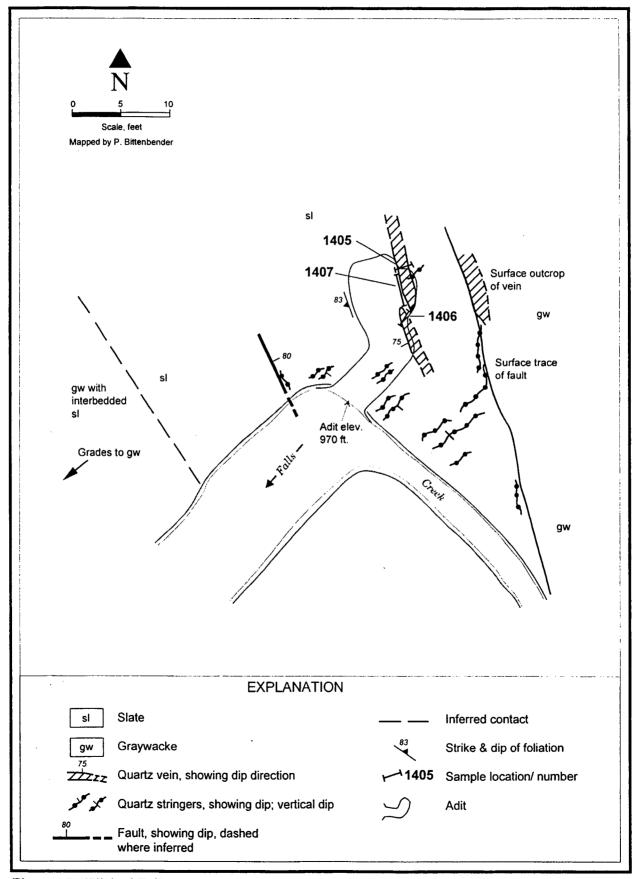
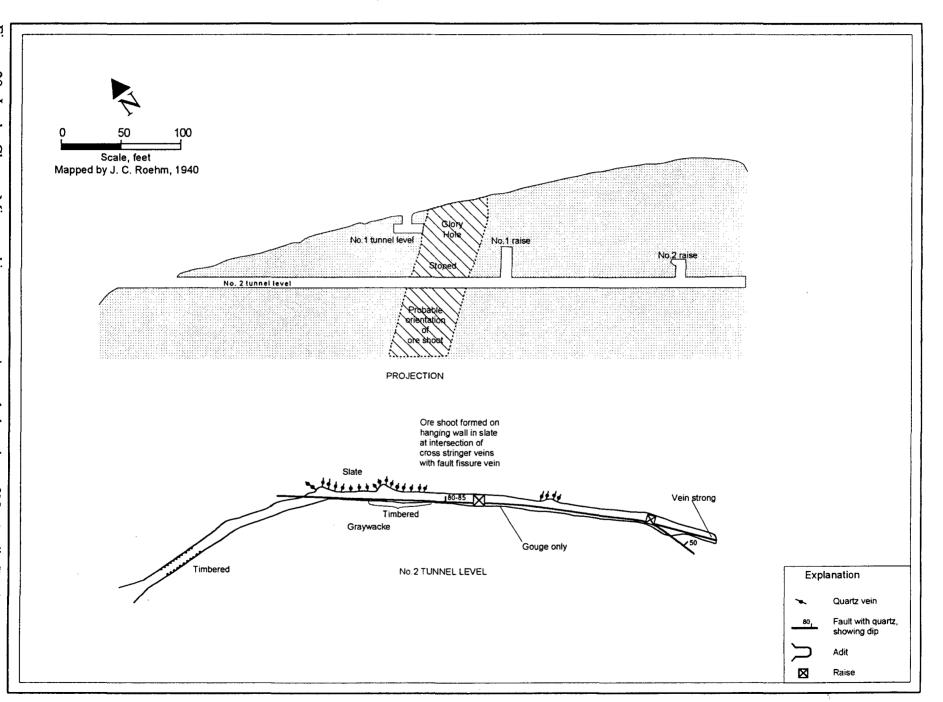


Figure 27. Wicked Fall prospect adit (Fig. 12, Map no. 225).

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to the mill site (DeArmond, 1997a). A detailed study of the property with accompanying maps was done by Roehm (1940).

BLM examination revealed that all workings at the mine site are caved and inaccessible and no mineralized outcrop is exposed at the surface. Much of the following geologic description and maps are taken from the report of Roehm (1940; Figs. 28 & 29).

The Lucky Chance workings were driven to develop quartz veins and stringers in graywacke and phyllite. The quartz is localized along a northwest trending shear at the contact between graywacke and phyllite. The shear dips steeply to the northeast. Foliation in the phyllite also strikes to the northwest and is steeply dipping, but is cut by the shear at a low angle. Numerous quartz stringers in the phyllite hanging wall of the shear are oriented at a high angle to the

shear. The glory hole above the main adit was cut where these stringers, which carry the highest gold assays, are the most numerous (Roehm, 1940).

Quartz from the mine dumps is generally milky white with graywacke and phyllite partings. Gangue minerals also include white mica, chlorite, calcite, and limonite. Sulfides include pyrite and arsenopyrite in thin seams and patches up to half an inch across. Visible gold is present, particularly adjacent to the partings and associated with limonite along the vein margins. Analytical results indicate the presence of minor silver plus a trace of lead. Two select samples contained 19.3 ppm and 16.9 ppm gold (samples 2210 and 2212, respectively). A sample of concentrate, collected from the mill site, contained 26.5 ppm gold, 13 ppm silver, 1,250 ppm lead and greater than 1% arsenic (sample 2213).

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APPENDIX A - SUMMARY INFORMATION FOR MINES, PROSPECTS, AND MINERAL OCCURRENCES

Appendix Table A-1 lists summary information for mines, prospects, and mineral occurrences found in the Chichagof-Baranof area. The information provided includes: prospect name and Minerals Availability System (MAS) number, location information, land status, deposit type and major commodities present, workings and current

condition, production figures (when available), BLM work during this study, selected references for additional information, and mineral development potential. The last category is a subjective ranking that prioritizes prospects with respect to one another

Abbreviations and Descriptions

Prospect Number:

Refers to mine, prospect, or occurrence numbers used to show locations on Plate 1. (See Appendix Table C-1 for cross reference between Prospect numbers and Map numbers used in the Analytical Results Table B-1.)

Property Name/MAS no.:

MAS refers to the Minerals Availability System database devised by the Bureau of Mines and currently supported by the Bureau of Land Management in Alaska.

Location:

Township, range, section, Bureau of Mines quadrangle number, USGS 1:63,360-scale map number

Land status:

N	Native
S	State
OF	Open Federal (open to mineral entry)
CF	Closed Federal (closed to mineral entry)
P	Private (mineral survey number listed)

Deposit type: (with commodity abbreviations; and other abbreviations as defined on p. 177)

V	Vein
PV	Polymetallic vein
Mag Seg	Magmatic segregation
S	Skarn
P	Porphyry
Dissem	Disseminated sulfides

Deposit type: (continued)

VMS Volcanogenic massive sulfide

Peg Pegmatite
PL Placer

O Other (or unknown)

Workings:

T(s) Trench(es) P(s) Pit(s)

C(s) Cut(s), opencut(s)

Adit(s): Lengths, in feet; (caved lengths in paren.)
Shaft(s): Depths, in feet; (flooded depths in paren.)

Production:

NA Not Applicable - if no production has occurred from the site

BLM work:

M Mapped S Sampled

R Reconnaissance, recon sampling

NF Not found NE Not examined

Select references:

Numbers refer to the references listed on page 173.

MDP (mineral development potential):

All mines, prospects, and mineral occurrences are assigned high, medium, or low mineral development potential classifications. These rankings reflect the authors' opinions with regard to each property and thereby differ from the mineral development potential ratings given to entire KMDA's in the body of this report. The rankings are based on the following criteria:

H High grades and probable continuity of mineralized rock exist. The property is likely to have economically mineable resources under current economic conditions. A high potential exists for developing tonnage or volume with reasonable geologic support for continuity of grade.

- M Either a high grade or continuity of mineralized rock exists, but not both. Mineralized rock is confined by geology and/or structures, or grades are overall low. It could serve as a resource if economics were not a factor, but is presently uneconomic under existing conditions.
- L The property exhibits uneconomic grades and/or little evidence of continuity of mineralized rock. There is little or no obvious potential for developing ore resources or it is an insignificant source of the material of interest.

		Tal	ole A-1.	Summary informati	ion for mine	s, prospects, ar	nd mineral occurrences			
Prospect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
Pl	LEMESURIER ISLAND PALIGORSKITE 0021110083	T41S, R57E, Sec 27, 111B1	CF	O: Replacement in ls	NA	1,000 lb test shipment (13)	Material tested by USBM Rolla Lab (13)	NE	13, 29, 55	L
P2	BONANZA 0021110084	T41S, R57E, Sec 34, SW, 111B1	CF	S: Mo, Cu	NA	NA	None	NE	29	L
P3	CROW POINT 0021110069	T42S, R57E, Sec 3, 111B1	CF	S: Mo, Cu	NA	NA	MoS ₂ to 0.47% (61)	NE	61, 72	L
P4	WHITNEY 0021110068	T42S, R57E, Sec 4, 111B1	P: MS 1427, 1428	S: Mo	Adits (2): 78, 25	NA	None	NE	58, 61	L
P5	INIAN ISLAND 0021110081	T42S, R55E Sec 12, 111A1	CF	O: Fe?	NA	NA	None	NE	54	L
P6	MARVITZ 0021110070	T43S, R55E, Sec 21, 111A2	OF	V: Au, Ag, Pb	Adits (3): 25, 50, 210; OC	NA	Free Au found in veins (37); up to 1,952 ppb Au in sil metaseds; workings not found	S	37, 54	L
P7	COLUMN POINT 0021110085	T43S, R55E, Sec 21, 111A2	OF	PL	NA	NA	Claims staked in 1974, worked in 1976	NE	54	L
P8	NEKA BAY 0021120156	T43S, R59E, Sec 19, 112A6	N	V: Cu, Pb, Zn	TP	NA	1.5-ft to 3.5-ft-wide vein exposed over 50' along strike w/ up to 6.3% Cu, 0.38% Pb, & 1.9% Zn (72)	NF	72	L
P9	SURGE BAY 0021110080	T44S, R54E, Sec 26, 111A2	CF	Mag Seg: Cu, Ni	NA	NA	None	NE	8	L

	Table A-1. Summary information for mines, prospects, and mineral occurrences												
Prospect	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P			
P10	SQUID BAY 0021140079	T46S, R55E, Sec 15, 114D8	CF	Mag Seg: Cu, Ni	NA .	NA	Composite grab sample contained 0.38% Cu, 0.05% Ni (26); gabbronorite host	NE	26, 29	L			
P11	BOHEMIA BASIN 0021140017	T45S, R55E, Sec 12, 13, 114D8	P; OF; MS 2257, 2258	Mag Seg; Ni, Cu, Co	Adit: 156; T (15); Diamond drilling (30,000 ft)	Test ship- ment	Resources: 24 million tons grading 0.29% Ni, 0.17% Cu, 0.017% Co; measured and inferred categories (26); 3 ore bodies hosted in layered gabbronorite complex	R	12, 25, 26, 36, 39, 50, 70, 73	M- H			
P12	BON TARA MINE 0021110088	T44S, R55E, Sec 36, 111A2	OF	V: Au, Ag, di host w/gb	Adit: 35; OC: several	\$1,100 Au (34)	Samples contain from nil to 0.16 oz/t Au; best samples from surface cut (26)	R	26, 34	L- M			
P13	GOLDWIN 0021140039	T45S, R56E, Sec 3, 114D8	OF	V: Au, Ag, Cu; di w/ minor chl sc	Adit: 265		Sample of py contained 69 oz/t Au (54); other samples contained: 0.6 ft at 0.11 oz/t Au; 0.8 ft wallrock contained trace to 0.05 oz/t Au; 14 samples: nil to 0.14 oz/t Au (26)		26, 42, 54, 77	L- M			
P14	NILSEN 0021140070	T45S, R56E, Sec 11, 114D7	OF	V: Au	NA	NA	None	NE	8	L			
P15	ROSSMAN VEIN 0021140201	T45S, R56E, Sec 14, 114D7	CF	V: Au	NA	NA	Assays up to 1 oz/t Au (54)	NE	54	L			
P16	COLUMBINE GROUP 0021140084	T45S, R56E, Sec 22, 114D7	OF	V: Au	NA	NA	None	NE	8	L			

		Tab	ole A-1. S	Summary informati	on for mine	s, prospects, ar	nd mineral occurrences			
Prospect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P17	APEX EL NIDO 0021140008	T45S, R56E, Sec 23, 114D7	OF; active claims	V: Au, Ag, W	Adits: Apex (4): (1490), 800, 400, 60; El Nido (2): 1000, 680	17,000 oz Au, 2,400 oz Ag	Resources: Indicated 26,633 tons @ 0.945 oz/t Au (21); Samples contained trace to 3.8 oz/t Au across 0.2 to 3.8 ft-wide veins; aplite dikes contained trace to 0.04 oz/t Au (26); hosted in di and amphibolite; veins 1 to 4 ft wide	R	21, 26, 54, 69	Н
P18	PHONOGRAPH 0021140092	T46S, R58E, Sec 6, 114D7	OF	Mag Seg: Ni	NA	NA	Sample contained 0.31% Ni, trace Au; hosted in pyroxenite	NE	72	L
P19	GYPSUM CREEK 0021140307	T45S, R64E, 114D4	OF	S: Cu	road pit	NA	Copper values to about 2,000 ppm; minor Mo, Ni, Co	M, S	30	L
P20	CAMEL GYPSUM 0021140040	T46S, R64E, Sec 1, 114D3	OF	O: Hydrothermal or sedimentary : gypsum	Adits (5): 75, (4 caved)	NA	Bureau of Mines drilled in 1948 & 1962; resource of 92,500 tons gypsum (22, 23)	R	14, 19, 20, 22, 23	L
P21	KAISER GYPSUM 0021140041	T46S, R64E, Sec 2, 114D3	P: MS 647	O: Hydrothermal or sedimentary: gypsum	glory hole; shafts (2): drifts	500,000 tons	Active 1906-1923; drilled by Bureau of Mines in early 1960's; no resources calculated due to drilling difficulties	R	14, 20, 64	L
P22	FRESHWATER BAY 0021140308	T43S. R63E, Sec 17, 114D4	OF	P, S: Mo, Cu	road pit	ÑΑ	High grade samples to 0.2% Mo, 155 ppm Cu; porphyry intruding carbonate, minor skarn	M, S	NA	L
P23	EAST POINT PIT 0021140309	T47S, R64E, Sec 12, 114D3	OF	S: Zn, Pb, Ag	road pit	NA	Clots and disseminations of sphalerite with minor galena and chalcopyrite; high grade sample to 26% Zn, 1.74% Pb, 460 ppm Cu, 52 ppm Ag	S	30	L

		Tab	le A-1. S	Summary informati	on for mine	s, prospects, ar	nd mineral occurrences			
Pros- pect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P24	BIG LEDGE 0021140015	T47S, R64E, Sec 12, 114D3	OF	Mag Seg: Cu, Ni	T; P	NA	Samples contained up to 0.91% Cu and 0.84% Ni across 40 ft. Hi- grade contained 7.02% Cu, 4.4% Ni, and 910 ppm Co	M, S	8, 9	L- M
P25	BALDY LODE 0021140010	T47S, R64E, Sec 15, 114D4	OF	S: Cu	T; P	NA	Samples contained up to 0.29% Cu, 240 ppm W	S	8	L
P26	3-J 0021140211	T47S, R64E, 114D4	OF	O: Mo, Cu; hosted in dike	NA	NA	Chip sample contained 0.01% Mo, 0.07% Cu (61); BLM sampling across 0.3 ft contained 0.3% ppm Cu, 0.2% ppm Mo	S	61	L
P27	COLUMBIA POINT 0021140200	T47S, R64E, Sec 18, 114D4	S	O: Cu; hosted in dike	NA	NA	None	R	28	L
P28	TENAKEE INLET MARBLE 0021140100	T47S, R63E, Sec 23, 114D4	S	O: marble	NA	NA	Marble contains abundant greenstone partings	NE	10,11	L
P29	REDONE 0021140212	T48S, R64E, Sec 27, 114C4	N	O:	NA	NA	None	R	72	L
P30	BASKET BAY 0021140213	T49S, R65E, Sec 16, 114C3	N	О:	NA	NA	MAPCO staked claims for uranium	R	72	L
P31	KOBY 0021140051	T47S, R58E, Sec 3, 114D6	OF	V: Au, Ag, Pb, Cu, Bi, Cd; hosted in gs sc	Adit: 300; C(s) along 300 ft of strike	NA	3- to 6-ft widths contained 0.02 oz/t Au, 0.5-0.9 oz/t Ag (43); dump samples contained to 2.96 oz/t Au, 52.5 oz/t Ag, 1% Pb (26)	R	26, 43, 54	L

		Tab	ole A-1. S	Summary informat	ion for mine	s, prospects, ar	nd mineral occurrences			
Pros- pect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P32	CABLE CLAIMS 0021140305	T46S, R57E, Sec 26, 27, 35, 114D7	CF	Dissem: Cu	NA .	NA	Samples contained up to 2,200 ppm Cu and 4,800 ppm Zn across 5 ft (26); Fault zone in metased	NE	26	L
P33	MINE MOUNTAIN AREA 0021140065	T46S, R57E, Sec 27, 114D7	CF	V: Au, Cu	NA	NA	Samples contained up to 0.30 ppm Au, 2,100 ppm Cu (26); hosted in di, gd	NE	26, 54	L
P34	MINE MOUNTAIN MINE 0021140025	T46S, R57E, Sec 29, 114D7	CF	V: Au	Adit: 250, open stope for 70 ft; T	\$3,500 Au (26)	Stoped area contained from nil to 2.45 oz/t Au across 0.2 to 1.2 ft (26); gd and gs host w/aplite dike	R	8, 26, 38	L- M
P35	CUB MOUNTAIN 0021140028	T46S, R56E, Sec 13, 114D7	CF	V: Au	NA	NA	Samples contained up to 1 oz/t Au (54)	NE	54	L
P36	STAG BAY GOLD 0021140085	T45S, R56E, Sec 35, 114D7	CF	V: Au	Adit: 70	NA	2 samples contained 0.05 oz/t and 0.36 oz/t Au across 1.1 ft and 0.5 ft, respectively (26), Brenda vein: nil Au	NE	26	L
P37	STAG BAY MAGNETITE 0021140088	T46S, R56E, Sec 4, 114D8	CF	S: Fe, Cu	T (3): 1 sloughed	NA	Samples contained from 9.6 to 51% Fe, to 0.93% TiO ₂ , 100 ppm Cu (26); in fault near di-gb, marble	NE	26, 54, 69	L
P38	STAG BAY COPPER 0021140087	T46S, R56E, Sec 4, 114D8	CF	P: Cu, Fe, W	TP	NA	Upper workings: nil Au, trace Ag, 0.03% to 0.76% Cu (2); lower workings: 20-90% mag (69); Cu to 1.07% in trench 2 (26); at contact between an & di	NE	2, 26, 54, 69	L
P39	STRANGER RIVER 0021140105	T46S, R56E, Sec 29, 114D8	CF	PL: Au	NA	NA	Pan concentrate samples contained up to 0.00005 oz/yd³ Au, trace Ag (26)	NE	26	L

		Tab	le A-1. S	Summary informati	on for mine	s, prospects, an	d mineral occurrences			
Pros- pect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P40	SLIM & JIM 0021140119	T47S, R55E, Sec 36, 114D8	CF	V: Cu	NA	NA	Samples contained up to 1% Cu, 0.3% Zn, and 200 ppm Ni across 6.9 ft (26); fault zone in gw	NE	26	L
P41	BERTHA BAY 0021140014	T47S, R56E, Sec 9, 114D8	CF	Mag Seg: Cu	T; P	NA	None	NE	31	L
P42	LAKE MORRIS-MT. FRITZ 0021140304	T46S, R56E, Sec 36; T47S, R56E, Sec 1, 114D7	CF	Dissem: Cu	NA	NA	Cu-bearing float in talus, stream float, and ss samples; mainly secondary Cu minerals on slip surfaces in Goon Dip Gs	NE	26	L
P43	LAKE ELFENDAHL 0021140054	T46S, R56E, Sec 36, 114D7	CF	V: Cu, Pb, Zn	NA	NA	None	NE	54	L
P44	MT. BAKER 0021140009	T47S, R57E, Sec 6, 114D7	OF	P: Cu, Au, Ag	Adit: 300; Shaft; T(s): several	NA	Cu values in Goon Dip Gs along 2-mi zone; Cu in shears and dissem in gs; assays to 7.52% Cu across 2 ft w/ Ag (26)	R	16, 26, 31, 32, 67	L- M
P45	MIRROR HARBOR 0021140068	T47S, R56E, Sec 22, 114D7	CF	Mag Seg: Ni, Cu, Co	Shaft: (173), 2 levels; T (34)	Test shipment	Resources: Measured: 7,300 tons w/ 1.6% Ni, 0.9% Cu (65); Hypothetical: 1M tons w/ 0.32% Ni, 0.12% Cu (71); hosted in layered ultramafic, gabbronorite; 3 ore bodies	NE	26, 36, 61, 65, 68, 71, 75	М
P46	LITTLE BAY 0021140057	T47S, R56E, Sec 23, 114D7	CF	Mag Seg: Cu, Ni	Т	NA	Southern extension of Mirror Harbor deposit	NE	34	L

		Tab	le A-1. S	Summary informat	ion for mine	s, prospects, ar	nd mineral occurrences			
Pros- pect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P47	SNOW SLIDE 0021140107	T47S, R57E, Sec 18, 114D7	CF	Dissem: Cu	Adit: 171	NA	None	NE	31	L
P48	COX BROTHERS 0021140203	T47S, R57E, Sec 18, 114D7	CF	V: Au	Adit: 16; T (4); P (3)	NA	Reported up to 0.30 oz/t Au across 2.5 ft (72); up to 0.1 oz/t Au across 2.7 ft (66)	NE	66, 72	L
P49	NEW CHICHAGOF MINING SYNDICATE 0021140069	T47S, R57E, Sec 21, 114D7	CF	V: Au	Adit (4): (750), (140), (20), (20); T (12)	NA	Samples from 110-ft-long by 4-ft-wide zone of qz ls br averaged 0.24 oz/t Au (66); hosted in ls	R	45, 66	M- H
P50	MARTHA-BROWN CUB 0021140110	T47S, R57E, Sec 32, 114D7	CF	V: Au	NA	NA	Hosted in gw	NE	66	L
P51	GOLDEN HAND APEX 0021140037	T47S, R57E, Sec 22, 114D7	CF, active claim held	V: Au	Adit: 225, w/ winze	4 oz Au	Qz vein exposed for 23 ft averaged 0.34 oz/t Au across 3 ft; sample of 0.2-ft by 3-ft zone contained 186.74 oz/t Au (66); hosted in gw	R	62, 66	M- H
P52	CONGRESS 0021140027	T48S, R56E, Sec 2, 114C7	CF	VMS: Cu, Zn	Adit: 25	NA	12-ft-wide zone of sil gs contained 0.58% Cu, 0.086% Zn (66); hosted in gs	NE	66	L
P53	SENATE 0021140109	T48S, R56E, Sec 1, 114C7	CF	VMS: Cu	NA	NA	Hosted in gs	NE	66	L
P54	TRIPLET ISLAND 0021140300	T48S, R57E, Sec 14, 114C7	CF	VMS: Zn, Pb, Cu	NA	NA	Sample across 0.1 ft sl lens contained 35% Zn, 0.15% Pb, and 0.11% Cu (66)	NE	66	L
P55	CALCIUM CARBONATE TIME 0021140113	T48S, R57E, Sec 4, 114C7	CF	O: limestone	NA	NA .	None	NE	66	L

		Tab	le A-1. S	Summary informat	ion for mine	s, prospects, an	d mineral occurrences			
Prospect	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P56	DISCOVERY ON 1ST TEER 0021140115	T48S, R57E, Sec 14, 114C7	CF	NA	NA	NA	5 claims taked 1920; no known commodity; no recorded activity since original staking	NE	66, 72	L
P57	WINTHER 0021140114	T48S, R57E, Sec 11, 114C7	CF	NA	NA	NA	7 claims staked 1933; no known commodity; no recorded activity since original staking	NE	66, 72	L
P58	EAGLE GROUP 0021140116	T48S, R57E, Sec 10, 114C7	CF	NA	NA	NA	4 claims staked 1935; no known commodity; no recorded activity since original staking	NE	66, 72	L
P59	MCKALLICK LODE 0021140063	T48S, R58E, Sec 30, 114C7	CF	V: Au	Adits (2): 50, 40	NA	2.3-ft-thick qz lens contained 0.24 oz/t Au (66); hosted in gw	NE	38, 66	L
P60	HIRST-CHICHAGOF 0021140003	T48S, R57E, Sec 25, 114C7	P: MS 1502A /B, 1503, 1504, 2066; CF	V: Au	Adit w/ 4 levels: 6,950; shafts (2): to 1,800 ft below sea level	131,000 oz Au, 33,000 oz Ag from 140,000 tons ore	Resources: 30,000 tons @ 1.0 oz/t Au, (17); 70,000 tons @ 0.25 oz/t Au; 70,000 tons tailings @ 0.14 oz/t Au (66); hosted in gw	NE	17, 38, 66	Н
P61	HODSON 0021140310	T48S, R57E, Sec 23, 114C7	CF	V: Au	Adit: 235; P	NA	Samples from narrow qz veins contain from nil to 0.33 oz/t Au (58); hosted in gw	NE	58	L
P62	BASOINIUER 0021140013	T48S, R57E, Sec 26, 114C7	P: MS 1587	V: Au	Т	NA	Samples contained traces of Au, Ag (66); hosted in gw	NE	66	M
P63	CHICHAGOF PROSPERITY 0021140024	T48S, R57E, Sec 23, 114C7	CF	V: Au	Adits (2): 150 w/ 2 winzes, 45	NA	Samples across 0.15- to 2.8-ft thick vein contained from nil to 0.695 oz/t Au (66); hosted in gw	NE	27, 66	M

		Tab	le A-1. S	Summary informat	ion for mine	s, prospects, ar	nd mineral occurrences			
Prospect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P64	BAUER 0021140074	T48S, R57E, Sec 23, 114C7	CF	V: Au	Adits (2): 610, 25; T (s)	NA	No significant metal values in the lower adit; Alaska Juneau reports 0.01 to 0.92 oz/t Au in upper adit (66); hosted in gw	NE	33, 66	L
P65	HANLON 0021140044	T48S, R57E, Sec 34, 114C7	CF	V: Au	С; Т	NA	Samples contained up to 0.01 oz/t Au (66); hosted in gw	NE	38, 66	L
P66	MCKALLICK PLACER 0021140064	T49S, R58E, Sec 8, 114C7	CF	PL: Au	NA	NA	Alluvial placer; pan concentrate sample of stream gravels contained 0.11 oz/t Au (66)	NE	38, 66	L
P67	BANEY 0021140011	T49S, R58E, Sec 16, 114C7	CF	V: Au	Shaft: (flooded); P(s); T(s)	NA	Qz vein from 0.25 to 3 ft wide exposed over 300 ft; dump sample contained 2.76 oz/t Au and 0.32% W (66); hosted in gw	NE	33, 66	М
P68	HANSEN & BOLSHAN 0021140311	T49S, R57E, Sec 15, 114C7	CF	V: Au	Shaft: (29)	NA	Samples from dumps contained up to 0.915 oz/t Au (58); hosted in gw	NE	58	L
P69	AMERICAN GOLD COMPANY 0021140006	T49S, R58E, Sec 4, 114C7	CF	V: Au	Adit: 220, w/ winze; P	NA	Samples from narrow qz veins contained up to 0.18 oz/t Au; select sample contained 2.42 oz/t Au (66); hosted in gw	NE	44, 66	L
P70	JUMBO 0021140049	T49S, R58E, Sec 4, 114C7	CF	V: Au	Shafts (2): (flooded) w/ winze and 1,600 ft of drifts; Adit: 48	1,450 oz Au	18 samples taken along strike of vein contained up to 0.07 oz/t Au (66); hosted in gw	NE	66	М

	Table A-1. Summary information for mines, prospects, and mineral occurrences												
Pros- pect no.	Name MAS no,	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P			
P71	ALASKA CHICHAGOF 0021140005	T49S, R58E, Sec 4, 114C7	CF; P: MS 957B	V: Au	Adit: (580), 2 levels; Shaft w/ stopes	660 oz Au	Production grade of nearly 1 oz/t Au; samples contained 36 ppm Au, and 150 ppm Ag (66); hosted in gw	NE	38, 66	М			
P72	OB 0021140313	T48S, R57E, Sec 36, 114C7	P; CF	V: Au	Adit: (250) w/ winze; T(s)	NA	Samples of qz vein up to 4 ft thick contained from nil to 0.2 oz/t Au; hosted in gw	NE	66	L			
P73	FLORA 0021140312	T48S, R57E, Sec 36, 114C7	P	V: Au	Adit: 90	NA	Samples from a narrow qz vein contained from nil to 0.10 oz/t Au (66); hosted in gw	NE	66	L			
P74	MCKALLICK CHICHAGOF MINES 0021140034	T48S, R57E, Sec 36, 114C7	CF	V: Au	T(s)	NA	Persistent fault zone near Chichagof fault; Au values to 0.09 oz/t on surface, 0.2 oz/t in drift, 0.36 oz/t from winze (66); hosted in gw	NE	33, 66	М			
P75	CHICHAGOF 0021140023	T48S, R57E, Sec 36, 114C7	P: MS 1575, 864, 817, 936, 1460, 1047, 956B, 1461	V: Au	Adit w/ 5 levels: 9,950; 6 shafts: to 2,750 ft below sea level	659, 955 oz Au, 195,000 oz Ag; average grade about 1.09 oz/t Au	Resources: 76,600 tons @ 0.4 oz/t Au (17); 463,000 tons @ 0.30 oz/t Au; 456,000 measured tons of tailings @ 0.11 oz/t Au (66); hosted in gw	S	4, 17, 38, 66	Н			
P76	HELEN CHICHAGOF 0021140029	T48S, R58E, Sec 31, 114C7	CF	V: Au	Adits (4); 10 to 20 ft long	NA	Samples contained up to 0.2 oz/t Au (66); hosted in gw	NE	43, 66	L			

		Tab	le A-1. S	Summary informat	ion for mine	s, prospects, ar	nd mineral occurrences			
Prospect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P77	POWER LINE PROSPECT 0021140302	T48S, R58E, Sec 31, 114C7	CF	V: Au	Adit: 50; T	NA	Grab sample from sulfide bearing dike contained 0.52 oz/t Au (66); hosted in gw	NE	66	L
P78	HANDY 0021140043	T48S, R58E, Sec 31, 114C7	P: MS 1459	V: Au	Adit: 80	NA	Drilled between 1945 and 1953, but results not available; Bureau of Mines samples contained from nil to 0.12 oz/t Au (66); hosted in gw	NE	66	L
P79	ANDY 0021140301	T48S, R58E, Sec 31, 114C7	P: MS 1498	V: Au	Adit: 57	NA	Hosted in gw	NE	38, 66	L
P80	HILL & BERKLAND 0021140045	T49S, R58E, Sec 3, 114C7	CF	V: Au	Adit: 50	NA	Hosted in gw	NE	38, 66	L
P81	LAKE ANNA 0021140053	T49S, R58E, Sec 15, 114C7	CF	V: Au	Adit: 80	NA	Narrow qz vein exposed in adit contained up to 0.005 oz/t Au (66); hosted in gw	NE	35, 66	L
P82	WOLL 0021140058	T49S, R58E, Sec 2, 114C7	CF	V: Au	Adits (3); T(s)	NA	Best sample contained 0.51 oz/t Au; other samples contained much less Au (66); hosted in gw	NE	38, 66	L
P83	ANDERSON 0021140007	T49S, R58E, Sec 12, 114C7	CF	V: Au	Adit: 36; C	NA	On strike with Chichagof fault; values up to 1.5 ppm Au (66); hosted in gw	NE	66	L
P84	FLAT TOP MOUNTAIN, SEA LEVEL 0021140062	T49S, R59E, Sec 18, 114C6	CF	V: Au	NA	NA	Sample of qz float contained 2 ppm Au (66); hosted in gw	NE	66	L
P85	FLAT TOP MOUNTAIN, UPPER WORKINGS 0021140125	T49S, R59E, Sec 20, 114C6	CF	V: Au	P	NA	Sample of qz float contained 2 ppm Ag, and 200 ppm As (66); hosted in gw	NE	66	L

		Tab	le A-1. S	Summary informat	ion for mine	s, prospects, an	d mineral occurrences			
Prospect	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P86	CHICHAGOF STAR 0021140046	T49S, R59E, Sec 6, 114C6	CF	V: Au	NA	NA	Hosted in gw	NE	66	L
P87	FALLS 0021140128	T49S, R59E, Sec 24, 25, 114C6	OF	Dissem: Cu	NA	NA	Samples contained from 10 to 300 ppm Cu and from nil to 0.5 ppm Ag in chl sc, hn, chert & gs (26); hosted in Kelp Bay Group	NE	26	L
P88	PAT 0021140306	T49S, R60E, Sec 28, 32, 114C6	OF, CF	Dissem: Cu	NA	NA	Samples contained from 15 to 360 ppm Cu, 10 to 1,600 ppm Zn; highest values found in sc and gneiss w/ py & po; hosted along contact between Goon Dip Gs and Whitestripe Marble	NE	26	L
P89	ELDORADO 0021140193	T50S, R59E, Sec 3, 114C6	CF	PL: Au	NA	NA	17 pan concentrate and stream sediment samples contained from nil to 0.9 ppm Au (66)	NE	66	L
P90	FALCON ARM 0021140033	T50S, R59E, Sec 10, 114C6	CF	V: Au	Adits (4): 3,000, 15, 75, 35; P	NA	Sample from upper workings contained 2.16 oz/t Au; Mineralized rock located along a fault-controlled gulch in gw that extends at least 5,000 ft (66)	NE	66	М
P91	COBOL MINE 0021140026	T50S, R59E, Sec 36, 114B6	CF	V: Au	Adits (2): 1,600, 550 w/ winze, stope	100 oz Au	Zone 57 ft long by 3 ft wide averaged 0.28 oz/t Au; float sample below present workings contained 8.74 oz/t Au (66); hosted in gw	NE	63, 66	М
P92	RAM 0021140129	T50S, R60E, Sec 4, 9, 114C6	CF	Dissem: Cu	NA	NA	Samples contained from 55 to 190 ppm Cu (26); hosted in gneiss-metavolcanic	NE	26, 72	L

		Tal	ole A-1.	Summary informa	tion for mine	s, prospects, ar	nd mineral occurrences			
Prospect	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P93	USHK 0021140130	T50S, R60E, Sec 10, 15, 114C6	OF	Dissem: Cu	NA	NA	Samples contained from 5 to 290 ppm Cu, nil to 0.7 ppm Ag, 5 to 100 ppm Mo (26); hosted in Goon Dip Gs and amphibolite	NE	26, 72	L
P94	ORANGE GULCH 0021140221	T50S, R60E, Sec 36, 114B6	CF	O:	NA	NA	Orange-colored gulch along fault contact between metasediment and metavolcanic rocks and gs; contained up to 12 ppm Au, 7 ppm Ag, 3,400 ppm Zn, 100 ppm Mo (66)		66	L
P95	SLOCUM ARM 0021140136	T51S, R60E, Sec 4, 114B6	CF	P: Mo	NA	NA	Mo mineralization in a variety of rock types is scattered across an area greater than a square mile (66); gs intruded by gd	S	3, 66	М
P96	NEXT 0021140199	T51S, R60E, Sec 22, 114B6	CF	Dissem: Cu	NA	NA	malachite and dissem py/po in greenstone (28)	NE	28	L
P97	DEEP BAY 0021140303	T51S, R61E, Sec 8, 114B5	OF	O:	NA	NA	Stream sediment sample contained 12 ppm Au (26); no Au found in recent sampling	S	26	L
P98	RODMAN BAY 0021140075	T52S, R63E, Sec 17, 114B5	P: MS 554, 555	V: Au	Adit: 780	NA	High-grade sample contained 45 ppb Au, nil Ag	M, S	76, 77	L
P99	MIDDLE ARM 0021140188	T52S, R65E, Sec 28, 114B3	OF	V: Cu	NA	NA	Samples contained up to 192 ppm Cu, 10 ppb Au, and 98 ppm Zn	S	28	L
P100	PORTAGE ARM 0021140050	T52S, R65E, Sec 23, 114B3	OF	V: Cu	NA	NA	Covellite, cp in qz veins (28); Bureau of Mines samples contained 1,810 ppm Cu, 2 ppm Ag, 48 ppm Zn	S	28	L

		Tab	le A-1. S	Summary informati	on for mines	s, prospects, an	d mineral occurrences			
Pros- pect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P101	LOST ANCHOR 0021140153	T52S, R66E, Sec 32, 114B3	OF	V: Cu	NA	NA	Samples contained up to 4,060 ppm Cu	S	72	L
P102	THE BASIN 0021140189	T53S, R66E, Sec 15, 114B3	OF	V: Cu	NA	NA	Samples contained up to 230 ppm Cu, 110 ppm Zn, and 0.5 ppm Ag	S	28	L
P103	SOUTH ARM 0021140190	T53S, R65E, Sec 13, 114B4	OF	V: Cu	NA	NA	Samples contained up to 585 ppm Cu, 310 ppm Zn	S	28	L
P104	BLACK HAWK & SUSIE GROUPS 0021140147	T52S, R61E, Sec 8, 114B5	OF	V: Au	NA	NA	Samples contained up to 0.45 oz/t Au (72)	NE	72	L
P105	SEALION COVE 0021140076	T53S, R60E, Sec 11, 114B6	OF	P: Mo, Cu	NA	NA	Samples contained up to 2,450 ppb Au, 21 ppm Mo, 110 ppm Cu, >1% As	S	28	L
P106	LITTLE BLONDE & HIGH GRADE GROUPS 0021140151	T53S, R61E, Sec 15, 114B6	OF	V: Au, Pb, Zn; hosted in contact between gs & arg	Little Blonde: T (3): 30, 12, 10; High Grade: T: 100	NA	Little Blonde: up to 0.42 oz/t Au across 0.6 ft qz (49) High Grade: assays from float contained up to 3 oz/t Au; other samples contained nil Au (49)	NF	49, 51	L
P107	KRESTOF GROUP 0021140052	T54S, R62E, Sec 3, 114A5	OF	V: Au	T (5)	NA	Sample across 0.5 ft contained 0.03 oz/t Au, nil Ag; hosted in gw & slate	M, S	48, 59, 60	L
P108	MAGOUN ISLAND 0021140059	T54S, R62E, Sec 20, 114A5	OF	P: Mo, Cu	NA	NA	Samples contained up to 1% Cu, 1,245 ppm Mo, 9.4 ppm Ag	S	61	L

	Table A-1. Summary information for mines, prospects, and mineral occurrences									
Prospect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production		BLM work	Select references (p. 173)	M D P
P109	HALLECK ISLAND 0021140152	T54S, R63E, Sec 18, 114A5	OF	V: Au	Adit: 125; Shaft: (80)	NA	Samples contained from 5 to 295 ppb Au; qz veinlets in gw and slate	M, S	47, 51	L
P110	SIGINAKA ISLAND 0021140198	T54S, R63E, Sec 19, 114A5	OF	Dissem: Cu	NA	NA	Samples contained to 505 ppb Au, 332 ppm Cu	S	28	L
P111	INDIAN RIVER 0021140001	T55S, R64E, Sec 18, 114A4	OF	Mag Seg: Cr, Fe	NA	NA	Magnetite and chromite in serpentinite (28)	R	28	L
P112	PANDE BASIN 0021140159	T55S, R65E, Sec 16, 114A4	P: MS 538	PL: Au	NA	NA	No evidence of Au-bearing gravels (27)	NE	27	L
P113	WARM SPRINGS BAY 0021140154	T55S, R67E, Sec 19, 114A3	OF	P: Cu, Mo, Zn	NA	NA	20 samples averaged 600 ppm Cu, 85 ppm molybdenum; select sample contained up to 1,445 ppm Cu, 626 ppm Mo, and 1,030 ppm Zn	S	72	М
P114	CASCADE 0021140021	T55S, R64E, Sec 29, 114A4	OF	V: Au	C(s)	NA	Staked prior to 1910; sulfides include po, aspy, rare cp	NF	27	L
P115	THETIS 0021140016	T55S, R64E, Sec 28, 114A4	OF	V: Au, Ag, Pb	Adits (2): unknown length	NA Mill test only	Mill test contained approximately 0.33 oz/t Au, 2 oz/t Ag (1)	M, S	1, 5, 77	L
P116	BOSTON CLAIM 0021140018	T56S, R64E, Sec 4, 114A4	S	V: Au	Adit: 118; T; P	NA	Staked prior to 1904; trace Au found in several samples (33)	NF	27, 33, 77	L
P117	HALEY & HANLON 0021140042	T55S, R64E, Sec 34, 114A4	S	V: Ni, Cu, Co	Adit: 15	NA	Samples yielded 0.99% Cu, 0.2% Ni & 0.09 % Co (25)	NF	25	L

	Table A-1. Summary information for mines, prospects, and mineral occurrences									
Pros- pect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P118	GANGOLA 0021140160	T56S, R64E, Sec 12, 114A4	S	V: W, Cu	T; P	NA	Samples contained up to 570 ppb Au, 1,010 ppm Cu, and 1,110 ppm W	M, S	72	L
P119	BULLION 0021140060	T56S, R64E, Sec 21, 114A4	OF	V: Au	NA	NA	Active around 1900	NF	27, 77	L
P120	APEX 0021140162	T56S, R64E, Sec 14, 114A4	OF	V: Au	Adit: 8	NA	Qz vein in shear zone; zone up to 2 ft wide; values up to 40 ppb Au, 920 ppm Cu	M, S	5	L
P121	LIBERTY 0021140055	T56S, R64E, Sec 24, 114A4	OF	V: Au	Adits (2): 35, 310	NA	Discontinuous qz vein, up to 4 ft thick; situated in fault parallel to country rock fol; highest Au value only 60 ppb	M, S	5, 27	L
P122	BARANOF QUEEN 0021160026	T56S, R65E, Sec 19, C 116D4	S	V: Au	NA	NA	Staked prior to 1912	NF	27	L
P123	HENRIETTA 0021160027	T56S, R65E, Sec 19, 116D4	S	V: Au	NA	NA	Staked prior to 1912	NF	27	L
P124	SILVER BAY 0021160023	T56S, R65E, Sec 19 116D4	S	V: Au, Cu	NA	NA	Active prior to 1900; reported low grade Au and Ag (78); up to 8-ft-wide vein (3)	NF	3, 27	L
P125	EDGECUMBE EXPLORATION 0021160061	T56S, R64E, Sec 25, 116D4	OF	V: Au	Adit: 120 w/ winze, raise	Unknown quantity milled	Samples contained up to 1,810 ppb Au, 0.6 ppm Ag, and 212 ppm Zn	M, S	53	L
P126	EUREKA 0021160009	T56S, R65E, Sec 30, 116D4	OF	V: Au	Adits (3): 85, 2 caved	NA	Claim active prior to 1898; select sample contained 27.5 ppm Au, 3.2 ppm Ag, 4,060 ppm As	M, S	1, 27	L

	Table A-1. Summary information for mines, prospects, and mineral occurrences									
Prospect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P127	GOLD REEF 0021160024	T56S, R65E, Sec 30, 116D4	OF	V: Au	NA	NA	Active around 1912	NF	27	L
P128	GREEN LAKE 0021160030	T56S, R65E, Sec 29, 116D4	S	V: Au	Adits (3): 389, ?, 1 caved; T, P	NA	Up to 6-ft vein in outcrop; 0.02 oz/t Au in sample across 4 ft (46)	S	33, 46	L
P129	LOWER LEDGE 0021160016	T56S, R65E, Sec 32, 116D4	OF	V: Au	Adit: 63; Shaft: (flooded); C(s)	NA	Qz stringers in shear exposed in adit; very low precious metal values; up to 2,350 ppb Au in local float sample	M, S	5, 27,77	L
P130	STEWART 0021160007	T56S, R65E, Sec 32, 116D4	P: MS 567, OF	V: Au, Ag	Adits (3): 180 (w/ 29 ft winze), 93, 33	Unknown quantity milled	Qz vein exposed over 200 ft horiz and 120 ft vert; up to 16 ft wide; average 5- to 6-ft-wide vein; values up to 3,130 ppb Au, minor Ag	M, S	5, 27, 77	L
P131	NO NAME 0021160065	T56S, R65E, Sec 32, 116D4	OF	V: Au	Adit: 264	NA	Low precious metal values; Au values to 60 ppb across 3.5 ft.; high As and Hg values	M, S,		L
P132	BAUER 0021160005	T56S, R65E, Sec 32, 116D4	OF	V: Au	Adit: 1,070	NA	Very minor mineralization; Au values to 280 ppb	M, S	27, 77	L
P133	WICKED FALL 0021160029	T56S, R65E, Sec 33, 116D4	OF	V: Au	Adits (2): 17, ?	NA	Active around 1912; Plate 3 shows 2 adits; select sample 280 ppb Au	M, S	27	L
P134	FREE GOLD 0021160010	T57S, R66E, Sec 5, 116D4	OF	V: Au	1 Adit?	NA	Active prior to 1904; Plate 3 shows one adit on prospect; samples from area reveal low precious metal values	S	27	L

	Table A-1. Summary information for mines, prospects, and mineral occurrences									
Pros- pect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P135	LUCKY CHANCE 0021160017	T57S, R66E, Sec 5, 116D4	OF	V: Au, Ag	Adits (2): (513) total length; T; P; glory hole	1,200 tons mined; unknown quantity Au	Visible Au present on dump; samples contained from 0.17 to 1.72 oz/t Au (52)	S	27, 52	L
P136	LUCKY CHANCE MTN. 0021160064	T57S, R66E, Sec 5, 8,9, 116D4	OF	V: Au	Adits (2): 20, 50 caved; T	NA	Qz veins in gw and phyllite; low Au values: 4,840 ppb in select sample	M, S		L
P137	HILL 0021160002	T57S, R66E, Sec 13, 116D3	OF, CF	Mag Seg: Cr	NA	NA	Grab sample contained 0.6% Cr	S	72	L
P138	RED BLUFF BAY 0021160001	T58S, R68E, Sec 9, 116D3	OF	Mag Seg: Cr	T; P	NA	Resource: 29,500 mt @ 12% Cr ₂ O ₃ (72); diamond drilled	S	18, 24, 72	L- M
P139	GODDARD HOT SPRINGS 0021160011	T58S, R64E, Sec 17, 116D5	S	Mag Seg: U-Th	NA	NA	Allanite to 7% in heavy mineral concentrates	S	35, 41, 74	L
P140	PATTERSON BAY 0021160062	T61S, R69E, 116C2, C3	CF	P: Cu	NA	NA	Rubble crop samples contained up to 970 ppb Au, 3,100 ppm Cu, and 4,820 ppm As	S	7	L
P141	MT. MURAVIEF 0021160063	T62S, R68E, Sec 2, 3, 116C3	OF	O: Cu, Zn	С	NA	Copper in massive pods, disseminated in schist, and in volcanic breccia; 1.6% Cu over 18 ft; select sample to 6.3% Cu	M, S	7	L
P142	SNIPE BAY 0021160025	T63S, R67E, Sec 9, 116B3,B4	OF	Mag Seg: Cu, Ni	T; P	NA	Resource: 94,000 tons grading 0.94% Cu, 0.33 % Ni (72); prospect has been diamond drilled	S	8, 15, 40, 72	М

	Table A-1. Summary information for mines, prospects, and mineral occurrences									
Pros- pect no.	Name MAS no.	Location	Land status	Deposit type	Work- ings	Production	Significant results	BLM work	Select references (p. 173)	M D P
P143	REDFISH BAY 0021160021	T64S, R67E, Sec 1, 116B3,B4	CF	Peg: REE	NA	NA	REE reported in 1952 (56); largest dike 30-40 ft thick; no commercially valuable minerals (6); hosted in Tertiary intrusive	S	6, 56	L
P144	PORT LUCY 0021160019	T64S, R69E, Sec 4, 116B2	OF	V: Cu	NA	NA	Samples contained up to 197 ppm Cu	S	76	L
P145	PORT CONCLUSION 0021160018	T65S, R70E, Sec 6, 116B2	S	V: Cu	NA	NA	Samples contained up to 0.5 ppm Ag, 230 ppm Cu, and 110 ppm Zn	S	78	L

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APPENDIX B - ANALYTICAL RESULTS

Sampling and Analytical Procedures

SAMPLING

Rock sample types include continuous chip, chip channel, grab, random chip, representative chip, select, and spaced-chip samples. Continuous chip samples consist of rock fragments taken in a continuous line across the sample site; chip channel samples are rock fragments cut from a sample line of relatively uniform width and depth across the sample site; grab samples are collections of rock fragments taken more or less at random from the sample site; grab samples often include samples of float or rubblecrop; random chip samples are rock fragments collected randomly from the sample site: representative chip samples are rock fragments collected to characterize the rock type at the sample site; select samples are collected from the highestgrade part of the sample site; and spaced-chip samples are composed of rock fragments taken at specified intervals across the sample site.

Stream sample types include stream sediment, pan concentrate, and placer samples. Stream-sediment samples consist of silt to clay-sized particles found in streams or along stream banks. Metals adsorb to these fine particles, so the samples are used to determine the presence of anomalous metal concentrations in the area drained by the stream. Pan concentrate samples are the heavy mineral fraction of a pan full of sand and gravel reduced by normal panning techniques. Placer samples consist of the heavy mineral fraction concentrated from 16 pans (0.1yd³) of material processed through a 4-foot long sluice box.

ANALYTICAL PROCEDURES

Samples were prepared and subsequently analyzed using both atomic absorption spectrophotometry (AA) and inductively coupled argon plasma atomic emission spectroscopy (ICP) techniques. Gold was analyzed using a 30 gram sample by fire assay preconcentration followed by an AA finish. Silver, copper, lead, zinc, nickel, cobalt, and molybdenum were usually analyzed by AA techniques. A few samples were analyzed for platinum-group metals using fire-assay techniques followed by an ICP finish. Several samples were analyzed for the same element using two different techniques. The result from the more accurate method is presented in the tables (see Table B-4, p. 219, for analytical detection limits).

Rock samples were dried, crushed, and pulverized to at least minus 100 mesh. A sample weight of 0.5 grams was put into solution using an aqua-regia leach technique for the AA and ICP analyses.

Limestone samples were analyzed using whole rock methods. Major oxide concentrations were determined by X-ray fluorescence spectroscopy (XRF) and total carbonate by acid/alkali procedures (CaCO₃ determined by volumetric/titration method ASTM C-25). Each sample was rinsed, dried, and weighed prior to analysis.

Several rock chip samples were analyzed for rareearth elements (REE) by neutron activation analysis (NAA). The standard sample preparation described above was used for these samples, however no sample dissolution was required.

Analytical Results of Samples from Mines, Prospects, and Mineral Occurrences

Sample data and analytical results are tabulated in Tables B-1 to B-3. In addition to the analytical results, the following are listed in the tables: map number, field sample number, mineral location name, sample type, sample size, sample site, and sample description. The results are organized by map numbers, which are displayed on the sample locality map (Plate 2, in pocket). The map numbers are

arranged generally north to south and west to east on Plate 2. Analytical results from carbonate and whole-rock sampling are presented in Table B-2. Rare-earth element (REE) sample analyses are presented in Table B-3. A list of analytical detection limits is included as Table B-4.

KEY TO APPENDIX B TABLES

All analyses were conducted by a commercial laboratory. Results are presented by chemical element symbol.

Analyses in bold and followed by an asterisk (*) are assay-grade analyses.

ABBREVIATIONS

Abbreviations for <u>sample types</u> (see page 175 for definitions of sample types):

	Rock Chip		Stream Sample
C	continuous chip	SS	stream sediment
CC	chip channel	PC	pan concentrate
G	grab	PL	placer
RC	random chip		-
Rep	representative chip		
S	select		
SC	spaced chip		

Abbreviations for sample sites:

FL	float	RC	rubblecrop
MD	mine dump	TP	trench, pit, or cut
MT	mill tailings	UW	underground workings
OC	outcrop		

Abbreviations used in sample descriptions in Table B-1:

@	at	hn	hornfels/hornfelsed
adj	adjacent	hw	hanging wall
alt	altered	int	intrusive
	andesite		
an		K-spar	potassium feldspar
ar	argillite	ls	limestone
aspy	arsenopyrite	mag	magnetite
az	azurite	meta	metamorphic
bt	biotite	ml	malachite
br	breccia/brecciated	mo	molybdenite
calc	calcite/calcareous	monz	monzonite
cg	coarse-grained	min	mineralized
cng	conglomerate	msy	massive
chl	chlorite/chloritic	oz/t	troy ounces per short ton
ср	chalcopyrite	peg	pegmatite
di	diorite	pl	phyllite
dissem	disseminated/disseminations	po	pyrrhotite
ер	epidote	porph	porphyry/porphyritic
fel	felsic	ру	pyrite/pyritic
fest	iron stained	qz	quartz
fg	fine-grained	sed(s)	sediment(s)
Fm	Formation	sc	schist
fw	footwall	sil	silicified/siliceous
gd	granodiorite	sl	sphalerite
gn	galena	sulf	sulfide
gp	graphite/graphitic	vn	vein
gs	greenstone	vnlets	veinlets
gw	graywacke	volc	volcanic
hem	hematite	w/	with
hnbd	hornblende	xcut	crosscut/crosscutting

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Table B-1. Analytical results of samples from mines, prospec	ts, and mineral occurrences.
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12 1394 Westport	Rep: 5.5 T	网络沙鸡沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙沙	<5	<.2 100	<2 50	8 1 3 4 1	
13 1396 Westport	G T		<5 ** <5	<.2 4	<2 30	3 11 3 0	
14 1244 Westport	Rep 2 T	TO A SECTION OF THE PROPERTY O	gaaran K.* , an in ina aan 1995, 986, an in in in	<.2 26	12 32		49 24 20
15 1393 Westport 16 2132 8-Fathom Bight	S TI		<5 < 5	<.2 25 0.4 179	24 20 <2 52	6 5 4 0 2 17 25 1).29 112 40 .58 4 70
16 2132 8-Fathorn Bight 17 2073 8-Fathorn Bight	PC 4 pans	Black sand	, <5 <5	0.4 179 0.2 40	4 62	2 17 25 1 1 20 20 1	
17 2133 8-Fathom Bight	SS 4 paris	DIACK SATIO	<5	<0.2 52	8 90		61 8 90
18 2071 8-Fathom Bight	Rep O	C Porph mafic volc, py to 5%, fest	~5	0.2 54	<2 64	<1 21 27	
18 2130 8-Fathom Bight	S T		<5	<0.2 55			28 70
19 2072 8-Fathom Bight	PC 4 pans	Abundant black sand	<5	<0.2 16	12 60	6 16 19 0	
19 2131 8-Fathom Bight	SS		≺5`	<0.2 12			99 <2 40
20 2074 8-Fathom Bight	SS	anderse in aken navar i etter aktiken kolonis i til sen hen hen i kolonis i til til til til til til til til ti Til sen sen navar i til sen kolonis skriver som som sen	<5	<0.2 56	14 104	1 34 22	2.7 6 40
21 2070 8-Fathom Bight	Rep 2 Ti	Banded hn, py to 8%	. 551	0.6 - 433	4 58	2 7	21 - 934 7 10
22 2134 8-Fathom Bight	SS		<5	<0.2 49	4 70	<1 26 13 2	2.54 30 90
- 23 2135 8-Fathom Bight	SS		<5	<0.2 29			4 50
24 2136 8-Fathom Bight	SS		<5	<0.2 36	2 70	1 14 12 2	
25 2068 8-Fathom Bight	Rep 0.7 O	프로프트 사람이 그러나 프랑토를 관금하는 하나가 하고 그리고 싶다는 것은 모든데 아이를 받는다.	APPENDED STORES AND AND ARCHITECTURE AND ARCHITECTURE AND ARCHITECTURE AND ARCHITECTURE.	0.2 61	4 62		.69 2 ₹ .<10
25 2069 8-Fathom Bight	S 2 0	The second secon	<5	0.4 91	8 74 2 60	3 19 21 1	
25 2129 8-Fathom Bight 26 1389 Salt Lake Bay	S'R	C Banded hn w/ py/po to 3% Gd to di in area	<5 <5	0.2 1 173 <.2 30	2 60 2 50	<1 52 32 0 <1 15 15 3	.75 22 10 .68 24 80
26 1389 Salt Lake Bay	55 Rep 0.5 O			<.2 30 1.2 654		<1 15 15 3 <1 15 70 5	.05 52 30
27 1388 Salt Lake Bay	S TI		n 1900 t	- 1,2 = 654 <.2 4	<2 10	1 2 4 2	
28 1238 Salt Lake Bay	Rep 1.5 O		10	×.2 49	2 54	4 8 17 2	
29 1387 Salt Lake Bay	S O	N. S. 16 LEVI AND TO SECTION AND AND AND AND AND AND AND AND AND AN	<5	0.2 687	<2 44	1 16 27 2	.94 2 40
i 30 1240 Salt Lake Bay	Rep 2 TI		<5	<.2 23	<2 48	1 22 13 1	
30 1390 Salt Lake Bay	S TI		<5	<.2 9	2 52	<1 3 9 3	.68 12 100
31 :1237 Salt Lake Bay	S 0.5 TI	Section 1 th transfer and the 1880 of the contract of the cont		<.2 16	Garange and the contract of the second secon	Neight in the second of the contract of the second of the contract of the cont	27 + 2260 200
31 1385 Salt Lake Bay	Rep 1.5 Ti		<5	<.2 27	2 72	1 6 15 1	
31 1386 Salt Lake Bay	G . TI	Peg w/ minor crystalline py :: 🎉 🦹	SAPERINAL PROPERTY AND THE PROPERTY OF THE PERSON OF THE P	<:2 20	autoria 1880 (1974) i selliko 2. albertu 1984 (1974) i selektri 1974 (1977)		59 6 4 30
32 1236 Salt Lake Bay	SS	Pt. Augusta Fm. gw + gd	<5	<.2 53	4 80	<1 29 14 2	
33 1384 Salt Lake Bay	÷ SS	Int & gwin area	< 5.*	<.2 51	22. St. 698. Lehiberton, 2007. May 47 Sept. 7.	The DRUG SCOOL SCOOL AND A SECOND SCOOL AND SECOND AND	.21 8 7140
34 1235 Salt Lake Bay	SS	Pt. Augusta Fm. gw & marble	<5 *	<.2 60	8 98	<1 31 17 3	
35 1355 Seagul Creek Road	G , Fi	Py cubes & dissem to 10% in is/marble	the second of th	<.2 74	CONTRACTOR OF THE SERVICE STREET, STRE	CONTRACTOR OF THE STATE OF THE	.83 22 60
36 1208 Seagull Creek Road	Rep 1.5 O	C Py dike in fractured Is	25	<.2 340	<2 136	<1 4 16 1	.05 82 70

Mabasama Bean Blook Carra Cd W. Cowal Feth Cga wildows Kiyasula valitica Mga Mni ot Na Janboo Parisbasscal Sni Sci Tair Tearri	i curicula v. W. Zasar iza
no se no Albem Jeben 🖖 🦠 pem gepen 🧎 🤲 pem gepe 🖽 🦋 pem upm " 🤏 gepen " " % sepem pem pem pem pem pem pem pem sepem se	dop (dop meps majo), majo), majo mog mog
1 2394 <5 2.61 <0.2 101 11.45 <2 14 0.01 6 14 0.37 1697 <0.01 5 8 <5 <20 119 <10 <10 0 1 2395 <5 0.54 <0.2 88 26.6 <2 85 0.03 20 31 1.05 4064 <0.01 9 8 14 <20 26 <10 <10 0	.03 141 <20 13 <1 18 261 <20 28 <1
	.03 621 <20 94 <1
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3 1241 <.5 <2 >15.00 <.5 27 3.16 <10 <10 0.04 10 1.06 395 0.02 560 <2 1 708 0	.03 <10 <10 34 <10
3 1391 25 25 15.00 <.5 47 5.11 <10 10 0.01 10 0.81 325 <.01 390 <2 3 788 0	13 <10 <10 \ 38 <10
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- 機能は機能機能を発表している。 1982年 1982	.01 <10 <10 <1
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- 数性機能機能を受ける機能を表現を表現を表現を表現を表現を表現を表現します。 これを表現しているとは表現しているとは、1992年 1992年 1992年 1992年 1992年 1993年 1993	18 <10 <10 96 <10
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- 大学・数学数・整理機能・支援機能・発生しては、全によっては、これには、これには、大学・大学・大学・大学・大学・大学・大学・大学・大学・大学・大学・大学・大学・大	.17 10 <10 1045 <10
	12 <10 <10 300 <10
20 2074 0.5 <2 0.85 0.5 51 4.81 <10 40 0.08 10 1.84 830 0.01 900 <2 8 53 0.01	.12 <10 <10 76 <10
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- 連続機能の機能を開発性には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968年には、1968	.09 <10 <10 23 <10
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- 機能整理機能が整理を発表を受ける。	21 <10 <10 92 <10 .06 <10 <10 25 <10
21 1000 10 12 2.12 10 00 1.01 10 110 110 110 110 110 110 1	16 <10 <10 141 <10
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- 大学、大学、大学、大学、大学、大学、大学、大学、大学、大学、大学、大学、大学、大	01 \$10 \$10 35 \$10
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- 大大大学の大学の大学を表現である。 1985年 198	23 <10 <10 125 <10
\$ 35 1355 } <.5	.01 <10 <10 43 <10
36 1208 <.5 <2 8.53 1 56 3.55 <10 30 0.21 <10 1.57 475 0.06 930 <2 4 350 <	.01 <10 <10 36 <10

Map (Sam)	Sam Sample Sam	化铁铁铁铁 医上手上张 法共同		440 - Chr.	20 M	N N CO A	A. 1
Processing the second s	rype r size (n) mene.	The state of Sample Description of the sample of the sampl	ppp ppm	bbu mbbu see	ACCUMULATION OF THE PROPERTY OF	n ppm as ppm 1626 1	a labora salbom.
36 1209 Seagull Creek Road	W. CH. AAMANI, WARRENCE AND THE CONTRACTOR	、 1、a f g x y g y g x g x g x x x x x x x x x x	<5	State 21 - New Land - 20 Secretary Section 27, 117	CONTRACTOR OF THE STATE OF THE	4 192 81 0.7	A STORY OF THE STO
37 1383 Salt Lake Bay	SS	Pt. Augusta Fm. metaseds in area	<5	<.2 43		1 31 12 3.06	<2 60
38 1234 Salt Lake Bay	SS	Pt. Augusta Fm. metaseds in area	the form of the state of the st	« <.2 \(\) 59		1 33 17 : 3.36	NAME AND ADDRESS OF THE PROPERTY OF THE PARTY OF THE PARTY.
39 1381 Salt Lake Bay	SS	Gd & minor marble in area	<5	<.2 50		1 31 15 2.97	<2 130
39 1382 Salt Lake Bay		Pt. Augusta Fm. gw w/ <1% py	.<5	<.2 62	8 44 1	0 27 11 1.66	<2 20
40 1353 Game Creek Road	SS	In Pt. Augusta Fm. metaseds	<5	<.2 59		1 32 17 3.33	20 120
41 1354 Game Creek Road	G FL	Rhyolite w/ dissem py <1%, copper stal	change at the second of the about the	reach a Children S. Bhar Shirt Shirt sedant to a con-		1 18 14 1.64	
42 1207 Seagull Creek Road	Rep 2 OC	Fest sil volc w/ abundant py	<5	<.2 72		1 27 22 2.98	<2 90
43 1206 Game Creek Road	Rep TP	Py & cp in qz w/ gw & sil slate	< 5	<.2 56	66 72 <	1 12 7 1,06	<2,40
43 1352 Game Creek Road	S TP	Gw w/ seams of py <1%	10	<.2 23		1 13 7 0.83	62 400
44 1203 Game Creek Road	Rep ⊸2 TP .	SI, py in ait fg int	<5	*<.2 3	2 8 ; .	5 1 3 0.32	<2 20
44 1205 Game Creek Road	Rep 2 TP	Cp & py in alt fg int	<5	<.2 6	•	4 1 22 0.23	2 10
45 1201 Game Creek Road	Rep 2 OC	Rhyolite w/ py in mafic-fel volc sequence	e <5	. <.2 14	10 .16	6 <1 <1 0.52	10 30
45 1202 Game Creek Road	Rep 2 OC	Fest & sil zone in volc adj to rhyolite	<5	<.2 21		6 1 2 0.6	<2 30
45 1204 Game Creek Road	Rep 2 TP	Rhyolite w/ py	. 10	<.2 - 9	<2 2	9 1 9 0:28	. <2 4.10
45 1350 Game Creek Road	SC 36@2 OC	Rhyolite w/ 2% dissem py	<5	<.2 11	10 46	9 1 1 0.37	12 60
45 1351 Game Creek Road	Rep 10 OC	Alt rhyolite w/ 1-2% py	<5	<.2 12	2 50	4 <1 4 0.62	61.50
46 1210 Spasski Creek Road	Rep 15 OC	Fg int w/ mag	<5	<.2 30		1 46 28 3	<2 90
47 2086 Spasski Creek	S 2 OC	Alt sil dike, cp to 5%, py to 10%	<5	<0.2 1.15 *	<2 <2 <	1 12 11 0.27	<2 20
48 2087 Spasski Creek	S FL	Mariposite-rich fel dike, fest	<5	<0.2 24	6 <2 <	1 32 11 0.68	<2 10
48 2142 Spasski Creek	S TP	Msv py lenses in alt cng	<5	1.3 98	28 34 <	1 99 26 0.22	46 <10
49 2088 8530 Spur Road	Rep FL	Skarn w/ po to 15%, trace cp	<5	0.3 98		1 120 39 2.62	<2 70
50. 2089 Suntaheen Creek	S 0.1 OC	Calc vn w/ qz, no sulf	<5	<0.2 12	2 12 <	1 4 3 0.2	<2 , 20
51 2145 8535 Road	Rep OC	Alt voic at contact w/ is, sulf to 2%	<5	0.3 295	<1 108 2		<2 20
52, 2143, 8535 Road	Rep TP	Mafic dike w/ sulf, alt hnbd int	<5	0.2 92	1 84	1 72 32 4.25	2 30
52 2144 8535 Road	S TP	Porph hnbd int, sulf to 10%	<5	0.2 92	 Kinder Lindon Substance Managed 19 No Labor Cities 	7 2 29 3.67	<2 40
53 2090 lyouktug Creek Road	Rep 3 OC	Porph dike, py to 10%	~<5	<0.2 40	2 106 <	1 36 55 3.42	<270
54 2075 False Bay	s oc	Calc vns, py/po to 1%	<5	0.2 19	2 38 <	I'V NY TAY ALL BOY OF STATE STATES AND A TO STATES AND A STATES AND A STATE OF A STATE O	2 40
55 2137 False Bay	C 1.4 OC	Fel dike in is, 1-2% py, trace cp	< 5	<0.2 78	8 62 <		30 30
Map number 56 is a carbonate samp		ing in State Windows in States in States in State & Marie (1997) and the state of t	The state of the s	# TO SUMME THE TO PER THE	2	- 1.4.71 Takens 40 1.9606-7.989558	Park Comment Comments and Comments
57 2076 Gypsum Creek		Skarn boulder, cp to 2%, po to 50%	<5	<0.2 116	<1 151	6 310 30 0.28	<2 4 10
57 2077 Gypsum Creek	S 1x2 OC	Marble w/py stringers/stockwork	<5	<0.2 46	<1 14 1	1 50 14 0.29	<2 30
57 2078 Gypsum Creek	S 0.5 OC	Hn w/ po to 5%, trace cp	<5	<0.2 60	<1 32	1 200 42 3.48	2 210
57 2138 Gypsum Creek	S TP	Msv py seams in fossiliferous Is	<5	0.3 24	A 15V-1	2 60 8 0.58	16 10
58 2079 Gypsum Creek	SS		<5	<0.2 79	2 88		4 40
59 2085 Gypsum Creek	SS		<5	<0.2 41	2 80	3 22 8 3.33	4 40
60 2084 Gypsum Creek	SS		<5	<0.2 57	2 96	1 20 8 2.11	8 30
61 2083 Gypsum Creek	SS	and the second of the second o	<5	<0.2 79	in the 12 then delight in date bulleague.	3 24 9 2.55	14 30
	SS		· · · <5	<0.2 70		5 8 7 2.13	
63 2081 Gypsum Creek	Rep 2 OC	Hn w/ po/cp to 10% combined	<5	<0.2 210	00.1 - 10.1 - 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1 2 26 0.38	<2 <10
	S 1.5x2 OC	Skarn/hn w/ po/cp to 15% combined, loc		<0.2 2200			<2 <10
65 2139 Gypsum Creek	S TP	Msv py/po, some cp in alt int	25	<0.2 1900	<1 15 <	11. A. T. W. L. S. C. L. Mark Nova A. M. Storick of the stock of application decision.	24 <10
65 2140 Gypsum Creek	Rep TP	Skarn w/ py/po to 30%, cp to 3%	50	0.4 1950	<1 39 2		
65 2141 Gypsum Creek	C 3.7 OC	Skarn adj to marble, sulf to 10%	<5	0.4 1500		2 12 66 0.76	16 <10
66 - 2165 - Gypsum Creek area	G RC	Gossan, sil zone, minor py, trace cp		<0.2 12		4 7 47 0.66	
ing ng mgamane-ngaga nan∉ ting an angangan di dinahanan na angan ya 2000gan 3	47 x 47 4 4 4 8 486 3 6 5	१४ त्याच्या र १५ तरह १४ क्षांस्थ श्राह्मा विभागिक १९६४ मध्या । । इत्यासिक विभागिक विभागिक १९५४ % % % % % % % % १९४७ विभागिक विभागिक १९५४ के १९४४ मध्ये १९४४ मध्ये १९४४ मध्ये १९४४ मध्ये १९४४ मध्ये १९४४ मध्ये १९४४ १९४४ १९४४ १	record Cort Table 7994				

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36 1209 <5 <2 0.78 <5 109 >15.00 <10 380 0.08 <10 0.41 90 <.01 230 22 1 56 <
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38 1234 < 5 <2 1:39 < 5 59 4.27 < 10 50 0.33 10 2.21 545 0.04 640 <2 11 98 0.21 < 10 <10 127 < 10
39 1381 <.5 <2 1.04 <.5 52 4.05 <10 50 0.24 10 2 530 0.02 650 <2 10 64 0.16 <10 <10 113 <10 39 1382 <5 <2 0.73 <5 120 2.96 <10 30 0.15 <10 0.81 40 0.11 390 <2 3 89 0.09 <10 <10 66 <10
40 1353 <.5 <2 0.67 0.5 58 4.48 <10 60 0.32 10 2.29 645 0.01 650 <2 12 55 0.18 <10 <10 126 <10
41 1354 < 5 < 2 1.58 2.5 70 3.98 < 10 80 0.34 10 1.1 635 0.05 820 < 2 5 54 < 01 < 10 < 10 41 < 10
42 1207 <.5 <2 0.65 0.5 53 5.48 <10 10 0.31 10 2.11 535 0.01 850 <2 5 19 0.25 <10 <10 59 <10
43 1206 <5 <2 14.65 0.5 84 2.34 <10 <10 0.17 <10 0.72 1525 0.04 300 <2 6 663 <0.01 <10 <10 <10 31 <10
43 1352 <.5 <2 4.58 <.5 59 3.17 <10 350 0.32 <10 1.12 830 0.03 510 2 6 119 <.01 <10 <10 21 <10 44 1203 <5 5 <2 0.09 <.5 57 2.98 <10 80 0.13 20 0.07 100 0.16 210 <2 <1 7 <01 <10 <10 <10 <10 <10 <10 <10 <10 <10
44 1205 <,5 <2 0.51 <,5 53 3.33 <10 850 0.12 30 0.13 365 0.16 210 <2 1 11 <.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
45 1201 0.5 \$2 0.02 <.5 42 2.4 <10 30 0.3 60 0.02 315 0.1 80 <2 <1 4 <01 <10 <10 <10 <10
45 1202 <.5 <2 0.18 <.5 55 3.86 <10 50 0.36 110 0.12 1330 0.15 90 <2 <1 12 <.01 <10 <10 1 <10
\$\frac{45}{1204}\$ \$\left\{5\}\$ \$\left\{2}\$ 0.26 \$\left\{5\}\$ 77 \$\left\{3.6}\$ \$\left\{10}\$ 0.15 \$\left\{60}\$ 0.05 \$\left\{150}\$ 0.21 \$\left\{230}\$ \$\left\{2}\$ \$\left\{1}\$ 7 \$\left\{10}\$
45 1350 <.5 <2 1.69 <.5 68 3.8 <10 70 0.13 40 0.44 1780 0.27 340 <2 4 90 <.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
45 1351 0.5 <2 2.08 <.5 33 3.18 <10 80 0.36 20 0.48 2000 0.09 800 <2 <1 116 <.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
47 2086 0.5 4 7.89 <0.5 49 5.38 <10 380 0.06 <10 1.97 1280 0.06 420 4 10 94 <0.01 <10 \cdot 25 10
48 2087 1 4 7.95 <0.5 1050 4.24 <10 20 0.3 <10 2.1 1030 0.04 300 4 31 58 <0.01 <10 <10 46 <10
3 48 2142 * 0.5
49 2088 1 <2 2.25 <0.5 119 11.05 <10 70 0.33 10 1.04 115 0.27 790 4 4 154 0.4 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10
50 2089 0.5 8 >15.00 <0.5 30 2.78 <10 10 0.04 <10 1.65 1035 0.01 150 2 /1 1100 <0.01 <10 <10 4 10 51 2145 1 4 3.95 <0.5 47 5.2 <10 10 0.31 10 0.83 515 0.11 2120 2 8 47 0.37 <10 <10 81 20
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Mag	Sam			Sam	Sample	Sam	a 1945 Salata Salata Galaga Barana	A.		9 - 90	Po	40	MO M	(CO)	Al .	Aberra 30
no.	100	A START Location	7. F. 3-F.	type	size (ft)	site	Sample description	(1)	pappin spr	(n) ppa	% ppm	opm -	appmiappi	n ppin	93	900 5200
		Gypsum Creek area		S		RC	Skarn w/ py <1%, cp).2 560		30		5 13	3.38	2 20
		Gypsum Creek area		G '		OC	All carbonate rock, py, gray sulf		5. * :<(),2 11		97	· <1 *	8: :<1	0.06	38 < 10
		Gypsum Creek area		Rep		oc	Int/Is contact, trace cp, py).2 83			0.6 5		<2	30 < 0.5
67		Seal Creek		G		FL	Fest skarnified int near is contact	<	Section Character and Section 2).2 - 180		CO. AND CO. MAN AND CO.	<1 2			<2 20
68		Seal Creek		SS			Fel int & marble float			<.2 22			<1 1		2.88	<2 40
		Seal Creek	5 1 1 100 11	SS			Downstream from Int-Is contact	<	5 •	:.2 / 33		Our Peakl, C. N. W. S. et	· 2 8	4 / 17	1,97	6 40
		Seal Creek		S		FL	Marble w/ 2-3% py, po, cp	<		0.8 89		36			4.19	14 70
71	1220	Seal Creek		s .		TP	Hn lens in is, py/po to 5%	5),6 - 273		at the second control	¹ <1	2 .48	1.47	22:110
		Seal Creek		Rep	2.8	TP	Fel dike w/ 5% py + po	and the commence of the contract of the contra).2 43		28	<1 13		5.84	20 30
		Seal Creek		S , '		RC	Py (40%) in calc matrix near dike,	skam <	5 ().2 19	102	324	<1 6			58 <10
		Seal Creek		SS			Area of Is w/ intruding dikes	<	-	:.2 44	16	128	1 7		2.41	6 40
73	1369	Seal Creek		SS			Ls w/ mafic dikes in area	<	5 .	.2 21	. 4	92	1 3	9 12	2.5	<2 40
		Map number 74 is a c	and there is the state of the same of the		Water Company of the Control of the	le B-3)	. Here and the second of the s									
		Seal Creek		S :		၀င	Skam w/ garnet, ep, cp <1%, ml, j	py 1	5	3 2030	<2	54 🕶	. 1 <1	and minima a	3.63	><2 <10
-		Seal Creek		Rep	60	OC	Sil int w/ ~5% dissem py & po			:.2 124	<2	52	10 2		2.02	<2 20
76		Seal Creek		Rep	1.5	OC	Fest skarn w/ py/po, 6' skarn zone		5. •	:2 34	7 112	42	<1 ° 2	Part of page 1		32 70
76		Seal Creek		Rep	30	oc	Int w/ dissem py/po to 3% near sk			:.2 90		14	1 1		2.33	<2 60
77		Seal Creek		SS		為漢法	Mapped Freshwater Bay volc		Challe dury (#17 - 60) and any north of the	:.2 🦠 38	and the second	7	1 3	REACHEL PANAGEOUS CONST	3,53	34 1 90
78		Seal Creek		Rep	0.1	TP	Ribbons of hem in qz vn in fault w			.2 8	<2	88			0.6	2 1570
79	2066	Kennel Creek Road		Rep	0.4	oc	Syenite peg, K-spar, bt	· · · · · · · · · · · · · · · · · · ·	5 <0).2 21	2	12	<1 1	0 3.	0.7	+<2 + 30
80		Kennel Creek Road		SS).2 24	2	40			3.14	<2 50
. The Parity of	N	Kennel Creek, N of		SS			Monz float in stream	1995 : 19 4	5 <	.1 29	- 8		5			<5. 48
		Kennel Creek Road		S		FL	int w/ 2% py/po, gneissic).2 91	<2	20	97 2		0.54	6 20
		Kennel Creek Road		G 💮	2-1	OC	Fest sil cng	<	5 <0).1 🖟 28	- 6	60	<1;	6 1	0.98	<5 260
82	2342	Kennel Creek		SS			Stream in granite & monz float		5 <0			52	3 1		2.4	<5 81
× 83	1229	Tenakee Road		Rep .		TP ·	Py to 5% on fractures in gs dike in	nls <	5 <	:2 82	~ <2	52	- 1	8 31	3.54	₹2 ₹ 20
83		Tenakee Road		Rep		TP	Marble w/ py to 10%, near int cont			.2 1	<2	8			0.49	24 90
83		Tenakee Road		S,		TP	Interbedded gw & Is w/ ~7% py/po)	Ó	an management of the second	A W. 1415 . 17589	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				4:1.50
84		Tenakee Road		С	0.66	OC	Mafic dike w/ py to 2% in marble	<		.2 165	<2	142	<1 3		3.87	<2 10
85	2340	Kennel Creek, S of	원들 보세성장	SS			Stream in gd, monz & hn	· · · · · · · · · · · · · · · · · · ·	Physicians for each contract of the	Company and a second contract of the fact	9	44	5.	7 11	2:33	<5, 57
86		Kennel Creek		SS			Stream in monz & metaseds		5 <0		7	61	6 1		2.48	<5 71
87	# 4 5 h.e	Freshwater Bay		S		RC	Contact zone		TANKAY LANGE	constitution of the section of	4	us demokratik di ACM i Sur	409 1			9 - 31
87		Freshwater Bay		S		RC	Banded hn w/ qz vns & blebs	<			11	11	611 1		0.52	<5 32
Case Clibral :		Freshwater Bay	Contract of the Salas Salas Salas Salas	- 2.78 Strafter	1.5	RC	Banded green/black hn w/in a peb	Anni N 990, Meille Anna Coada N Allen (1974) (2014) (2014) (2014) (2014) (2014) (2014)	W. 1867 (200 April 1971) 17	the found of the bold of the first	4	. 362.11 v. Sv. 1477 COREASE.	2030 1	CC 4 4 % C C C C C C C C C C C C C C C C	Charles and Color of the Carles and Carles a	<5 4 37
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91	2126	8510 Road		SS				<	5 <0	1.2	2	62	1	8 8	2.13	<2 60

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92 2127 8517 Road	S ::	···· TP	Ar w/ minor py, fest	< 5	MARANTAN DE ANTONIO	1287	11.4	"School and Affectable Affectable to Mark It also.	13 2,74	CONTRACTOR CONTRACTOR SERVICES
93 2062 8515 Road	SS S	TO SERVER PROD		<5	<0.2	23	4 60	<1 11	10 1.91	
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98 2123 8515 Road	S	RC OC	Ar w/ dissem py <1% along fractures	40	<0.2 <0.2	72 83	4 70 <2 62	1 30	12 2.77	6 30
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102 2053 8510 Road	SS		Cilved have a trace of	en and the contract of the con	\$2.505.00 m in 120,000 m in	George Anna Contractor in St.	C. Edward C. P. C. H. C. C. P. (2000) (1999) (1999) (1989)	077597000000000000000000000000000000000	cuspensors of a physical process with the process of the process o	87.130
102 2054 8510 Road	S	FL	Sil volc br w/ py/po, trace cp	<5 <5		275 - 70	2 84 <2 641	2 268	16 1.82	
102 2055 8510 Road	S	00	Sil volc br w/ py/po, trace cp (?)	PROTECTION OF THE PROPERTY OF THE CONTRACT OF THE PROPERTY OF THE CONTRACT OF	2001 MgG 200F To F 1 M 10 0 0 22 1 5 8	-79 				2.5.10
103 2168 Baldy Lode	S	OC TP	Calc-silicate skarn, py/po/cp to 2%	<5 15F		330 900	<1 23 <1 40	10 1	28 0.71 361 0.63	<2 10
103 2169 Baldy Lode	The Transfer of the	OC	High grade sulf, same location as 2168.	was technological states and the management	2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m	900 650	<1 40 <1 16	2. Landers of Bulletin Steer ration 38.7 C.	· Det Market from the Property (Mark of Property)	ACCORDING TO THE PARTY OF THE PROPERTY OF THE PARTY OF TH
103 2170 Baldy Lode	G Rep	Committee of the Commit	Alt int/ls contact, py to 3%, cp	<5 *** < 5		20	25 1230		69 0.45	<2 10 • 28 60
104 2047 East Point Pit	кер S	* 9 TP * . 2.5 TP	Mafic dike/is contact, py to 5% Ls boulders w/ sl to 50% in clots	- > 5 <5	C89042 or 71.00 2. an extension	G27786 5 3 G28 MC2380	800 26.4 °	a vade to the famous statement (**)	15 0.36	38 10
104 2048 East Point Pit	S Rep	2.5 TP	Ls adj to mafic dike, ankerite/siderite, py			220 3 * 12	38 1410		15 U.36 2 0.08	
104 2049 East Point Pit 104 2118 East Point Pit	, кер С	5 TP		y <5 <5	0.2	12 20	38 141U 4 147	<1' - 1, <1 8	2 0.08 36 4.06	28 10
104 2118 East Point Pit	G	5 IP	Alt mafic dike, py/po, fest Marble w/sl to 20%, gn to 1%, cp				4 147 1.74 * 15.3 *		93 0.47	
	on the control of water who would be	5 OC		<5	<.2	400 1 8	1.74 15.3 24 100	<1 30°	102 1.48	324 10
105 2046 East Point area	Rep	10 OC	Mafic dike in Is, dissem py	<5 370		o .37 *	<2 174			324 10 100 <10
106 2050 Big Ledge	C		Mafic dike, cp/po/ml to 5%	to the second of the control of the second o	· 一点是 2000年 2018 145 145 145 145 145 145 145 145 145 145	14861 B. W. V.	THE STATE OF THE S	en a vilia de la constitución y encolor en el constitue de la constitución de la constitue de	TOMO (BOOK) MAGAMATAN	174 Mars 2007 (1960) 11 Mars 1960 (1960) 11 STOR 1960 (1960)
106 2051 Big Ledge		5@0.5 OC	Mafic dike, cp/po to 2%	64		300	<2 134 <2 142	<1 1.15		790 <10
106 2052 Big Ledge		5@0.5 OC	Mafic dike, cp, ml, az; po in clots	22 503		400				26 10
106 2120 Big Ledge	C National Control of the Control of	4 OC	Mafic dike, stringers of cp, pentlandite	502 < 5√		2.25 * 2.02 * °	30 428 2 1055	<1 9600	450 4.19	8 <10 40 <10
106 2121 Big Ledge 107 2742 3-J	S S	0.3 OC	High grade of 2120 location, 50% sulf	<5 <5	21,111,000,000 (CR)	.02 280	<1 1055 <1 3	237 1	8 0.41	4 <10
107 2742 3-3 107 2743 3-J	১ RC	0.3 OC	Monz dikes in hn, trace cp	.		280 59	<1. 8.	1 4		4 < 10
107 2243 3-J 108 2117 3-J	Rep	OC	Hnbd-bt gd w/ mag	≒ວ <5	<.2	14	4 42	<1 5	5 1.04	<2 120
108 2117 3-3 109 2116 3-J	Kep SS		mnod-ot gu w/ mag	<5 <5			4 42 14 32			4 80
110 1232 Tenakee Road	S	0.1 TP	Py/po to 2% in mafic dike, Is host	5	<.2	99	2 78	3 2	20 2.48	<2 10
110 1232 Tenakee Road 111 2566 Tenakee		3 OC		ວ <5	<.2 <.2	33	2 78 28 104 /	3 Z	20 2.48 3 0.71	
111 2567 Tenakee		RC	Granite w/ k-spar Pink-red granitic dikes	<5	Zana da constitución vici y substitutora.	აა 389	26 104 14 60	<1 <1	3 + U ₁ (1) 3 1.16	<2 <10 <2 20
	Rep G	FL.		\D 	<.2		10 70	<1 5°		
111, 2741 Tenakee 112, 1224 Kadashan Bay	sali eti terita fisedone etako ese	TP	K-spar-rich sand (alaskite)	* *5	<.2	26 15	10 - 70	2 2	4 0.52	
112 1224 Kadashan Bay	Rep Rep	2 TP	Syenite w/ little to no qz, minor py			75	12 26		3 0.49	
113 1374 Corner Bay		TP	All syenite along shear Metavoic w/ <1% dissem py	<5	<.2	75. 37	8 88	1 4	12 0.8	6 230
113 1374 Corner Bay 114 1233 Trap Bay	Rep Rep	* * * OC *	Minor py, trace cp, in aplite dike in hin.		<.2		2 1 18	, ,	2 0.32	
115 1375 Corner Creek	rtep S	TP	Ls w/ bands of po & py to 3%	<5	~.∠ <.2	22	<2 34	<1 2	1 0.11	<2 <10
115 1375 Corner Creek	S Rep	1 TP (Alt syenite inclusion in di, py to 2%		<.2	171	<2 34 <2 20	SI 2		
 a. a. false a site of the sit	Marchael and Draw Charles of Court	DOLDSTONE TO THE MENT OF SE	#Control of the Control of the Cont		~ 30 P - 2000 B - 20 COTT, 19 600 DB	portality metros (2018) (2017) (2017)	1.52 p. 17.19 9/27 up. 500 u. 19.46 95 95 95 p. 2.42	N. GRATING MARIAMAN, M		
116 1376 Corner Creek 117 1377 Corner Creek	S D	TP	Shear-hosted py in metavolc, py 15%	< 5	0.2 < 2	89	2 86 <2 36	<1 35	82 3.43 3 0.77	<2 <10 <2 ×10
11/ 13// Comer Creek	Rep	TP	Highly fractured syenite		<.2	. 9	·<2 36	1 7 2 3	33:0///	PHAC CENTURY

Map Sam. Be Bi Ca Cd Cr	Fe Ga Hby KQ La L	Mg Min Na Nb P Sb Sc Sh Sr Ta	Te T TI U V W Y Z PO Pa
po po pom pom % pom pom	化基础 经基础 化对应性 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	(10.5 MD 14.5) 元 安徽都设 (17.5) 所谓: [16.5] 所谓: [16.5) 所谓: [16.5] 而谓: [16.5	
92 2127 0.5 <2 0.61 <0.5 50	4.45 <10 <10 0.3 10	1.95 485 0.03 900 4 10 46	0.82 <10 <10 73 <10
93 2062 <0.5 <2 0.88 <0.5 18	3.37 <10 20 0.12 10	0.67 575 0.03 780 <2 4 78	0.14 <10 <10 91 <10
93 2063 <0.5 <2 4.21 <0.5 44	1.53 <10 <10 0.1 <10	0.18 255 0.09 620 2 <1 24	0.14 <10 <10 21 <10
94 2061 <0.5 <2 0.74 <0.5 39	3.14 <10 70 0.07 <10 4.57 <10 60 0.12 10	1.2 380 0.01 790 <2 7 87 1.07 1510 0.02 890 <2 7 50	0.21 <10 <10 92 <10
95 2060 <0.5 <2 1.04 0.5 27 96 2059 <0.5 <2 1.4 <0.5 32	4.57 <10 60 0.12 10 3.37 <10 40 0.09 <10	1.07 1510 0.02 890 <2 7 50 1.14 960 0.02 760 <2 4 59	0.15 <10 <10 97 <10 0.14 <10 <10 76 <10
97 2124 0.5 <2 1.44 <0.5 202	2.89 <10 30 0.01 <10	0.64 390 <0.01 480 <2 1 262	0.35 <10 <10 55 <10
98 2123 0.5 <2 0.56 <0.5 70	4.62 10 20 0.2 10	1.95 490 0.03 900 <2 8 14	0.32 <10 <10 81 <10
99 2058 1 <2 1.97 <0.5 13	7.44 <10 20 0.1 20	1.84 775 0.07 1050 4 13 35	0.85 <10 <10 215 <10
100 2057 <0.5 <2 2.16 <0.5 31	3.7 <10 50 0.13 <10	1.24 670 0.01 880 <2 5 79	0.18 <10 <10 63 <10
101 2056 1 2 6.32 <0.5 57	THE RESERVE AND A SECOND CONTRACTOR OF THE PROPERTY OF THE PRO	0.93 500 0.16 700 6 7 193	0.24 <10 <10 75 <10
101 2122 <0.5 <2 1.69 <0.5 26	4.96 10 70 0.24 10	1.22 310 0.21 2070 2 6 105	0.3 <10 <10 128 <10
102 2053 <0,5 <2 2,21 0.5 37 102 2054 0.5 2 1,25 <0.5 74	4.56 <10 40 0,3 <10 2.98 <10 50 0.08 10	1.86 735 0.07 1150 <2 9 112 1.23 260 0.07 710 2 6 32	0.28 <10 <10 131 <10 0.22 <10 <10 88 <10
102 2054 0.5 2 1.25 <0.5 74 102 2055 0.5 <2 2,1 <0.5 85	2.33 <10 100 0.07 10	0.85 205 0.11 630 4 3 19	0.2 <10 <10 88 <10
103 2168 1 2 2.92 <0.5 23		0.03 910 0.01 <10 <2 <1 8	<0.01 <10 <10 82 240
103 2169 <0.5 <2 2.7 <0.5 48		0.03 785 <0.01 <10 <2 <1 14	0.01 <10 <10 72 140
103 2170 <0.5 <2 0.32 <0.5 49	3.64 <10 <10 0.02 <10	0.13 60 0.06 940 <2 4 17	0.08 <10 <10 46 <10
104 2047 0.5 <2 5.54 4 19	5.75 <10 40 0.11 <10	2.36 775 0.08 3960 6 12 124	- 0.13 <10 <10 20 <10
104 2048 0.5 22 8.9 >100.0 7	4.57 <10 16400 0.14 <10	2.17 1225 0.01 490 <2 3 269	<0.01 <10 <10 10 70
104 2049 <0.5 8 >15.00 5.5 <1	0.2 <10 100 <0.01 <10	0.13 150 <0.01 170 4 <1 309	<0.01 <10 <10 2 <10
104 2118 1 <2 1.27 <0.5 4 104 2119 0,5 10 12,4 >100.0 8	10.05 <10	2.65 1180 0.03 4770 4 19 39 3.2 1200 0.01 730 124 6 341	0.08 <10 <10 209 <10 <0.01 <10 <10 18 30
105 2046 <.5 4 14.1 <.5 23	6.46 <10 <10 0.06 <10	0.87 1225 0.04 1770 <2 7 262	0.06 <10 <10 19 <10
106 2050 0.5 <2 0.75 <0.5 322	11 <10 30 0!04 10	2.94 460 0.07 300 4 8 62	0,15 <10 <10 95 <19 135 440
106 2051 0.5 <2 3.78 <0.5 711	8.53 <10 40 0.02 <10	5.45 885 0.04 220 <2 17 153	0.05 <10 <10 125 20 135 296
106 2052 0.5 <2 1.31 0.5 287	6.95 <10 30 0.03 10	2.7 650 0.07 620 2 15 40	0.11 <10 <10 123 <10 170 168
106 2120 <0.5 1.38 2.5 446	13.7 <10 20 0.05 10	4.06 560 0.1 200 <2 14 49	0.11 <10 <10 127 40 75 412
106 2121 <0.5 0.57 8 205	>15.00 <10 20 0.04 10	1.83 310 0.02 210 <2 12 14	0.04 <10 10 86 <10 <5 <2
107 2742 <.5 <2 0.22 <.5 83	1.25 <10 <10 0.09 <10	0.04 115 0.12 90 <2 <1 18	0.03 <10 <10 6 <10
107 2743 <.5 2 0.47 <.5 95 108 2117 <.5 <2 0.68 <.5 76	1.16 <10 20 0.19 <10 2.52 <10 10 0.4 <10	0.24 100 0.11 330 <2 1 14 0.69 365 0.08 350 2 3 18	0.1 <10 <10 20 <10 0.14 <10 <10 63 <10
109 2116 <.5 <2 0.63 <.5 12	3.17 <10 130 0.08 <10	0.31 1040 0.14 660 <2. 2 64	0.11 <10 <10 71 <10
110 1232 <.5 <2 2.61 <.5 45	5,36 10 <10 0.17 30	1.5 515 0.15 2020 <2 6 61	0.25 <10 <10 10 <10
111 2566 1 <2 1.27 0.5 24	2.14 <10 210 0.11 20	0/26 550 0.04 260 <2 <1 21	0.03 <10 <10 8 <10
111 2567 1 <2 3.41 <.5 13	2.13 <10 150 0.08 10	0.24 465 0.05 240 2 <1 175	0.04 <10 <10 23 <10
111 2741 0.5 <2 0.77 <.5 62	2.28 <10 90 0:2 10	0.49 560 0.09 590 8 2 43	0.08 <10 <10 28 <10
112 1224 2 <2 3.24 <.5 47	1.41 <10 <10 0.23 40	0.27 1190 0.11 220 <2 <1 75	0.01 <10 10 10 <10
112 1373 1.5 <2 1.78 <.5 38	1.9 <10 60 0:21 40	0.24 665 0.1 220 <2 1 49	0.01 <10 <10 11 <10
113 1374 0.5 <2 6.46 <.5 16 114 1233 <.5 <2 0.79 <.5 234	4.27 <10 <10 0.35 10 0.46 <10 <10 0.16 10	1.47 1325 0.05 1180 <2 3 414 0.08 175 0.11 20 <2 <1 10	<.01 <10 <10 22 <10
114 1233 <.5 <2 0.79 <.5 234 115 1375 <.5 <2 >15.00 <.5 4	2.12 <10	0.08 175 0H1 20 <2 <1 10 0.86 130 0.01 <10 <2 <1 241	0.01 <10 10 4 <10 <.01 <10 <10 1 <10
116 1225 < 5 <2 2,8 < 5 59	2.7 <10 <10 0.15 20	0.67 420 0.09 540 <2 1 142	0.15 < 10 < 10 34 < 10
116 1376 <.5 2 2.43 <.5 71	14.6 10 10 0.09 <10	2.11 850 <.01 1350 <2 4 256	0.39 <10 <10 104 <10
117 1377 <.5 <2 0.33 <.5 37	2,69 <10 <10 0.14 <10	0.44 425 0.06 390 <2 1 35	0.09 <10 <10 25 <10

						* 1 A. 1. ** 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1	
Walk Sam	Sam Sample Sam	Sample de ciolor				JO NI SO AN	f.
118 1378 Kook Lake	SS	Syenite, metavolc, & Is float	<5	<.2 25	12 118	om pom pom 2. 6 20 16 2.30	199n 999n 3 <2 70
119 1379 Kook Lake	SS*	Voic & syenite float		· <.2 28	14 106	5 25 15 3.1	
120 1228 Kook Lake	SS	Gd, syenite & mafic dike as float	10	<.2 23	24 190	2 24 12 3.39	
121 1226 Kóok Lake	", Rep. TP	Py & cp in clots to 5% in syenite		<.2 * 4		3 1 9 0.6	
122 1227 Kook Lake	SS	Gd, syenite, & volc as float	<5	<.2 25	32 210	<1 28 12 4.14	
123 1362 Silkon Bay	, SS	Area of Int w/ minor marble	<5	√ <.2 19	22 248	1 41 - 13 27	<2 50
124 1363 Sitkoh Bay	Rep OC	Fel dike in hn & tonalite	COUNTY TO THE PARTY OF THE	<.2 7	6 14	<1 8 4 0.9	
125 1217 Sitkon Bay	S RC	Clots of py/po in trondhjemite	< 5	0.2 460	CARROLL COMPANY OF CONTRACT PROPERTY SECURIS SERVICES		3 42 W 80
125 1361 Sitkoh Bay	S OC	Msv py in shear in int, py to 25%	10 <5	0.8 97 <.2 2 9	2 14 <2 18	13 1 83 0.9°	
126 1360 Sitkoh Bay 127 1216 Sitkoh Bay	S 1 OC	Skam w/ ~1% py Qz w/ hn	< 5	<.2 29 <.2 60	<2 181 <2 26	1 2 7 1.24 3 12 16 1.03	
128 1215 Sitkoh Bay	Rep 2 OC	Syenite w/ thin black silicate volets:	\ 0	<.2 <1	2 70	3 12 16 1.03 <1 <1 1 0.92	
128 1359 Silkoh Bay	Rep 2.6 OC	Diabase dike in alkalic int, po <1%		<.2 90	<2 130	<1 9 26 2.64	
129 1214 Sitkon Bay	Rep OC	K-spar-rich syenife		₹.2 3	10 70		2 80
129 1358 Sitkoh Bay	S RC	Alkalic int w/ py ~1%	a. 10. 64.80.80.41.00888043.1	<.2 8	16 90	1 <1 7 0.97	
130 1213 Sitkoh Bay	0.1 OC	Alt tonalite in shear w/ py/po to 10%	.: <5	<.2 16			<2 30
130 1357 Sitkoh Bay	S RC	Bt-hnbld tonalite w/ py to 3% in alt zones	<5	<.2 18	2 52	<1 12 67 3.41	<2 70
131 1356 Sitkoh Bay	G RC	Banded hn w/ po/py <1%	10 🔭	<.2 94		<1 20 28 4.39	
132 1212 Sitkoh Bay	Rep FL	Fest hn near int contact	<5 _	<.2 43	4 34	1 6 13 3.64	
133 1211 Sitkon Bay	Rep OC	Cg bt-hnbd tonalite w/ finely dissem py	<5 500	<.2 € 27	 y Y v. (20) x (7) a. (1) 30 NY 000000 VINCOLD 49 4 		<2.6.30
134 2150 Whitestripe Marble	G FL Rep 2 OC	Marble w/ dissem py to 5% Latite dike, sll, fest, near is contact.	530 35	0.8 27 <0.2 10	12 46 14 24	<1 8 9 2.07 2 1 <1 1.05	658 20 660 60
136 2217 Whitestripe Marble	Rep 2.5 OC	Granitic dike, py to 15% in clots	50	<0.2	8 36	1 1 1 0.95	
137 2759 Whitestripe Marble	G OC	Metabasalt/gs, near contact w/ marble	` <5	<0.2 85	2 676		6 6 10
137 2760 Whitestripe Marble	RC OC	Marble w/ py	<5	0.3 1	<2 4	11 1 <1 0.05	CONTRACT CONTROL CONTRACTOR CONTR
138 2758 Whitestripe Marble	." SS		20	<0.2 167	2 84	3 48 28 3.76	1417510
139 2589 Whitestripe Marble	G FL	Red-green jasper w/ qz, dissem cp	90	2.4 3780	<2 4	<1 2 1 0.39	2 <10
140 2603 Whitestripe Marble	CRep 0.2 OC	Qz vn w/ ep	<5	<0.2 11	<1 7	<1 - 15 4 0.64	
140 2779 Whitestripe Marble	RC OC	Goon Dip contact w/ marble	<5	<0.2 110	<1 80	2 226 42 5.54	
140 2780 Whitestripe Marble	G FL	Olivine basalt	<5		there is appropriate a distributed programming of the	<1 72 27 4,52	
141 2588 Chichagof, Golden Gate No. 1 141 2591 Chichagof, Golden Gate No. 1	C 2.2 UW 5C 3.5 UW	Qz vn w/ gw ribbons, sulf to 2% Shear zone w/ qz & gw	1260 3260	0.3 23 0.6 37	<1 42 9 83	<1 13 4 0.4 <1 22 7 9 0.75	
141 2592 Chichagof, Golden Gate No. 1	CC 3.4 UW	Qz vn w/ 15% gw	1230	0.6 37	80 140	<1 8 3 0.11	ANNUAL COLORES ANNUAL A
141 2593 Chichagof, Golden Gate No. 1		Qz vn W 1378 gw	2070	0.8 27			316 440
141 2757 Chichagof, Golden Gate No. 1	C 5 OC	Qz vn w/ gp sc partings, <1% py	860	0.3 7	4 14	1 8 2 0.18	
141, 2763 Chichagof, Golden Gate No. 1	, C 0.9 UW	Qz vn w/ gp partings, <1% py	12.5	6.2 17	. 73 46		
141 2764 Chichagof, Golden Gate No. 1	C 3.1 UW	Qz vn w/ gp partings, py to 5%	27.6	13 11	148 37		
141, 2765 Chichagof, Golden Gate No. 1		Qz vn w/ gp partings, 1% py	1250	0.6 9	<17 11		77.0
141 2766 Chichagof, Golden Gate No. 1	C 4.6 UW	Qz vn w/ gp partings, br, <1% py	850	0.5 11	10 11		
141, 2767, Chichagof, Golden Gate No. 1		Oz vn w/ br fragments, gp partings ⊋ № ◎	According to the second	1.8 15	6 23	1 13 3 0.21	· 1000年7月1日 - 1000年1月1日 - 1
141 2768 Chichagof, Golden Gate No. 1142 2590 Whitestripe Marble	C 2.3 UW	Qz vn w/ gp br & fault gouge, py	1010 <5	0.3 16 <0.2 117	1 98 <2 56	2 15 5 0.26	
142 2590 vynitestripe Marble	G 5x5 FL	Sil gs w/ py Chl/gp sc, adj to marble, 1-2% py	<5 <5	<0,2 117 <0.2 106	<2.7 56 8 52	<1 42 30 4.35 3 39 11 1.23	indicate County (Manual Manua
143 2767 Whitestripe Marble	RC 5 OC	Fest gp sc w/ qz boudins	<5	<0.2 106	8 52 2 66.4	6 32 10 1 95	
144 2778 Whitestripe Marble	RC 50 OC	Goon Dip Gs, near contact	-5 15	0.3 1950	<1 56	2 146 28 3.31	
= iiiiioonipo maioio		out. Dip out flour contact		3.0 1000	-1 00	2 140 20 3.51	5 -10

Table B-1. Analytical results of samples from mines, prospects, and occurences

Map Sam Be iB Ga. Go Cr. Fe Ga Ho K. La Li Mo Mn Na No F So Sc Sn Sc Ta le II II U V W // Zr o Ri Pd
no. Inc. ppm ppm % ppm ppm % ppm ppm ppm ppm ppm
118 1378 0.5 <2 1.57 <.5 34 4.17 <10 50 0.11 10 1.37 1025 <.01 1500 <2 4 204 0.21 <10 <10 101 <10
120 1228 2 <2 1.69 0.5 44 3.4 <10 70 0.2 30 1.08 1690 0.09 690 <2 4 214 0.19 <10 <10 69 <10
721+1226 <5 <2 1.01 <5 67 1.83 <10 <10 0.23 10 0.13 265 0.1 130 <2 <1 21 0.11 <10 <10 18 <10
122 1227 2.5 <2 2.35 0.5 44 2.96 <10 80 0.26 40 1.11 2050 0.22 520 <2 4 354 0.18 <10 10 55 <10 123 41362 1 52 1.99 3 5 54 3.5 <10 60 0.21 10 1.42 1425 0.08 910 <2 4 134 0.21 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1
123 1362 1 <2 1.99 3 54 3.5 <10 60 0.21 10 1.42 1425 0.08 910 <2 4 134 0.21 <10 <10 <10 146 <10 124 1363 <.5 <2 0.97 <.5 111 1.04 <10 <10 0.09 <10 0.35 130 0.08 200 <2 1 33 0.06 <10 <10 21 <10
125 1217 <5
125 1361 <.5 <2 0.18 <.5 27 >15.00 <10 110 0.03 <10 0.09 1260 <.01 330 <2 <1 27 0.09 <10 <10 19 <10
126 1360 (<.5) <2 9 <.5 40 3,13 <10 <10 0.02 <10 0.08 960 0.02 530 <2 1 44 0.08 <10 <10 82 <10
127 1216 <.5 <2 0.35 <.5 410 3.23 <10 <10 0.36 <10 0.54 200 0.08 350 <2 5 33 0.14 <10 <10 50 <10
128 1215 < 5 <2 0.14 < 5 49 2.03 < 10 10 0.33 10 0.19 1285 0.09 210 <2 < 1 13 0.09 < 10 < 10 16 < 10 128 1359 0.5 <2 3.74 < 5 21 4.66 10 40 0.62 < 10 2.45 1495 0.01 820 < 2 12 235 0.25 < 10 < 10 146 < 10
7129 11214 0.5 7 <2 2.29 <5 25 11.54 <10 <10 0.26 10 0.31 935 0.06 540 <2 <1 162 0.11 <10 <10 13 <10
129 1358 0.5 <2 2.21 <.5 27 2.75 <10 10 0.25 10 0.41 980 0.04 500 <2 <1 102 0.1 <10 <10 23 <10
130 1213 0.5 <2 4:31 <.5 66 3.93 10 20 0.11 <10 1.58 565 0.07 1270 <2 8 288 0.22 <10 <10 131 <10
130 1357 0.5 <2 3.79 <.5 38 4.16 10 10 0.15 <10 1.34 550 0.1 1340 <2 7 166 0.21 <10 <10 113 <10 \$\frac{13111356}{1311356} 0.5 \leq 2 6.89 \leq 5 34 3.43 \leq 10 \leq 210 \leq 0.07 \leq 10 0.07 \leq 10 0.73 220 0.17 1430 \leq 2 4 204 0.24 \leq 10 \leq 10 \leq 10 72 \leq 10
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145, 2602 Whitestripe Marble	G	arman arabia	RC	Fest gs w/ sparse py	<5	<0.2 220				91 3.62	the best of the second section of the second
146 2776 Slocum Arm	RC	Chlorident Profite August	ОC	Intermediate sill in gs, sil fractures	<5	<0.2 65	<1		3 36	18 2.37	8 10
146 2777 Slocum Arm				⊹Fg diabasic dike, xcuts sill in 2776 🐺		<0.2 103	2, 4 x 3			17 2.92	
147 2772 Slocum Arm	RC	and the second second second	OC	Qz vnlets in gs w/ <1% cp	10	<0.2 570	<1		5 4	2 0.33	18 <10
147 2773 Slocum Arm.	30.0 % C 1997 %	a section of the section of		. Qz vn swarm xcut gs; <1% py 💥 🕷	<5:	<0.2 60	- Philippole (200 - 100) - A. S. Bronner,			2 0.33	
147 2774 Slocum Arm	RC	0.3	OC	Qz vn w/ <1% cp + mo	25	<0.2 500	<1	-	28	1 0.55	4 <10
-147 2775 Slocum Arm	F 500 AC		650,000,000	Intermediate sill in gs, sil fractures 🧦		<0.2 / 137	<1 ×1 ×	NOTE CONTROL OF THE PROPERTY OF	State of disconditions in the contrast of	11 3.54	Commission Commission
148 2601 Slocum Arm	Rep	challe thaten	OC	Qz vns & stringers, barren	<5	<0.2 30	7 %33.500	17 <		1 0.74	<2 <10
149 2600 Slocum Arm	Rep	1.5	. A. MAY AS THURS	Qz lens hosted in gs	ং হ	<0.2	. Xv. % 10	* A STELL SANGER SAN THE TANK SERVINGS	CONTRACT NO. PRINCIPAL	<1 -0.34 €	# carback carbonal for the second section of the second section is a second section of the second section of the second section of the second section of the secti
150 2599 Slocum Arm	G	1800K. WALYAM CO	OC	Fest gd, sparse sulf	<5 <5	<0.2 9 <0.2 4	<1 ************************************	17 <	1 1	<1 0.39 <1 0.53	4 <10
151 2598 Slocum Arm	RC	5	OC	Gd	de der filden de mei er wie der er au mit an autorita	ektorus Old villassierkolossus, rysie	*	- 19 . <	1 19 3 19	9 2.65	6 (0 <2 20
152 2503 Deep Bay	SS	890.0344A8010.54	rsa, eraksti in		<5 <5.	<.2 35 <.2 38	8 14		319 46.		
152, 2504 Deep Bay	୍ଷ SS	3	ОС	Gd w/ sparse fest		<.2 36 <.2 16	7.4 (* 1. 19 . (†	32 <	Country Control Country Countr	2 0.64	<2 40
152 2505 Deep Bay	Rep G	j Markana	00	Bt gneiss; <1% py; chi	<5	<.2 .67	. <2 c		2 2		
152 2703 Deep Bay	PC		· · · · · · ·	Mag in sample	<5 <5	<.2 18	4	40000 A PRIOR CERNA OF BARRION	2 2 3 1 29	9 1.43	<2 20
153 2501 Deep Bay 153 2502 Deep Bay	⊹SS	600 y 123 wet	(April Section	may III Sainhic		<.2 40	10			10 3.8%	
153 2700 Deep Bay	PC	CARACO-LIGHTS	-C2		<5	<.2 18	2		2 20	9 1.86	<2 40
153 2700 Deep Bay	PC					<.2 18	4			7 1.37	
153 2700 Deep Bay	G	rechtsteine der	FL	Dark-green amphibolite w/ <1% py	<5	<.2 76	8	136 <	the state of the second	16 3.62	6 40
154 2506 Deep Bay		× 0.5	FE	Qz w/ py blebs to 5%		<.2 35	<2			5 0.24	
155 2704 Deep Bay	PC	y ingulated s	inger aa . M	ে অবস্থান সংস্থান শ্রীপাক সেম্বার স্থান সম্প্রিক জিল্পার জিল্পার স্থানিক স্থা	<5	<.2 34	4	82	3 70	14 2.02	<2 20
158 2001 Arthur Point		- 4 pans	MARI		5	<.2 33	4	72* <	1 14	15 2.4	<2 -150
156 2002 Arthur Point	PC	4 pans		The second secon	10	<.2 38	2	62 <	1 13	12 2.69	<2 50
157 2003 Arthur Point	PC	4 pans	200 1 10 1		<5	<.2 61	2 ,	64 <	1 38	15 2.74	×2 #430
157 2007 Arthur Point	SS				<5	<.2 68	2		1 18	14 4.08	4 40
158 2004 Arthur Point	PC	4 pans			<5	<.2 31	2	70 <	1+ 15	12 2.4	<2.1.40
159 2005 Arthur Point	SS				<5	<.2 86	2	62 <		19 3.41	2 140
159 2006 Arthur Point	SS		Walk?		<5	₹.2 62	2	and a second of the second of		16 5.29	
160 2149 Rodman Bay	SS				45	0.2 73	8		1 42	16 3.38	34 120
160 2204 Rodman Bay	20 - 520 0-400	25	UW		45	<0.2 31	4.5			7 1.44	
160 2205 Rodman Bay	Rep	25	UW	Qz stringers in black pl, no sulf	<5	<0.2 22	4	52 <		6 1.24	6 20
160 2206 Rodman Bay	Rep	Machell amount he is	CC07, CXC .	FE TROUTE TO THE TO SEE THE TROUTE TO THE TROUTE THE TROUTE THE TROUTE THE TROUTE THE TROUTE THE TROUTE THE TR	20*	and the measurement of the contract of	2	New No. 1 of April 1988 1989 1997 1997 1988 1988 1	1- 171	e unte de suive e transmitte estado e companhanca	2 240
160 2207 Rodman Bay	Rep	10	UW	Qz vns/stringers in black pl	<5	<0.2 20	2	48 <		5 1.16	<2 60
160 2208 Rodman Bay		5		- Qz vns, masses in black pl	properties and the control of the co	<0.2 28	2 -			7 1,48	
160 2209 Rodman Bay	Rep	5	UW	Qz stringers in black pl	<5 -	<0.2 17	4	32 <		2 0.73 18 0.29	2 30
161 2740 Portage Arm	G	a 1 and 6 to 10 and	RC	THE RESERVE OF THE PROPERTY OF	Collaboration and Collaboration States and Collaboration of States and States	1 1810	₹2 ^	man article of the second of t	to see uperterative can	emple is: In the properties of a subsection of the contract of	<2 <10 <2 60
162 2565 Portage Arm	C	2	00	Qz-filled shear zone w/ py/po	<5 <5	<.2 22 2 301	<2 4	48 <	12 24.1	1 1.03 18 0.34	<2 60 <2 2
162 2739 Portage Arm	-	100	OC 3	Qz vns & lenses, 2-5% py/po	2000 the control of the section of the section	or 12 cm of 1980 or 17 cm	100	10 <	Environment of the Control of State and Control of Cont	3 0.36	2 <10
163 2738 Kelp Bay	Rep S	35 0.4	OC :	Bull qz w/ carbonate lenses	<5 - <5	<.2 61 1.4 4060	<2 2	40		156 1.74	
164, 2564 Lost Anchor 165, 2737, Lost Anchor		U.4		Qz vn w/ cp, py Qz vns, trace cp, po to 2%	<5	0.2 365	∠ <2		1 109 1 10	26 0.36	<2 <10
	Rep S	0.2	OC		<5 }	<.2 305 49	<2 <2	-	6 6		6 410
166 2561 Lost Anchor 166 2562 Lost Anchor	C	3.75	OC	Qz vn	<5	<.2 11	~2	care at the town and a substitute	2 5	1 0.29	2 <10
166 2563 Lost Anchor	Rep	3.75 0.3		Qz br zone w/ py, fest		<.2 108			4 24	13 0.98	6 <10
S 100 TYPOS ECOSI MICHOL	reb	10 10 P		Ac ni volicimi hat icat			em-ruki bod ± čest	** *** *******************************			

Map Sam Be Bill Ca Cd Cr a Fell Ga Hg K La LI Mg Min. Na Nb P L Sb Sc	Sn. USI Ja ojew jibo ji Tu. V. W. Y. Z. Mei. 2d
no no pom pom % ppm ropm % ppm ppm ppb -% ppm ppm; % ppm ppm; % ppm ppm ppm ppm ppm;	орит руш грот (дом) - 95. Турит грот грот грот коом хоот хоот годо гдор
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165 2737 <.5 2 0.45 <.5 331 2.54 <10 70 0.01 <10 0.11 50 0.02 280 <2 <1 166 2561 <.5 2 0.65 <.5 186 0.42 <10 <10 <.01 <10 0.05 20 <.01 90 <2 <1 166 2562 <.5 <2 0.4 <.5 244 0.33 <10 <10 <.01 <10 0.06 20 <.01 30 <2 <1	4 0.04 <10 <10 7 <10

			7.53 37 3.64 3.7 6 24 3.14			
Map Sam IV	Sam Sample Sa	The state of the s			4. Zna se Mose Nilsa	CO (A) 445 455 551
EUG-18-00 MARSH MASKET FOCONOMINATOR	A the se table size (u) a su	Sample description		Benediction and the control of the c	Assuration and sources	gen sa jagot gani
167 2045 The Basin	Rep 6 OC	Qz vns in sil gs, ar, cp <1%, py		.5 118 8 .2 51 6	56 1 53 44 <1 20	18 1 10 90 9 0.89 4 2 80
167 2114 The Basin 167 2115 The Basin	Rep OC G FL	Sil metavolc w/ py/po <1% Alt metavolc w/ 5% po, fest	17 LEFT RESIDENCE TO THE ADDRESS OF TRADEST MANAGEMENT CARRIED TO THE YEAR OLD THE PROPERTY OF THE PROPERTY	.3 230 4	110 <1 83	AND SHOULD BE SUBSECUED TO SUBSECUE STATE OF SHOULD
	man and a second control of the cont				164 <1 26	44 2.33 4 70 26 4.62 5 2 2 10
168 2044 South Arm 168 2113 South Arm	Rep. FL G FL	Mudstone, tuff, py/cp to 5% combine Alt metavolc w/ minor cp, py	A S. A. C.	.2 585 2	310 <1 41	58 3.38 <2 <10
169 2042 Middle Arm	SS FL	Ait metavoic w/ minor cp, py	<5 · <			26 2.61 2 24 570
170 2043 Middle Arm	Rep 0.7x1 OC	Qz vn w/ minor py	2017 Clark Land Description of State (1992) Section 1990 (1992)	.2 36 4 .2 14 8	62 1 4	2 0.2 210 10
170 2043 Middle Am	Rep 0.7x1 OC			.2 192 8		6 0.18 2 10
172 2568 False Eagle	PC	Sea level	95 <0	bettle to transitate Mercanador, dele distribus	90 <1 30	11 2.43 20 120
172 2569 False Eagle	SS	Seå level		.2 26 6		10 2.5 4.48 40
173 1413 Sealion Cove	Rep 0.18 OC	Qz vn w/ minor sulf, py 1%, aspy		.6 53 8	8 1 5	3 0.2 660 20
173 ; 1414 Sealion Cove	*Rép* 0.67 OC			.2 30 <2		5 2.07 80 250
173 1415 Sealion Cove	C 0.25 OC	Qz in hn sandstone	SC 7 278 - 7 COS 2 IS SIN 30 - WOODS 24 12 - 12 SA 22 ENDOS	.2 6 <2	18 1 5	1 0.48 22 80
173 1416 Seallon Cove	C 0.33 OC			.2 220 <2		6 (0.12 70 < 10
173 1459 Sealion Cove	C 0.5 OC	Qz vn w/ po & aspy	 Crossical construction of Control of Contr	.2 73 <2	<2 3 6	5 0.06 1890 <10
173 1460 Sealion Cove	G. 0.4 OC	Hn	2360 0	.4 82 <2	68 -2 -14	7 2,77 6900 230
173 1461 Sealion Cove	C 0.5 OC	Qz vn w/ po & aspy		.3 58 <2	6 13 6	7 0.27 1645 20
173 1462 Seallon Cove	Rep 50 00	Hn br zone w/ qz stringers & br spars	e po 20 0	.2 18 <2	88 4 14	6 2/16 740 290
173 1463 Sealion Cove	RC 5 OC	Fest br zone, hn adj to fel dike		.6 23 <2	110 1 20	9 2.03 1510 190
173 1464 Sealion Cove	RC 10 OC	Tonalite w/ 4% po	15 0	Language and the control of the first of the control of the contro	year: 1 - 25 - 4500 - 29 - 30 - 30 - 41 - 54 - 40 - 40 - 40 - 40 - 40 - 40 - 40	1 40.51 748 260
173 2594 Sealion Cove	Rep 0.4 OC	Qz, mafic int w/ blebs of py/po		.2 37 7	30 1 3	1 0.59 334 40
173 2595 Sealion Cove	Rep OC	Qz vn W/ py	<5 *<0			
173 2596 Sealion Cove	S OC	Qz vn w/ trace cp + mo, py/po		.9 108 <1	29 24 5	7 1.52 512 40
173 2597 Sealion Cove	Rep 0,4 OC	Fest qz w/ blebs & dissem po	March 1917 of the Contract Section 61 to the interface of a supplemental states of the contract of the contrac	.4 44 10	4 July 40 / Labor Courts (ARD 179 to Company Annual Company A	1 0.46 1485 40
173 2769 Sealion Cove	G OC	Qz vn on shoreline, 1% py/aspy	2450 0 10 0	.9 75 <1 .8 66 4	4 7 4 1 23 3 1	1 0.03 416 <10
173 2770 Seallon Cove	G OC G FL	Aplitic dike w/ <1% py Qz w/ aspy to 1%	640	.8 06 4 8 39 102	23 3 1 1 1 13 3 4	1 0.38 1 120 30 1 0.38 >10000 80
174 2008 Krestof Group	C 0.5x10 OC	Qz vn w/ aspy to 1% Qz vn w/ aspy to 1%		.2 7 .16		3 0.5 . 80 400
174 2009 Krestof Group	C 0.3x7 OC	Qz vn & sheared gw, up to 1% aspy	activities to the median of states and a management of the	.5 12 40	62 <1 9	7 1.09 152 70
174 2010 Krestof Group	Rep 7. OC	Oz vns, 8 vns sampled			128 <1 6	
175 1412 Halleck Island	G OC	Ar w/ minor qz stringers, minor fest	20 <		56 1 316	32 3.35 34 80
175 1458 Halleck Island	G 0.5 FL	SII calc rock	< 5 <			3 8.4 <2 <10
175 2705 Halleck Island	C 0.5 UW	Shear zone w/ qz vnlets, calc	<5 <	.2 24 2	60 <1 71	10 1.68 4 290
175 2706 Halleck Island	5 C 3.8 UW	Sheared mudstone, qz vnlets	-80° - €	.2 62 <2	74 <1 365	34 3.63 28 60
175 2707 Halleck Island	C 2.1 UW	Fel dike, <1% dissem py		.2 30 4	62 <1 17	10 1.76 <2 280
175 2708 Halleck Island	. C 5 UW	A PROGRAM ON TRANSPORTED FOR THE PROGRAM OF STREET				25 2.89 52 52 40
175 2709 Halleck Island	C 2.1 UW			.2 54 2	72 <1 399	36 3.45 16 110
176 2014 Magoun Island	Rep 0,2x3 RC	Oz vn in gd, cp, ml, fest	male paradoxinations that consist in single-	.6 1200 <2*	Line Line State Section (March 2011) and Line Account to the Control of the Contr	1 0.06 <2 <10
177 2013 Magoun Island	Rep 0.25x3 OC	Qz vn, cp, ml, mo to 3% locally		.5 1700 <2	6 71 4	<1 0.07 68 30
178 2012 Magoun Island	S 0.7x2 OC	Qz vn, bt gd, cp + mo to 3% locally	SERVICE OF THE PROPERTY OF STREET, TO SERVICE STREET, TO SERVICE STREET, TO SERVICE STREET, TO SERVICE STREET,	8 1.0 1 2		1.0.03
179 2011 Magoun Island	Rep 0.7x2 RC	Qz vn, bt tonalite, mo to 2% locally, o		.2 390 8	6 800 4	<1 0.04 2 20 1 0.19 2 0
180 2103 Magoun Island	Rep 25 OC	Qz vn in tonalite w/ cp, py		edder A. C. Marchine Person	22 1 4	
181 2101 Magoun Island	Rep 50 OC	Qz vn in bt tonalite, cp to 1-2%		.3 315 4 .2 52 6	18 <1 2 6 1 2	2 0.26 6 10 <1 0.27 2 2 5 0
181 2102 Magoun Island	Proplations of the some over the Proposition of the	Qz vns w/ mo <1%, cp <1%, py	Carl Criman Britanian Collian relation (Sec. 4) (1990 Fruith 1998) (1970 Fruith 1990 Fruith 1990 Fruith 1990 Fr	<u>a desta a sua sua sucultar a pera inspendian a seguina de la calegación d</u>	68 1 12	<1 0.27 2 <10 9 4 10 350
182 2507 Siginaka Island	Rep 0.6 OC	Fest gs w/ cp <0.1%, py	\5	.2 53 6	00 1 12	9 4 10 330

lap sam, Bec Blin Ca 20 Cd Ch Fe Ga 2 Hg 2 HK 1 La La Mg Mh Na Nb Pa Sb Sc ssn 1857 Fra Te U 11 CU 1 V W	Y Zr Fl Pd
io 160 160 160 160 160 160 160 160 160 160	bbut bbut bbot bbo
A.M. A.M. Barrier Manual Man	
67 2115 <.5 <2 1.63 <.5 100 6.86 <10 <10 0.41 <10 1.53 680 0.02 1530 <2 5 65 0.47 <10 <10 57 <10 68 2044 <.5 6 2.35 <.5 61 9.82 10 10 0.01 <10 2.53 1165 <.01 1320 <2 14 133 0.99 <10 <10 365 <10	
168 2113 <.5 2 0.52 1.5 202 8.22 <10 20 0.02 <10 2.87 1020 <.01 270 <2 7 10 0.31 <10 <10 82 <10	3 (S.C 7 (2 - 1) (S.C 8 (S.C 1) (S.C 1) (S.C 1)
69, 2042, 0.5 4 1,23 < 5 44 3.85 <10 80 0.09 <10 0.96 1255 <.01 870 <2 4 67 0.2 <10 <10 46 <10	
70 2043 <.5 6 2.21 <.5 265 0.81 <10 <10 0.04 <10 0.09 375 0.02 670 <2 <1 183 <.01 <10 <10 4 <10	C before and the control of the
72 2568 <0.5 <2 0.59 <0.5 191 3.89 <10 <10 0.22 <10 1.27 635 0.07 570 <2 4 34 0.2 <10 <10 86 <10	
"快感要有效的数据的,我们就是一个的,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,这个时间,	
73 1413 <.5 24 0.03 <.5 339 1.01 <10 <10 0.12 <10 0.11 50 0.01 30 <2 <1 6 0.01 <10 <10 9 <10	en en anticologica de la compansión de l
73 1414 <5 5 <2 0.24 0.5 112 3.58 <10 <10 1.51 <10 1.43 480 <.01 500 <2 12 13 0.25 <10 <10 105 <10	
73 1415 < 5 < 2 0.07 < 5 315 0.97 < 10 < 10 0.25 < 10 0.24 115 0.01 90 < 2 1 7 0.05 < 10 < 10 20 < 10	
Townstransfrage transfer and the stransfer and an extension of a second	
19 19 19 19 19 19 19 19 19 19 19 19 19 1	
#開発性性大変は必要に表現します。 Applied to the Applied to t	
73 1461 <.5 32 0.09 <.5 342 0.98 <10 <10 0.09 <10 0.07 50 0.02 30 <2 <1 10 0.01 <10 <10 8 <10 73 462 <5 <2 0.34 <5 200 3.24 <10 <10 12 <10 12 500 0.07 600 <2 11 23 3 0.21 <10 <10 10 <10 10 <10	
13 1463 < 5 <2 0.25 < 5 99 3.92 <10 <10 1.28 <10 1.39 590 0.03 620 <2 12 10 0.22 <10 <10 1.14 10	
73 1464 < 5 <2 0.08 < 5 215 1.77 <10 <10 0.2 <10 0.05 85 0.08 50 <2 <1 13 0.01 <10 <10 1 <10	
73 2594 <0.5 <2 0.55 <0.5 97 1.15 <10 10 0.17 <10 0.19 160 0.04 140 <2 1 14 0.02 <10 <10 11 <10	ANALYSIAN TO THE STREET WAS AND THE
73 2595 <0.5 <2 0.1 <0.5 168 0.49 <10 10 0.11 <10 0.12 60 0.02 80 <2 <1 27 0.01 <10 <10 9 <10	
73 2596 < 0.5 22 1.02 1 89 1.38 < 10 10 0.17 < 10 0.23 105 0.04 200 < 2 1 41 0.04 < 10 < 10 19 10	
するが存在の料料をはって が高います。 これの という はんしゅう はんしょう はいました はいまた はいました	
73 2769 <0.5 54 0.01 <0.5 320 0.75 <10 20 0.01 <10 0.01 15 <0.01 40 <2 <1 5 <0.01 <10 <10 1 <10	
73 2770 <0.5 <2 0.22 <0.5 78 1.8 <10 130 0.15 <10 0.08 150 0.06 150 <2 1	
73 2771 <0.5 70 0.07 <0.5 186 1.75 <10 10 0.17 <10 0.2 85 0.02 100 4 1 18 0.03 <10 <10 17 50	na da anto a deservación de la compansión
74 2008 < 5 < 2 0.49 < 5 248 1.36 < 10 < 10 0.06 < 10 0.29 175 0.02 200 < 2 < 5 51 < 0 < 10 10 < 10 13 < 10	
74 2009 <.5 <2 0.46 <.5 226 2.17 <10 40 0.08 <10 0.72 380 0.05 430 <2 2 36 <.01 <10 <10 30 <10	
機能は発生が終める場合には、一般には、Manager Manager	
75 1458 < 5 <2 9.49 < 5 55 1.12 <10 <10 <10 <0.01 <10 0.88 310 0.05 <10 <2 4 20 0.01 <10 <10 0.01 <10 0.05 <10 <2 5 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01 <10 0.01	2.37 2.32 34 A CAROLINA
75 2706 0.5 4 4.5 0.5 801 4.46 <10 230 0.01 <10 6.23 875 <.01 600 20 15 243 <.01 <10 <10 11.1 <10	
75 2707 < 5 2 2.09 < 5 35 2.53 < 10 470 0.15 < 10 1.5 405 0.03 520 < 2 2 99 < 0.01 < 10 < 10 33 < 10	The same of the second of the same of the
75 2709 0.5 4 4.13 <.5 881 4.24 <10 280 0.01 <10 6.66 875 <.01 580 <2 15 213 <.01 <10 <10 107 <10	
76 2014 < 5 4 0.01 < 5 314 0.67 < 10 < 10 0.02 < 10 0.02 20 0.01 20 < 2 < 1 3 < 01 < 10 < 10 < 10 2 < 10	
77 2013 <.5 4 0.01 <.5 344 0.69 <10 <10 0.07 <10 0.02 30 0.01 50 <2 <1 6 <.01 <10 <10 3 <10	The same design of the same and
FOR EATER STATE ST	
79 2011 < 5 <2 0.02 < 5 338 0.5 <10 10 0.03 <10 0.01 15 0.01 30 <2 <1 1 <.01 <10 <10 2 <10	Name of the Control o
81 2101 <.5 <2 0.09 <.5 170 0.56 <10 10 0.13 10 0.07 50 0.07 40 2 2 2 0.01 <10 <10 3 <10	******
81 2102 < 5 <2 0.03 < 5 154 0.43 <10 <10 0.17 <10 0.03 35 0.1 20 <2 2 2 2 < 01 <10 <10 1 <10	
82 2507 < .5 2 1.64 < .5 61 3.3 < 10 30 0.61 < 10 1.31 440 0.34 560 < 2 10 64 0.15 < 10 < 10 97 < 10	

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Map (Same)	Sam & Sample Sam	Sample de Serpitor		dional Valentini Sealor		
182 2508 Siginaka Island	Rep 1 OC	Printed States and Control of the Co	<5 <.2	24 <2 . 7	PARTIES AND A CAMPACAGE SELECTION AND A SECURITION AND A SECURITION ASSESSMENT OF THE PROPERTY	7 6 760
182 2710 Siginaka Island	s oc	Sil gs w/ <1% po, trace cp	505 0.2	332 6 4		
183 2509 Siginaka Island	Rep 2 OC	Fest gs w/ py <1%	GEFORE, ALIBERTA DIZINE DISTRIBUTE SERVICE PROPERTY PROPERTY PROPERTY AND PROPERTY OF THE PROP	70 <2 9		CORT. CT. CORP. ANN. ANN. ANN. CO. CORT. CO. CO. CORP. CO. CORP. CO. CO. CO. CO. CO. CO. CO. CO. CO. CO
184 2711 Siginaka Island	S RC	Fg gs w/ <1% po, carbonate stringers	<5 <.2	59 <2 6		88 8 50
185 2038 Warm Springs Bay	Rep 1x4 OC	Alt tonalite, cp <1%, py to 2%	<5> <2 <5 <.2	290 <2 A		
186 2111 Warm Springs Bay 187 2110 Warm Springs Bay	S RC S OC	Porph dike w/ minor py, cp Bt-qz gneiss, py <1%, trace cp, mo	<5 <.2°			
188 2109 Warm Springs Bay	G OC	Qz in gneiss, minor py, trace cp	<5 <.2	32 4 4	X-1-4: A-6. "COMMERCE AND AND ASSESS OF CONFESSIONS AND ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED.	A Marie Complete Comp
189 2039 Warm Springs Bay	Šź Proposti	Alt tonalite, py, cp to 2% combined		198 4 7	4 54 4 2 0.	89 <2 70
189 2041 Warm Springs Bay	S 1x2 FL	Qz vn w/ sl, cp, py to 20%	<5 8.3	1150 5 900		
189 2581 Warm Springs Bay	Rep 0.2 OC	Qz vn w/ py to 7% hosted in gw	Make Botto and Grande Bibliotechnomics and social social side for in	119 < 1 : 53	PRE Note that that had had the reflection of the contract of the contract of the Principle of the safe the contract of the con	15 4 2 4 10
189 2584 Warm Springs Bay	S FL	Qz w/ cp, sl, & py	<5 15 <5 <0.2	1350 5 275 45 3 10		
189 2750 Warm Springs Bay 189 2751 Warm Springs Bay	> SS	Sil tonalite, <1% cp, found near 2750	<5 <5 1	1750 <1 11		
190 2582 Warm Springs Bay	Rep ∴≪.2 RC∍	Tonalite w/ dissem py	<5 0.3	70 <1 26		
190 2583 Warm Springs Bay	SS		<5 <0.2	39 <1 8	3 3 2 1.	43 2 20
191 2040 Warm Springs Bay	S 2 OC	Porph tonalite, gneiss, py to 3%	<5 <.2	4. ASPAROF FRANKS JAMES J. S. AND L. P. AND P. AND PROPERTY 100.		
192 2752 Warm Springs Bay	G 2 OC	Sil tonalite w/ 1-2% sl, up to 5% py	135 3.5	590 4 540		
193 2585 Warm Springs Bay	Rep 0.1 OC	Qz vn w/ cp, py <1%	2014 4 YOUR WASHINGTON STREET, SACKSON TO 1999	255 50 50 1350 3 720	editoriogram termination control via a service en	*VP sécusor em enconcourse de configuration de la configuration de
193 2753 Warm Springs Bay	G FL	Sil tonalite, 1-2% sl, 1% cp, 5-10% py Tonalite w/ trace cp, py to 7%	<5 16 <5 0.3	1300 <1 4		22 <2 20
194 2586 Warm Springs Bay 194 2587 Warm Springs Bay	G 0.5 OC	Tonalite w/ dace cp, py to 7 %	<5 1.4	1900 <1 6		
195 2754 Warm Springs Bay	G 30x30 FL	Sil bt tonalite boulders w/ 1% cp, py	<5 1.5		550 2 21.	07 <2 120
196 2604 Warm Springs Bay	Rep 0.6 OC	Sil tonalite w/ trace cp, py	<5 <0.2	13 <2 3		
196 2605 Warm Springs Bay	Rep 5 OC	Tonalite w/ trace cp, dissem py	<5 <0.2	NOTE: THE RESERVE OF THE PERSON OF THE PROPERTY OF THE PROPERTY OF THE PERSON OF THE P	40 COTTAIN TOTAL COMMUTE AN AUGUST AND PROPERTY AND AN ANGLE WINDOWS AND A	PCF VRIDGE SECURITY COLUMN AND ANY CALLEGE ASSESSMENT (BOTTOM COLUMN ASSESSMENT)
197 2756 Warm Springs Bay	G RC	Aplite w/ py stringers in qz	<5 0.2 <5 <0.2	15 3 1: 25 < 1 d		
198 2755 Warm Springs Bay 199 2579 Warm Springs Bay	G 9.5 FL G 0.5 RC	Qz w/ <1% mo, on ridge top Tonalite w/ qz stringers, py to 5%	<5 <0.2	38 <1 110	C Cook report to the Walder of The Extension Chinese Service from London American Architecture and American Services and American Architecture and A	75 My Market and a control of a more life and a contract and a market and a control of a control
199 2579 Warm Springs Bay	G 0.6 RC	Tonalite w/ q2 stringers, py to 3 %	<5 0.5	420 <1 80		
200 2748 Warm Springs Bay	G 1.5 OC	Qz vn w/ sl, trace cp, up to 5% py	<5 <0.2	59 2 85	0 600 6 2 0.	15 <2 20
200 2749 Warm Springs Bay	G OC	Qz vn w/ 1-2% mo, trace cp	<5 ; <0.2	13 <1 17	Mr. v. – r. v. v. undert v. druffe" of the dissipation of 16.4 to v. c. approach 16.4 to decive over 17.11 dis-	09 <2 20
201 2577 Warm Springs Bay	G 0.4 FL	Sil tonalite w/ mo, cp, py	<5 <0.2	465 <1 9		1 <2 100
202-2746 Warm Springs Bay	G FL	Di w/ mafic br fragments, trace cp, by	<5 <0.2 <5 <0.2	285 . <18 81 <1 6		06 2 320 87 2 20
202 2747 Warm Springs Bay 203 2540 Warm Springs Bay	G OC SC √10@1 OC	Di w/ trace cp, 2-3% py Tonalite w/ cp <1%, po				83 < 2 130
203 2541 Warm Springs Bay	SC 10@1 OC	Tonalite w/ cp <1%, po	<5 0.5	920 <1 11	ogo souterationetta-taggag o rage *stronen . Extren. Hittoric unitration.	
203 2542 Warm Springs Bay	SC 10@1 OC	Tonalite w/ cp <1%, po	<5 0.2	And the second section of the second	5 53 3 *4 0.	87 <2 230
203 2543 Warm Springs Bay	SC 10@1 OC	Tonalite w/ cp <1%, po	<5 <.2	590 <1 9		
203 2544 Warm Springs Bay	SC 10@2 OC	Tonalite w/ cp <1%, po	<5 <.2	540 <1 9	Service to a series of the service o	0.9 2 230
203 2545 Warm Springs Bay	CC 0.12 OC	Qz vn w/ cp blebs to 5%	<5 5.4	6000 <1 5 580 <1 8		04 <2 10 84 <2 210
203 2546 Warm Springs Bay 203 2547 Warm Springs Bay	SC 10@2 OC SC 12@2 OC	Tonalite w/ cp <1%, po Tonalite w/ cp <1%, po	<5 0.2 <5 <.2	580 <1 8 430 <1 7	Company is a respectively.	coded 4 botto. X . a bar and a control of the control formation of a
203 2547 Warm Springs Bay 203 2548 Warm Springs Bay	SC 12@2 0C SC 10@2 0C		<5 * 0.5	965 <1 . 8		75 4 220
203 2549 Warm Springs Bay	SC 10@2 OC	Tonalite w/ cp <1%	<5 0.4	830 <1 8	and electric in industrial filtraff haupturbuiltier 1 to passes passes, has public confined in a	86 <2 240
203 2550 Warm Springs Bay	SC 10@2 OC	Tonalite w/ cp <1%, po	<5 0.3	790 <1 11	6 38 2 3 0.	82 <2 310

Map Sami Beviell - Cart - Cd - Grit - Feringar in Grit - Kiritar - Nita Mgri Mint Nati Nib - Pri Sb - Seri Seri Tabiliter - Till at Uli - Vil - Wi Vil - Zil - Pl - Rib
no, kino kipomi pom 18 kipomi kino kipo 1884 pom pom 1880 pom 1880 pom 1880 pom
182 2508 <.5 <2 0.53 <.5 69 3.99 <10 10 1.62 <10 1.49 595 0.11 630 <2 12 42 0.29 <10 <10 140 <10 182 2710 <.5 2 0.88 <.5 115 4.25 <10 20 0.06 <10 0.37 3130 0.02 1340 <2 1 35 0.02 <10 <10 87 <10
182 2710 <.5 2 0.88 <.5 115 4.25 <10 20 0.06 <10 0.37 3130 0.02 1340 <2 1 35 0.02 <10 <10 87 <10 183 2509 <.5 4 1.89 <.5 87 4.13 10 <10 1.32 <10 1.47 330 0.62 1060 <2 15 95 0.17 <10 <10 167 <10
184 2711 <.5 4 1.06 <.5 112 3.66 <10 <10 0.11 <10 1.57 375 0.07 600 <2 3 19 0.36 <10 <10 107 <10
185 2036 <5 2 0.28 <.5 52 2.2 <10 <10 0.32 <10 0.65 120 0.07 650 <2 3 12 0.09 <10 <10 56 <10 186 2111 <.5 <2 0.28 <.5 88 1.55 <10 <10 0.4 <10 0.47 240 0.12 450 <2 2 32 0.08 <10 <10 25 <10
186 2111 <.5 <2 0.28 <.5 88 1.55 <10 <10 0.4 <10 0.47 240 0.12 450 <2 2 32 0.08 <10 <10 25 <10 187 2110 ≤5 <2 0.18 <.5 113 3.23 <10 <10 0.79 <10 0.97 290 0.02 730 <2 4 77 0.11 <10 ≤10 ≤10 63 <10 0.97 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 <10 0.97 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 €3 ≤10 0.97 290 0.02 730 ≤2 4 77 0.11 ≤10 ≤10 ≤10 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10 €3 ≤10
188 2109 < .5 <2 0.56 < .5 230 1.82 <10 <10 0.27 <10 0.53 225 0.07 1040 2 3 26 0.07 <10 <10 <10 <10
189 2039 <55 <2 0.32 0.5 171 1.71 <10 <10 0.3 <10 0.47 370 0.1 400 <2 1 30 0.07 <10 <10 <10 <2 <1 189 2041 <5 800 <.01 69 143 3.32 <10 <10 0.03 <10 <.01 120 <.01 <10 <2 <1 <1 <.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
189 2041 <.5 800 <.01 69 143 3.32 <10 <10 0.03 <10 <.01 120 <.01 <10 <2 <1 <1 <.01 <10 <10 <10 <1 <10 <10 <1 <10 ≤1 ≤10 ≤10 ≤10 ≤10 ≤10 ≤10 ≤10 ≤10 ≤1
189 2584 <0.5 544 <0.01 20 42 7.5 <10 <10 <0.01 <10 <0.01 20 <2 <1 <1 <0.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
189 12750 <0.5 <2 0.68 <0.5 162 1.62 <10 130 0.14 <10 0.5 420 0.04 340 <2 1 72 0.11 <10 <10 29 <10
189 2751 <0.5 <2 0.07 0.5 136 1.91 <10 300 0.16 <10 0.15 140 0.03 140 <2 <1 5 0.01 <10 <10 7 <10 190 2582 <0.5 2 0.28 11 36 1.59 <10 ≤10 0.28 <10 0.56 570 0.01 510 <2 2 10 10 0.1 ≤10 <10 25 <10 0.1 ≤10 ≤10 ≤10 ≤10 ≤10 ≤10 ≤10 ≤10 ≤10 ≤1
190 2583 <0.5 <2 0.61 <0.5 34 1.38 <10 <10 0.1 <10 0.51 380 0.01 340 <2 1 62 0.09 <10 <10 24 <10
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192 2752 <0.5 26 0.05 37 121 2.27 <10 270 0.27 <10 0.04 55 <0.01 420 <2 <1 2 <0.01 <10 <10 3 30 193 2585 <0.5 52 0.06 <0.5 63 0.78 <10 <10 0.14 <10 0.03 40 <0.01 220 <2 <1 10 0.01 <10 <10 <10 1 30
193 2753 <0.5 30 0.04 49 117 1.32 <10 120 0.18 <10 0.01 40 <0.01 250 <2 <1 1 <0.01 <10 <10 2 250
194; 2586 <0.5° <2 0.01 <0.5 42 2.18 <10 <10 0.11 <10 <0.01 5 <0.01 130 <2 <1 6 <0.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
194 2587 <0.5 <2 0.04 <0.5 44 2.38 <10 <10 0.1 <10 <0.01 15 <0.01 280 <2 <1 2 <0.01 <10 <10 <10 <10 10 <10 11 <10
196 2604 <0.5 <2 0.19 <0.5 66 0.83 <10 60 0.17 <10 0.25 185 0.03 420 <2 <1 15 0.03 <10 <10 8 <10
196 2605 < 0.5 2 0.17 < 0.5 93 1.29 < 10 30 0.27 < 10 0.37 325 0.03 390 < 2 11 14 0.06 < 10 < 10 15 < 10
197 2756 <0.5 <2 0.02 <0.5 140 1.27 <10 30 0.19 <10 0.04 50 0.03 110 <2 <1 7 0.01 <10 <10 <10 2 <10 198 2755 <0.5 <2 <0.01 <0.5 272 0.47 <10 <10 0.01 <10 <0.01 10 <0.01 10 <2 <1 <1 <1 <0.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
199 2579 <0.5 86 0.11 8.5 61 1.03 <10 <10 0.2 <10 0.35 310 0.01 310 <2 2 8 0.06 <10 <10 19 <10
199 2580 ≤0.5 1 2 0.13 5 55 1.32 <10 <10 0.24 <10 0.38 290 0.05 260 <2 2 15 0.07 <10 <10 22 <10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
200 2748 <0.5 86 0.03 7.5 197 2.03 <10 100 0.11 <10 0.12 65 0.01 160 <2 <1 6 <0.01 <10 <10 <10 <4 <10 200 2749 <0.5 2 0.02 1.5 154 4.29 <10 270 0.08 <10 0.02 20 0.01 30 <2 <1 7 <0.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
201 2577 <0.5 <2 0.29 <0.5 46 1.99 <10 <10 0.35 <10 0.58 345 0.02 500 <2 2 23 0.12 <10 <10 24 4
202 2746 \$0.5 \$2 0.2 <0.5 140 2.09 <10 70 0.54 <10 0.56 365 0.06 470 <2 3 18 0.12 <10 <10 35 3
202 2747 <0.5 <2 0.27 <0.5 134 1.67 <10 90 0.07 <10 0.51 365 0.04 320 <2 2 20 0.06 <10 <10 18 <2 203 2540 <.5 <2 0.17 <.5 121 1.81 <10 <10 0.34 <10 0.51 290 0.05 410 <2 3 11 0.09 <10 <10 26 <10 <5 <2
203 2541 <.5 <2 0.22 <.5 113 1.99 <10 <10 0.52 <10 0.55 310 0.07 320 <2 3 19 0.11 <10 <10 30 <10
203 2542 < 5 2 0.22 < 5 62 1.88 < 10 < 10 0.48 < 10 0.48 270 0.04 510 < 2 3 12 0.1 < 10 < 10 28 < 10
203 2543 <.5 <2 0.15 <.5 65 1.85 <10 <10 0.47 <10 0.49 275 0.04 480 <2 3 8 0.1 <10 <10 27 <10 203 2544 <.5 <2 0.23 <.5 80 1.84 <10 <10 0.55 <10 0.51 275 0.05 850 <2 3 14 0.11 <10 <10 28 <10
203 2545 <.5 <2 0.02 0.5 234 1.09 <10 <10 0.02 <10 <.01 10 0.01 70 4 <1 4 <.01 <10 <10 1 <10
203 2546 <5 <2 0.19 <.5 81 1.65 <10 <10 0.5 <10 0.44 255 0.06 570 6 2 14 0.1 <10 <10 24 <10 23 <10 23 <10 23 <10 23 <10 23 <10 0.1 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.09 <10 0.0
203 2547 <.5 <2 0.13 <.5 150 1.73 <10 <10 0.49 <10 0.4 230 0.07 350 <2 2 10 0.09 <10 <10 23 <10 203 2548 <5 <2 0.13 0.5 119 1.74 <10 <10 0.45 <10 0.4 210 0.06 400 4 2 16 0.08 <10 <10 22 <10
203 2549 < .5 <2 0.16 < .5 143 1.82 <10 <10 0.49 <10 0.47 245 0.07 440 <2 3 16 0.1 <10 <10 25 <10
203 2550 ≤ 5 t <2 0.12 <.5 56 1.8 ≤10 <10 0.54 <10 0.51 220 0.03 380 <2 3 10 0.12 <10 <10 <28 <10

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eno, eno de la respecia Location .	a type size (fi) (site	👫 🔆 🔆 Sample description 🕻 🧸	торы про проп	aw pontarion atrom pin	COMPANY OF THE PROPERTY OF THE
203 2551 Warm Springs Bay	SC 10@2 OC	Tonalite w/ cp <1%, po	<5 <.2 14		2
203 2552 Warm Springs Bay		Tonalite W/ cp <1%, po	<5 5 <.2 14 <5 <.2 11	eritadika 1904-bili 1906-bili 1906-bili 1904-bili 1904-bili 1904-bili 1904-bili 1904-bili 1904-bili 1904-bili	Shadadan Sala (1980) - Charlett balaktee aan aan aan een aan aan aan aan aan a
203 2553 Warm Springs Bay 203 2554 Warm Springs Bay	SC 10@2 OC	Tonalite w/ cp <1%, po Tonalite w/ cp <1%, po	<5° 4 < 2° +23		2 0.82
203 2555 Warm Springs Bay	SS	Section of the state of the section	<5 <.2 3	7 5 17 2 1	<1 0.38 2 20
203 2556 Warm Springs Bay	G 0.5 RÖ	Tonalite w/ blebs of cp, mo, sll	<5% 0.6 160	TAX TAX TO SELECT A SECURITION OF A SECURITION	2 0.91 < 2 190
203 2557 Warm Springs Bay	SS		<5 <.2 7		<1 0.98 <2 30
203 2558 Warm Springs Bay	SS		<5 <2 , 14 <5 <.2 5	6 14 80 3 3 9 2 50 2 2	27 10 2.20.00 700 400 400 2.100 400 2.000 400 400 400 400 400 400 400 400 400
203 2559 Warm Springs Bay 203 2560 Warm Springs Bay	SS SS				1 0.75 2 <2 530
203 2578 Warm Springs Bay	G 0.5 FL	Tonalite w/ dissem cp, py on sil zones	NE CARLO REPORT DE LA CARLO CARROL DE LA CARLO DEL CARLO DEL CARLO DE LA CARLO DE LA CARLO DE LA CARLO DEL C	SECTION LINES AND A CONTRACTOR OF A PARTY AND A PA	SACRETOR SECTION OF SACRETOR SECTION S
203 2718 Warm Springs Bay	SC 10@1 OC	Tonalite, cp <1%, qz vnlets	<5 0.6 155	0. <1 88 600€	CLATER SCHOOL AND SCHOOL CONTROL CONTR
203 2719 Warm Springs Bay	SC 10@1 OC	Tonalite, cp <1%, qz vnlets	<5 <.2 51		
203 2720 Warm Springs Bay	SC 10@1 OC	Tonalite, cp <1%, trace mo, qz vniets	<5 0.6 130 <5 0.5 115		the following the control of the con
203 2721 Warm Springs Bay 203 2722 Warm Springs Bay	SC 10@1 OC SC 10@1 OC	Tonalite, cp + mo <1%, qz vnlets Br tonalite, cp to 5% locally, 1% po	Comprehension Committee (Committee Committee C		7 1.39 4 2 880
203 2722 Warm Springs Bay	SC 10@1 OC	Tonalite, br locally, cp <1%, 1% po	<5 0.2 64	0 <1 117 13	3 0.97 <2 270
203 2724 Warm Springs Bay	SC 10@1 OC	Tonalite, <1% cp, po to 1%	<5: <2 49		STATE OF STATE OF STATE STATE OF STATE OF STATE OF STATE OF STATE STATE OF
203 2725 Warm Springs Bay	S 1.5 OC	High-grade qz vnlet w/ cp, mo, po	<5 4 530		
203 2726 Warm Springs Bay	SC 10@1 OC	Tonalite, <1% cp, py on fractures Tonalite, <1% cp, py on fractures	<5 <2 29 <5 <.2 26		
203 2727 Warm Springs Bay 203 2728 Warm Springs Bay	SC 10@1 OC SC 10@1 RC	Tonalite, <1% cp, py on fractures Tonalite, <1% cp, py in fractures	<5 <.2 120		
203 2729 Warm Springs Bay	SC 10@1 OC	Tonalite cut by fractures, cp <1%, py	<5 <.2 31	0 <1 55 5	2 2 0.84 <2 190
203 2730 Warm Springs Bay	SC 10@1 OC	Tonalite, cp <1%, more in fractures		0 <1 60 10	
203 2731 Warm Springs Bay	SC 10@1 OC	Tonalite, cp, py to 1%	<5 <.2 21		2 0.85 <2 160
203 2732 Warm Springs Bay	SC 10@1 OC	Tonalite cut by sulf-filled fractures, cp. Tonalite w/ sulf vnlets, <5% cp, py	<5 0:3 82 <5 5.2 660		5 0.89 —<2 170 2 8 0.63 <2 100
203 2733 Warm Springs Bay 204 2745 Warm Springs Bay	S 0.7 OC	Di w/ trace cp, 2-5% py		0 3 77 34 9	
205 2736 Warm Springs Bay	SS		<5 <.2 3	4 5 55 3	3 3 0.94 4 30
206 2735 Warm Springs Bay	RC 10x50 OC	Tonalite, qz vnlets w/ cp, trace mo, py			G. Transport and Physics of Commencer and Street St
207 2734 Warm Springs Bay	SS		<5 <.2 2		
208 2146 Harbor Mtri Road	Rep 2 OC Rep OC	Fest fault gouge & silica boxworks in g Qz stringers & lenses in ar, <1% po		5 20 64 2.19 3 12 56 1 1	20 ARTAGES ACT AS A CONT. ALC SERVE TO TO SERVE AND THE A SERVE TO SERVE THE PROPERTY OF THE P
209 1400 Thetis 209 1401 Thetis	Rep OC	Bedrock mainly gw w/ ar & qz stringer	Carrier Committee Committe		25 3.04 2 10 40
209 1402 Thetis	SS	Gw & ar bedrock, fest qz boulder float	1 6	6 14 202 3 53	3 34 3.38 130 90
209 1450 Thetis	C 5 UW	Gw w/ 3 qz stringers from 0.05' to 0.2		 A. V. Ch. Talbuddi in "Stranged all partitions in Control and Control." 	3 10 (1.9 4 <2 1 60
209 1451 Thetis	C 0.8 UW	Qz vn w/ po & py	and a second control of the second process of the second control o	4 4 20 1 9	
209 1452 Thetis	C 3.0 UW C 2.3 UW	Qz vn & stringers w/ blebs of sulf	<5 0,2 4 <5 0.6 6	1 44 122 1 1 1 0 80 134 3 18	2000 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 -
209 1453 Thetis 210 2576 Blue Lake	C 2.3 UW	Fest, sheared gw & qz Sil gs w/ qz stringers, cp to 2%, py	 Line States of Automorphisms (September 2018) and Children and September 2018 		
211 2570 Gangola	C 1.5 TP	Qz zone w/ py/po, aspy	80 <0.2 37	5 <1 28 1 {	3 26 3.77 8 <10
211 2571 Gangola	Rép. 0.4 TP	Sil wall rock w/ po	<5 <0.2 28	The state of the s	
211 2572 Gangola	G TP	Fest gs w/ sulf	570 0.9 96		3 63 1.54 2 <10 19 2.19 2.*₹10
211 2573 Gangola	S MD	Qz w/ py, aspy, fest	85, <0.2, 26	0 <1 42 <1 3 9 <1 5 <1 2	19 2.19 2.5 10. 2 3 0.22 <2 <10
211 2574 Gangola	C 1 OC	Qz vn w/ po	140 ~0.2 4	9 -1 9 -1 4	5 0.22 12 10

Map Sam) Be Bi Can Cd Cr. Fe Ga 4Hg. Ko 4a Cl. Mg Mn. Nav No 4P nisb SC Sn Sc Ta Te 10 11 U. V. V no 100 pom ppm. % 7 ppm ppm. % ppm ippb 2 % appm ppm. % ppm. % ppm. ppm appm appm appm appm appm appm	Vi Y (Z. Pt. Pd. m. ppm ppm ppb pbb
	<2
	<2
203 2553 <.5 <2 0.14 <.5 78 1.46 <10 <10 0.52 <10 0.44 255 0.04 400 <2 3 10 0.1 <10 <10 21 <	<2
203 2554 5 5 2 0.18 <.5 101 1.53 <10 <10 0.47 <10 0.45 250 0.06 340 <2 2 17 0.09 <10 <10 19	:2
200 2000	<2
	<2
203 2557 <.5 <2 0.15 <.5 2 0.97 <10 60 0.07 <10 0.28 135 0.01 280 <2 1 14 0.06 <10 <10 15 <1	A CONTRACTOR OF THE PROPERTY O
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200 2000 2 0.21	
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203 2570 -0.5 -2 0.00 2 07 1.00 -10 0.10 -10 0.10	10
203 2718 <5 <2 0.17 <5 105	
200 2710 1.0 12 0.10 1.0 1.00 1.00 1.00 1.0 1.0 1.0 1.0	10
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211 2573 <0.5 12 2.05 <0.5 76 3.62 <10 <10 0.04 <10 1.43 440 <0.01 30 <2 7 12 0.08 <10 <10 <10 100 76	parente right in a right to war take taken a taken a taken t
	50

Map Sam	Sam, Samp	e Sam	The state of the s	ALL S	SELECTION OF SELECTION	- PK -	Z(Y - 100)	NI Co	All control of
no wino may wind the ocation see a ma	typer; size (OC	Qz'vn w/ sulf	450	pm ppm ppn	Section Control of the Section Control	the grant considerable and the second section of	bu H. bbul	b/essappmasppm
211 2575 Gangola 211 2744 Gangola	C 0.9 G	OC	Qz vn w/ sulf Qz vn w/ fest	65	0.4 16 <0.2 9	9 < <1 . 8 14	12 <1 23 2	4 11. 4 3	0.19 4 <10
211 2744 Gangola 212 2015 Apex area	· C 3,3		Qz vn in gw, barren			2 <2	23 2 <2 \ 1		0.04
212 2016 Apex area	Rep 2x7	Line Albert Contraction	Qz vn in fault, parallel to vn in 2015	10	comment of the State of State of the State o	z 7 <2	24 1		0.58 4 40
212 2017 Apex area	\\S\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	FL.	Qz vn br, cp, trace sl, aspy	**************************************	1 92				1.05 5 # 80
212 2018 Apex area	C 1.7	oc	Qz vn br, aspy, minor cp	<5	0.2 27	Lance at annual contraction	59 1	Control of the section of the	0.92 44 80
212 2106 Apex area	rs cars	FL	Qz w/ minor po, gw clasts	<5	<.2 1				0.46
212 2107 Apex area	C 0.25	111. 4 111 XV	Qz vn & sil gw br, fest	40	and a contract to a contract	8 4	28 1		0.35 90 30
213 2104 Liberty	: ' S	MD	Qz & qz br, py/po	30	<.2 8	4 6	46 <1	7 2	0.42 28 20
213 2105 Liberty	C 1.4	ОС	Qz vn in slate, fest, no sulf	<5	<.2 1		42 <1	an place? Love contrates 19, 306	0.86 8 10
213 2235 Liberty	C 3	UW	Qz vn, minor pl, py clots to 1 inch	<5	<0.2 3	5 4	84 <1	7. 3	0.59 106 10
213 2236 Liberty	C 3	UW	Qz vn, py to 2%	60	<0.2	6 8	32 <1		0.79 398 <10
213 2237 Liberty	Rep 2	UW	Qz vns, py to 2% locally	50	<0.2 2	1 314	58 👫 <1 🖖	128	1.14 100 \$ 20
213 2238 Liberty	C 1	UW	Qz pods, lenses, no sulf	20	0.4 9		100 <1		1.09 146 20
214 2091 Green Lake Road	S 0.5	OC	Qz vn in slate, py <1%	> <5		6 : 4 :		26 8	1,18 2 20
215 2161 Edgecumbe Exploration	C 0.7	UW	Ribbon qz w/ py <1%	1170		9 130	212 <1		0.41 918 30
215 2162 Edgecumbe Exploration	S	UW	Qz w/ knots of py & aspy to 5%	1810	Turn in Land Company in No. 402 and LEG SAL	1 16	 L. B. of "Collection and space ages and shades by a security." 	1965 LOSSING LANGE BESTALL SPAINS	0.08 >10000 20
215 2239 Edgecumbe Exploration	C 2.1	UW	Qz vn, py to 3% locally	50		4 42	30 <1		0.19 880 10
215 2240 Edgecumbe Exploration	G 5	. UW	Qz vn, py/aspy locally	70	the second control of the second section of the sect	1 48			0,06 2200 10
215 2241 Edgecumbe Exploration	C 0.75	to the transfer of	Qz vnlet in gw, py to 5%, near creek	160	<0.2 1		54 1		1.63 >10000 70
215 2242 Edgecumbe Exploration	C 4	2002 - 10	Qz vn, py, aspy to 1%	20	<0.2 <	Strate is managed of the C		CONTRACTOR CONTRACTOR	0.05 262 <10
216 2163 Eureka		OC	Fest qz stringers in gw	<5 30		3 4	20 <1 - 8 <1		1.8 36 20
216 2243 Eureka 216 2244 Eureka	Rep	FL FL	Qz in creek	<5	<0.2 × <0.2 1	2 2 7 2	*8** <1 */ 32 <1		0.21 34 . 10
216 2245 Eureka	Rep C 0.25		Qz w/ gw partings, py/aspy to 2% Qz vnlets in state, no sulf	27.5		, 2 9 16 .	32 <1 384 <1		0.3 38 10 0.56 4060 30
217 1403 Bonanza No. 1	C 4.5	UW	Interbedded gw & slate, minor gz stringer	And the second second	<.2 2	to provide the design of	78 3		1.98 4 90
217 1404 Bonanza No. 1	C 4.3	UW.	Sheared black slate w/ minor qz stringers		<.2 5				2.29 52 170
217 1454 Bonanza No. 1	C 3.0	UW	Gw, slate, & sparse qz stringers	<5	<.2 3	With the second pages of the	90 3	CONTRACTOR SOURCE STATE OF	2.22 30 130
218 1417 Green Lake	i Gallerii i	MD	Fest qz in slate w/ minor py (<1%)	10		7 #8	12 1		0.33 2 20
218 1465 Green Lake	RC	MD	Qz vn w/ slate ribbon texture	5	Control of the Contro	4 <2	2 <1		0.05 8 <10
218 1466 Green Lake	G 0.5	MD	Vuggy qz vn w/ gs, some ribbons	· / > <5	<.2		2 <1		0.09. 6 10
219 1418 Green Lake	C 2	OC	Qz vn w/ minor py in gw, py<<1%	<5	<.2 15	of the investment of the other	<2 <1	ANSTRUM DADOR CORP.	0.04 <2 <10
220 2148 Stewart	Rep 2.5x4	OC	Qz vn w/ tráce py	265	<0.2	3 2	.4 <1	4 1	0.24 - 78 - 10
220 2164 Stewart	S	MT	Crushed rock w/in stamp battery	9640	4.2 310	of the day of the Others of	175 1		0.13 1185 30
220 2221 Stewart	Rép	MT	Tallings from below agitator on millsite	12.6	* 4.9 2	200	42 1	7 2	0.17 9680 10
220 2222 Stewart	S	MT	High-grade from concentrates near mill	57.9	* 25.6 21	2000	25 4	13 4	0.07 >10000 20
220 2092 Stewart, Adit #1	. C 4	. w	Qz w/ slate/gw partings, py	<5	<0.2	2 52	4 <1	6 • 1	0.1. 258 10
220 2093 Stewart, Adit #1	C 4.5	UW	Qz vn w/ py black slate/gw	25		1 10	56 <1		0.43 1555 40
220, 2094, Stewart, Adit #1	C 4	ÜW	Qz vn w/ slate/gw partings	240	0.2	t∙ (14 ∴	170 1 1 170	6. 1	0.09 284 10
220 2095 Stewart, Adit #1	C 5.5	UW	Qz, minor partings on hw	15		2 4	22 <1		0.08 172 <10
220 2096 Stewart, Adit #1	C 7	· UW	Qz vn, py <1%	20	 3 (2) (3) (3) (3) (3) (4) (4) (3) (4) 	? <2	and the second of the second second of the second s	to MC to Care Materials in the following to	0.01 22 <10
220 2097 Stewart, Adit #1	C 5	UW	Qz vn, minor fault gouge	< 5	<0.2	l <2	2 <1	3 <1	
220 2098 Stewart, Adit #2	C 4	UW	Br qz, py to 2% locally	370	0.2	Change and Asset Market and			0.18 - 214 20
220 2099 Stewart, Adit #2	S 0.3	UW	Qz vn w/ py to 1%	65	· · · · · · · · · · · · · · · · ·	7 2	28 <1		0.32 218 30
220 /2100 Stewart, Adit #2	C 5.5	- UW	Qz vn w/ ribbon texture, <1% py	150	0.2	2 2	20 1	6 1	0.06 958 10

Table B-1. Analytical results of samples from mines, prospects, and occurences

Map same be sall - Ca - Cd - Cr - Rec Ga - Ing - K - La - Li - Mg - Mn - Na TiNb - Pr. Sb - Sc - Sn - Sr - Ta - Te - Tt - Ti - U - V - W - 27 - Zr - Int - Ed
no: Tho: sppm ppm 1 % 1 sppm ppm 1 % 5 ppm ppb 1 % 1 ppm ppm 6 % 1 ppm ppm 2 ppm ppm ppm ppm ppm ppm ppm p
211 2744 <0.5 18 0.07 <0.5 298 0.94 <10 <10 0.01 <10 0.11 35 <0.01 10 <2 <1 <1 0.01 <10 <10 <14 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10
212 2015 < 5 <2 0.01 < 5 179 0.24 <10 10 <01 <10 0.02 15 <.01 20 4 <1 1 <1 <10 <10 <10 <10 <10 <10 <10 <10
212 2017 - <.5 3 <2 0.27 0.5 316 2.03 <10 30 0.17 <10 0.52 205 0.01 260 2 2 11 0.12 <10 <10 30 <10
212 2018 <.5 <2 0.2 <.5 222 2.04 <10 170 0.2 <10 0.45 195 <.01 320 <2 1 12 0.09 <10 <10 23 <10
212 2107 <.5 <2 1.87 <.5 345 0.95 <10 <10 0.08 <10 0.1 260 <.01 70 <2 <1 154 0.01 <10 <10 7 <10
213 2104 < 5 <2 2.15 < 5 362 1.17 < 10 10 0.06 < 10 0.18 235 0.01 110 6 < 1 151 0.01 < 10 < 10 10 < 10
213 2105 <.5 <2 0.15 <.5 182 1.67 <10 10 0.04 <10 0.47 190 <.01 220 <2 <1 10 <.01 <10 <10 14 <10 <10 \displays \cdot 2.18 \displays \cdot 2.18 \displays \cdot 0.5 \displays \dinfty \displays \displays \displays \dinfty \displays \displays \dinfty \dinfty \
213 2236 <0.5 <2 2.86 <0.5 98 1.59 <10 2370 0.02 <10 0.43 480 <0.01 230 <2 1 221 <0.01 <10 <10 12 <10
213 (2237 <0.5 2 3.6 <0.5 136 2.11 <10 700 0.06 <10 0.62 540 0.01 430 <2 1 199 0.01 <10 <10 22 <10 213 2238 <0.5 2 3.82 0.5 143 2.27 <10 790 0.08 <10 0.56 565 <0.01 310 <2 1 278 0.01 <10 <10 17 <10
213 2238 <0.5
215 2161 <0.5 <2 1.2 <0.5 184 1.15 <10 170 0.11 <10 0.28 175 <0.01 460 2 <1 44 <0.01 <10 <10 15 <10
215 2162 <0.5 <2 0.11 <0.5 144 3.07 <10 260 0.02 <10 0.03 45 <0.01 20 16 <1 56 <0.01 <10 4 <10 4 <10 215 2239 <0.5 <2 0.89 <0.5 222 0.69 <10 120 0.02 <10 0.12 90 <0.01 520 <2 <1 61 <0.01 <10 <10 7 <10
215 2240 ≤0.5 ≤2 0.28 <0.5 223 0.54 ≤10 110 0.02 <10 0.02 40 <0.01 ≤10 2 <1 19 <0.01 <10 <10 2 <10
215 2241 <0.5
215 2242 <0.5 <2 0.12 <0.5 226 0.34 <10 20 <0.01 <10 0.03 20 <0.01 360 <2 <1 12 <0.01 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10 2 <10
216 2243 \$0.5 <2 0.02 <0.5 201 0.53 <10 <10 0.02 <10 0.09 185 <0.01 10 <2 <1 2 <0.01 <10 <10 3 <10
216 2244 <0.5 <2 0.08 <0.5 212 0.93 <10 20 0.05 <10 0.15 50 0.01 120 <2 <1 6 0.03 <10 <10 8 <10 216 2245 <0.5 <2 8.63 <0.5 133 1.49 <10 460 0.09 <10 0.33 585 <0.01 200 <2 1 944 <0.01 <10 9 <10 9 <10
217 1403 < .5 <2 2.31 < .5 47 3.5 < 10 170 0.13 < 10 1.11 560 < .01 650 < 2 3 93 0.16 < 10 < 10 36 < 10
217 1404 < 5 <2 3.37 <.5 53 4.18 <10 11350 0.29 <10 0.96 650 <.01 690 2 3 330 0.2 <10 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27 <10 27
217 1454 <.5 <2 1.74 <.5 79 4.77 <10 330 0.32 <10 0.97 900 <.01 700 <2 3 135 0.16 <10 <10 30 <10 218 1417 <5 <2 0.28 <.5 304 0.85 <10 <10 0.04 <10 0.15 180 <.01 40 <2 <1 20 0.02 <10 <10 6 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10
218 1465 < .5 < 2 < .01 < .5 312 0.37 < 10 < 10 0.01 < 10 0.01 40 < .01 < 10 < 2 < 1 < 1 < .01 < 10 < 10 < 10 1 < 10
218 1466 < 5 <2 0.03 <.5 240 0.36 <10 10 0.01 <10 0.04 45 <.01 <10 <2 <1 1 0.01 <10 <10 3 <10 219 1418 < 5 <2 0.01 <.5 155 0.25 <10 <10 <.01 <10 0.02 20 <.01 <10 <2 <1 <1 <.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
219 1418 <.5 <2 0.01 <.5 155 0.25 <10 <10 <.01 <10 0.02 20 <.01 <10 <2 <1 <1 <.01 <10 <10 <10 1 <10 <2 <1 <1
220 2164 <0.5 <2 0.01 0.5 156 14.5 <10 48300 0.02 <10 0.05 140 <0.01 560 <2 <1 2 <0.01 <10 <10 14 <10 220 2224 <0.5 244 3 27 <10 <10000 0.04 <10 0.08 45 <0.01 340 2 <1 5 <0.01 <10 <10 <10 11 <10
220 2221 <0.5 4 0.04 <0.5 214 3:27 <10 >100000 0:04 <10 0.08 45 <0.01 340 2 <1 5 <0.01 <10 <10 11 <10 220 2222 <0.5 20 0.04 <0.5 105 9.64 <10 >100000 0:03 <10 0.01 35 <0.01 500 42 <1 4 <0.01 <10 <10 5 <10
220 2092 <0.5 <2 0.01 <0.5 437 0.5 <10 20 0.03 <10 0.02 30 <0.01 <10 <2 <1 2 <0.01 <10 <10 3 <10
220 2093 <0.5 <2 0.45 <0.5 272 1.03 <10 30 0.1 <10 0.23 135 0.01 140 <2 <1 35 <0.01 <10 <10 10 <10 220 2094 <0.5 <2 0.09 1 466 0.66 <10 30 0.03 <10 0.02 35 <0.01 40 <2 <1 8 <0.01 <10 <10 3 <10
220 2095 <0.5 <2 0.42 <0.5 304 0.42 <10 190 0.01 <10 0.04 55 <0.01 420 <2 <1 34 <0.01 <10 <10 2 <10
220 2096 <0.5 <2 0.01 <0.5 396 0.37 <10 380 <0.01 <10 <0.01 15 <0.01 <10 <2 <1 2 <0.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
220 2097 <0.5 <2 0.32 <0.5 324 0.3 <10 60 <0.01 <10 0.01 40 <0.01 <10 <2 <1 55 <0.01 <10 <10 1 <10 220 2098 <0.5 <2 0.03 <0.5 432 0.84 <10 30 0.05 <10 0.06 70 0.01 60 <2 <1 6 <0.01 <10 <10 <10 5 <10
220 2099 <0.5 <2 0.02 <0.5 214 0.86 <10 20 0.08 <10 0.11 65 0.01 60 <2 <1 4 <0.01 <10 7 <10
220 2100 <0.5 <2 0.16 <0.5 374 0.51 <10 30 0.02 <10 0.02 35 <0.01 <10 <2 <1 13 <0.01 <10 <10 3 <10

Map Sam	Sam Sample San		Att Att	(8 00)	
no o nosale la la la Location de la	type size (ft) - site	· Sample description	mag maga dag	idem & pem indem	ាន្តិការ ស្តីភាព នៅពីលុះ 🕸 👉 ស្តីភូក្រុ ស្ថិតិការ
220 2201 Stewart, Adit #2	C 5 UW	Qz vn w/ minor ribbons, py to 2%	2780 <0.2	2 2 44	<1 4 <1 0.03 566 <10
220 2147 Stewart, Adit #3	C 5 UW	Qz in gw/slate, py <1%	360 0.2	- 23 12 1 46	<1 14 5 0.88 706 760
220 2202 Stewart, Adit #3	Rep 3x5 UW	Qz vn on fw of fault, py to 1% in clots		2 10 16	<1 6 1 0.07 316 10
220 2203 Stewart, Adit #3	ເົ່∞ 5 ⊍W	Qz & sheared gw/slate, py <1%	150 <0.2		<1 17 7 1.09 498 80
221 2510 Lower Ledge	C 2 UW	Sheared gw w/ fest	<5 <.2	30 8 96	<1 26 13 2.21 12 100
221 2511 Lower Ledge	G 1 UW	Sheared gw w/ calc stringers	<5 <2.2		<1 29 17 2.42 18 70
all also a substrained for a property of the control of the contro	and what is a mean of the first and a second and the first of the firs		iski kilikurkanna "Titrikeri "Citrikeri "Citrikeriski uzudi otoko eruska rifiliza is	\$428 () \$28777. 2 38 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0	
221 2512 Lower Ledge	C 1.7 UW	Sheared gw			
221 - 2513 Lower Ledge	. C 1.8 . UW	Sheared gw w/ qż lens	<5 <2	 See A service See Act. 1998 (Astron.) Proceedings (AP 1999) Lineal 	<1 16 12 2.09 6 80
221 2514 Lower Ledge	G FL	Qz w/ aspy, py, chl ribbon texture	<5 <.2	4 6 8	<1 3 1 0.1 306 10
221 2515 Lower Ledge	Rep 2.5x3.7 RC	Qz w/ aspy, py & Ilmonite	<5 <.2	6 2 2	<1 - 2 2 0.07 452 10
221 2516 Lower Ledge	Rep 15 MD	Qz w/ aspy, py	<5 <.2	2 <2 2	<1 3 <1 0.04 190 <10
221 2517 Lower Ledge	Rep 24 MD	Qz w/ aspy, py	30 < 2	4 2 4	<1 4 1 0.11 692 10
221 2518 Lower Ledge	S FL	Qz w/ aspy, py & trace gn	2350 0.4	7 74 144	<1 5 2 0.28 1490 30
222 2223 No Name	C 3.5 UW	Qz vn along fault, trace py	60 <0.2	9 6 18	<1 8 2.0.39 ₂ 632 20
222 2224 No Name	Rep 6 UW	Qz vn. no py	30 <0.2	10 8 34	<1 7 1 0.13 356 10
222 2225 No Name	C 4 UW	Qz & gw, br, w/calc vnlets	40 <0.2	76 8 78	
222 2226 No Name	Rep UW	Sil gs w/ calc ooze, py to 5%	<5 0.2	127 4 54	1 32 8 0.71 222 170
222 2227 No Name	C 2.5 OC	Qz vn w/ gw partings, fest	<5 <0.2	4 2 = 6	1 6 1 0.2 184 10
223 2214 Bauer	C 1.5 UW	Qz w/ sheared gw/pl, no sulf	280 <0.2	24 14 62	<1 15 7 1.17 716 100
223 2215 Bauer	Rep 0.5x2 UW		35 <0.2		70 20 6 0.22 344 < 70
224 2220 Pinta Lake	A CONTRACT OF STANDARD CONTRAC	Qz vn near trench, no sulf	5 <0.2	3 6 6	<1 4 1 0.15 138 10
225 1405 Wicked Fall			CONTRACTOR OF AN ALL AND ALL A		1 4 1 0.15 138 10
935 (3.03-96) (1.069) (3.439-0.154) (4.04) (4.05) (4.05) (4.05)	 11 10. a. 20. hhillips of the collaboration and the first of the Proposition of the research Physics 		S. S. C.		AND THE STATE OF T
225 1406 Wicked Fall	C 1.9 UW	Qz vn + black slate in shear	90 <.2	2 <2 16	1 8 3 0.42 2480 50
225 1407 Wicked Fall	s uw	THE PERCHAPITE TO THE PROPERTY OF THE PERCHAPITED FOR THE PERCHAPI		60 - 00 - 1, - 60 - 1, - 60 - 1, - 1, - 1, - 1, - 1, - 1, - 1, - 1	2 11 ÷ 6 0.57 5390 p 50
226 2219 Pinta Lake	C 6 OC	Qz vn hosted by gw/pl	45 <0.2	9 24 26	<1 6 1 0.11 300 <10
227 - 2218 - Pínta Laké	Rep 2.5 OC	Qz vn, gs sc, no sulf, near trench	205 0.4		<15 1 0.11 a 2550 8 10
228 1408 Free Gold	Rep 4.1 OC	Qz vns & stringers in gw, minor py	45 <.2	1 <2 2	<1 10 1 0.09 224 <10
228 1455 Free Gold	G 0.4 MD	Qz vn w/ sparse py	<5 <5.2	· 5 <2 · 2	
228 2154 Free Gold	C 2 OC	Qz vns w/ limonite, fest	<5 <0.2	1 <2 <2	<1 4 <1 0.02 34 <10
228 2155 Free Gold	S * MD	Qz w/ limonite, sericite, no sulf	<5. <0.2	6 16 4	'<1 6 1.0.09 484≨<10
228 2156 Free Gold	C 2.8 OC	Qz stringer zone, no visible sulf	<5 0.2	12 12 34	<1 67 11 1.22 256 10
229 2153 Lucky Chance Mtn	S FL	Fest qz w/ slaty partings, aspy <1%	1180 <0.2	*1 <2 2	<1 4 /// 1 0.07e= 2480 #30
230 2151 Lucky Chance Mtn	C 2 UW	Gp fault gouge w/ qz stringers, py <19	CONTRACTOR OF THE CONTRACTOR O	53 6 94	<1 23 14 2.93 2190 90
230 2152 Lucky Chance Mtn	Rep 0.3 TP	Fest qz lens in fault zone, trace py, as		2 <2 4	<1 4 1-0.17 970 970 20
231 2210 Lucky Chance	S MD	Qz vn w/ gw partings, visible gold, ası		1 78 6	<1 4 1 0.08 1270 <10
231 2211 Lucky Chance	S MD	Qz w/ gw partings, aspy to 1%	300 <0.2	1 10 16	<1 3 1 0.12 906 10
231 2212 Lucky Chance	S MD	Qz w/ gw partings, aspy stringers	16.9 * 1.8	5 54 32	3 6 2 0.21 2430 20
231 2213 Lucky Chance	S 2 S 2 MT	High-grade from concentrates near m		19 1250 61	
The control of the co	医环状性畸胎 化氯化二乙酰甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基		A CONTRACTOR OF THE STATE OF TH	12 90 6	<10 44 38 0.13 710000 10. <1 7 2 0.15 112 <10
At a contract of an amount of the contract of	C 2.4 TP	Fest qz, slaty partings, w/ py, aspy	175 0.4 125 0.4	36 128 12 ×	
		Qz w/ slaty partings, aspy + py <1%	1 1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2		 A. C. Landon, D. Statistics and Association of Lightness and Administration and "Association and Statistics and Association and Computational Computations of Computational Computations (Computational Computational Computational
233 2157 Lucky Chance Mtn	C 2.5 TP	Fest qz, sheared gw, py <1%	55 <0.2	22 8 212	<1 13 6 0.82 274 40
233 2158 Lucky Chance Mtn	"S MD	Fest qz & gw w/ gn, py, aspy	2230 🛴 5.8	- 277 - 8458 Act - 14111 - 8 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	1 5 1 0.25 1248 10
234 2230 Lucky Chance Mtn	C 2 TP	Qz vn w/ trace aspy, fest	<5 <0.2	7 16 12	<1 4 1 0.09 748 10
234 2231 Lucky Chance Min	C 2 OC	Qz vn adj to sample 2230, no sulf	<5 <0.2	2 4 12;	. 1 5 1 0.04 2 270 <10
234 2232 Lucky Chance Mtn	Rep 1.5 UW	Qz vn at face of short adit	<5 <0.2	49 2 12	1 7 2 0.07 312 <10

Mady Sami Be Bi Ca Cat Cat Cat Re Gail House Mark 12 Mg Min Wall No. P. Sc. Sc. St. St. 178, 16 July 10 Wash 20 PU Po
no Asno Spom pom 15 % a pom spom 50 % opm spom pom gom was pom
220 2201 <0.5 <2 0.16 <0.5 263 0.37 <10 30 0.01 <10 0.01 25 <0.01 100 <2 <1 25 <0.01 <10 <10 1 <10
220 2147 <0.5 <2 1.64 <0.5 161 1.89 <10 6210 0.14 <10 0.62 375 0.01 290 <2 <1 161 <0.01 <10 <10 12 <10
220 2202 < 0.5 < 2 0.01 < 0.5 423 0.51 < 10 10 0.02 < 10 0.01 35 < 0.01 < 10 2 < 1 2 < 0.01 < 10 < 10 2 < 10
220 2203 <0.5 2 1.34 0.5 159 2.45 <10 20 0.19 <10 0.68 320 0.01 320 <2 1 110 <0.01 <10 <10 16 <10
221 2510 <.5 <2 0.62 0.5 53 3.9 <10 10 0.19 <10 1.41 555 0.01 720 <2 2 23 0.19 <10 <10 43 <10
221 2511 < 5 2 1.7 < 5 38 4.27 < 10 20 0.15 < 10 1.53 645 < .01 820 < 2 2 129 0.23 < 10 < 10 37 < 10
221 2512 < 5 2 1 < 5 30 4.35 < 10 2320 0.26 < 10 1.26 665 < .01 830 < 2 3 40 0.27 < 10 < 10 33 < 10
221 2513 <5 2 3.33 0.5 30 3.68 <10 450 0.17 <10 1.16 650 <.01 580 2 2 245 0.23 <10 <10 27 <10
221 2514 <.5 <2 0.09 <.5 196 0.36 <10 50 0.02 <10 0.04 30 <.01 60 <2 <1 7 <.01 <10 <10 2 <10
221 2515 <5 <2 0.03 <5 174 0.34 <10 10 0.01 <10 0.02 80 <.01 10 <2 <1 4 <01 <10 <10 2 <10
221 2516 <.5 <2 0.01 <.5 273 0.31 <10 <10 0.01 <10 0.02 15 <.01 20 <2 <1 1 <.01 <10 <10 2 <10
*221 2517 <5 <2 0.04 <5 190 0.59 <10 <10 0.02 <10 0.07 35 <.01 30 2 <1 3 <01 <10 <10 3 <10 2 <1 3 <01 <10 <10 3 <10 <10 3 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10
- 20世間には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、1997年には、199
222 2224 <0.5 <2 1.1 0.5 293 0.56 <10 470 0.02 <10 0.06 190 <0.01 30 <2 <1 94 <0.01 <10 <10 4 <10 222 2225 <0.5 <2 7.01 <0.5 113 2.22 <10 1600 <0.01 <10 0.24 3850 <0.01 600 <2 <1 92 0.01 <10 <10 49 <10
222 2226 < 0.5 2 4.99 < 0.5 98 5.02 < 10 410 0.14 < 10 0.52 3580 0.01 1500 < 2 2 195 0.06 < 10 < 10 151 < 10
222 2227 <0.5 <2 0.03 <0.5 327 0.68 <10 500 0.04 <10 0.1 70 0.01 30 <2 <1 2 <0.01 <10 9 <10
223 2214 <0.5 2 9.16 <0.5 101 2.05 <10 1090 0.23 <10 0.6 1115 <0.01 370 <2 1 1100 0.01 <10 <10 18 <10
223 2215 <0.5 <2 2.85 <0.5 150 1.54 <10 710 <0.01 <10 0.11 755 <0.01 690 <2 <1 180 <0.01 <10 48 <10
224 2220 <0.5 <2 0.01 <0.5 231 0.53 <10 210 0.02 <10 0.07 45 <0.01 20 <2 <1 1 0.01 <10 5 <10
225 1405 <.5 <2 0.78 <:5 82 0.77 <10 90 0.02 <10 0.22 230 <.01 100 <2 <1 58 <.01 <10 <10 3 <10
225 1406 <.5 <2 1.96 <.5 250 1.25 <10 50 0.1 <10 0.27 545 <.01 180 <2 1 130 <.01 <10 <10 8 <10
225 1407 < 5 <2 2.46 < 5 143 1.73 <10 10 0.1 <10 0.29 675 < .01 400 2 1 189 < .01 <10 <10 8 <10
226 2219 <0.5 <2 0.03 <0.5 280 0.66 <10 210 0.02 <10 0.06 40 <0.01 20 <2 <1 3 0.01 <10 <10 3 <10
227, 2218 <0.5 <2 <0.01 <0.5 231 0.59 <10 410 0.02 <10 0.06 70 <0.01 <10 <2 <1 1 5 <0.01 <10 <10 <10 3 <10
228 1408 < .5 < 2 0.43 1 278 0.53 < 10 < 10 0.01 < 10 0.12 110 < .01 30 < 2 < 1 17 < .01 < 10 < 10 2 < 10
228 1455 < 5 < 2 0.06 1 283 0.47 < 10 < 10 0.01 < 10 0.04 125 < 01 320 < 2 < 1 6 < 0.05 < 10 < 10 2 < 10
228 2154 <0.5 <2 0.03 <0.5 243 0.31 <10 790 <0.01 <10 0.01 90 <0.01 10 <2 <1 3 <0.01 <10 <10 1 <10
228 2155 ≤0.5 ≤2 0.18 <0.5 194 0.68 <10 360 0.01 <10 0.06 185 <0.01 60 <2 <1 6 <0.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
228 2156 <0.5 <2 1.75 <0.5 208 2.02 <10 430 0.05 <10 1.81 375 0.02 150 <2 3 79 <0.01 <10 <10 23 <10
229 2153 <0.5 <2 <0.01 <0.5 210 0.52 <10 710 0.02 <10 0.01 90 <0.01 <10 <2 <1 2 <0.01 <10 <10 1 <10
230 2151 <0.5 <2 1.96 <0.5 72 4.75 <10 120 0.23 10 1.36 690 0.02 740 2 3 126 <0.01 <10 <10 44 <10
230 2152 <0.5 <2 0.18 <0.5 170 0.56 <10 850 0.02 <10 0.11 50 <0.01 50 <2 <1 17 <0.01 <10 3 <10
231 2210 <0.5 <2 0.06 <0.5 291 0.57 <10 180 0.02 <10 0.03 110 <0.01 60 <2 <1 8 <0.01 <10 <10 2 <10
231 2211 <0.5 <2 1.49 <0.5 194 1.09 <10 80 0.05 <10 0.31 320 <0.01 150 <2 <1 90 <0.01 <10 <10 2 <10
231 2212 <0.5 <2 1.04 1.5 247 1.01 <10 40 0.08 <10 0.21 230 <0.01 140 <2 <1 79 <0.01 <10 <10 4 <10
231 2213 <0.5 14 0.02 5.5 23 >15.00 <10 >100000 0.02 <10 0.04 35 <0.01 250 66 <1 3 <0.01 <10 <10 2 90
232 2159 <0.5 <2 <0.01 <0.5 184 0.59 <10 120 0.02 <10 0.07 90 <0.01 40 <2 <1 1 <0.01 <10 <10 2 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10
232 2160 <0.5 <2 0.01 <0.5 210 0.86 <10 690 0.05 <10 0.11 90 <0.01 80 <2 <1 6 <0.01 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
233 2157 <0.5 <2 0.06 2 189 1.63 <10 200 0.11 <10 0.41 315 0.01 220 <2 1 13 <0.01 <10 <10 20 <10 20 <10 233 2158 <0.5 + 8 0.02 0.5 189 0.82 <10 170 0.05 <10 0.14 140 <0.01 110 <2 <1 4 <0.01 <10 <10 <10 8 <10
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你的一个我们就是我们的我们就是我们的我们就是我们的我们就是我们的我们就是我们的我们就是我们的我们的我们的我们的我们的我们就是我们的我们的我们的我们的我们就是 我们的我们
234 2232 <0.5 <2 0.01 <0.5 464 0.78 <10 50 0.02 <10 0.02 60 <0.01 10 2 <1 1 <0.01 <10 <10 3 <10

			1250-1257 -1 26-1257-125	**	E A CONTRACT	THE REPORT OF THE PERSON NAMED IN COLUMN 1		
Map Sam	Sam (Sample Sam			AD SELUTION	10 5 2	Mar World		
not who we have with a Location as a life last	(i) type = size (ii) = site	Sample description was Just		ppm appm 2		men ppm; ppm;	bbu a v	ibique about
(株式と) からいかから、からびからがなどがありませんがある。これがあることがある。これでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、	G 1.5 UW	Qż vn w/ trace py/aspy			- contract - contract day a contract - contr	advances was a construction of the second section of the second		450, <10
234 2234 Lucky Chance Mtn	C 3 UW	Qz vn at face of short adit	<5 	0.8 3		14 1 6	1 0.17	2380 20
235 2228 Lucky Chance Mtn	C 6 TP	∉Qz vn in black pl, aspy to 2%, py 🦠 👭	820	N - 5 4 Phys 15 128 (177 No. 1380) 1990 (2000)	\$\$\$P\$\$\$\$\$\$\$\\$\\\\\\\\\\\\\\\\\\\\\\\\\		1 0.08	
235 2229 Lucky Chance Mtn	s oc	Sulf-rich qz w/ pl partings	4840	0.2 13		34 1 7	3 0.66	3530 20
236 2781 Hill	G FL	Mag/chromite serpentinite	Statistical installed Market Consideration of State of	<0.2 20	66. No. 1	52 - "<1 805	25 25.2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	on a consequence of the field o
237 1410 Hill	s RC	Pyroxenite w/ po (1-2%) & minor cp (<1%)	<5 	<.2 680		32 1 174	86 2.33	<2 <10
237: 1411 Hill	S // OC	Pyroxenite w/ dissem cp (~1%)	<5	<.2 3680		14 🦠 1 370	98 1.57	C. Survices (No. Carlo - Management Street Charles)
237 1457 Hill	G RC	Qz vn w/ ribbons & sulf along ribbons	<5	<.2 12	<1	4 <1 7	1 0.18	<2 40
238 1409 Hill	G FL	Pyroxenite w/ po & cp ~1%	10	0.8 3050	71. a02.11.15.42 Vall. NOV. / 340/40	50 🎋 1 1100	196 2.07	CAL Chalos Translate Material Material
238 1456 Hill	G RC	Pyroxenite w/ cp & py	<5	<.2 1150		42 1 265	186 2.62	<2 <10
239 2712 Goddard Hot Springs	C 0.5 OC	Oz vn xcut Sitka Gw, feldspar, micas	<5	<.2 ∘ −3 ₹		6 <1 /2	· · · <1 · 0.22 ·	
239 2713 Goddard Hot Springs	RC 2.5 OC	Monz-peg dike	<5	<.2 6		16 <1 4	1 0.35	<2 <10
239 2714 Goddard Hot Springs	G 0.25 OC	Sil zone in hn, 1% po	<5	<.2 60	2 /	28 * <1 - / 24	8 6.33	
240 2519 Goddard Hot Springs	Rep OC	Fest gd w/ blebs of py	<5	<.2 58		44 <1 7	6 0.75	8 270
241 2520 Goddard Hot Springs	• C 0.2 OC	Oz vn in gw w/ po to 1%	465	<.2 13	<2 :	32 4 4 5	3 0.74	92 160
242 2521 Goddard Hot Springs	C 0.4 OC	Qz lens near gd/gw contact	<5	<.2 4		32 <1 5	2 0.89	6 100
243 2037 Red Bluff Bay	PL 0.1 yd ³	Chromite/mag in concentrate	<5	<.2 47	4 1	38 -><1 309	41 1,68	8 430
244 2539 Red Bluff Bay	Rep 0.8 RC	Pyroxenite	<5	<.2 13	<2	12 <1 356	37 0.22	14 <10
245 2717 Red Bluff Bay	S 10x10 RC	Chromite layers in dunite	<5	<.2 22	<1	7 <1 1140	26 0.29	4 ₹10
246 2036 Red Bluff Bay	PC 8 pans	Chromite/mag in concentrate	<5	<.2 9	2 12	22 <1 209	42 0.19	4 <10
247 2537 Red Bluff Bay	Rep 0.5 OC	Dunite	36	<.2 17	<2	4 <1 992	48 0.11	86 <10
248 2538 Red Bluff Bay	Rep 20 RC	Qz vn on beach, po to 1%	160	<.2 46	<1	1 <1 8	3 0.11	54 <10
249 2532 Patterson Bay area	SS 🗫 🖂 😘	ALL THE MENT OF THE REPORT OF THE REAL PROPERTY.	10	<.2 92	5	71 1 45	22 2.8	14: +20
250 1419 Patterson Bay area	G FL	Fest qz w/ limonite in gs	20	0.2 31		16 1 18	9 0.79	12 10
251 2531 Patterson Bay area	SS		<5	0.2 102	10	43 1 20	11 -1.71	- 16 10
252 2035 Patterson Bay area	Rep FL	Sulf stringers/coatings in amphibolite	<5	<.2 66	a in the part of the companion of	36 1 17	13 2.91	<2 170
253 1468 Patterson Bay	Rep 0.4 OC	Sil band in tonalite w/ cp & ml stain	20	0.6 2150	<2 (30 /10 2	6 5.17	<2 <10
254 1422 Patterson Bay	G RC	Alt gs inclusion in tonalite, cp <1%	<5	<.2 534		54 2 36	19 2.27	6 120
255 2533 Patterson Bay	G 0.3 RC	Tonalite w/ sil zone, cp & ml	45	<.2 3100		13 23 4		32 7 60
255 2715 Patterson Bay	S FL	Sil gs, <1% cp, gp	50	<.2 730		51 109 3	10 2.53	4 20
256 2534 Patterson Bay	SS		<5			94 _ <1 32		
257 2535 Patterson Bay	SS	of the latter affects distrated and base in the number of sections for	90	<.2 28	26.5 14.4.53.500 ms 30.00 ms 400	53 1 7	15 2.57	112 80
257 2536 Patterson Bay	G State of FL	Sil rock w/ dissem po	970	<.2 50			11 0.6	
257 2716 Patterson Bay	S FL	Tonalite, <1% cp, ml, fest	20	<.2 1400	Charles THE CREW AND IN	50 2 4	6 3.16	<2 10
258 2034 Patterson Bay area	Rep 3 OC	Qz vns in sil gw, py		<.2 72		96 1 20		2) 120
259 2033 Patterson Bay area	S 0.7 FL	Chert, qz br, cp to 1%, py/po	<5	<.2 60	radional interpretability	58 <1 14	9 0.41	4 70
260 2434 Deep Cove	SS OF THE	Gw float in stream		<0.2 25			15 3.13	
261 2435 Deep Cove	SS	Gw & minor gs float in stream	<5	0.4 50	11 13	the same of the sa	24 2.29	25 138
262 2436 Deep Cove		Stream in gw	-5 ≤5	0.4 42			25 3.03	
263 2316 Deep Cove	SS	Stream in gw	<5	<0.2 29	5 1	THE STREET WANTED THE COMPARED	15 2.92	<5 256
264 2317 Deep Cove		Stream in gw		<0.2 29 <0.2 22		35 . 2 .42		
and the state of t		The state of the s	<5	<0.2 19	5 10	CONTRACTOR OF THE CONTRACTOR OF SHARE AND A CONTRACTOR OF THE CONT	17 2.46	19 156
265 2318 Deep Cove	SS * 66	Stream in gw		<0.2 19 <0.2 45		22 2 32		
266 2437 Deep Cove	SS .	Gw float in stream	2-4 11-366-1 70-3 - 60-301-80-4 1 1-366-5	C. Scheller (1997) 1 1 1 2 2 2 2 3 4 7 4 5 4 5 7 5 7 5 7 7 7 7 7 7 7 7 7 7	27 2 A 200 A 200 A 2 A 200 A 2	22 - 2 - 32, 39 2 16	9 1.92	5 122
267 2319 Deep Cove	SS SS	Gw float in stream	<5 <5	<0.2 14 <2 47				
268 1531 Mt. Muravief area		River 20' wide where sampled	· · · · · · · · · · · · · · · · · · ·		ا ۷	i - >1 23		. 24,7200

Map Sam Be B L Cas Cd i Ci 是 Fe Ga SiHg L K La Li Mg Mn Na Nb P Sb Sc Sn Si Ta Te 如何可可见了,以下V W Y Zi PluiPd
nol the leging ppm 1 % ppm ppm 1 6 % ppm
234 2233 <0.5 <2 <0.01 <0.5 423 0.46 <10 100 <0.01 <10 <0.01 100 <0.01
235 2228 <0.5 <2 0.01 0.5 256 0.74 <10 220 0.03 <10 0.02 40 <0.01 30 <2 <1 8 <0.01 <10 <10 <10 <10 <2 <10
235 2229 < 0.5 < 2 0.1 2 245 2.06 < 10 130 0.06 < 10 0.42 140 < 0.01 440 2 < 1 14 < 0.01 < 10 9 < 10
236 2781 <0.5 <2 0.21 <0.5 6080 3.35 <10 10 <0.01 <10 7.22 570 <0.01 <10 <2 2 <1 0.01 <10 <10 <10 <2 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10
237 1410 <.5 <2 1.12 <.5 128 5.46 <10 <10 0.01 <10 2.01 470 0.07 <10 <2 9 46 0.21 <10 <10 109 <10 5 4
237 1411 < 5 <2 0.49 < 5 488 4.05 <10 <10 <.01 <10 <2.95 165 <.01 <10 <2 3 1 0.01 <10 <10 <10 <10 <5 10 <5 10
237 1457 <.5 <2 0.06 <.5 381 0.63 <10 <10 0.05 <10 0.09 75 0.01 70 <2 <1 3 0.01 <10 <10 8 <10 <5 <2
238 1409 <5 6 0.05 0.5 325 8.47 <10 <10 <.01 <10 12.3 580 <.01 <10 <2 16 1 <01 <10 <10 <10 134 <10 568 238 1456 <5 <2 1.45 <5 72 7.24 <10 10 <01 <10 2.1 465 0.12 <10 <2 11 59 0.25 <10 <10 10 6 <10 <30 <12
238 1456 <.5 <2 1.45 <.5 72 7.24 <10 10 <.01 <10 2.1 465 0.12 <10 <2 11 59 0.25 <10 <10 106 <10 <30 <12 239 2712 0.5 \$2 0.52 <.5 58 0.19 <10 <10 0.11 <10 0.06 150 0.09 90 <2 <1 47 <01 <10 <10 <10 2 <10
239 2713 0.5 2 0.1 <.5 117 0.56 <10 <10 0.16 <10 0.12 120 0.06 40 <2 1 6 0.01 <10 <10 4 <10
239 2714 0.5 2 4.27 < 5 110 1.14 10 <10 0.2 <10 0.26 65 0.42 790 4 1 323 0.1 <10 <10 32 <10
240 2519 < 5 <2 0.07 < 5 56 1.87 < 10 < 10 0.54 < 10 0.48 230 0.02 220 2 5 2 0.14 < 10 < 10 32 < 10
241 2520 < 5 32 0.15 < 5 165 1.44 <10 <10 0.56 <10 0.47 215 0.02 230 <2 5 12 0.13 <10 <10 <10 43 <10
242 2521 <.5 <2 0.06 <.5 121 1.31 <10 <10 0.56 10 0.34 230 0.03 190 <2 4 4 0.1 <10 <10 30 <10
243 2037 < 5 8 1.24 < 5 4.8 9.19 < 10 0.04 < 10 3.4 880 0.11 160 < 2 11 26 0.13 < 10 115 < 10
244 2539 < 5 4 0.26 < 5 717 2.77 < 10 < 10 < 10 < 10 < 6.34 325 < .01 < 10 < 2 6 3 < .01 < 10 < 10 < 10 < 90 84
245 2777 < 5 8 0.07 < 5 1720 1.87 < 10 < 10 < 10 12.5 325 < .01 < 10 < 2 3 < 1 < .01 < 10 < 10 8 < 10 20 28 246 2036 < 5 2 0.07 < 5 34.4 * 2.84 < 10 10 < 01 < 10 221 460 < .01 20 < 2 1 1 0.02 < 10 < 10 30 < 10 60 24
The state of the s
247 2537 < 5 6 0.04 < 5 465 2.57 < 10 < 10 < 10 10.95 495 < .01 20 < 2 2 2 < 01 < 10 < 10 6 < 10 10 4 248 2538 < 5 2 0.06 < 5 216 0.77 < 10 < 10 0.02 < 10 0.11 40 < .01 40 < 2 < 1 4 < .01 < 10 < 10 7 < 10 < 5 < 2
249 2532 <5 2 0.71 <5 115 4.46 <10 20 0.12 <10 2.15 725 0.11 1050 <2 8 37 0.25 <10 10 116 <10
250 1419 < 5 <2 2.4 < 5 208 2.53 <10 <10 0.14 <10 0.52 435 < .01 80 <2 3 27 0.03 <10 <10 40 <10
251 2531 < 5 4 0.8 < 5 31 2.81 < 10 60 0.17 < 10 1.28 440 0.33 1260 2 5 96 0.19 < 10 10 76 < 10
252 2035 <.5 <2 0.49 <.5 87 4.23 <10 10 1.4 <10 1.44 365 0.09 740 <2 14 18 0.25 <10 <10 146 <10
253 1468 0.5 <2 5.91 <.5 118 2.44 10 40 0.01 <10 0.71 440 <.01 240 2 6 14 0.09 <10 <10 71 <10
254 1422 < .5 < 2 1.63 < .5 165 3.08 < 10 < 10 0.24 < 10 0.77 280 0.08 500 < 2 9 50 0.33 < 10 < 10 96 < 10
255 2533 <.5 <2 1.89 <.5 78 2.78 <10 30 0.26 10 0.34 345 <.01 520 <2 2 20 <.01 <10 <10 18 <10 255 2715 < 5 4 2.86 < 5 44 3.46 <10 320 0.16 <10 1.23 620 0.02 530 4 7 39 0.14 <10 <10 <10 75 <10
255 2715 <.5 4 2.86 <.5 44 3.46 <10 320 0.16 <10 1.23 620 0.02 530 4 7 39 0.14 <10 <10 75 <10 256 2534 <5 2 0.87 <5 69 3.95 <10 20 0.07 10 1.89 1210 <.01 780 <2 8 27 0.27 <10 <10 90 <10
257 2535 <.5 <2 0.65 <.5 9 3.12 <10 90 0.08 <10 0.78 1185 0.11 1110 <2 3 49 0.05 <10 45 10
257, 2536 < 5 2 376 < 5 39 3.26 < 10 70 0.19 < 10 1.19 795 0.02 600 < 2 3 188 < 01 < 10 < 10 11 < 10
257 2716 <.5 <2 2.74 <.5 73 2.71 <10 50 0.05 <10 1.13 650 0.03 420 <2 3 34 0.12 <10 <10 60 <10
258 2034 < 5 4 4.04 0.5 20 5.33 < 10 < 10 0.24 < 10 2.87 425 0.03 1840 < 2 14 110 0.05 < 10 < 10 142 < 10
259 2033 <.5 4 6.41 <.5 67 4.05 <10 <10 0.17 <10 1.93 1140 0.03 470 <2 6 279 <.01 <10 <10 28 <10
260 2434 \$5 0.38 0.4 54 4.08 8 29 0.42 11 60 1.45 622 0.04 2 \$5 6 \$20 23 \$10 \$10 0.17 112 \$20 5 \$1 2435 \$61 2435 \$65 0.31 0.4 36 4.77 4 73 0.25 11 25 1.04 1458 0.03 2 \$5 \$5 \$5 \$5 \$20 .25 \$10 \$10 0.07 73 \$20 5 \$1
201 2-00 - 0.01 0.4 00 - 7.01 0.4 00 0.01 0.4 00 0.01 0.01 0.01 0.
262 2436
264 2317 <5 0.12 <0.2 105 3.81 9 15 0.53 9 25 1.72 481 0.03 3 <5 6 <20 14 <10 <10 0.21 96 <20 4 <1
265 2318 <5 0.48 0.3 29 3.13 6 63 0.33 5 25 1.04 848 0.02 3 <5 <5 <20 31 <10 <10 0.17 67 <20 4 <1
266 2437 <5 0.31 <0.2 63 4.02 8 14 0.93 10 46 1.6 755 0.1 2 <5 6 <20 29 <10 <10 0.22 87 <20 4 <1
267 2319 <5 0.16 <0.2 40 2.9 7 36 0.33 5 19 1.11 497 0.02 3 <5 <5 <20 18 <10 <10 0.17 66 <20 3 <1
268 1531 4.5 17 4.5 10 10 29 0.77 4.0 1.46 485 4.01 730 42 7 8 0.15 4.04 10 10 10 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.

Man Sam Bare	Sam Sample San		gan est estate	e e e e e e e e e e e e e e e e e e e	40 - 350 - N	ooskals (Astrib)
no no a la la la Location	iype Lsize (fl) Lsite	s Arts - Esample description :	990) (990) (990)	pipin 88 loom 24 p	ga spanspores	PVTTA ETHER CONTROL VINE STREET STREET, STATE STATE STREET, STATE STATE STREET, STATE ST
269 9511 Deep Cove, W of	SS	Stream in gw & slate	<5 0.2		1 30	24 2.86 44 198
270 9512 Deep Cove, N of	SS	In muskeg	<5 4.<0.1	Separate and the separate of t	105 <1 32	15 2.47 / 18 383
271 2357 Deep Cove, NW of	C 0.8 FL	Qz vn	<5 <0.1	3 <2 11 3	2 2 14 15 <1 12	1 0.05 8 7
272 9564 Cliff Lake, N of	RC 0.3 FL	Qz.vn	<5 <5.1 <5 <0.1	11 3 8 <2	15 <1 12.**; 5 <1 8	4 0.6 5 5 772 1 0.65 <5 5
273 9563 Cliff Lake, N of	RC 0.5 FL C 0.6 RC	Qz vn Msv gz vn	<5 <0.1	6 <2	2 2 8	<1 0.02 1<5 2
274 2355 Deep Cove NW of 274 2356 Deep Cove, NW of	C 0.2 OC	Qz vn	<5 <0.1	5 <2	4 <1 9	<1 0.02 <5 10
274 2336 Deep Cove, NV 01	SS 0.2 00	Gw float in stream	20 <0.1		86 <1 39	14 2:35 21 434
276 2465 Deep Cove, W of	SS	Stream in meta gw	<5 <0.1	70 12 '	141 1 23	16 2.96 42 145
277 1420 Mt. Muravief area	G FL	Sc & gw w/ minor sulf	<5 <.2	106 <1	24 1 65	31 2.96 <2 160
278 1421 Mt. Muravief area	S FL	Metased w/ minor sulf, cp <1%	<5 <.2		46 <1 33	17 2.09 <2 100
278 1467 Mt. Muravief årea	G 0.3 FL	Fest qz vn w/ gw wallrock, sparse		 In the COMMITMAN Problem on Property of State State State State 	72 3 . 22 .	11 1.71 <2 90
279 1482 Mt. Muravief area	SS	Gs sc, pl & gs	<5 <.2		24 1 38	23 2.83 34 160 21 2.8126 150
280 1492 Mt. Muravief area	SS	PI, gw, minor qz	<5 <.2 <5 <.2	different and the control of the con	26	21 2.81
281 1483 Mt. Muravief area	SS ∀√S S	PI & gs float Mainly pi or slate	<5 <.2 <5 <.2			
282 1493 Mt. Muravief area 282 1494 Mt. Muravief area	SS	Mainly pl-slate, some gw	<5 <.2	TO STATE AND AND THE STATE OF THE PARTY AND ADDRESS OF WASHINGTON	130 1 29	22 2.76 20 160
283 1495 Mt. Muravier area	SS	Interlayered pl & gw	<5 0.2		46 1 38 1	27 2.76 500 110
284 1485 Mt. Muravief area	SS	Gw & pl	<5 <.2	47 2 1	08 <1 21	17 2.4 12 160
285 1484 Mt. Muravief area	ŠS	PI & gw outcrops	<5 <5.2	55 4	10 4 1 23	17 2.72 14 140
286 1486 Mt. Muravief area	SS	PI & gw outcrops	<5 <.2		110 2 29	20 2.58 22 180
286 1487 Mt. Muravief area	SS	Gw & pl	<5 0.2	en im a particular despendente en la compara en la compara de la compara	30 1 31 1	25 2.46 28 140
286 1496 Mt. Muravief area	G RC	PI w/ dissem & seams of po & py,	1-2% <5 <.2		100 <1 27	14 2.68 <2 310 29 3.01 30 110
287 1488 Mt. Muravief area	SS	Fest pl & gw outcrops	<5 0.2	 100 of the control of t	56 2 44 70 1 55	29 3.01 30 2110 45 2.63 42 70
288 1489 Mt. Muravief area	SS	PI & gw outcrops	<5 <.2 ************************************			13 2.1 × 1<5 181
288 9560 Mt. Muravief area 289 1498 Mt. Muravief area	Rep 3.2 OC SS	Gp sc w/ dissem sulf Interbedded pl & gw	<5 <.2	PRINCE TO EXCESS SECTION CONTRACTOR CONTRACTOR	146 1 46	32 2.3 42 30
289 1499 Mt. Muravier area	SS	PI w/ interbedded gw	<5 <2		54 1 45	32 2.48 44 50
289 2348 Mt. Muravief area	Rep 0.4 OC	Fest sil gw w/ py	<5 <0.1	237, 12 1 8 " 1 125 m 1 1 4 4 4 4 5 1 1 1 1 2 4 4 7 3	118 3 24	15 2.3 7 207
289 2349 Mt. Muravief area	Rep 1.2 OC	Fest zone in gw w/ clay & sulf	<5 0.2	35 9	62 2 12	8 1.98 7 128
289 2350 Mt. Muravief area	SS	Stream in fest gw	6 0.3		45 2 38	29 2.63 39 53
290 (2351) Mt. Muravief area	Rep 0.05 RC	Fest qz vn w/ qz crystals & trace n	of the control of the	" Production of the state of th	14 2 16	4 0.32 <5 2
291 9561 Mt. Muravief area	RC RC	Heavily fest gp sc	<5 0.2		97 3 20	12 2.21 <5 92
292 2352 Mt. Muravlef area	Rep 0.4 RC	Fest gw w/ sulf	<5 <0.1 <5 <.2	1 1 17 K 808 M MILL 1 15 KM 3 M 7 SULLEY	99 2 25 1	*16 2.04 6 * 99 17 3.03 32 90
293 1497 Mt. Muravief area	SS SS	Mainly pl w/ interbedded gw Pl w/ interbedded gw	<5 <.2 <5 <.2			29 2.89 30 150
294 1510 Mt. Muravief area 295 1490 Mt. Muravief area	SS	Gw & pl outcrops	<5 <.2	March Carlot and a Contract of the contract of the contract of	106 1 26	17 2.52 14 160
296 1511 Mt. Muravier area	G OC	Fest as	<5 <.2		132 <1 33	24 3:28 26 40
296 1512 Mt. Muravief area	G OC	Fest, alt, sil gs w/ minor cp (<1%)	<5 1	Sec. Jane 800 (0000 0000) - 11. 11. 11. 11. 11. 11. 11.	144 <1 109	28 2.49 72 120
297 1491 Mt Muravief area	SS	Pl, gs, & gw in float	<5 <,2		140 1 38	22 3.06 22 180
297 1530 Mt. Muravief area	G FL	Sil fest gs w/ sparse po & trace cp	<5 <.2	M43.09 (0.00) a 87.1 5 1 1 1 4 7 7 7 7 1 4 7 7 7 1 1 1 1 1 1 1	56 1 5	4 1.53 2 200
298 2353 Mt. Muravief area	C 0.4 OC	Fest qz vn w/ py	<5 <0.1	til sak sakti tivationities siden og en	72 2 14	7 2.48 1118 144
298 2354 Mt. Muravief area	C 0.2 OC	Fest qz vn w/ sulf	<5 <0.1	16 4	34 2 19	6 1.26 <5 128
299 9562 Mt. Muravief area	, RC RC	Fest alt volc	<5 <0.1	44 6	96 3 20	13 2.49 67 216
300 1429 Mt. Muravief area	G OC	Iron seep clay	<5 <.2	66 <1	86 2 11	6 1.81 26 70

Map Sam Be	M Bill A Cal	i Cd v	Cr T. L.	Fe ⊪ Ga	, Hg K	9 jLa ≝	.ig. JMg.	, Mn	⊴. Na 'k	Nb .	P № Sb §	Sc & Sn	Sr Ta	Te	TIST	TIME U EEV	. Wal	ay (1467) — Pillapo
the agreement of the control of the	ppm 4%		A. N. S. SOLO, CONTRACTOR CONTRACTOR		ppb 👫 %	Marie Transaction of the Control of	Conception of California Control	Market at the American	SAME AND STREET, STORAGE STREET,	Secretary Control of the Control of	SOME AND REAL PROPERTY.	CONTRACTOR AND	Professional Angel Course	CARTAGO, CO. A. (100, CLC) SIRRIGAD	Riverso executable additions	pm ppm ppm	CONTRACTOR CONTRACTOR CONTRACTOR	
269 9511	<5 0.19 *< 5 0.34	The first water and a second control of the	The state of the s	5.87 <2 3.59 <2	36 0.6 14 0	Street Street Street	50 1.4 34 1.4			4	<5 ** <5 **	7 <20		0 <10 0 <10		92 102	<20 `~20 ◆	9 <1
270 9512 271 2357	<5 0.34 <5 0.02	ar pana - g	er i stati se sekter	3,59 <2 0.27 <2	<10 0.0		34 1.4 <1 0.0	4.0	<0.04	<1		<5 <20	7.	1 47 4 70 1	0.10 0.01	7102 1	SAME ALL	<1 <1
272 9564	<5 0.08	White the test of the test	14 MI 100 MI 100 MI 100 MI 100 MI 100 MI	1.09 <2	38 0.	-W - 1984-1- 1		0.0	0.04	er and er e	C C C C C C C C C C C C C C C C C C C	<5 <20	Acres 1	10 1 - 1000 110 200	100 CO No. 21 NO.		1 1 1 1	1 <1.
273 9563	<5 0.98	1, 244 1, 244	no the state	0.4 <2	30 0.0	2 <1	<1 0.0	3 68	<0.01	1	<5	<5 <20	2 <1	0 <10 <	0.01	5	<20	1 <1
274 2355	<5 0.01	<0.2		0.29 <2	<10 <0.0)Í 🤝 <1	<1 <0.0	1 27	<0.01	<1	<5	<5 <20				<1		<1 <1 .
274 2356	<5 0.04	<0.2		0.36 <2	<10 0.0		<1 0.0	6 · 1 · 000	1001 10 11 11	<1		<5 <20		0 <10 <		1 		<1 <1
275 2477 276 2465	<5 0.36 <5 0.16	State of the State	 1988 SM KIR 1114 B 111 	3.29 <2 5.86 <2	<10 0. 25 0.	D1 1 7 7 7	32 1.4 47 1.5	W	0.04 0.02	3 · · · · · · · · · · · · · · · · · · ·	<5 <5	9 <20 7 <20	18 <1		0.21		<20 <20	7 <1 9 <1
276 2465 277 1420 <.5	E 1 AND S 400 CONTROL 1 AND 1 AND 1 AND 1	MINNEYS A NO. O.		5.76 10	11.4	100 mm 1 mm mm 1 1 1 10 1	47 1.5 1.8											5 71
278 1421 <.5	Activated (State of Control of State of Control	11. 2.1.51.77.33	que la musua de la marca	2.92 <10	and the series of the series of the series of the	.2 <10	0.7		5 12.00		80 <2	8	44				<10	
278 1467 < 5		1.1.1.00.00.00.00.000.00.00		2.85 <10	<10 0.3	diam'r a carl to	1.0	8 825	<.01	. 8	40 <2	6	135	7/8/12	0.06	<10 <10 80	<10	
279 1482 <.5		<.5		5.45 10	10 0.	7 <10	1.		W. S. S. S. S. S. W. 10		60 <2	5	20				<10	
280 1492 < 5	Reference of the Control of the Cont	A C 70 12 3 5 0 1 1 1 1 1	\$2.00m SUM	5.91 <10	25 0.8	医异性性 化铁矿 化	1.4			2 A. S. S. S. See.	60 4	5	8-8, 17 THE C		37.	dentas resultantas establicas.		
281 1483 <.5	Marie II Marie Company	<.5 *<.5		5.87 10 5.99 <10	<10 0.6 10 0.4	many courses of the control of the Co	1.5 1.3		e se la región de la la	50.1 m 1. m 10.750 m	50 <2 00 <2	5 ***	13 16	ng kataw		<10 <10 88 <10 <10 84	<10 * >10	
282 1493 <.5	the second of the second second second second	1. N. M. A. A. A. A. A. S. T. A.	general and a series	5.02 <10	32 0.5	aliference of the	1.4	65.7	40.00	A 40 m. S. J. J. J. J.	60 < 2	5	11	444,247	20, 57, 479	Karueweni turbati a zili 1	<10	
	<2 0.2		and the second second second	3.96 <10	14 0.4	40.00	1.3	55 54 4 1 T W			70 2	91.1.39	20			10 <10 83		
284 1485 <.5	provinces was a limit of	<.5	45	5.2 <10	10 0.5	7 <10	1.3	9 525	<.01	8	70 <2	4	9		0.1	10 <10 78	<10	
285 1484 <.5	5 <2 0.18	Stand of the control of	∞50 :	5.91. <10	s a caracter a 1925 per in a 1920 per	5 <10	1.4		<.01	4	90 2	4	11	9.80	. , .	<10 <10 84		
286 1486 <.5		<.5	48	5.8 <10	35 0.6		1.3		4		50 <2	4 24 5 2000 - 1128	19	18511 AT 16	7		<10	oo aa kaa ka a ka ka ka ka ka ka
286 1487 < 5 286 1496 < 5	0.22 3 <2 0.28		A 2	5.01 <10 4.25 <10	10 0.4 10 1.1		1.34 1.5				80 4 30 <2	4 6	10 15			:10 <10 82 :10 <10 92	<10	
287 1488 <.5				7.85 <10	March 20 and a feet of Charles				10 A 34 A		20 <2	err 5 - 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1.7°			10 <10 79		
288 1489 <.5	SHAPE TO SERVICE STORY			5.83 <10	23 0.	A		8 1145		11	00 4	4	14		0.07	10 <10 71	<10	Service and the service of the servi
288 9560	<5 0.21	<0.2	94 (3.62 <2	111 0.5	3 8	37 1.2	7 388	0.06	1989 0	Chapter of compact of the contract of	A44' (15	and the state of t			nd being many and a second	<20	9 <1;;
289 1498 <.5		<.5		5.71 <10	36 0.0		1.2	V 1000 2		11 May 12 May 2	90 <2	2	7 ::::::::::::::::::::::::::::::::::::				<10	
289 1499 <.5	and an extra contract for	. 44° ° 4° E B	1 11000 A 44 A 44 C 1 1 1 1	5.51 <10	32 0. ² <10 0.7	86.5	1.2 43 1.3		~<.01 0.06	10 4	50 4 <5	3 6 <20	- 8 15 <10	* 40 C. ST. 10	0.07 4 0.15	410 × 10 × 57	<10 <20	7 <1
289 2348 289 2349	<5 0.22 *** 5 0.12			3.82 <2 5. 36 <2	<10 0.7	Maria Part Laborator Maria	43 1.3 42 0.9	di sayar .	a Contra	- 4 '소 경 왕()		<5 <20				44		
289 2350	<5 0.12	4, 4, 1, 4, 2, 6,55%	a engligen nem t	5.47 <2	52 0.1	T 40 - 7 74 4 76	37 1.1		<0.01	3	Tandulance Charact	<5 <20	10 <10		0.07			11 <1
290 2351	<5 0.05		232	1.84 - <2	<10 0.0	5 1	5 0.1	6 318	0.02	^ 21 / .	<5	<5 <20	4 <10	0 <10	0.03	6	<20	2 <1 -
291 9561	<5 0.26			3.89 <2	102 0.3		36 1.3		AA A A A A	3		<5 <20	24 <10		0.11		<20	10 <1
292 2352	<5 0.24	war 46 harman being a fell and a	transferrences to a re-	3.7 <2	F 10 01 150 1 151 160	2 7	4.5		0.03	100	Marie Contract Contract of the	des Contracts				42		9 <10
293 1497 <.5	and a contract of the contract	<.5 <.5		5.92 <10	32 0.3 14 0.4		1.2 1.4	. as was co	1.00000 01.0000		90 <2 2 0 < 2	4	7 - 15		- March 1997	:10 <10 83 :10 <10 95	<10 ິຂາດ	
295 1490 <.5	可以大量的 "我们是我们就是我们的人,我们是一	<.5	City No. 2 Mars No. 1 to 1	4.95 <10	11 0.5	the formation of the files of	1.3	2 1 124 2	1 31 1 1 1	44 5 44 5	50 <2	5	9	.37432(37%)		10 <10 86	A. 1. 128 A.	
296 1511 <.5				3.38 <10		4 <10		6 635		_	80 2	-	21		0.14	10 <10 150	<10	
296 1512 <.5	S. A. A. C.	<.5	Andread to the same than the th	0.55 <10	<10 0.2	2 <10	1.1	8 2270	<.01	23	20 2	10	20			10 <10 323	AND DESCRIPTION OF A SECOND	COLOR CONTROL
297 (1491 . <.5	Super-contract materials and the super-	(96.0 p. G. 1) P. 3a	\$ new edglings of the Parish Lower To-	5.48 10	49 0.6	Sec. 2017	1.4	111	Action to the Section	2 85 16 1	00 <2	with Call to a control of	20		1.0	10 <10 92	12 20 10	di .
297 1530 <.5		<.5		2.11 <10	20 0.6	Contract to the Contract of th	0.9		1 3 1 1 mg 1 mg 1	** 11 19 44 W	80 <2	7 ≨7 ≺20 ∷	16	0 <10			<10 <20	6 <1
298 2353 298 2354	<5 0.57 <5 0.21	0.3 <0.2	Sear Order St. S. Sales I. T	3,27 3 2,08 <2	<10 0.4 <10 0.3	and the second	40 1,1 20 0,5			5 2	er stransmer er er	*/ < 20 ** < 5 < 20	20 <10	The second of the second	0.12		<20 <20	4 <1
	<5 0.21 <5 0.2		casta consert. The source of the	2.00 \2 1.12 <2	153 0	Eran valva valva i	A 100 A	100 at 1000 to 10	ALC: THE RESERVE OF		A 100 MA 100 M 100 M 100 M 100 M	<5 <20		0 <10 °		11 8 - 80 - 60 - 12 - 13 - 13 - 13 - 13 - 13 - 13 - 13	₹20	10 <1,
300 1429 0.5	STARLING PROGRAMMENT STARLEN	<.5	- 11 11 11 11 12 12 12 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	1.95 <10	10 0.2	[평. 1947년 - 10 6 680년	,,,	2 450	A	10	00 <2	3	13	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		 *** *********************************	<10	16 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4

					Secretary and the second
Map Same in the second second	Sam JSample Sa		74.0 St	er eta (180 an 240 - 1800). De 22 gant a gant - gant (1	ស្នារៈ ស្និតពេះ ½ ស្និតពេះ សិត្តពេ ស្តីពេក្ស ដែរ = ដែរ
ino ta no les la la catalita del ocation es la catalita	SC 18@ 5 OC	e Fel sc w/ bornite, cp	• • • • • • • • • • • • • • • • • • •		om pom 75. pom odni 32. 106. s.06. <2. 50
301 1427 Mt. Muravief, W Ridge 301 1428 Mt. Muravief, W Ridge	S OC	 (a) (a) (b) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	80 4.1 51		9 38 0.59 6 10
301 1428 Mt. Muravier, vv Ridge	C 0.3 OC		THE RESIDENCE OF THE PROPERTY		12 27 2.38 3 3 2 2 2 20
301 1471 Mt. Muravief, W Ridge	C 2.7 OC	graysaggray gray agrada saman na ta	the true of the second of the	88 * 90 1300 22 1	
301 1472 Mt. Muravief, W Ridge	Rep 2.5 OC		80 11.5 3 .	19 * 170 1400 * 26 🗱	90 467 0.09 3 <2 < 0
301 1473 Mt. Muravief, W Ridge	S 0.4 OC	control of the contro			79 420 0.3 <2 <10
301 11474 Mt. Muravief, W Ridge	Rep 0.2 OC	Msv sulf, po, py, cp, & sl	who was to use our whole every notify bear in the Children and it read to Secult addition		80 328 1.31 4 24 4 10
301 1475 Mt. Muravief, W Ridge	C 0.4 OC		<5 1.2 34		13 30 3.23 <2 70
301 2377 Mt. Muravief, W Ridge	G OC	 3.5 To 10 P. \$1 To 20 T	10 <0.2	officional propertions and a despiration with displaces residential contract of the forest con-	CASTONIAL LINGUISMA CO. 1992 - 4 & CONSTITUTION WITHOUT MICHIEF MARKET
301 2378 Mt. Muravief, W Ridge	G OC	· ·	8 <0.2		56 31 6.2 26 9
301 2379 Mt. Muravief, W Ridge	• G OC	 Strong Children and Children and Control of the Contr		- Children Carles - Control Court	59 38 1.43 4 5 618
301 2380 Mt. Muravief, W Ridge	G OC		<5 0.8 31 <5 0.3 11		33 34 5.59 <5 15 44 68 4.99 <5 31
301 9574 Mt. Muravief, W Ridge	G 1.3 OC Rep 3 OC	, a compagnition of the company of t	<5 0.3 11 7 0.7 21		17 52 3.81 <5 32
301 9706 Mt. Muravief, W Ridge 301 9707 Mt. Muravief, W Ridge	Rep 3 OC G № 0.3 OC		7 0.7 21 147 4.6 105		30 51 2:37 5 55 9.13
301 9708 Mt. Muravief, W Ridge	Rep 12 OC		The analysis of the control of the c		19 30 5.39 10 220
302 1433 Mt. Muravief, N Face	G OC				29 - 15 2:72 - 42 290
302 1435 Mt. Muravief, N Face	s oc	er Brång milland av til fra Men erderen her i har franskriver framse av der er er er er	<5 0.5 10	70 4 171 22 3	28 71 2.73 1125 40
302 1436 Mt. Muravief, N Face	G OC	Sil gs w/ 10-15% sulf, mainly po	320 0.3 10	00 1 123 31 2	238 49 1.98 4 1685 4 40
302 2392 Mt. Muravief, N Face	Rep 5 OC	Fest gs		· ·	33 26 1.99 12 61
302 9576 Mt. Muravief, N Face	Rep 4,4 OC		three and country of the contracts attracted that the community desired a reserve contract.	88 7 12 7 3 3	2-6 - 1-5-C - \$1,000,00000000,00000000000000000000000
303 1434 Mt. Muravief, N Face	Rep OC		<5 <.2	4 <1 2 <1	3 <1 0.07 2 <10
303 1444 Mt. Muravief, N Face	G OC	register from the control of the con	\$8.8 kg.g., 1, fo., 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	P. 35 Albert 25 or with P. P. S. et al. The P. Conservation (Section Section S	59 / 50 5.31 / 12 170
303 1445 Mt. Muravief, N Face	s oc		<5 <.2 17 ning ≈90 <.2 30		45 32 2.55 60 120 28 2.96 8 7.70
303 1446 Mt. Muravief, N Face	S OC	1985-1984 , S. OSLIGO (1983-1983-1994) - 19-3 SAN III - MARE 1984 (1985-1985-1985-1986-1986-1986-1986-1986-1	ning 90 <.2 , 30 <5 0.5 40	N. Tarak Colombia, La Carrier and Carrier and Land Colombia Colombia Colombia Colombia, Carrier Carrier Carrier Colombia, Carrier Carr	22 44 3.71 18 40
303 1447 Mt. Muravief, N Face 303 2393 Mt. Muravief N Face	S OC	The second secon			60 122 6.31 <5 4.8
304 1423 Mt. Muravief, SW Cirque	C 3.5 OC		<5 1.3 16	APPOINT AND TO SELECT THE CONTRACT OF THE PROPERTY OF THE PROP	7 7 3.23 <2 70
304 1424 Mt. Muravier, SW Cirque	S OC		<5 0.7 25		24 29 3.48 <2 110
304 1425 Mt. Muravief, SW Cirque	Rep OC	A LOS CAMPONES AND AND AND A LOSS		18 48 10 <1	7 3 0.22 <2 <10
304 1426 Mt. Muravief, SW Cirque	G RC	Metavolc br w/ cp (to 5%)	20 4.8 88	00 <1 380 +18 -	36 71 2.47 <2 4170
305 2366 Mt. Muravief, SW Cirque	s oc		<5 0.2 1		29 4 0.21 11 4
306 9536 Mt. Muravief, area	SS		96 (1) 1 1 1 1 1 1 1 1 1	CONTRACTOR CONTRACTOR CONTRACTOR STATES AND	30 . 22 2.64 . 46 193
307 1441 Mt. Muravief area	SS	Pl w/ interbedded gw & gs in area	- · · · · · · · · · · · · · · · · · · ·		63 32 3.07 22 80
307 1479 Mt. Muravief area	· SS	Fest pl outcrops in area	The state of the s	22 CONTRACTOR OF THE STATE OF T	25 18 2.72 38 370
308 1430 Mt. Muravief area	S FL	Qz-mica sc to semi-sc w/ minor sulf		45 <1 175 <1 50 <1 175 <1	87 37 3.67 58 320 17 56 3.68 254 260
308 1431 Mt. Muravlef area	G FL	Gs & gs-sc w/ minor sulf (po ~1%)	(15) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z. "C. "c." (f. f. a. a. a. sk. s.) skrommeta i merkmenn in grussemmenen.	14 8 3 <2 70
308 1432 Mt. Muravief area	G FL Rep 2.5 OC	Sil sc w/ minor sulf, po <1% Qz vn		90 3 14 <1	
310 1480 Mt. Muravier area	SS	PI & gs in float		05 2 94 1	85 35 2.61 36 100
310 1481 Mt. Muravier area	SS	Pl. gs, & gw in float			34 28 3.25 38 2200
311 1442 Mt. Muravief area	SS	Mostly pl w/ gw, minor gs	The second of th	95 6 134 <1	29 22 2.97 40 230
311 1443 Mt. Muravief area	SS	Pl, gw & gs	<5 <.2	diffill a scholadarieta and middiffer an accidate. The based deci-	44 29 2.91
312 2490 Mt. Muravief area	SS	Gw float in stream		26 16 120 <1	24 21 2.49 15 174
312 9537 Mt. Muravief area	SS 🐬		<5 <0.1*	37 10 117 <1	19 17 2.85 20 244

Table B-1. Analytical results of samples from mines, prospects, and occurences

Map Sam Bek Bi Ga Cd Cr 1/Fe Ga Hg VK Ca Li Mg Mn Na Nb P Sb Sc Sn Sr Ta Fe III TO U Vri W Y Zi PUPd no kno spom pom % pom ppm 1/4% ppm stopb 2.% pom ppm % ppm % ppm ppm ppm ppm ppm ppm pp
301 1427 4 < 5 < 2 0.29 3 274 8.09 10 10 0.88 < 10 2.48 735 0.05 500 < 2.26 19 0.18 < 10 < 10 201 < 10
301 1428 < 5 12 0.01 < 5 178 8.94 < 10 < 10 0.15 < 10 0.52 205 < .01 420 < 2 3 3 0.01 < 10 < 10 104 < 10 301 4470 < 5 < 2 0.28 3 132 14 < 10 < 10 1.05 < 10 1.37 470 0.04 510 < 2 11 17 0.13 < 10 < 10 128 < 10
301 1471 <.5 <2 <.01 5 7 >15.00 <10 <10 0.01 <10 0.01 45 <.01 <10 <2 <1 <1 <.01 <10 10 8 <10
301 1472 <5 <2 0.01 3.5 9 >15.00 <10 10 0.01 <10 0.03 150 <.01 <10 <2 <1 <1 <.01 <10 10 12 <10 301 1473 <.5 <2 0.05 7.5 24 >15.00 <10 10 0.04 <10 0.05 110 <.01 <10 <2 2 1 <.01 <10 10 35 <10
301 7474 \$5 Init* 0.44 11 69 >15.00 <10 10 0.56 <10 0.57 380 0.1 Init* <2 7 23 0.06 <10 68 <10
301 1475 <.5 <2 0.5 <.5 269 10.4 10 <10 1.1 <10 2.2 635 0.18 330 <2 29 34 0.14 <10 <10 172 <10 301 2377 \$\left\{5\) 6\ \left\{5\) 0.13 <0.2 104 3.46 \left\{2\) 13 0.62 12 33 1.22 641 0.06 2 \$\left\{5\) 6\ \left\{2\) 24 <10 <10 0.12 \$\left\{5\) \left\{2\) 7\ \left\{1\}\}
301 2378 <5 3.85 <0.2 236 6.76 6 25 0.05 <1 58 3.32 812 0.27 4 <5 13 <20 166 <10 <10 0.11 140 <20 10 <1
301 2379 <5 0.31 0.6 101 4.25 <2 <10 0.55 11 28 1.29 572 0.09 5 <5 13 <20 30 <10 <10 0.11 98 <20 18 <1 301 2380 <5 1.75 1.2 281 7.5 4 <10 1.31 <1 43 2.02 587 0.54 12 <5 20 <20 90 <10 <10 0.16 191 <20 5 <1
301 9574 \$5 0.86 <0.2 247 8.6 <2 178 0.76 1 57 3.94 1231 0.25 10 <5 31 <20 61 <10 <10 0.32 193 <20 17 <1 301 9706 <5 0.86 <0.2 246 12.6 <2 30 1.33 2 48 1.95 1058 0.38 10 <5 26 <20 67 <10 <10 0.17 210 <20 10 <1
301 9706 <5 0.86 <0.2 246 12.6 <2 30 1.33 2 48 1.95 1058 0.38 10 <5 26 <20 67 <10 <10 0.17 210 <20 10 <1 301 9707 <5 0.37 1.2 163 7.25 <2 27 1.13 4 65 1.93 134 0.08 8 <5 21 <20 10 <10 0.12 116 <20 10 <1
301 9708 <5 0.36 <0.2 288 16.24 <2 19 0.66 <1 64 4.09 1174 0.13 10 <5 27 <20 32 <10 <10 0.16 212 <20 5 <1
302 1433 <5 <2 0.21 <.5 114 4.3 <10 <10 1.02 <10 1.48 725 0.02 840 2 8 11 0.13 <10 <10 <10 <10 302 1435 <.5 <2 1.69 <.5 98 14.1 <10 10 0.34 10 1.22 1425 0.02 5530 2 5 36 0.06 <10 <10 272 <10
302 1436 <5 <2 1.43 <.5 59 10.4 <10 <10 0.39 10 0.92 3910 0.01 5390 <2 3 48 0.06 <10 <10 188 <10 302 2392 <5 2.09 <0.2 176 3.33 <2 696 0.44 <1 37 1.66 569 0.15 5 <5 10 <20 16 <10 <10 0.28 85 <20 11 <1
302 2392 <5 2.09 <0.2 176 3.33 <2 696 0.44 <1 37 1.66 569 0.15 5 <5 10 <20 16 <10 <10 0.28 85 <20 11 <1 302 9576 <5 0.27 <0.2 86 4.59 <2 16 1.78 12 52 1.47 687 0.08 4 <5 7 <20 14 <10 <10 0.2 91 <20 9 <1
303 1434 <.5 <2 0.01 <.5 145 0.27 <10 <10 0.02 <10 0.02 45 <.01 <10 <2 <1 <1 <.01 <10 <10 <10 1.3 <10 303 1444 <.5 <2 0.28 0.5 262 9.84 10 <10 1.3 <10 3.47 420 0.01 480 <2 10 5 0.18 <10 <10 216 <10
303 1445 < 5 2 1.3 < 5 131 9.63 < 10 < 10 0.49 < 10 0.99 600 0.1 540 < 2 5 51 0.1 < 10 < 10 95 < 10
303 1446 2.5 <2 1.38 <.5 151 4.86 <10 <10 0.47 <10 1.9 355 0.09 790 2 10 22 0.14 <10 <10 1.0 <10 <10 303 1447 <.5 <2 0.23 5 299 11.5 10 <10 1.42 <10 1.72 275 0.08 360 <2 25 12 0.2 <10 <10 245 <10
303 2393 <5 2.37 41:1 335 17:3 <2 693 1.45 <1 41 1.68 298 0.66 11 <5 35 <20 113 <10 <10 0.19 248 <20 4 <1
304 1423 <.5 <2 0.15 <.5 312 10.35 10 10 0.29 <10 2.58 310 <.01 270 <2 14 4 0.23 <10 <10 224 <10 304 1424 <.5 <2 0.13 4.5 310 10.1 10 <10 0.71 <10 2.82 370 <.01 350 <2 13 3 0.17 <10 <10 231 <10
304 1425 <.5 <2 0.03 <.5 245 0.59 <10 10 <.01 <10 0.18 125 <.01 20 <2 1 <1 <.01 <10 <10 12 <10
303 1426 <5; <2 0.31 1,5 300 9.13 <10 <10 0.53 <10 2.11 280 <.01 330 <2 9 4 0.29 <10 <10 168 <10 305 2366 <5 0.05 <0.2 299 0.94 <2 <10 <0.01 <1 3 0.15 73 <0.01 <1 <5 <5 <5 <20 1 <10 <1.0 <0.01 9 <20 <1 <1
306 9536 <5 0.32 <0.2 63 4.39 <2 <10 0.51 7 43 1.38 615 0.03 3 <5 8 <20 16 <10 <10 0.16 84 <20 7 <1
307 1441 <.5 <2 0.37 <.5 157 5.06 <10 11 0.4 <10 1.8 740 <.01 580 <2 8 13 0.18 <10 <10 109 <10 307 1479 <.5 <2 0.15 <.5 59 5.16 <10 35 0.53 <10 1.27 500 <.01 870 <2 6 11 0.12 <10 <10 97 <10
308 1430 <.5 <2 0.27 <.5 367 7.45 10 10 1.36 <10 1.58 825 0.06 580 <2 25 23 0.15 <10 <10 212 <10
308 1431 <5 <2 0.71 <5 416 7.49 10 10 0.96 <10 1.3 845 0.12 540 <2 22 51 0.13 <10 <10 187 <10 308 1432 <.5 <2 0.1 <.5 327 6.78 <10 <10 0.18 <10 1.82 910 0.02 740 <2 11 11 0.08 <10 <10 98 <10
309 1476 <5 <2 0.14 <.5 245 0.87 <10 10 0.03 <10 0.11 55 0.01 200 <2 <1 5 0.01 <10 <10 <10 6 <10
310 1480 <.5 <2 0.75 <.5 174 3.97 <10 11 0.36 <10 1.56 780 <.01 570 <2 6 14 0.19 <10 <10 93 <10 310 481 <.5 <2 0.37 <.5 65 4.69 10 16 0.5 <10 1.55 850 <.01 570 <2 7 17 0.22 <10 <10 107 <10
311 1442 < .5 < 2 0.26 < .5 66 4.56 10 10 0.57 < 10 1.45 630 < .01 640 < 2 7 14 0.16 < 10 < 10 104 < 10
311 1443 < 5 <2 0.39 <.5 102 4.67 <10 16 0.41 <10 1.59 695 <.01 650 2 6 14 0.17 <10 <10 100 <10 312 2490 <5 0.4 <0.2 36 3.56 <2 60 0.34 8 32 1.01 960 0.02 4 <5 6 <20 25 <10 <10 0.11 71 <20 8 <1
312 9537 <5 0.17 <0.2 41 4.59 <2 27 0.68 9 34 1.32 608 0.02 3 <5 8 <20 20 <10 <10 0.17 92 <20 7 <1

						Action Self Version 1886		500-47-Q4000000 (E-P-) 1
Map Sama sama a sama sa sa sa sa	Sam a Sample	Sam and the Control of the Control o		A(9)		An VIO N		1910: 1910: 1910: 1910:
To the house to the same recention was a second	CC resize (1)	PI & gw float	<5	<.2 8	CANADA CONTRACTOR OF THE PROPERTY OF THE PROPE	pal se ppan ppan 142 1 47	29 3.16	NAME OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.
313 1437 Mt. Muravief area 314 1477 Mt. Muravief area	SS 0.4	Ploutcrops in area			1 8	92 1 18		26 240
314 1477 Mt. Muravief area 315 1438 Mt. Muravief area	SS 0.4	PI outcrops in area	<5		24. J 72.000 J. T. A. P. P. J. B. 1. 600 64 9 100	122 1 22	20 3.24	
315 1436 Mt. Muravier area	SS	Fest pl outcrops in area	<5		1 12			38 240
316 1439 Mt. Muraviel area	SS	PI & sc in area	<5	<.2 3		102 1 25	15 2.91	
317. 2481 Mt. Muraviel area	SS	Stream in gw & slate	< 5	<0.1 - 11		135 1 70		22 233
317 2482 Mt. Muravief area	SS	Stream in gw & gs	10	<0.1 8	1971 years of the second of the expeditions	125 <1 61	35 3.33	
318, 1440 Mt. Muravier area	SS	PI & gw float	<5	<.2 3			21 3.55	26 • 170
319 2374 Mt. Muravief area	of refer or and a residence of the second	OC Fest qz vn in gw	<5	<0.1 3	29 x840x42 x 4 m36 m x 4 m 6 d 1 h	3 2 10	1 0.07	
320 9524 Mt. Muravief area	SS		<5	<0.1 4	6 8	188 1 <1 32	26 3.34	44 - 233
321 9525 Mt. Muravief area	SS	Stream in gw	<5	40 October 1973 See School	Control of the Contro	121 <1 35	23 2.97	
322 9526 Mt. Muravief area	SS	Gw float in stream	<5	<0.1 4	1 7 -	109 <1 32	19 2.81	19 341
322 9527 Mt. Muravief area	SS	ALL CONTROL OF THE CO	<5	0.5 5	4 7	115 <1 36	18 3.23	28 363
323 2478 Mt. Muravief area	SS	Stream was dry	<5	0.03 2	7 12	87 <1 21	10 2.75	22 163
324 2432 Deep Cove	SS	Gw float in stream	<5	<0.2 1		55 2 15	6 2.03	
325 2315 Deep Cove	SS	Stream in gw	<5		6 5	102 1 29	15 2.84	%; /* <5. ₹288
326 9528 Deep Cove	SS	Stream in muskeg	<5			124 <1 14	9 2.49	
327 2479 Deep Cove	SS	Stream in slate	<5	the second of the second of the	68.			141.208
327 2480 Deep Cove	SS		<5		9 11	63 <1 12		
328 9529 Deep Cove	SS		<5	0.2 2	 17. 17. 17. 17. 17. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	137 🕠 <1。 45	along coles , along occasion accomes accomes and the Carlo	900,000 Jan. C. C. ver 2757/2/ Jack Street (1780) 50
329 2433 Deep Cove	SS	Gw float in stream	<5 808-000 - 100-000-000-000-000-00-00-00-00-00-00-00		0 4	48 . 2 12	5 1.66	
330 2483 Fawn Lake, NE of	SS.	Gw float in stream	<5	<0.1 2		CARLOR CONTRACTOR CONTRACTOR		43, 200
331 9530 Jerry Harbor, N of	SS	andro established and entre	<5 -	<0.1 4		155 <1 64 142 <1 30	27 3.3	25 433
332, 9531, Elev. 607 Lake	SS.		Served (Section 1) Inspection Contractions	Mark Later Contraction of the Contraction		142 <1 30 132 <1 42	26 2.88	SHORT IN A 1 TO A CONTRACTOR SHOW WE SHOW
333 9535 Elev. 524 Lake	SS		<5 21			132 <1 42 134 - 1 34		
334 2464 Big Branch Bay Creek	SS	Gw float in stream	Re- Despitation was experienced as a contrate seems and a con-	0.3 (160 2 35	19 2.77	
334 9509 Big Branch Bay Creek	SS	Stream in gw	<5 < 5	<0.1		15 <1 6		4 15 162
335 9510 Big Branch Bay Creek	LONG HOLDER DESTRUCTION OF THE RESERVE THE THE	OC Msv qz vn in metaseds	< 5	<0.1 6		15	20 2.8	
336 9508 Big Branch Bay Creek	SS SS	Gw float in stream	<5	<0.1 3		126 41 25		
337, 2495 Snipe Bay, NE of 337 9543 Snipe Bay, NE of	SS	Jw lloatiii stiediii	<5	<0.1 3		116 <1 22	20 2.11	
337 9543 Snipe Bay, NE 01	SS		<5	<:2 1		76 <1 14		
339 2524 Snipe Bay	SS		<5	- 200 March 1998 32 March 1997	3 4	78 1 10	13 2.08	
340, 2523, Snipe Bay	SS		<5	<.2 2		98 1 20		
341 2522 Snipe Bay	The second of the control of the second of t	RC Norite w/ po, cp, pentlandite, to 20	27 March 1980 March 1981 1982 1982 1982 1982 1982 1982 1982	11 4.	RETURN A DELIVERY WITH TRUST AND COMPANY OF SERVICE	252 <1 7910	456 1.46	22 <10
342 2019 Snipe Bay		RC Qz vn w/ sc partings, py <1%	<5	<.2 1	9 <2	18 <1 7	2 1.23	<2 50
342 2020 Snipe Bay	And the second of the second of the second of	RC Qz vn w/ qz-bt-sc partings, trace p	Service action in commercial designations	<.2 1	C., a contact management	12 <1 6	1 0.61	2 40
342 2108 Snipe Bay	· ·- F	OC Bt sc w/ py stringer, clots, fest		<.2 3	7 <2	94 2 21	10 2.42	<2 450
343 2021 Snipe Bay		OC Qz vn w/ sc partings	<5	<.2 1		22 <1 4	2 0.62	
344, 2526 Snipe Bay	SS		<5	0.2 4	8 8 .	116 1 32	33 2.41	22 210
345 2466 Snipe Bay, NE of	SS	Gw float in stream	64			162 <1 22		
345 9513 Snipe Bay, NE of	SS		<5			101 <1 20		
346 9709 Snipe Bay, NE of		FL Fest qz vn w/ slate fragments & py		<0.1 3		18 <1 10	2 0.36	
347 2494 Snipe Bay, NE of	SS	Gw float in stream	. <5	0.2 8	0 11	164 <1 41	25 2.46	
347 9542 Snipe Bay, NE of	SS		<5	0.2 12	0 10	167 <1 52	31 2.61	30 81

ap Sam Be Bl. Ca. Cd. Cr. SEE Ga. Hg K. La Li Mg Mn Na⊨Nb. P. Sb. Sc. Sn Sr Ta Te ∏	THE U. V. LW. Y. 2 P. Rd
	ppm ppm ppm ppm ppm ppm ppm ppb ppb <10 <10 115 <10
710 7107 10 12 0,00 10 10 10 10 10 10 10 10 10 10 10 10 1	<10 <10 95 <10
115 1438 <.5 <2 0.15 0.5 51 5.34 10 21 0.73 <10 1.48 680 <.01 820 <2 8 11 0.18	 1. 1. 1. Problem 2019 and 1981 and
	<10 < 10 103 <10
116 1439 <.5 <2 0.22 <.5 66 4.44 10 <10 0.72 <10 1.53 550 0.01 760 <2 9 14 0.16	<10 <10 124 <10
117, 2481 0 + <5 0.59 <0.2 135 4.88 <2 28 0.46 4 37 1.62 850 0.09 4 <5 12 <20 35 <10 <10 0.18	110 <20 7 <1
117 2482 <5 0.61 <0.2 103 4.21 <2 46 0.5 4 33 1.49 919 0.1 4 <5 9 <20 45 <10 <10 0.15	The second secon
AND	<10 <10 111 <10
119 2374 <5 0.09 <0.2 344 0.68 <2 <10 0.02 <1 <1 0.02 48 0.02 <1 <5 <5 <20 3 <10 <10 <0.01	
20 9524 <5 0.52 <0.2 53 5.3 <2 30 0.58 9 51 1.59 674 0.03 5 <5 9 <20 29 <10 <10 0.18	Louis and advantage control of the second of the control of the second control of the second control of the second
121 9525	A STATE OF THE PROPERTY OF THE
122 19526	
122 9327	The second secon
124 2432 <5 0.1 <0.2 53 3.1 7 52 0.33 5 16 1.13 317 0.02 3 <5 <5 <20 11 <10 <10 0.13	The state of the s
25 2315 <5 0.26 <0.2 72 4.04 8 16 0.67 11 30 1.71 656 0.04 2 <5 6 <20 19 <10 <10 0.2	102 <20 4 <1
126 9528 <5 0.08 <0.2 38 3.05 <2 30 0.34 8 24 1.05 351 0.02 6 <5 6 <20 10 <10 <10 0.19	
27 2479 <5 0.14 <0.2 37 3.53 <2 28 0.56 8 25 1.04 515 0.02 4 <5 6 <20 11 <10 <10 0.18	The state of the s
127 2480 <5 0.07 <0.2 32 3.82 <2 38 0.28 7 18 0.86 291 0.02 5 <5 5 <20 9 <10 <10 0.16	
28, 9529 <5 0.42 <0.2 88 3.57 <2 35 0.6 6 35 1.55 898 0.03 4 <5 8 <20 17 <10 <10 0.18	Building and a self-building of the property of the self-building of the
l29 2433	The second common transfer and property and the second sec
30 2483	To the first control of the second of the se
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33 9535 <5 0.41 <0.2 59 4.62 <2 15 0.59 6 44 1.58 742 0.03 4 <5 8 <20 20 <10 <10 0.17	102 <20 8 <1
34 2464 < 5 0.23 <0.2 61 5.05 <2 15 0.56 8 47 1.55 602 0.02 4 <5 7 <20 15 <10 <10 0.15	88 <20 9 <1
34 9509 <5 0.23 <0.2 59 5.3 <2 20 0.62 7 47 1.48 649 0.02 3 <5 6 <20 18 <10 <10 0.13	
35 9510 % \$ 5 0.1 <0.2 140 0.87 <2 <10 0.02 <1 8 0.25 122 <0.01 <1 <5 <5 <5 <20 2 <10 <10 <0.01	The state of the s
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37 2495 45 0.47 <0.2 30 3.69 <2 24 0.34 8 33 1.17 702 0.02 4 <5 <5 <20 21 <10 <10 0.14	To provide the Control of the Section of the Section of the Control of the Contro
37 9543	61 <20 7 <1 <10 <10 59 <10
	<10 <10 79 <10
100 LOLI 110 LO 010 110 LO 0110 10 110 LO 0110 10 110 LO 0110 LO 0110 110 LO 0110 110 LO 0110 110 LO 0110 110 LO 0110 II LO 0110	<10 <10 87 <10
141 2522 <.5 0.29 2 2260 18.9 <10 <10 0.03 <10 1.73 105 0.07 480 16 6 10 0.21	to about a different and after the second and an expension of the second and a second a second and a second a
71 2022 10 0.20 2 2200 10.0 10 10 0.00 10	<10 <10 22 10
142 2020 <.5 <2 0.51 <.5 376 0.78 <10 <10 0.1 <10 0.16 175 0.06 280 <2 1 34 0.01	The control of the co
	<10 <10 111 <10
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45 2466 <5 0.4 <0.2 34 3.83 <2 22 0.47 8 32 1.24 710 0.02 4 <5 5 <20 26 <10 <10 0.16	THE STATE OF THE SECOND SECTION OF THE SECOND SECTION OF THE SECOND SECOND SECTION OF THE SECOND SEC
45 9513 <5 0.35 <0.2 36 3.35 <2 <10 0.6 7 31 1.24 545 0.02 3 <5 6 <20 22 <10 <10 0.16	64 <20 7 <1 9 <20 <1 <1
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47 2494	82 <20 9 <1
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Mao Sam will a second to the second	Sam Sample Sa		الكان المالات	(A) (2)	(180 × 200 × 1	View Rit 💌 s	90 av Astrice
no no se e la logatoria	i para sabia an	o Sample describitor		Latelan delatri	ne edelai delai	geni Golin e	900 75 Den 990
348 2463 Big Branch Bay Creek	SS	Gw float in stream	15	0.3 60		<1 39	
	#William - I will include the transfer with it is a few	A DESCRIPTION OF THE PROPERTY	ARMA BULL MAN AND CONTROL OF THE CON	こうがくしょ ねしゅうしん しゅうしょく あきりゅう	na makasan maggaran watan maggaran da Chana.		AND THE PROPERTY OF THE PROPER
348 9507 Big Branch Bay Creek	SS	Gw float in stream	<5	<0.1 38	7 120	<1 25	16 2.69 11 197
349 9506 Big Branch Bay Creek	SST	Stream in gw w/ qz stringers	<5	` ₹0.1 42 °	13 135	₹1: √41 · °	20 3.02 19 175
350 2462 Big Branch Bay Creek	SS	Gw float in stream	<5	<0.1 55	9 128	<1 31	20 2.97 12 227
	SS	SS LAUTH MISSIONARY VINISON FROM THE MANNEY MAY SEE THAT A STORY OF A STORY OF THE SECOND SEC	<5	<0.1 77			
351 9538 Big Branch Bay Creek, E of	STORE THAT IS NOT A CONTRACT OF SHARE THE CONTRACT OF THE CONT		BBM KBMB LAWLING LEB LOSTION SHOW DOLL FORDING F	20 - NAMES CAMPOST LANGUAGE L'ANTIGER L'ANTIGER L'ANTIGER L'ANTIGER L'ANTIGER L'ANTIGER L'ANTIGER L'ANTIGER L'A	1. Table 1 - 100 - NA C GROSSBALL SARSES SECTION	garanteen op more transfer om de tr	24, 3,41) 4 (8 87) 51
352 2491 Big Branch Bay Creek, E of	SS	Stream in slate & gw	<5	<0.1 52	11 138	<1 55	24 3.11 17 177
353 9534 Nakvassin Lake, NW of	SS T		* <5	<0.1 95	8, 165	<1 70	33 3.35 25 25 202
353 9704 Nakvassin Lake, NW of	G 0.6 FL	Sil bt sc w/ po & cp	17	0.3 138	29 248	3 92	50 5.12 <5 61
354 2338 Nakvassin Lake, NW of	Rep 0.4 RC	connection and one of the first and a second or property of the control of the co	· · · /<5	<0.1 ./177	100 - 100 - 100 - 100 Per 100 Bracks 100 - 100 Bracks 1		43 4.75
355 2489 Nakvassin Lake, N of	SS	Gw float in stream	<5	<0.1 44	9 115	<1 44	18 2.76 14 282
356 -2488 Nakvassin Lake, NE of	SS	Meta gw float in stream	<5	'≺0.1 [©] 22	6 -94	<1 30	15 2.46 9 309
357 2485 Port Herbert, N of	SS	Gw float in stream	<5	<0.1 22	10 119	<1 46	17 2.92 22 319
			_				
358 2484 Port Herbert, Nof	SS.		< 5"	. <0.1 25	10 133	1919a (1909a) ar in announ perhabitan younge par in	18 2.74 16 1302
359 2314 Port Herbert	SS	Gw float in stream	<5	<0.2 16	12 66	1 29	15 2.3 <5 156
360 2431 Port Herbert	SS	Gw float in stream	. <5	<0.2 23	5 77.	·≺1 - 31 - √	14 2.42 <5 1190
361 2487 Port Herbert, N of	SS	enter et interest in de la compression	<5	<0.1 36	7 122	<1 58	19 2.89 12 434
362 2486 Port Herbert, N of	SS - i	Gw float in stream	<5	<0.1 · 26			16 2.8 9 416
362 9532 Port Herbert, N of	SS		<5	<0.1 45	9 118	<1 45	22 2.96 13 307
363 2430 Port Herbert	SS.	Gw float in stream	<5	<0.2 30 \	-8 118	3 38	16 3.04 - <5 270
364 2429 Port Herbert	SS	Gw float in stream	<5	<0.2 15	5 86	2 33	10 2.59 <5 310
		Ow noat in stream				2 35 <1° 45° €	
365 9533 Port Herbert, Nof	SS		<5	`<0.1 23.	it in it. 35 th and the Selfrette received the self-the Profession in	Schools (2009) 100 - 200 Shahar Salah (2009) Brown 2000	COST CONTRACTOR AND
366 2428 Port Herbert	SS	Gw float in stream	<5	<0.2 17	9 88	2 35	12 2.58 <5 300
367 9705 Port Herbert, N of	G 0.5 RC	Fest qz vn	<5	<0.1 / 5	16 12	<1.7	<1 0.03 - 4 <5 179
368 2461 Big Branch Bay Creek	SS	Gw & gs float in stream	9	<0.1 38	10 108	<1 20	14 2.38 29 90
	SS	Gw float in stream	< 5	<0.1 47 \$			20 2.57 3 15 189
368, 9505 Big Branch Bay Creek	to recognize a comprehensive and a contract of the contract where		province contraction and the contraction of the con	Y SANDON LANDON SALS NO ALTHOUGH AND	erroden erwa (1 01.00 0), der eitig Landstand (1013 – 104 Mehr) betreit (1014 – 1014)	and the factor of the first control of the first co	
369 9544 Rudakof Mtn, SE of	SS	Stream in gw	<5	<0.1 46	10 112	<1 23	18 2.3 11 191
370 2496 Rudakof Mtn, S of	SS	Stream in gw	<5	<0.1 39	12 126	<1 26	17. 2,27
371 9710 Rudakof Mtn, S of	G 0.8 FL	Qz br vn w/ fragments of gw & po b	olebs <5	<0.1 23	23 58	3 14	8 1.34 1346 144
371 9711 Rudakof Mtn, S of	G 0.3 FL	Fest qz vn w/ slate fragments & su		<0.1 9 .	19 18	<1 12 75	1 0.18
	well-known to the first of the sound of the control		Princesses (Paggion and Austrian Austrian Control Anna Control - Maggior and Anna Anna Anna Anna	Carrier and entransfer which is a first age.	. William Starfer French and Bertant Ander 175 date 1 and B	ACCOMPANIES OF THE STATE OF THE	
372 9712 Rudakof Mtn, S of	G RC	Fest ribbon qz	<5	0.3 14	14 13	2 10	2 0.41 <5 41
372 9713 Rudakof Mtn, S of	SS	Stream in gw	. 8	0.3 90	23 145	3 42	26 2.23 38 82
373 2493 Snipe Bay, W of	SS	Stream in slate & ar	<5	<0.1 31	13 126	<1 26	19 2.93 11 219
374 2492 Elev. 1520 Lake, SW of	* SS	Stream in gw	43	₹0.1 28		<1 21 "	27 2.69 9 256
374 9540 Elev. 1520 Lake, SW of	SS	Chodin in gir	<5	<0.1 29	12 125	<1 25	23 2.58 7 278
		Services Control of the Control of Control o					
. 375 9541 Byron Bay, NE of	SS		<5	<0.1 18			13 2.35 7 7 246
376 2467 Byron Bay, head of	SS		<5	<0.1 2	6 59	<1 8	7 1.69 <5 202
376 9514 Byron Bay, head of	* SS		<5	<0.1 12	6 93	<1 13	14 2,39 7 5 278
377 2468 Byron Bay, S	Rep 0.4 OC	Qz feldspar vn dike w/ garnets	<5	<0.1 <1	3 13	3 4	1 0.4 <5 7
			-	<0.1 9			
377 2469 Byron Bay, S	Rep 0.4 OC	Qz lens w/ pinkish red stain	<5 -	Ch. 19005-6-127 (A.C. 1907)		5 7	
377 9515 Byron Bay, S	C 2.75 OC	Qz vn in deformed gw	<5	<0.1 3	<2 2	4 7	<1 0.05 <5 6
378 2470 Byron Bay, E of	'SS		6	<0.1 2	7 40	<1 6	4 1.11 1 1 <5 -6.55
379 2471 Troller Bay, head of	SS	Granite float in stream	<5	<0.1 <1	10 13	<1 3	2 0.35 <5 41
379 9516 Troller Bay, head of	SS	Stream in gs & fel int	<5	<0.1 7	3 34		
	basa anti basa basa 10 (1994) (1985) antara antara da antara antara antara antara antara antara antara antara a	I was a witness of the control of th	A LANGE AND A STOLEN OF THE PARTY OF THE PAR	Balance of the Albana Salar Service (1972) and the	2. A.	escription of the rest of the same and the second of the second second second	PS 1, 1, 1992 C. 20 Bittle 2004 P Strict State Courses at President Artist Parameter (President Parameter Artist Parameter (President Parameter Parameter Parameter Parameter (President Parameter P
380 2606 Redfish Bay	Rep 2 OC	Peg	<5	<0.2 <1	2 <2	<1 <1	<1 0.16 <2 <10
380, 2607, Redfish Bay	Rep 3 OC	Qz/peg zone	<5	<0.2 1	₹2 ,₹2	<1 2***	<1 0.08 < <2 4510

Table B-1. Analytical results of samples from mines, prospects, and occurences

Map Sam B	e Call	* Cd	Cr -	Fe T	Ga′	Hg.	K V	.a?Li	Mg≀	Mn	Na	⊈N6_1	P.J.Sb	Sc	Sn (Sr	Ta //T	a Pi	(CONT)	J. U. V	ži kW.	TY MZ	r Pt Pd
no Lino Lipo	m (ppm) = % - 4	ppm.	ppm.	% 4	opm -	ppb(% .p	pm :ppn	n 1 %	ppm	1,%1	ppm	ppm, ppn	n ppm	ppm	ppm j	opm pp	iù 🤻	s ippin	ppm pp	n ppm	ppm pp	m poo pob
348 2463	And the second s	<0.2	Section of the section of			20		8 37			0.04	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<		<20		<10 <		18		6 <20	8 : •	si -
348 9507	<5 0.24	<0.2	43	4.03	<2	<10	0.56	6 37	7 1.33	528	0.02	3	<:	56	<20	20	<10 <	0 0.	16		5 <20	•	•
349 9506	<5′ 0.34	<0.2	77	4.56	<2	18	0.49	7 4	1.6	714	0.02	3	</td <td>5 8</td> <td><20</td> <td>.17</td> <td><10 <</td> <td>0 Ö.</td> <td>17</td> <td></td> <td>2 <20</td> <td>. 7 .</td> <td>41</td>	5 8	<20	.17	<10 <	0 Ö.	17		2 <20	. 7 .	41
350 2462	<5 0.31	<0.2	60	4.56	<2	13	0.62	8 46	1.53	619	0.03	4	<	57	<20	16	<10 <	0 0.	18	ç	3 <20	9 •	•
351 9538	<5 0.4	<0.2	117	4.91	<2	17	0.41	5 48	1.82	626	0.02	. 3	</td <td>5 10</td> <td><20 ∶</td> <td>25</td> <td><10 <</td> <td>0 O.</td> <td>19</td> <td>10</td> <td>2 <20</td> <td>6</td> <td>d</td>	5 10	<20 ∶	25	<10 <	0 O.	19	10	2 <20	6	d
352 2491	<5 0.32		97	4.72	<2	24	0.48	7 4			0.02	4	</td <td></td> <td><20</td> <td>19</td> <td></td> <td></td> <td>15</td> <td>10</td> <td></td> <td></td> <td><1</td>		<20	19			15	10			<1
353 9534	<5 0.64	<0.2	133	5.24	<2	20	0.5	3 5	1.94	982	0.04	4	, K		<20	1964 1938	<10 <	0 0.	17	11	2 . 2.2%	1. a. c. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-1
353 9704	<5 1.66		415	7.01	<2	32	1.84	1 67	2 mar 1 mar 1 1 1 1		0.5	7	<			136			.24	13			<1
354 2338	<5 1.45	escaled a committee	Sec. 2015 W. S. W. S.	6.03	25800 8 12 12	30 3 M M M	Walter Council 25 489 April 1	A . 1.80 J. MORD V. 1.34.9	l 1.25			4	1 1 25	1 1000 1000 500	-35.8 cm a	Company of	<10 <	1	0.2	7.30° / 13		4	An Inc. 11 September Spillipper 5 1 1
355 2489	<5 0.41		85	3.92	<2	<10	0.52	6 34			0.03	4	</td <td>-</td> <td><20</td> <td>21</td> <td></td> <td></td> <td>17</td> <td>10</td> <td>and the same</td> <td>or announce and on the color of the</td> <td><1</td>	-	<20	21			17	10	and the same	or announce and on the color of the	<1
356 2488	.<5 0.38	A 82 - 4 0	60	######################################	<2 →	<10	0.61	\$ 1. MANGEMENT (1894)	Chickory, Salignanistra	Sur a comment	13 M. S. C. M.	. 3	</td <td>2011 (************</td> <td>to democratica de</td> <td> Seder 10 / 13 cm. a</td> <td><10 <</td> <td></td> <td>21 -</td> <td>400 L. J. S. SAMA, 300 157 17.</td> <td>C CONGRESS</td> <td>7</td> <td>RODANIA SALEMBER ORGANIA CANANA</td>	2011 (************	to democratica de	Seder 10 / 13 cm. a	<10 <		21 -	400 L. J. S. SAMA, 300 157 17.	C CONGRESS	7	RODANIA SALEMBER ORGANIA CANANA
357 2485	<5 0.33	LILLIAN DE L'ANGE CONTRACTOR	83	4.02	<2	26	0.59	8 36		was the second	0.02	4	<		<20	15	Statement State		.18	_	8 <20	-	
358 2484	<i>* /</i> '<5 ′ 0.35	<0.2	47	4.15	<2	37	0.54	7 37	7 1.25	1375	0.02	3	*	5 7	6.46.5 = 3.4 z	2250K.	<10 <	0 0.	17		6 <20	and the second of the second o	<1 · 🕌
359 2314	<5 0.21	0.2	66	2.93	7	99	0.28	6 19		1239	0.03	3	</td <td></td> <td></td> <td></td> <td><10 <1</td> <td></td> <td>12</td> <td></td> <td>1 <20</td> <td></td> <td><1</td>				<10 <1		12		1 <20		<1
360 2431	<5 0.26	CONTRACT AND THE CONTRACT	67	3.21	7	64	0.31	8 2	1.0 May 6.1 2 - 1	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	0.03	** 3 '	· · · <	26:00:00	e 4 . "" in 1566	4.35	<10 <1			: · · · · · · · · · · · · · · · · · · ·			
361 2487	<5 0.42		108	4.07	<2	12	0.66	8 40		690	0.02	3	<:	1947 54 4 - 27 5722 -	<20		<10 <1		.22		2 <20		<1
362 2486	0.00000 P. Jack Morris (1000000) P. P. S. S.	· · <0.2	95	3,72	<2	16	CO. 2 C 1 W.	a A Killiania is		2		3	<		0.500	1,12,473		0.00	18	africal and a second of the second	0 <20	-175 days	:1
362 9532	<5 0.25		83	4.11	<2	25	0.53	9 3		717	0.02	4	</td <td></td> <td></td> <td>A DESCRIPTION OF THE PARTY</td> <td><10 <1</td> <td> 04.54</td> <td>18</td> <td></td> <td>9 <20</td> <td>-</td> <td><1</td>			A DESCRIPTION OF THE PARTY	<10 <1	04.54	18		9 <20	-	<1
363 2430	and desired to service the result of a contract	68/69/2017	85	4.68	9	20		10 28			0.05	. 2	े ⁽ े (2 Sec. 41.5	6.440	4	<10 <	2,50	19	11	30.00	000 1 10 1	500 00 50 50 50 50 C
364 2429	<5 0.27		79	3.5	8	29	0.62	8 22		671	0.03	3	</td <td></td> <td></td> <td></td> <td><10 <1</td> <td>.1115.0961</td> <td>.23</td> <td>10 - 2005-140 - 1</td> <td>3 <20</td> <td>•</td> <td><1</td>				<10 <1	.1115.0961	.23	10 - 2005-140 - 1	3 <20	•	<1
365 9533	<5 0.27	<0.2	90	3.59	<2	11	0.59	8 3	3 1.58		0.02	4			William Sales I .	11.11 9 45.	<10 <	6700	21	en ingast.	6 <20	Apr 1 2	. Y
366 2428	<5 0.28		75	3.24	8	34	0.57	9 24		900	0.03	2	</td <td>·</td> <td></td> <td></td> <td><10 <1</td> <td></td> <td>19</td> <td>•</td> <td>2 <20</td> <td>•</td> <td><1</td>	·			<10 <1		19	•	2 <20	•	<1
367 9705	<5 0.01	M 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	249	0.26	<2		<0.01	<1 <	1		<0.01	্ধ	<	5 <5	George Till	200	<10 <1	6.70,	200 4 535.0	2.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	1,000 1,000	<1 *	Walter Walter American Community
368 2461	<5 0.18	VA 191 - AP 1 9 1 1 1 1 1 1 1 1	43	4.26	<2	21	0.25	7 33	We have		0.01	4	<			13		-	13		0 <20	6 <	•
368 9505	<5 0.32	les v	61	4.31	a to so there is	14	11717 - 1	7 3	where is a	46.75	0.03	3	. a	(17,00)	Section C.	12.50	<10 <1		2 4 . 1 . 120	A	26 - 1 - 1 - 1 - 1 - 1	. 6.64	11
369 9544	<5 0.2		41	3.9	<2	15	0.46	7 32			0.01	3	</td <td></td> <td><20</td> <td></td> <td><10 <1</td> <td></td> <td>13</td> <td></td> <td>4 <20</td> <td></td> <td><1</td>		<20		<10 <1		13		4 <20		<1
370 2496	<5 0.23	80ante.n. 840" - 12 1 1	'43	saning - J. Ber.	⊪<2 ⋅*	17	0.34	12,382.11	1,23	2,7	0,01	3	٠, ٢	1 200 200	2 11 15 17 17	1. 1. %	<10 <1			1,40,300,000,000,000	6 <20	Street Services and a service and	A. Series Charles and a con-
371 9710	<5 3.51		110	2.35	<2	<10	0.55	9 28	V 4 - 100 WOLLS IN	4 to 2 2 to 10 to	0.05	3	< ;>				<10 <1		.07		6 <20		<1
371 9711	Making C. Artion or Jandham A. A., And Thomas C. C.		270	0.79	September 15 15	<10		S 1. 15.1.15	0.04	A	<0.01	^**<1	(1.20g) 1,20g) 11	1 10 30 300	<20	and a second	<10 <	'w. San	01	1 10 11 12 17 17 17 17	STATE OF	. 2	Committee of the commit
372 9712	<5 0.05		295	0.84	<2	<10	0.11	2 (82		1 Nata 200	/> ::::::::::::::::::::::::::::::::::::		<20		<10 <1		.02 3.4 may 23		1 <20		<1
372 9713	on officials with other to a subject of	adduction of the Party.	40	4.87	. 0, 100	97	A	1 m - 1 m - 1 m	1.26	, -,	-3 - 1 - v	****	. 64 79 7.	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	160 VO		<10 <	400	113		4	10	do the country of Management Country of the control of
373 2493	<5 0.2		49	4.26	<2 ************	13	0.5	9 3		687	0.02	4 s tessokuni	< : 		<20	19	w 11		.19 22 100 00	-	5 <20		(1
374 2492	<5 0.28	COLOR TO THE SELECTION	4.25 American Sept.	7 KASS 12 TO 1	<2	35	0.59	7 3	20 000 000	- 200 to 200 to	0.02	4	*	T 9 72 7 8	<20	T	<10 <			7		Secure of the Cartesian Ca	THE GOOD PROPERTY OF
374 9540	<5 0.45		48	3.87	<2	26	0.7	6 39	N 11 00 100 10 1 100		0.02	3	>> 1907/34 - 1907/39	41 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	<20	32	the Market and the	1.00000000	.19 3.0 → %		6 <20	6	<1
375 9541	Surfacial September 1981 meters 1980 meters 1981 meter	the second	401	(>) 4. (1.1.)	<2 °	13	Sales Company Land Com	and the second	1.15	20000	0.02	4		- 2	<20	1 100	<10 <1		18	Angel Committee and Committee and		AND COLUMN TO	<1
376 2467	<5 0.12		32	2.48	<2	13	0.54	8 2		294	0.03	3	</td <td>08-862 A 2000 2000</td> <td><20</td> <td></td> <td><10 <1</td> <td>was a constant</td> <td>16</td> <td></td> <td>5 <20 9 <20</td> <td></td> <td>SOORY SOOR COMMENT SERVICE STORY CO</td>	08-862 A 2000 2000	<20		<10 <1	was a constant	16		5 <20 9 <2 0		SOORY SOOR COMMENT SERVICE STORY CO
376*,9514	as Make at the government and the state of contract of the con	commercial coloradological and Political	41	400 NO. 100 NO.	<2	SNAME 31256	0.85	CONTRACTOR OF A	1,2	3200-70, 64 Peri	0,03	· 49 · 11 · 1368	્ર ≺!	医多种皮脂肪的	Bet 12 20083	Service Burns	<10 <	100 m : 116	stratheer as 128		28 . r	2 SERESTION SOOM PLACE N	CARLOCALORAGE SERVICE SERVICE AND
377 2468	<5 0.04	AND DESCRIPTION OF THE PARTY OF	89	0.4	<2	<10	0.18	3 (egec well economic it were	0.1	<1	<br ************************************		<20		<10 <1	and the substitute of Co.	77	500 PER 000 PE	3 <20	4	2
377 2469	<5 0.11	British Contract of the Contra	165	0.94	" Add in " Residence	<10	0.21	2 12	ANTS BUTTER TO	128	0.05		· · · · · · ·	i andheri	१४७५ स्टब्स्ट सहरूता. इ.स.च्या	s. 1842 ser	<10 <1		04		公司的 1000 (1000 (1000))	1	<1 <1
377 9515	<5 <0.01	<0.2	240	0.37	<2	<10	0.02	<1 **	0.02	an arrestant to	<0.01	<1	< ! 		<20		<10 <1	ANY A GENERAL	C2000 AND 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 <20		•
378 2470	Bit as constructions about Where a certical Profession of the	986日 中一十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	20	22. 20. 20. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2. 8. 2. 11. 1.00 (Action to the second second	0.13	24 YOM - 15 C. T.	7 0.33		0.02	3	107.415 TO 1.	5 <5	r. 500 million		<10 < <10 <	W. 25 100 1	1 2 05		9 < 20 3 < 20	2 * 4	
379 2471	<5 0.08		11	0.47	<2	35	0.09	3 7		67	0.02	1 30.4669)> انت ۱۳۵۷ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵۲ (۱۳۵		<20 *~20		COLUMN DAVIS SUM	02Y 2011	**************************************		3 <20 8 <20		· · · 21
379 9516	<5 0.21	BBC. PELLINA	18	KARROTT TO C.	<2 >	<10	194.28 AND WILLIAMS	24×85 cm.	0.56	*NAMES AND C	0.04	2	40 4	2000 000 000 000	* ∠ U	4.3 M 125 N 1	<10 <1	A 26	2000 F 100 B	P - 88 . 46 P. C	1 <10		4
380 2606 <0	.5 <2 <0.01	<0.5	42	0.07	<10	30	0.17	<10	<0.01	5	0.02	A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	10 <	2 <1	environment in our	<1	andke viederi	< U.	.01 <10	· ≤ IU ≤		ORMAN OF SALLANDA (1995)	* 1585 F361 # 486 F308 (5 + 2 + 2 +

380*2607 <0.5 <2 <0.01 <0.5 193 0.2 <10 30 0.05 <10 <0.01 35 0.01 10 <2 <1 <1 <1 <0.01 <10 <1 <10 <1

							10. P. 100-W.0050000-1-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-					
Map Sam.		Sam, Sample Sam	A Section 18 August 18 Aug		Au	Ag Cu	PB	* 17401 1	Me Mi	(6%) AV		[5]
no ano	l oeallon s	rtypes size (ft) (site)	THE RESIDENCE OF THE PARTY OF THE PROPERTY OF THE PARTY O	le description	Manager of Company of San San San	Dbw sbbu	Control of the Contro	a droite	ppmappmis		1990	CONTRACTOR OF THE PARTY OF THE
	Redfish Bay	RC 5x10 OC	Peg w/ qz, mica, m		<5 > < 5		7 2	<2	<1 7	<1 0.23		<10
	Redfish Bay	RC 10x10 OC	Peg w/ qz, mlca, m		and the second s	day - Sales are 13 har miles	7 <2	CAPTER TO THE PARTY OF THE PART	· <1: . · 8	BOOK BOOK SOUTH WATER AND	**************************************	
381 2325	Redfish Bay, head of	SS	Gw & tonalite float		<5 ** <5 ***	<0.2 1 <0.2 1	8 4	60	<1 14	7 1.86		181
	Redfish Bay, head of	SS	Gw & peg float in s	tream	ASSESSMENT OF THE PROPERTY OF		SECTION STATES SERVICE SERVICES	62.		7 11.89		
	Redfish Bay, head of	SS	Gw float in stream	B 4-2-112-0-43	<5 <5	ANNERS SEE SEA SEA SECURIO DE SE SA	4 11 4 8.	63 35	2 13 2 7	6 1.86	<5 ₹5	182
200 G. 154690050 2 224574 13764 13	Redfish Bay, head of	SS A CONTRACTOR	Small drainage, gw	** The Machine Foundation of the Decision of Communication and Association and English and Communication and Communic	C0090	6.88300190908490.50400. · · · · · · ·	armed archaect are	sach and behavior and the	<1 4	1،12 2 0.6	a pudgonow mance pudnight cerus and	out deposite to the contract.
	Redfish Bay	ss ss	Gw & tonalite float	CONTRACTOR OF THE PROPERTY OF	<5 <5		2 4 4 6	20		18 2.25	-	102 289
	Redfish Bay Big Branch Bay	ss	Gw & hn gw float ir	oat in stream	<5	200 (42' 48' a.m. 10' a.	9 10	160	3 44	19 2.89	A	280
	Big Branch Bay	SS	Gw float w/ some of	and appropriate the property of the property o	<5		8 10		2 26	15 2.85		
	Big Branch Bay	SS	Gw & hn gw float ir		<5	subject the second of the	2 11	182	2 35	21 2.99		232
	Big Branch Bay	SS	Gw & minor slate fl	Company of the Compan	<5		6 7	117		12 3.12		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Big Branch Bay	SS	Gw float in stream	out in succini	<5	AND THE RESERVED TO A SECOND SECOND	7 8	111	2 29	13 2.78		292
	Tumakof Lake, N of	SS	Gw float in stream		ं< 5		6 12		<1. 15	13 2.6		
	Tumakof Lake, N of	SS		San Carlotte and the Comment of the Section Comment of the Comment	<5	<0.1 1	AMPRO 1819, 70900 18 MISS	112	<1 20	23 2.52		258
	Big Branch Bay, head of	SS	Stream in gw		* < 5	<0.2 : 3			2 24	12 2.38		
	Big Branch Bay, head of	SS	Gw outcrop in vicin	ity	6	<0.1 4	2.1838/St. 0.262.1.25.2088.9443/588.0	145	1 29	18 2.43		364
	Big Branch Bay Creek	SS	Gw & slate float in	THE RESERVE OF THE PROPERTY OF	38	<0.1 6	8 9	130	*<1 28	17 2.57		
	Big Branch Bay Creek	SS	Control of the second of the s	the state of the second state and the second	<5		6 8	136	<1 30	18 2.93	14	198
394 9501	Big Branch Bay Creek	SS			<5	<0.1 1	5 10	120	1 21	14 2.42	18	355
395 2459	Big Branch Bay Creek	SS	Gw float in stream		<5	<0.1 4		116	<1 28	14 2.7		181
395 9502	Big Branch Bay Creek	SS	Gw exposed nearb	y _′	<5		3 11.		<1 18	21 2:54	1. 42% - Nano : 4040 9449 (20)	
	Baturin Lake	SS	manda and an analysis of the second for the	con the control of a control of the	<5	<0.1 2		105	<1 19	16 2.49		401
	Baturin Lake	'SS'			2 2 2 2 2 2 2 2 2 2	<0.1 3		" Your . I' hell will don't ?	<1 21 ³³			
	Big Branch Bay Creek	SS	Gw float in stream	and a second	<5	0.3 8		159	1 43	27 2.76		199
	Big Branch Bay Creek	\$ \$	Gw float in stream		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	<0.1 4	SWOTE DOWNERS OF STREET	125	<1 44	20 2.96	Green on CATTERNAMENTS FARE	
	Big Branch Bay Creek	SS	Gw float in stream		<5 	<0.1 3 <0.2 13		117	<1 26 2 64	15 2.48		199
Str. 32 Sept. Of Sept. 2011 Sept. 500	Port Herbert	SS	Dry stream w/ gs fl	24 1 24 6 5 3 4 4 2 5 2 5 40 6 40 6 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10000 1 60 MS 2304 M - 2 M 600 M	448 S. 100 SUSTANIO STANIO SUSSICIO	\$1,20,00 (0.00) TO TO TO TO THE STATE OF TH	9 2000 P. S.	Like Control 1990 to Like Little Strategie Control	41 2.85	NEXAMEDINE COLUMN SOUS SOUS CONTRACTORIOS	
	Port Herbert	SS	Gw & gs float in str	eam	<5 <5	<0.2 6 <0.2 1		108 74	2 56 1 24	29 3.03 8 2.19		119 164
2.00mm, 2.00mm	Port Herbert	SS	Stream in gw		CHARLES - C. P. MAR 1987 25. 1. 27.304	<0.1 4	7 Brazilia - Priz 200 de 200 grando 200 de	1 4 129	<1 32	18 2.46		229
	Port Herbert, S of	SS SS	Msv qz float in stre		<5 23	<0.1 4		101		13 2.82		
	Port Herbert Port Herbert	SS	Gw & qz float in str	SALLES TO STATE AND ADDRESS OF THE PROPERTY OF	<5	<0.2 2		103	1 25	12 2.59		264
The common throughout the decident to	Port Herbert	SS.	Stream in gw	cam		<0.2 5				16. 2.82		
. 3.2 (2005), a. 15.5a. 2.5a.	Port Herbert	SS	Gw float in stream		<5	<0.2 3	Marie Control and Marie Control	115	2 40	15 2.67		220
	Port Herbert	SS	Gw float in stream				5 8	127	1 53	17 2.97		
	Port Herbert, S of	SS	1.450 St. 1.40 to 1.650 1.450 1.40	2	<5	<0.1 2		114	1 37	15 2.86		211
	Port Herbert	SS	Gw float in stream	arrosenia a sa ersneg ist	<5	0.2 - 4		145	2 45	23 3.09	* * 23	210
	Codfish Cove	SS	Gw float in stream	compagning of the second of	<5	<0.2	5 4	51	<1 16	5 1.72	<5	81
	Lake Osprey, W of	SS	Stream in gw		<5	<0.1 5	6 7	113	<1 43	21 2.73	87	231
1 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Lake Osprey, W of	SS		Annual Control of the	<5	<0.1 4	7 8	119	<1 42	20 2.59	7	228
	Big Port Walter	SS	Gw float in stream		<5	<0.2 3	0 6	99	3 29	14 2,65	<5	189
4 11 200 ONL 00-00 NO	Elev. 1525 Lake	SS	Gw float in stream	A SECTION OF THE PROPERTY OF T	<5	<0.1 4		118	<1 26	16 2.44		171
414 2418	Big Port Walter	SS	Gw float in stream		<5	<0.2 2	9 8	111	2 25	15 2.69		
414 2419	Big Port Walter	SS	Stream in gw		<5	<0.2 3	1 8	99	2 21	12 2.55	<5	130

Mapa Samu Bessu Bit - Calles Cot Section (Fed Scale High at K Land Ling More Mini Nation Brooks Scale Street Tall ite.	
no. From ppm, 7% - ppm, ppm, 7% - ppm, ppm, 200 - 20 ppm, ppm, ppm, 200 ppm, ppm, ppm, ppm, ppm, ppm, ppm, 380 2782 <0.5 2 <0.01 <0.5 145 0.35 <10 20 0.15 <10 0.04 20 0.02 40 <2 <1 <1	C * ** ** ** ** ** ** ** ** ** ** ** **
380 2782 < 0.5 2 < 0.01 < 0.5 145	<0.01 <10 <10 1 <10
381 2325 <5 0.15 <0.2 33 2.61 5 14 0.6 7 19 1.05 389 0.02 2 <5 <5 <20 10 <10 <10	0.15 59 <20 4 <1
381 2444 <5 0.11 <0.2 34 2.81 6 14 0.62 7 22 1.06 388 0.02 2 <5 <5 <20 9 <10 <10	0.16 62 <20 3 <1
381 2445 <5 0.17 <0.2 40 2.54 7 48 0.58 5 29 1.11 290 0.16 3 <5 <5 <20 28 <10 <10	0.17 69 <20 2 <1
382 2324 <5 0.07 <0.2 25 1.3 5 26 0.3 3 11 0.7 202 0.02 2 <5 <5 <20 11 <10 <10	The state of the s
383 2443 <5 0.05 <0.2 16 0.72 4 14 0.32 <1 10 0.34 141 0.02 2 <5 <5 <20 7 <10 <10 384 2442	0.09 22 <20 1 <1 0.2 76 <20 3 <1
385 2446 <5 0.39 <0.2 48 4.16 8 11 0.79 10 37 1.54 811 0.03 2 <5 6 <20 28 <10 <10	0.21 84 <20 5 <1
386 2326 <5 0.41 0.2 52 4.11 8 23 0.83 9 26 1.51 748 0.03 3 <5 6 <20 31 <10 <10	The second secon
387 2447 <5 0.41 0.2 47 4.6 8 32 0.59 12 37 1.58 1022 0.03 3 <5 5 <20 36 <10 <10	0.19 87 <20 6 <1
388 2328 <5 0.17 <0.2 52 4.11 9 12 0.81 10 24 1.62 664 0.02 2 <5 5 <20 20 <10 <10	0.22 88 <20 5 <1 (24)
389 2327 <5 0.4 0.3 48 3.57 8 29 0.76 9 33 1.36 732 0.02 3 <5 5 <20 31 <10 <10	0.2 77 <20 5 <1
390 2500 < 5 0.15 <0.2 38 3.41 <2 37 0.67 8 28 1.11 519 0.02 5 <5 6 <20 43 <10 <10 390 9548 <5 0.21 <0.2 41 3.37 <2 20 0.58 8 28 1.06 698 0.03 4 <5 6 <20 18 <10 <10	0.18 73 <20 6 <1 0.18 72 <20 7 <1
390 9548 <5 0.21 <0.2 41 3.37 <2 20 0.58 8 28 1.06 698 0.03 4 <5 6 <20 18 <10 <10 391 2448 <5 0.2 <0.2 49 4.08 6 <10 0.57 8 26 1.57 606 0.05 2 <5 <5 <20 17 <10 <10	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
392 2457 <5 0.33 <0.2 46 3.99 <2 13 0.88 7 39 1.39 612 0.03 4 <5 7 <20 19 <10 <10	0.18 81 <20 8 <1
* The state of the	0.15 75 <20 7 <1
393 9500 <5 0.27 <0.2 54 4.63 <2 15 0.53 8 43 1.54 539 0.03 4 <5 7 <20 18 <10 <10	0.18 91 <20 8 <1
394 9501 <5 0.22 <0.2 47 3.71 <2 <10 0.8 7 30 1.25 556 0.02 4 <5 7 <20 13 <10 <10	The state of the s
395 2459 <5 0.21 <0.2 53 4.56 <2 12 0.49 7 39 1.4 471 0.03 4 <5 6 <20 15 <10 <10	0.16 82 <20 7 <1 0.16 76 <20 8 <1
395 9502 <5 0.21 <0.2 39 3.88 <2 19 0.58 9 35 1.36 779 0.03 3 <5 6 <20 18 <10 <10 396 9549 <5 0.26 <0.2 43 3.33 <2 32 0.79 7 31 1.27 715 0.03 4 <5 7 <20 18 <10 <10	0.16 76 <20 8 <1
	0.14 65 <20 6 <1
398 9503 <5 0.27 <0.2 47 5.26 <2 24 0.6 7 42 1.41 791 0.02 4 <5 6 <20 20 <10 <10	0.15 78 <20 8 <1
399 2460 <5 0.37 <0.2 88 4.46 <2 15 0.56 7 43 1.76 677 0.02 4 <5 9 <20 15 <10 <10	of after more and an artist of the second of
399 9504 <5 0.26 <0.2 53 4.13 <2 12 0.58 6 39 1.39 575 0.03 3 <5 6 <20 14 <10 <10	0.15 75 <20 6 <1
400 2313 <5 0.86 <0.2 98 4.42 5 57 0.35 8 31 1.86 1403 0.03 1 <5 6 <20 19 <10 <10	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400 2427 <5 0.64 <0.2 132 4.82 7 11 0.43 10 30 2.2 816 0.04 1 <5 8 <20 17 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	0.19 108 <20 4 <1 0.17 71 <20 4 ≤1
401 2426	0.17 95 <20 7 <1
403 2312 <5 0.58 <0.2 94 3.8 9 30 0.63 8 23 1.86 902 0.02 2 <5 7 <20 23 <10 <10	A CONTRACTOR OF THE CONTRACTOR
404 2311 <5 0.53 <0.2 50 3.76 7 14 0.59 8 22 1.66 806 0.03 2 <5 5 <20 23 <10 <10	0.22 77 <20 4 <1
405 2425 35 0.3 0.3 86 4.12 7 <10 0.59 12 40 1.79 749 0.11 1 <5 7 <20 26 <10 <10	0.17 96 <20 5 <1
406 2424 <5 0.75 <0.2 76 3.97 8 16 0.68 10 35 1.75 757 0.16 1 <5 6 <20 50 <10 <10	0.18 84 <20 5 <1
407 2423 <5 0.52 <0.2 86 4.39 8 25 0.59 14 32 1.9 1008 0.04 2 <5 7 <20 26 <10 <10	The property of the second
408 2332	The state of the s
409 2422	0.09 47 <20 4 <1
411 2497 <5 0.5 <0.2 87 4.79 <2 <10 0.51 5 37 1.76 562 0.02 4 <5 9 <20 19 <10 <10	The state of the s
411 9546 <5 0.47 <0.2 84 4.57 <2 <10 0.52 4 34 1.65 536 0.02 3 <5 8 <20 17 <10 <10	0.21 107 <20 7 <1
412 2420 <5 0.3 <0.2 70 4.12 7 <10 0.49 9 27 1.69 691 0.05 2 <5 5 <20 18 <10 <10	THE PROPERTY OF THE PROPERTY O
413 2498 <5 0.23 <0.2 44 4.12 <2 13 0.52 6 37 1.33 573 0.01 3 <5 5 <20 15 <10 <10	0.14 70 <20 7 <1
414 2418 <5 0.2 <0.2 59 4.27 7 <10 0.52 10 29 1.67 762 0.03 2 <5 <5 <20 15 <10 <10	0.16 83 <20 5 <1
414 2419 5 0.19 <0.2 52 4.23 6 26 0.37 7 23 1.57 600 0.02 3 <5 <5 <20 15 <10 <10	0.15 77 <20 5 <1

			IN COMPANIES OF A SECURIAR	
Map Sam Sample	Sample description		% ocu - ocu - no	
no Pano Million Location (1997) Type: Size(II) 415 9547 Elev. 1525 Lake drainage SS			10 151	1 35 29 2.49 30 245
416 2323 Big Branch Bay SS	Gw, slate & qz float in stream	<5 <0.2 49	7. P. Barton Committee of the Committee	2 31 15 2.71 8 313
416 2329 Big Branch Bay SS	Gw & minor slate float in stream	<5 <0.2 43	5 129	2 32 16 2.67 . \$5 \$307
416 2449 Big Branch Bay SS	Hned gw float in stream	<5 <0.2 35		1 28 14 2.51 <5 292
417 2330 Big Branch Bay	Stream in gw w/ qz stringers	<5 0.6 10	<2 60 .	1 9 11 1.13 93 110
418 2322 Big Branch Bay SS	Gw+G809 & minor slate float in stream	<5 0.3 25		2 21 15 2.67 <5 301
418 2441 Big Branch Bay SS	Stream in gw	<5 <0.2 15		2 16 9 2,32 55 272
419 2499 Borodino Lake SS	State & gw float in stream	<5 <0.1 28		1 23 19 2.78 11 264
420 2417 Sashin Creek SS	Gw float in stream	<5 <0.2 11		2 23 7 1.9 %<51
421 9550 Toledo Harbor, SW of SS	and the second s	<5 <0.1 12		1 19 15 2.14 19 64
422 9552 Sashin Lake, E of SS		<5 <0.1 55	Table of interesting in company and the party control of the party of the first section of the control of the c	1 39 14 2.11 31 31 36
423 2333 Sashin Lake SS	Gw float in stream	8 <0.1 44		1 37 18 3.14 24 200
423 2334 Sashin Lake SS	Gw float in stream	8 <0.1 65		1 44 23 23 2.9 20 20 205
424 9551 Sashin Lake SS		<5 <0.1 59 <5 <0.1 12		:1 40 18 2.49 18 180 :1 15 12 2:06 2 14.7.176
425 9553 Sashin Lake, SE of	OC Qz stringers to 4 inches wide	<5 <0.1 + 12		1 12 2 0.24 4 10
426 2530 Port Lucy Rep 427 2310 Port Lucy SS	Stream in gw w/ qz float			2 27 11 2.35 3 35 35
428 9554 Clarks Pond, E of SS	www.dziioataaa	<5 <0.1 47	 Prince Contract Rett Author Challe School and Charles of 	1 31 17 2.69 16 203
429 2416 Port Lucy SS	Gw float in stream			2 22 12 2.42 \$5 154
430 2309 Port Lucy SS	Stream in gw	<5 <0.2 65	70,000 - 11 TO CAN TO 1 TO	2 26 21 3.08 13 163
430 2529 Port Lucy C 3	OC Qz vn in gw		<2 2	1 5 <1 0.08 24 < 10
431 2415 Port Lucy SS	Gw & fest gs float in stream	<5 0.2 26	Committee and the committee of the commi	2 18 13 2.55 <5 96
432 2414 Port Lucy SS	Gw float in stream	<5<5<0.231	7 103	2 17 11 2.92 <5 173
433 9555 Port Lucy, N of SS		<5 0.2 79		1 23 27 3.23 9 177
434 2336 Port Lucy, N of SS	Stream in slate & gw	8 <0.1 22		1 18 15 2.6 14 252
435 2335 Clarks Pond SS	Gw float in stream	42 <0.1 57		<1 23 17 3.17 11 245
436 9557 Elev 1015 Lake SS		<5 <0.1 1,8	and the second s	1 14 12 2.4 4 56 260
437 2321 Little Branch Bay SS	Gw float in stream	<5 0.5 50		3 31 21 2.84 7 209
438 2439 Little Branch Bay SS	Stream in gw	<5 <0.2 37		1 28 28 2.64 5 1244
439 2320 Little Branch Bay SS	Gw, slate & qz float in stream	<5 <0.2 18		2 14 18 2.53 <5 155 2 16 20 2:22 \$5 189
440 2438 Little Branch Bay	Stream in gw	<5 <0,2 22	William and the second of the	2 16 20 2.22 5 (89 c) 1 17 13 2.72 6 336
441 2337 Little Branch Bay SS 442 2440 Little Branch Bay SS	takan da kan da kan da kan da kan	<5 <0.1 18		3 13 11 2.42 35 3172
The state of the state of the control of the control of the state of t	Stream in gw	<5 <0.2 16	recourt resource resources on an arrange and resource and resources	1 12 11 2.71 <5 218
443 9556 Driftwood Cove, NE of SS 444 2456 Puffin Bay SS	Stream in hn gw			2 16 17 2.37 <5 202
445 2455 Puffin Bay SS	Gw & tonalite float in stream	<5 <0.2 33		3 28 18 3.21 <5 352
446 2453 Puffin Bay SS	Gw float in stream			2 10 5 2.07 <5 131
446 2454 Puffin Bay SS	Gw & tonalite float in stream	<5 <0.2 14	California de de sua mante de sus destantes de la companya del companya della com	2 13 6 2.08 <5 177
447 2307 Port Lucy SS	Gw float in stream		8 65	1 12 12 2.36 47 158
447 2308 Port Lucy SS	Gw & qz float in stream	<5 <0.2 14	7 76	1 14 7 2.4 <5 189
448 2413 Port Lucy SS	Stream in gw	<5 <0.2 24	10 99	1 19 15 3.07 <5 235
448 2528 Port Lucy C 2	OC Qz vn w/ 1% po hosted in gw	<5 <.2 197		1 45 3 0.07 4 <10
449 2412 Port Lucy SS	Gw float in stream	<5 <0.2 26	·表示各种的1000年11日,1000年11日,1000年11日,1000年11日,1000年11日,1000年11日日,1000年11日日,1000年11日日	2 22 17 2.481 75 10
450 2411 Port Lucy SS	Gw float in stream	<5 <0.2 39		2 17 11 3.07 100 107
451 2410 Port Lucy SS	Gw & gs float in stream	<5 <0.2 18	8 83	2 20 7 28 H; <5 150

									10: 30 000 /0 00 00	er de les de la constante de	mar - Arcus acc	do o transcer							Section of the sectio				a - 27 has 1941 1	
Map Sam Be	J.B.	a (Cd	Cr II.	Fe C	(Ca)	Hg	K	La	Lije	Mg	Mn.	Na T	Nbe	P Sb	SC Sn	- Sr	la :	le v			v W		Pro Pol
415 9547		/•	opm <0.2	ρνη 42	4.2	ρμιι	18	0.6	141111111 7	νριτ. 43	1.41	PPM 823	PROPERTY OF THE PROPERTY OF TH	Para chairman and a 1 s		ppm "ppn 7 <2(P OOT PPOTP		9 <1	
416 2323		0.31	0.3	45	4.08	9	<10	0.96	13	37	1.62	729	0.03	1	<5	6 <20			<10	0.21	and the second second second	85 <20) 5 <1	Brancon Control Control
416 2329	· <5 (0.33	<0.2	47	4.28	7	.14	0.84	9	30	1.69	749	0.03	*2	< 5	6 <20	10 to	March Street	<10 /			86 <20	D. F. SOURSEL LANGUES STANS	2031/88/88/88/88/88/25/47 1.14
416 2449	<5 (0.33	<0.2	47	3.84	7	12	0.78	9	26	1.56	685	0.02	1	<5	5 <20			<10	0.2	NELINGET CHEARINE	80 <20		•
417 2330		1.20 20. 61	1.5	23	W. 1867. P. 11.	<2 9	52	0.15 0.79	<1 10	9 26	0.88 1.44	711	<0.01 0.03	3 3	37 <5	<5 \ <20 6 \ <20	Day Sugar	4 1 1/2 10 10 10 10	ະ 19 <10	0.1 0.21		44 <20 91 <20	Carana Lana Linakan mengentahan	Contraction of Contra
418 2322 418 2441	AND	0.22 0.18	<0.2 <0.2	51 45	3.94 3.12		32 17	* ** ** ***	9			536		2	<5	<5 <20			v. 900v. no. 1				3 <1	
419 2499		D.41	<0.2	45	3.86	<2	23	0.64	7	consistency of the	1.32	649	0.03	4	<5	7 <20	ter countributes a	day with the	0.000 W. J. 475	0.16	vasa 2), 34, 327, 121, 2011.	83 <20) 8 <1	
420 2417			<0.2	46	2.72	6	23	0.29	6	24	1.33	360	0.02	2	<5	<5 <20) 14	· <10	<10	0.12		8C-2-8-7-2-8	i 4<1	.
421 9550	<5	0.3	<0.2	33	2.98	<2	38	0.12		20	0.81		0.02	3	<5	<5 <20		<10	W. MANY A. LOW	0.11	Children (1985) - 188 Spilled B	59 <20		
422 9552	studoviskuliki i sali seni kuliku	0.19	872. Y Sweet 1	33	3.16	**<2 **	13	- Market Strategy	month sattle	26	11/4/25 1 8 "		2.3 x C. see No. 1	2	design of 14% of 21 c. i.	<5 <20	AN 1339 TO	2407 -	: 30m, 302/www.	7.77		29 <20 92 <20)	Parameter in addition to a the con-
423 2333		0.35	<0.2	73 62	4.4 4.49	<2 <2	40 23	0.42	8	35 42	1.52 1.56	814 696	0.03	4	<5 <5	7 <20 7 <20		<10 <10	<10 <10	0.18				
423 2334 424 9551	#10.00000000000000000000000000000000000).51).42	<0.2	62 67	4.26	~2 <2	<10	0.4	5	35	1.38	572	0.04	3	<5	6 <20	21/911 11/29/21	<10	· Acres (1) · A · ·	0.16	51. V d. 10.10.11.	19 <20	5 22 15 10 10 10 10 10 10 10 10 10 10 10 10 10	SOURCE DESCRIPTION AND A CONTRACT OF THE SECOND
425 9553).72).22	<0.2	ે31×ે	43 10045 3 5000000	<2	19		7			477	1 110 40000 4007								W.258.35			
426 2530 <.	5 <2 (0.06	<.5	224	0.51	<10	<10	0.03	<10		0.21	60	0.01		70 2	<1	2				<10 <10	9 <10		- 6-m-00000-00000-0-5-5-5-5-
427 2310		0.25	<0.2	59	3,39	6	<10	0.39	8	22	1.49	621	0.02	2	<5	<5 <20	,					68 <20	State of the second of	
428 9554		0.35	<0.2	51	4.23	<2	21	0.44	7	37	1.4	575	0.02	3	<5>	7 <20 5 <20		<10 <10	<10	0.15		83 <20		
429 2416 430 2309	philosophy in the case of the	0.09 0.22	<0.2 <0.2	57 50	3.5 4.95	- 8 6	20 34	0.42 0.63	7 12	25 35	1.46 1.58	543 831	0.03	2	<5 <5	<5 <20			<10	0.15	a file of a second and a	91 <20	San in estimate a securit	Na Kitturus eskanin in in
430 2529 <.).22).02	<.5		estantant colonici III - cati N	<10 °	ુ ે<10ે		`<10	33 2320	0.03	15	<.01	77 - 1000 1 (00 2303460)	<10 2	-419 °	. 10	H. 1973			<10 <10			
431 2415	Production and Assessment	0.15	0.3	46	4.45	7	47	0.32	11	22	1.35	809	0.02	3	<5	<5 <20	18	<10	<10	0.13	a consider to the control	80 <20		
432 2414	<5 (0.23	<0.2	47	4.35	8	39	0.59	12	30	1.51	638	0.03	3	ं <5	<5 <20	250 1 1 2017		ະ<10⊹	0.19	等的的	89 <20	and the control of the second	######################################
433 9555		0.32	<0.2	49	5.12	2	38	0.59		44	1.44	780	0.02	4	<5	6 <20			<10	0.14	127 % - 1280 - 1281 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 - 1370 -	86 <20		
. 1996 B. 1995 - 1995 P. 2. 2-124 - 125 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	secondary, recommon a tonic	324758	<0.2	42	3.43	<2	26	537-607-61-43	0.1927	31	1.15	563	0.03	or , 1857 page 258	<5	7 <20	100	<10 <10	5 0	Comment Property		78 <20 97 <20	6 <1 9 <1	Wichest and Community of the Community o
435 2335		0.34 0.23	<0.2 <0.2	56 38	5.02 3.45	<2 <2	17 21	0.73	9 7	51 25	1.65 1.1	630 484	0.02 0.02	4 1862 4 83	<5 <5	7 <20 6 <20				0.18	14 30 3 7 3		6 <1	
436 9557 437 2321	REPROVED TO A PROPERTY.	0.23 0.37	0.6	44	4.33	8	37	0.54	11	24	1.49	764	0.02	3	<5	<5 <20			A. 1724	0.16	1. 1880 Miles - 10 - 1 Cellul	81 <20		A
438 2439	11-4 - 1711 - 284 - VANCOUNDER		<0.2	55	3,65	6	45	0.63	10	A MA	1.22	11000000000	0.07	2	<5	<5 <20	34	^<10	<10	0.18		94 <20	5 <1	120
439 2320	<5 (0.23	<0.2	36	3.02	6	65	0.34	6	14	0.97	692	0.02	3	<5	<5 <20			<10	0.17	Decar Marint PAST 1.1	67 <20	19	·
440 2438	State in policy	0.28	W N	- 34	3.26	6	43	0.59	9	24	0.98	956	0.04	3, °	<5 -	<5 <20	F-1875	<10	2.000	MOUTH REPORTS	3.500	62 <20	7 . 10 1	STANDARDONS ASSOCIATION AND ADMINISTRATION OF THE PROPERTY OF
441 2337	E BUIL DO DE CONTROL DE CONTROL	0.22	<0.2	48	3.92	<2 	22	0.8	8	31	1.24	467	0.03	4 3	<5 <5	8 <20 <5 <20			<10	0.25 0.19	r (198 4) (1964) (19	92 <20		
442 2440 443 9556	Strand A. Saksanan an	0.16 0.06	<0.2 <0.2	37 45	3.23 4.12	∙ 7 <2	40 24	0.52 0.59	11	24	1.05 1.15	520 435	0.03	5	-, -, -, -, -, -, -, -, -, -, -, -, -, -	7 <20	2000 130 -	200 - 1200	<10	0.15		89 <20	. 15 a.s 1 contacted	SUCH SAMPRODAGES AND THE
			0.2		3.27	7		0.56	12		0.97	636	0.03	4	~5 - ~5	<5 · <20		<10	and the second second	0.18		MINISTER NO. 114 124	3 <1	
445 2455	38 N. C. C. V. D. 38 SP 183	0.24	<0.2	61	4.27	10	19	1.01	19	31	1.49	670	0.04	3	<5	6 <20	27	<10	<10	0.21	or were regions to a training	98 <20		·
446 2453	<5 (0.09	0.3	33	2.89	8	35	0.42	7	20	1.06	331	0.02	4	∵ ≺ 5	<5 <20			<10	'* · · · · · · · · · ''		68 <20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	98x 52x 312x 1 x 1 x 4x 252 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
446 2454		0.18	<0.2	37	3.41	8	50	0.49		17	1.11	391	0.02	4	<5	<5 <20			<10	0.19		75 <20	-	•
447 2307	295 P. J. J. S. S. S. S. C.	0.16	0.6	33	3.04	. 6 ≽ ~	53	delite A.	42. not 834. nd	22	1.05	585		3 3	21 <5	<5 <20 <5 <20			<10 <10	∜0.17∉ 0.21	1.04.20000000000000000000000000000000000	67 <20 74 <20	1.44 (1.15) (1.15)	Street a bite days days .
447 2308 448 2413	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	0.18 0.48	0.3 0.3	40 47	3.19 3.93	7 9	25 32	0.55 0.68	8 8	22 27	1.31 1.5	460 729	0.03	ა ვ		6 <20			<10				4 4	-
448 2528 <	Indian Charles and the Contraction	0.46 0.02	∻ ບ.ວ <.5	300.000	200 WW. C	<10	<10	0.01	<10		0.02	15	0.01	- The state of	20 <2	<1	3				<10 <10	4 <10	7 4 1	14 Manager 2 (1) 11 1
		0.28	<0.2		∵3.8∂	7	27	0.41	10	29	1.39	598	0.04	2	<5	<5 <20	21	<10	<10	0.14	er er i samme sam i er er i	76 <20	4 <1	
450 2411	estimate Sec	0.16	1	55	5	7	44	0.44	11	40	1.65	658	0.02	3	40	<5 <20			19	0.14	y 199 199 199 199 19	93 <20		rus, mesengan flusters.
451 2410	° <5	80.0	<0.2	65	4.24	9	33	0.48	9	27	1.58	460	0.02	3	**** \$5	5 <20	10	<10	<10	0.18		98 <20) 4 <1	

ivaa			K cám	a Sámhlái	Sam			Art.	281	a-delie	- 14ei - 1	Mar Indan	~_(© 3) *.	MAN SC	union ita
no l		e dion	type	size (fi)	SIG	Sample description		pen épni	ppm &	6-Delm	1990) (200 - 1990) .	a pom	W. i	990 3219
452	2409 Port Lucy		SS	20		Gw float in stream	<5	<0.2	36	9	95	3 34		2.65	<5 113
	2408 Port Lucy	Grand State of the	SS *		(364)	Stream in gw	<5	1<0.2	1. 16	7	88	1 26	11	2.5	<5.4.162
454	2407 Port Lucy	2	SS			Gw float in stream	<5			10	122	2 41		2.53	33 63
455	2527 Port Lucy	KS COLDENS	C.	1	OC	Qz vn in gw	<5	. : · · · <.2	. 2.58 F. Barrell	Description of the Control of the Co	2 44				<2 (SIII)
456	2406 Miner Cove		SS			Stream in gw	<5			6	97	<1 33		2.34	6 80
457	2024 Port Armstrong		Rep	``		Make the first the first the second of the s	** * * * * * * * * * *	e, and see a grant man in the	. 19 N.D., 161	m . 4 2 31.01 10 110000000	Assistant Salk Willey Strade of	440 4 70 440 00 17 18 4			4 -1.70
	2023 Port Armstrong		С		oc	Qz vn w/ ar partings, py along ma				<2	16	<1 8		0.52	4 <10
	2022 Port Armstrong		Rep	0.5	oc	Qz vn in gw w/ po in clots, locally	and the state of t	CONTRACTOR OF THE PARTY AND		The Control of State Co	10	ATACCAMPRISA SERVICE AND AGENCY		0.23	#<2 M<10
	2405 Port Armstrong		SS	a transmission	A. 1805 V 1890	Gw & qz float in stream	<5			6	71	2 15		2.12	<5 117
	9523 Betty Lake, SW	of.	SS		7.17		^ < 5	20088-1924 - 1 - To Ti Ci		ela, i militari estima d	126	<1: -20-	11 × 2 × 1 1 10 ×	A 14. 27. 38.50 M	<5 284
	2331 Puffin Bay	and the structure of the	SS	anta vives a reconstruction of the	Der i Stein Stan	Gw float in stream	<5 >			6	81	2 16		2.35	<5 151
1150 4 4	2452 Puffin Bay		SS		1 327	Gw & tonalite float in stream	* < 5	20.00 mm m m m m m m m m m m m m m m m m	2 - 42 - 42 - 42 - 42 - 42 - 42 - 42 -	8	88	and the second of the second of	1.250,256 17.251,000	What is a first of the secondary	<5.4178
463		mark and a staff war interest and the staff	SS	na in indicate a second	80.4355	Stream in hn gw	<5>			8 800 100 8 87	76	2 16 2 13		2.57	<5 214 <5 212
463	2451 Puffin Bay		SS			Stream in hn gw	<5	St. 477 1 (5.67) (27) 1. 3	medical services of March 112	·	65 53	2 13 <1 10	19 1 4	2.15 1.59	<5 196
464	2472 Puffin Bay	proces - 79%と500 (40%) (本語機器	SS	4943-48554 8 08	1878986 (143)		<5 *5		11 6	9		<1 8		1.3	
The second	2473 Puffin Bay		SS	9-10-4949-4		Granite float in stream	-, -, -, -, -, -, -, -, -, -, -, -, -, -,	DODE LANGERS AND ALL RES	17	8	88	<1 14	property of the same of	2.55	<5 259
	9517 Puffin Bay 9518 Little Puffin Bay	aren erikaren birtarra birtar	SS SS		KI Ayasa	Stream in gw w/ qz vns		<0.1		•	120.	<1 40			10 339
	2476 Leona Lake, S		SS	Mada Jirgilan	\$0. [EV. V.	Stream in gw		A 66 385660 L. S. L. 200 - 10-20 L. J.	33	13	135	<1 23		3.16	<5 253
	9522 Leona Lake, W		SS	51 1 2 14 14 15	46807	Stream in gw	<5	**************************************							5.283
468	paraboxy var variable file. The control of the con-	Olock .	SS	Karagaya e c	A784A7	Stream in gw	<5	E E M ST. TWWS-1984 CONT.	An electrical programmes.	13	71	2 16		4.07	<5 81
	2305 John Bay		SS	r. e. bor		Stream in gw w/ some gz vns	<5					~<1 14			149 106
6,000,000	2306 John Bay	大学、大学、大学、大学、大学、工学、大学等的	Rep	1	ос	Qz w/ ar partings, cp & po	<5	KASTONIO W NOW IN	359	122	46	2 12	TOLDHOOD COLLEGE	0.13	<5 36
470	2304 Port Conclusion		SS			Stream in gw	#∷<5	<0.2	* 6	5	49**	2 13	. 5	1.85 🔛	<5 103
471	2032 Port Conclusion	and the first term of the contract of	 S	5.3	ОС	Qz vns w/ gw selvage, up to 5% j	py <5	0.2	455	44	238	1 6	13	0.19	<2 <10
	AND THE REPORT OF THE PARTY OF	and the second second	SS	9.8551475		Stream in gw	<5	<0.2	. 14	9	53	2 14*	8	1.9	<5 100
473	2031 Port Conclusion		S	0.25x15	OC	Qz vn w/ ar selvage, py/po	45		188	6	60	12 76	16	0.48	<2 10
474	2403 Port Conclusion		SS			Stream in gw	<5	<0.2	24	6.	94	2 18	11	2.49	<5.4143
475	2030 Port Conclusion	1	Rep	30	OC	Qz vns w/ gw partings, py/po to 1	% <5			<2	18	<1 9		0.41	2 30
476	9521 Port Conclusion	i, W of	SS				*<5	<0.1		ğ	105	a compared to expense	- 11		/ 5 180
477	9519 Larch Bay, head	d of	SS				<5			7	98	<1 21		2.81	<5 251
478	2402 Port Conclusion		SS			Stream in gw	<5	DOMESTIC CO. C.	2 - 2 - 1 - 2 - 2 - 2 - 1 - 1 - 1 - 1 -	6	102				< 5. 155°
479	2302 Port Conclusion		SS	10. F . FS 10. THE T. AND TO SEE	**************************************	Stream in gw w/ qz float	<5 >			13	150	2 34		3.26	<5 123
4 137505	2401 Port Conclusion		SS			Gw & qz float in stream	<5	Gallion, same of the first partie of the free with a	25000 CC 2	10	95	2 4 1 1 X 1 1 V 1 1 V 1 1 V 1 1 V 1 V 1 V 1			<5 *118
480	2029 Port Conclusion	the second of the second of the second	Rep	40	ОС	Qz vns w/ qz br, ar, py/po <1%	<5 > > < < < < < < < > > < < < < < < < <			2	20	<1 8		0.81	<2 10
1.45 (\$6.75) 844	2027 Port Conclusion	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rep	20	OC :	Sil gw sc w/ qz vns, py to 1%, fes		TO SERVICE SECTION CO	2,000,000,000,000,000,000,000	2.	22	and the second section of the second	NUMBER OF STREET	 656 - 29035-325 Josephone 	10 110
482	and the same contraction and the same and th	and the state of t	Rep	nuscentaria Secon	OC	Qz vns w/ gw partings, trace py/p				2	4	<1 4 ≪1 5		0.07	2 <10
483	2025 Port Conclusion		Rep	75	Contain the	Qz vns w/ minor py	<5	28 28 PM 1 1 1 20 30 W 1 1 2	process substitutions are as	. 2 _.	* 8 21	<1. 5. 2 29	~ < X > X ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0.12	18 <10 1249 130
484	2301 Port Alexander	an in the second second	G	ا (ماکوار دار داخه روزهو ر	OC	Sil volc w/ py, aspy & cp?	5> 3 22 0 - د د د د د د د د د د د د د د د د د د	414 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		11	161				64 76
485	2300 Port Alexander		G	[編](明] 權同	oc .	Metavoic w/ minor sulf Stream in granite	3220 <5	TOWERS THE	A7530/6 . 6 s . 3	56	74	<1 12	75% 35 C	1.77	6 169
486	2474 Larch Bay, S of 2475 Cape Ommane	the second second second second	SS SS	0.2	oc	Gs w/ 15% po		4 - 45 - 46 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -			Same 600/40 400	<1 72		2.21	
487 487	9520 Cape Ommane		Rep	U. 4	OC .	Gs W/ 1576 PO		, per externar consta	82	3	41	2 21	200 400	1.32	<5 3
40/	9020 Cape Onimane	у	veh		00	Gs	-5	-0.1	02	3	7.				

Wang Sam a Region Rivers Construction Constr	NEC NO PERSONAL SOLICIO DE PROPERTO PER LA CONTRACTOR DE PROPERTO
has not pom pom so a pom som. St. som pob. % pom pom 35 poms.	daa soon maa mata maa maa maa maa maa koos maa maa maa maa maa maa maa maa maa ma
102 2100	0.03 2 <5 5 <20 22 <10 <10 0.15 93 <20 5 <1
- 多数能量等機能等の過程機能はあります。 (2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	0.03 3 <5 <5 <20 26 <10 <10 0.17 66 <20 4 <1
454 2407 <5 0.39 0.4 54 3.83 6 19 0.22 8 29 1.59 822	0.02 2 <5 <5 <20 41 <10 <10 0.12 65 <20 5 <1
455 2527 <5 <2 0.06 <.5 261 0.29 <10 <10 <.01 <10 0.01 20	<.01 <10 <2 <1 1 <.01 <10 <10 2 <10
	0.02 2 <5 <5 <20 21 <10 <10 0.13 61 <20 4 <1 0.03 90 <2 <1 7 0.01 ×10 <10 6 <10
- 機能を支援機能機能を表現しまれる機能は、 と 2014年 まんしょう 1914年 1914	0.03 90 <2 <1 7 0.01 <10 <10 6 <10 0.02 120 <2 1 2 0.01 <10 <10 16 <10
	0.02 170 <2 <1 6 4.01 <10 7 <10
- 1488200000000000000000000000000000000000	0.03 3 <5 <5 <20 17 <10 <10 0.16 65 <20 4 <1
7.00	0.03 4 <5 8 <20 39 <10 <10 0.19 87 <20 7 <1
462 2331 <5 0.22 <0.2 34 3.14 7 24 0.41 7 18 1.24 501	0.02 3 <5 <5 <20 27 <10 <10 0.19 69 <20 3 <1
462 2452 <5 0.35 <0.2 40 3.41 8 18 0.59 8 26 1.29 547	0.03 3 <5 <5 <20 28 <10 <10 0.2 75 <20 3 <1
463 2450 <5 0.18 <0.2 45 3.54 6 53 0.52 7 21 1.2 641	0.03 4 <5 <5 <20 20 <10 <10 0.19 81 <20 3 <1
一点 的人理解,他在这个 是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一	0.02 3 <5 <5 <20 11 <10 <10 0.23 87 <20 2 2
	0.03 4 <5 <5 <20 15 <10 <10 0.13 54 <20 4 <1
- 機能機能機能を必要性を とれる。	0.03 4 <5 <5 <20 13 <10 <10 0.11 58 <20 2 <
	0.03 4 <5 6 <20 21 <10 <10 0.18 79 <20 4 <1 0.03 4 <5 8 <20 25 <10 <10 0.23 94 <20 6 <1
- 2017年 - 1917年 -	0.03 4 <5 8 <20 25 <10 <10 0.23 94 <20 6 <1 0.03 4 <5 7 <20 64 <10 <10 0.18 86 <20 7 <1
466 2476 <5 0.59 <0.2 47 4.15 <2 23 0.69 9 39 1.32 596 467 9522 5 <5 0.5 <0.2 41 4.11 <2 35 0.79 7 36 1.29 539	0.03 4 <5 7 <20 36 <10 <10 0.18 85 <20 6 <1.5
	0.05 <1 <5 <5 <20 128 <10 <10 0.1 56 <20 2 <1
	0.03 3 61 <5 <20 42 51 30 0.12 63 <20 4 <1
,一种生活的数据数据的概念的对抗的数据的问题,这些数据的问题,可以可以是对抗的问题,如此是不能够的问题,可以可以可以是一个一个一个一个一个一个一个一个一个一个一	<0.01 <1 <5 <5 <20 3 <10 <10 <0.01 4 <20 1 1
470 2304 <5 0.09 <0.2 43 2.5 8 34 0.29 5 18 1.09 299	0:02 2 <5 <5 <20 13 <10 <10 0:14 64 <20 3 <10
471 2032 <.5 <2 0.04 0.5 204 1.42 <10 <10 0.04 <10 0.07 40	<.01 50 <2 <1 3 0.01 <10 <10 6 <10
472 2303 <5 0.17 <0.2 48 2.77 7 54 0.25 4 14 1 370	0.02 3 <5 <5 <20 23 <10 <10 0.13 64 <20 2 <14
110 2001 10 2 0100 10 100 0101 10 10 0100 10	0.02 1300 <2 1 42 0.03 <10 <10 49 <10
2号を整備機能が影響といい。 (1995年 - 1997年 -	0.03 1 < <5 <5 <20 24 <10 <10 0.16 78 <20 3 <1
	0.04 230 4 1 35 0.02 <10 <10 15 <10
- 「大学は経過機能を受けるとはないはないには、ないないない。」というないは、これには、これには、これには、これには、これには、これには、これには、これに	지점하고 있다면 생각이 되는데 가득한 대가 되었다. 그는 나는 아무는 사람들이 사람들이 가장하는 사람들이 사고를 들어서 그릇을 가장 그는 사람들이다.
and the contract of the contra	0.03 5 <5 6 <20 41 <10 <10 0.15 75 <20 4 <1 0.04 2 <5 <5 <20 39 <10 <10 0.16 78 <20 4 <1
- 大学者の経過を含め、数 後が高い出来であった。大学 (1974) 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 -	0.03 3 <5 <5 <20 54 <10 <10 0.14 74 <20 5 <1
The second secon	0.04 2 <5 <5 <20 42 <10 <10 0.15 77 <20 4 <1
- 養養物質を経過が経過過過過には、最初が必要がは、。。 ことは、 ことはは、 ことはは、 これは、 これは、 これは、 これは、 これには、 これには、 こことは、 こことは、 こことは、 こことは、 こことには、 これには、 これには、 これには、 ことには、 ことにはは、 ことにははは、 ことにはは、 ことにはは、 ことにはは、 ことにははは、 ことにははは、 ことにはは、 ことにははは、 ことにははは、 ことにははは、 ことにははは、 ことにははは、 ことにははははは、 ことにはははは、 ことにはははははははははははははははははははははははははははははははははははは	0.05 350 <2 1 37 0.01 <10 <10 16 <10
	0.09 810 2 1 46 0.01 \$10 \$10 \$10
482 2026 <.5 <2 0.07 <.5 249 0.34 <10 <10 <.01 <10 0.04 20	<.01 20 2 <1 2 <.01 <10 <10 3 <10
*483 2025 <.5 <2 0.32	<.01 60 <2 <1 8 0.01 <10 6 <10
484 2301 <5 0.14 <0.2 138 4.47 <2 <10 0.2 9 2 0.07 999	0.03 <1 <5 <5 <20 37 <10 <10 0.01 60 <20 3 <1
- MANAGE STANDERS CONTRACTOR OF A SECTION OF THE SE	0.04 1 <5 6 <20 41 <10 <10 0.05 63 <20 5 <1
486 2474 <5 0.19 <0.2 29 2.52 <2 36 0.38 7 21 0.76 395	0.02 4 <5 <5 <20 16 <10 <10 0.15 57 <20 4 <1
487 2475 <5 0.31 <0.2 41 10 <2 <10 0.08 <1 18 1.6 350	0.06 2 <5 <5 <20 12 <10 <10 0.04 44 <20 <1 2
487 9520 <5 0.96 <0.2 118 3.65 <2 <10 0.13 <1 10 1.25 258	0.11 2 <5 7 <20 40 <10 <10 0.15 67 <20 6 2

Table B-2. Analytical results of REE samples

		Table D-2. Allalytical	I GSUILS OF INCLE SAIN	hies	
Marieto	Sim Schilde Schi				
કું	National design of the	Simple (legacity) (in the contraction of the contra	្ស ទទ្ធល ខែទំ ព្រ ខ្មន្តទៀ	l sein sein sein Sen	i a popia apoint applica-
27 1388 Salt Lake Bay	S TP	K-spar peg dike w/ py seams (1%)	22 43 15	2.9 <.5 <.5 2.6	0.4 22 7
31 1386 Sall Lake Bay	S 0.5 - TP	Hem in day gouge in sheared gd	10 18 5 <5	0.7 0.4 < 5 0.5	0.1 15 6
112 1224 Kadashan Bay	Rep TP	Syenite w/ little to no qz; minor py	55 94 29	4.7 0.6 0.8 5.4	0.8 41 22
112 1373 Kadashari Bay	Rep 2 TP	Alt syenite along shear	* 42 4 78 3 25	4.3 < 5 0.7 4.8	30.8 30 18
114 1233 Trap Bay	Rep OC	Minor py, trace cp, in aplite dike in hn	13 25 9	1.5 0.2 <.5 2.1	0.4 31 15
116 1225 Comer Creek	Rep 1 1 TP	Alt syenite inclusion in di; py to 2%	49 88 31	5,3 1 0.9 3.6	0.5 25 11
117 1377 Corner Creek	Rep TP	Highly fractured syenite	19 38 16	3.6 0.8 <.5 1.6	0.3 3.8 3
118 1378 Kdok Lake	SS ::	Syenite, metavolc, & Is float	67 (125) 46	7 1.6 0.8 3	0.5% 10.1 8
119 1379 Kook Lake	SS	Volc and syenite float	44 87 37	6.2 1.5 0.6 2.7	0.4 7.8 9
120 1228 Kook Lake	SS 👫	Gd, syenité & mafic dike rock as float	49 93 437	5.8 1.3 0.5 3.8	. + 0.6 : 10.4 : 13
121 1226 Kook Lake	Rep TP	Py & cp in clots to 5% in syenite	31 69 31	5 1 0.6 1.7	0.3 4.1 3
122 1227 Koök Läke	SS: *	Gd; syenite, & volc as float	65 119 40	6.3 1,2 0.9 6.4	· · · 1.1 · 13.9 · 19
123 1362 Sitkoh Bay	SS	Area of intrusives w/ minor marble	40 75 34	5.9 1.4 0.8 2.6	0.4 6.4 8
124 1363 Sitkoh Bay	Rep OC	Felsic dike in hn & tonalite	11 . 22 . 8	* 1.3 <.5 <.5 ,0.5	<1 5.5 3
125 1217 Sitkoh Bay	S RC	Clots of py/po in trondhjemite	20 40 18	3.2 1.2 0.5 1.6	0.2 3.6 3
128 1215 Sitkoh Bay 🚛 🗯 🦸	Rep. (2 OC	Syenite w/ thin black silicate veinlets	21 37 18	2.6 1.2 <.5 1.2	0.2 3.6 2
128 1359 Sitkoh Bay	Rep 2.6 OC	Diabase dike in alkalic int; po <1%	13 30 18	4 1.3 0.6 1.9	0.3 2 2
129 1214 Sitkoh Bay	Rep OC	K-spar-rich syenite	33 59 21	3.3 1.4 0.5 2.1	0.3 7.6 5
129 1358 Sitkoh Bay	S RC	Alkalic intrusive w/ py ~1%	32 55 15	2.9 1.4 <.5 1.8	0.3 9.1 14
130, 1213, Sitkoh Bay	S 0.1 OC	Alt tonalite in shear w/ py/po to 10%	22 .51 28	6 1.7 0.7 1.6	0.3 2.7 <1
133 1211 Sitkoh Bay	Rep OC	Cg bt-hnbd tonalite w/ finely dissem py	14 30 18	4.5 1.1 0.9 3	0.5 1.1 <1

Table B-3. Analytical results of carbonate/whole rock samples

Map Sam Sample	Same		NO PEON RE	Mgo Mgo Naciel	o iglo iller iller seicor schvif
Enote including an incention and a type asize (n)	site a 1912 Sample description in 1986 se		78 Bay 6 Bay 64	经数据外型外级 外	
4 LS9 Westport	OC .	0.75 46.06 0	0.02 0.66 0.14	4.76 0.02 0.06 0.0	01 5.27 0.03 41.4 82.25 99.43
5 LS8 Westport	OC .	0.59 50.09	01 0,39 0.12	2.19 0.02 0.03 0.0	01 4.23 0.03 41.7 489.45 4 99.47
6 LS7 Westport	OC	0.31 51.92 0	0.01 0.42 0.07	2.32 0.03 0.03 0.0	01 1.05 0.03 43.5 92.71 99.42
7 CS5 Westport SC 450@10	OC Dark gray, fg, bedded	0.58 - 51.9 <	0.45 0.13	1.45 0.01 0.03 0.0)5 2.55 0.03 42.1 92.68 199.10 -
8 LS4 Westport SC 150 @ 10	OC Dark gray, fg, fossiliferous	0.71 51.5 <	.01 0.37 0.14	1.79 <.01 0.01 0.0	08 2.48 0.03 42.3 91.96 99.70
56 LIST False Bay SC 200 @ 10	TP Micrific, clois of organics	0.6 //51/17 <	0.01 0.58 0.18	-2.08 0.01 0.11 €0.	01 173 0.02 4221 91.38 98.69
56 LS2 False Bay SC 200@10	TP Micritic, clots of organics	0.41 50.11 <	0.01 0.45 0.12	3.25 0.02 0.08 <0.0	01 1.16 0.01 42.87 89.48 98.48
74 LS3 Seal Creek > 2	OC Gray-white banded, some sulf	0.18 48.97)1 - 1.85 0.01 43 87.45 2 99.29
301 2377 Mt. Muravief, W. Ridge Rep	OC Greenstone	15.08 2.23 0	0.02 5.22 1.62	2.14 0.16 2.96 0.1	16 65.31 0.72 2.25 98.00
301 2378 Mt. Muravief, W. Ridge Rep	OC Graywacke	16.86 8.53 0	0.06 10,99% 0,31	6.28 0.16 0.70 0.1	4 46.79 1.45 6.80
301 2379 Mt. Muravief, W. Ridge Rep	OC Altered schist	1.48 0.03 0	1.68 0.35	0.08 0.02 <.01 0.0	01 89.57 0.14 4.19 97.59

Table B-4. Detection limits by analytical technique

Fire assay

Element	Minimum, ppm	Finish Method
Au	0.005	AA (Chemex & Bondar Clegg)
Au	0.005 oz/t	gravimetric (Bondar Clegg)
Au	0.07 oz/t	gravimetric (Chemex)
Pd	0.002	ICP (Chemex)
Pt	0.005	ICP (Chemex)

Atomic absorption spectrophotometry (AA)

	Min, ppm	Min, ppm		Min, %	Min, %
Element	Chemex	Bondar Clegg	<u>Element</u>	Chemex	Bondar Clegg
Ag	0.2	0.1	Cu, ore-grade	0.01	0.01
Cu	1	1	Pb, ore-grade	0.01	N/A
Pb	1	2	Zn, ore-grade	0.01	N/A
Zn	1	1	Ni, ore-grade	0.01	N/A
Mo	1	1			
Co	1	1			
Ni	1	1			
Hg	0.01	0.01			

Inductively coupled argon plasma atomic emission spectroscopy (ICP)

	Min, ppm	Min, ppm		Min, ppm	Min, ppm
Element	<u>Chemex</u>	Bondar Clegg	Element	<u>Chemex</u>	Bondar Clegg
Ag	0.2	0.2	Fe	100	100
Cu	1	1	Ga	10	2
Pb	2	2	K	100	100
Zn	2	1	La	10	1
Mo	1	1	Li	N/A	1
Ni	1	1	Mg	100	100
Co	1	1	Mn	5	1
Al	100	100	Na	100	100
As	2	5	Nb	N/A	1
Ba	10	1	P	10	N/A
Be	0.5		Sb	2	5
Bi	2 .	5	Sc	1	5
Ca	100	100	Sn	N/A	20
Cd	0.5	0.2			
Cr	1	1			

ICP Spectroscopy continued

	Min, ppm	Min,ppm		Min, ppm	Min,ppm
Element	Chemex	Bondar Clegg	Element	<u>Chemex</u>	Bondar Clegg
Sr	1	1	U	10	N/A
Ta	N/A	10	V	1	1
Te	N/A	10	W	10	20
Ti	100	100	Y	N/A	1
Tl	10	N/A	Zr	N/A	1

Detection Limits - Neutron activation analysis

Element	Min, ppm
La	1
Ce	2
Nd	5
Sm	0.1
Eu	0.5
Tb	0.5
Yb	0.5
Lu	0.1
Th	0.5
U	1

X-ray fluorescence spectroscopy (XRF)

Element	Min, %	Max, %
Al_2O_3	0.01	100
CaO	0.01	100
Cr_2O_3	0.01	100
Fe_2O_3	0.01	100
K ₂ O	0.01	100
MgO	0.01	100
MnO	0.01	100
Na ₂ O	0.01	100
P_2O_5	0.01	100
SiO ₂	0.01	100
TiO ₂	0.01	100
LOI	0.01	100

Titration

Element	Min, %	Max, %
CaCO ₃	0.01	100

APPENDIX C - ALPHABETICAL LIST OF MINES, PROSPECTS, AND MINERAL OCCURRENCES

Table	C-1. List	of mines, pros	spects, and mineral occurrences		
31	Prospect no.	Map no. (Plate 2,	1	Prospect no. (Plate 1)	Map no (Plate : Table B
Name	(Plate 1)	Table B-1)	Name	P97	152-15
Alaska Chichagof	P71	<u> </u>	Deep Bay		132-13.
American Gold Company	P69		Discovery on 1st Teer	P56	ļ
Anderson	P83		Eagle Group	P58	104
Andy	P79		East Point Pit	P23	104
Apex	P120	212	Edgecumbe Exploration	P125	215
Apex El Nido	P17		Eldorado	P89	
Baldy Lode	P25	103	Eureka	P126	216
Baney	P67		Falcon Arm	P90	
Baranof Queen	P122		Falls	P87	
Basket Bay	P30		Flat Top Mountain, Upper Workings	P85	
Basoiniuer	P62		Flat Top Mountain, Sea Level	P84	
Bauer	P64		Flora	P73	
Bauer	P132	223	Free Gold	P134	228
Bertha Bay	P41		Freshwater Bay	P22	87
Big Ledge	P24	106	Gangola	P118	211
Black Hawk & Susie Groups	P104		Goddard Hot Springs	P139	239-242
Bohemia Basin	P11		Gold Reef	P127	
Bon Tara Mine	P12		Golden Hand Apex	P51	
Bonanza	P2		Goldwin	P13	
Boston Claim	P116		Green Lake	P128	218
Bullion	P119		Gypsum Creek	P19	57, 63-6
Cable Claims	P32		Haley & Hanlon	P117	
Calcium Carbonate Time	P55		Halleck Island	P109	175
Camel Gypsum	P20		Handy	P78	1
Cascade	P114		Hanlon	P65	
Chichagof Star	P86		Hansen & Bolshan	P68	1
Chichagof Prosperity	P63		Helen Chichagof	P76	
Chichagof	P75	141	Henrietta	P123	
Cobol Mine	P91	 	Hill & Berkland	P80	
Columbia Point	P27	<u> </u>	Hill	P137	236-23
Columbine Group	P16	†	Hill Point	P26	107-10
Column Point	P7	<u> </u>	Hirst-Chichagof	P60	107-10
Congress	P52	 	Hodson	P61	
Cox Brothers	P48	 	Indian River	P111	
	+	 		P111	
Crow Point Cub Mountain	P3	 	Inian Island Jumbo	P70	

Table	C-1. List	of mines, pro
	Prospect	
	no.	(Plate 2,
Name	(Plate 1)	Table B-1)
Kaiser Gypsum	P21	
Koby	P31	
Krestof Group	P107	174
Lake Anna	P81	
Lake Morris-mt.	P42	
Lake Elfendahl	P43	
Lemesurier Island Paligorskite	P1	
Liberty	P121	213
Little Bay	P46	
Little Blonde & High Grade		
Groups	P106	
Lost Anchor	P101	164-166
Lower Ledge	P129	221
Lucky Chance	P135	231
Lucky Chance Mtn.	P136	232-235
Magoun Island	P108	176-181
Martha-brown Cub	P50	
Marvitz	P6	1
McKallick Lode	P59	
McKallick Placer	P66	
McKallick Chichagof Mines	P74	
Middle Arm	P99	169-171
Mine Mountain Area	P33	
Mine Mountain Mine	P34	
Mirror Harbor	P45	
Mt. Baker	P44	
Mt. Muravief	P141	301-305
Neka Bay	P8	
New Chichagof Mining	1	
Syndicate	P49	
Next	P96	
Nilsen	P14	
No Name	P131	222
Ob	P72	
Orange Gulch	P94	
Pande Basin	P112	
Pat	P88	
Patterson Bay	P140	253-257
	P18	200 201

Name	Prospect no. (Plate 1)	Map no. (Plate 2, Table B-1)
Port Lucy	P144	426
Port Conclusion	P145	480-483
Portage Arm	P100	161-162
Power Line Prospect	P77	
Ram	P92	
Red Bluff Bay	P138	243-247
Redfish Bay	P143	380
Redone	P29	
Rodman Bay	P98	160
Rossman Vein	P15	
Sealion Cove	P105	173
Senate	P53	
Siginaka Island	P110	182-184
Silver Bay	P124	
Slim & Jim	P40	
Slocum Arm	P95	146-151
Snipe Bay	P142	341-343
Snow Slide	P47	
South Arm	P103	168
Squid Bay	P10	
Stag Bay Gold	P36	
Stag Bay Copper	P38	
Stag Bay Magnetite	P37	
Stewart	P130	220
Stranger River	P39	
Surge Bay	P9	
Tenakee Inlet Marble	P28	
The Basin	P102	167
Thetis	P115	209
Triplet Island	P54	
Ushk	P93	
Warm Springs Bay	P113	185-207
Whitney	P4	133 207
Wicked Fall	P133	225
Winther	P57	223
Woll	P82	